



Synergy Resources Corporation

SEC 5-T5N-R66W

Boomerang 21-5

Boomerang 33N-6C-M

OH

Plan #1

Anticollision Report

05 April, 2017

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	4/5/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,589.88	Plan #1 (OH)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
Boomerang 12C-6-M - OH - Plan #1	377.20	377.02	14.05	6.93	1.973	CC
Boomerang 12C-6-M - OH - Plan #1	15,589.88	15,710.07	249.12	-226.53	0.524	Level 1, ES, SF
Boomerang 12N-6B-M - OH - Plan #1	200.00	200.00	30.00	23.33	4.495	CC
Boomerang 12N-6B-M - OH - Plan #1	15,577.59	15,619.90	444.40	-84.62	0.840	Level 1, ES, SF
Boomerang 13C-6-M - OH - Plan #1	200.00	200.00	45.03	38.36	6.747	CC, ES
Boomerang 13C-6-M - OH - Plan #1	15,589.88	15,676.71	567.65	46.84	1.090	Level 2, SF
Boomerang 13N-6B-M - OH - Plan #1	200.00	200.00	30.03	23.36	4.499	CC
Boomerang 13N-6B-M - OH - Plan #1	15,589.88	15,448.82	387.68	-135.68	0.741	Level 1, ES, SF
Boomerang 25N-3A-L - OH - Plan #1	357.92	356.11	89.11	82.05	12.621	CC, ES
Boomerang 25N-3A-L - OH - Plan #1	600.00	589.35	98.20	90.05	12.042	SF
Boomerang 25N-3B-L - OH - Plan #1	200.00	200.00	105.06	98.39	15.742	CC, ES
Boomerang 25N-3B-L - OH - Plan #1	7,100.00	7,314.64	973.83	905.50	14.252	SF
Boomerang 28C-3-L - OH - Plan #1	200.00	200.00	120.07	113.39	17.990	CC, ES
Boomerang 28C-3-L - OH - Plan #1	300.00	295.93	122.40	115.51	17.769	SF
Boomerang 28N-3A-L - OH - Plan #1	200.00	200.00	105.06	98.39	15.742	CC, ES
Boomerang 28N-3A-L - OH - Plan #1	300.00	296.44	107.40	100.51	15.589	SF
Boomerang 32C-6-M - OH - Plan #1	200.00	200.00	60.03	53.36	8.995	CC, ES
Boomerang 32C-6-M - OH - Plan #1	15,589.88	15,846.35	853.76	324.65	1.614	SF
Boomerang 32N-6B-M - OH - Plan #1	362.04	360.57	73.99	66.91	10.460	CC, ES
Boomerang 32N-6B-M - OH - Plan #1	15,589.88	15,738.53	1,045.47	510.39	1.954	SF
Boomerang 32N-6C-M - OH - Plan #1	375.70	374.82	43.92	36.80	6.169	CC
Boomerang 32N-6C-M - OH - Plan #1	400.00	398.85	43.97	36.77	6.103	ES
Boomerang 32N-6C-M - OH - Plan #1	15,572.21	15,713.78	659.08	125.18	1.234	Level 2, SF
Boomerang 33C-6-M - OH - Plan #1	200.00	200.00	15.00	8.33	2.248	CC
Boomerang 33C-6-M - OH - Plan #1	15,589.88	15,644.69	249.01	-224.19	0.526	Level 1, ES, SF
Boomerang 34C-6-M - OH - Plan #1	200.00	200.00	75.03	68.36	11.242	CC, ES
Boomerang 34C-6-M - OH - Plan #1	15,589.88	15,639.31	975.99	451.88	1.862	SF
Boomerang 34N-6A-M - OH - Plan #1	200.00	200.00	60.03	53.36	8.995	CC, ES
Boomerang 34N-6A-M - OH - Plan #1	15,589.88	15,335.52	785.30	267.80	1.517	SF
Boomerang 34N-6C-M - OH - Plan #1	200.00	200.00	90.06	83.39	13.495	CC, ES
Boomerang 34N-6C-M - OH - Plan #1	15,589.88	15,501.10	1,320.12	794.29	2.511	SF
FRAKER #1 - OH - OH	12,119.49	6,982.81	842.70	430.68	2.045	CC, ES, SF
FRAKER J #6-2 - OH - OH	11,901.69	6,941.50	326.06	-77.43	0.808	Level 1, CC, ES, SF
GREELEY TECH CENTER #41-5 - OH - OH	6,150.69	6,066.32	1,731.30	1,677.92	32.429	CC
GREELEY TECH CENTER #41-5 - OH - OH	6,478.15	6,399.37	1,731.57	1,675.45	30.851	ES
GREELEY TECH CENTER #41-5 - OH - OH	6,650.00	6,571.24	1,752.54	1,695.10	30.510	SF
KELLY # 1-3 - OH - OH	6,476.01	6,365.43	8,190.47	7,940.64	32.785	CC

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
KELLY # 1-3 - OH - OH	6,500.00	6,389.42	8,190.92	7,940.16	32.665	ES
KELLY # 1-3 - OH - OH	7,100.00	6,905.80	8,469.06	8,199.10	31.371	SF
KELLY #2-3 - OH - OH	6,476.01	6,349.43	9,459.32	9,210.52	38.019	CC
KELLY #2-3 - OH - OH	6,500.00	6,373.42	9,459.77	9,210.04	37.879	ES
KELLY #2-3 - OH - OH	7,050.00	6,848.75	9,701.01	9,433.44	36.255	SF
Kelly Farms #12-4-3CHZ - OH - OH	5,789.65	5,688.46	4,491.47	4,440.35	87.846	CC
Kelly Farms #12-4-3CHZ - OH - OH	6,357.13	6,259.53	4,492.39	4,436.63	80.565	ES
Kelly Farms #12-4-3CHZ - OH - OH	6,600.00	6,342.00	4,508.15	4,451.07	78.986	SF
Kelly Farms #22-4-3CHZ - OH - OH	6,320.64	6,222.20	4,616.18	4,560.02	82.201	CC
Kelly Farms #22-4-3CHZ - OH - OH	6,437.49	6,437.49	4,616.38	4,558.85	80.253	ES
Kelly Farms #22-4-3CHZ - OH - OH	6,650.00	6,438.00	4,641.28	4,582.97	79.601	SF
Kelly Farms #A-4-3CHZ - oH - OH	6,414.05	6,328.90	4,551.69	4,494.93	80.188	CC
Kelly Farms #A-4-3CHZ - oH - OH	6,476.01	6,362.03	4,551.90	4,494.73	79.626	ES
Kelly Farms #A-4-3CHZ - oH - OH	6,650.00	6,441.00	4,577.57	4,519.45	78.759	SF
Kelly Farms #A-4-3NHZ - OH - OH	6,135.88	6,061.33	4,433.65	4,377.93	79.578	CC
Kelly Farms #A-4-3NHZ - OH - OH	6,200.00	6,082.00	4,433.87	4,377.79	79.064	ES
Kelly Farms #A-4-3NHZ - OH - OH	6,600.00	6,260.00	4,457.29	4,398.92	76.354	SF
LA POUDRE SOUTH #4 - OH - OH	13,466.60	6,989.19	1,871.91	1,415.74	4.104	CC
LA POUDRE SOUTH #4 - OH - OH	13,500.00	6,988.78	1,872.21	1,414.97	4.095	ES
LA POUDRE SOUTH #4 - OH - OH	13,600.00	6,987.55	1,876.66	1,416.63	4.079	SF
Orr 36C-32-M - OH - OH	7,250.00	16,170.15	1,327.47	995.05	3.993	ES, SF
Orr 36C-32-M - OH - OH	13,398.12	10,001.13	1,307.68	998.45	4.229	CC
Orr State 36N-35C-M - OH - OH	15,537.22	7,393.55	1,224.10	905.80	3.846	CC
Orr State 36N-35C-M - OH - OH	15,589.88	7,429.00	1,224.72	904.22	3.821	ES, SF
PEANUT #1 - OH - OH	15,085.84	6,923.22	536.05	29.05	1.057	Level 2, CC
PEANUT #1 - OH - OH	15,100.00	6,923.04	536.24	28.84	1.057	Level 2, ES, SF
REICHERT #1-6 - OH - OH	13,620.06	6,989.30	507.27	46.08	1.100	Level 2, CC, ES, SF
ROTHE #1-14 - OH - OH	15,589.88	6,963.00	1,174.19	703.73	2.496	CC, ES, SF
SOUTH #6-21D - OH - OH	13,520.27	7,290.04	543.46	293.71	2.176	CC, ES, SF
SOUTH #6-22D - OH - OH	13,672.10	7,033.68	782.37	529.65	3.096	CC
SOUTH #6-22D - OH - OH	13,700.00	7,033.74	782.87	529.53	3.090	ES, SF
SOUTH #6-23D - OH - OH	13,820.53	7,049.59	2,182.86	1,923.16	8.406	CC
SOUTH #6-23D - OH - OH	13,900.00	7,050.00	2,184.30	1,921.88	8.324	ES
SOUTH #6-23D - OH - OH	14,200.00	7,051.54	2,215.60	1,945.62	8.207	SF
SOUTH #6-24D - OH - OH	13,500.00	13,500.00	3,421.08	3,136.67	12.029	ES, SF
SOUTH #6-24D - OH - OH	13,898.10	6,291.63	3,398.92	3,145.93	13.435	CC
SRC #31-5D - OH - OH	6,152.00	6,319.47	581.01	520.95	9.674	CC
SRC #31-5D - OH - OH	6,200.00	6,362.66	581.20	520.86	9.632	ES
SRC #31-5D - OH - OH	6,650.00	6,816.49	592.02	528.45	9.313	SF
SRC Northridge #11-4D - OH - OH	6,486.45	6,910.28	2,895.78	2,778.59	24.711	CC, ES
SRC Northridge #11-4D - OH - OH	6,550.00	6,976.85	2,898.89	2,781.38	24.668	SF
SRC Northridge #12-4D - OH - OH	6,486.16	6,705.09	3,082.56	3,015.91	46.251	CC, ES
SRC Northridge #12-4D - OH - OH	6,600.00	6,792.96	3,092.69	3,025.48	46.018	SF
SRC Northridge #21-4D - OH - OH	6,484.97	6,634.88	4,193.31	4,120.71	57.758	CC, ES
SRC Northridge #21-4D - OH - OH	6,700.00	6,837.92	4,229.35	4,155.46	57.244	SF
SRC Northridge #22-4D - OH - OH	5,130.92	5,065.90	4,272.25	4,227.61	95.704	CC, ES
SRC Northridge #22-4D - OH - OH	5,900.00	5,065.90	4,340.92	4,294.00	92.509	SF
SRC Northridge #4AD - OH - OH	6,493.59	6,646.56	3,614.73	3,550.92	56.646	CC
SRC Northridge #4AD - OH - OH	6,500.00	6,652.59	3,614.77	3,550.91	56.607	ES
SRC Northridge #4AD - OH - OH	6,700.00	6,868.53	3,647.33	3,582.10	55.912	SF
SRC Northridge #4KD - OH - OH	6,132.67	6,237.74	3,765.84	3,681.85	44.839	CC
SRC Northridge #4KD - OH - OH	6,476.01	6,565.62	3,766.37	3,680.41	43.815	ES
SRC Northridge #4KD - OH - OH	6,600.00	6,684.65	3,777.66	3,691.11	43.646	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Boomerang 21-5						
SRC Wiedeman #11-5-3NCHZ - OH - OH	2,805.25	2,760.03	50.51	23.20	1.850	CC, ES
SRC Wiedeman #11-5-3NCHZ - OH - OH	6,995.87	6,948.22	94.76	30.85	1.483	Level 3, SF
SRC Wiedeman #12-5-4CHZ - OH - OH	2,260.58	2,212.91	199.13	176.37	8.752	CC
SRC Wiedeman #12-5-4CHZ - OH - OH	2,300.00	2,250.87	199.43	176.24	8.600	ES
SRC Wiedeman #12-5-4CHZ - OH - OH	7,168.28	7,006.06	473.04	408.13	7.287	SF
SRC Wiedeman #12-5-4NCHZ - OH - OH	2,036.11	1,984.21	246.40	226.08	12.130	CC, ES
SRC Wiedeman #12-5-4NCHZ - OH - OH	7,150.00	7,012.93	690.81	625.87	10.637	SF
SRC Wiedeman #21-5-3CHZ - OH - OH	2,361.12	2,302.91	270.71	247.62	11.723	CC, ES
SRC Wiedeman #21-5-3CHZ - OH - OH	2,800.00	2,719.79	297.99	270.34	10.776	SF
SRC Wiedeman #21-5-3NBHZ - OH - OH	2,645.01	2,592.81	121.91	96.51	4.799	CC, ES
SRC Wiedeman #21-5-3NBHZ - OH - OH	2,800.00	2,742.36	128.67	101.30	4.701	SF
SRC Wiedeman #22-5-4CHZ - OH - OH	1,658.12	1,612.20	371.62	354.41	21.592	CC
SRC Wiedeman #22-5-4CHZ - OH - OH	1,700.00	1,652.29	371.81	354.19	21.098	ES
SRC Wiedeman #22-5-4CHZ - OH - OH	7,700.00	6,876.54	1,228.00	1,157.22	17.348	SF
SRC Wiedeman #A-5-3NBHZ - OH - OH	2,807.95	2,764.48	83.23	55.27	2.977	CC, ES
SRC Wiedeman #A-5-3NBHZ - OH - OH	6,982.43	6,923.72	122.29	58.37	1.913	SF
SRC Wiedeman 22-5-4NBHZ - OH - OH	8,648.72	2,218.47	137.64	66.57	1.937	CC, ES, SF
WIEDEMAN #18-5 - OH - OH	8,689.04	7,019.13	182.17	89.06	1.956	CC, ES
WIEDEMAN #18-5 - OH - OH	8,700.00	7,019.16	182.50	89.18	1.956	SF
WIEDEMAN #22-5 - OH - OH	1,638.53	1,791.76	896.97	879.48	51.275	CC
WIEDEMAN #22-5 - OH - OH	1,700.00	1,844.54	897.36	879.24	49.523	ES
WIEDEMAN #22-5 - OH - OH	7,900.00	7,428.32	1,630.17	1,550.42	20.443	SF
WIEDEMAN #25-5 - OH - OH	100.00	60.66	977.05	970.48	148.648	CC, ES
WIEDEMAN #25-5 - OH - OH	9,400.00	7,267.05	1,596.59	1,480.39	13.739	SF
WIEDEMAN #29-5 - OH - OH	100.00	59.88	1,014.13	1,007.56	154.295	CC, ES
WIEDEMAN #29-5 - OH - OH	8,800.00	7,109.86	1,199.81	1,103.42	12.447	SF
WIEDEMAN #3-5 - OH - OH	7,935.25	7,072.19	583.65	505.35	7.454	CC, ES
WIEDEMAN #3-5 - OH - OH	8,000.00	7,072.70	587.23	508.16	7.427	SF
WIEDEMAN #4-5 - OH - OH	9,243.22	7,073.17	607.24	494.71	5.396	CC, ES
WIEDEMAN #4-5 - OH - OH	9,300.00	7,072.13	609.89	495.56	5.335	SF
WIEDEMAN #5-5 - OH - OH	9,447.53	7,176.93	805.12	683.90	6.642	CC
WIEDEMAN #5-5 - OH - OH	9,500.00	7,177.60	806.83	683.65	6.550	ES
WIEDEMAN #5-5 - OH - OH	9,600.00	7,178.89	819.43	693.47	6.506	SF
WIEDEMAN #6-5 - OH - OH	8,096.60	7,314.48	901.16	820.89	11.226	CC
WIEDEMAN #6-5 - OH - OH	8,100.00	7,314.63	901.17	820.85	11.219	ES
WIEDEMAN #6-5 - OH - OH	8,200.00	7,319.17	907.07	825.30	11.093	SF

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1												Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	5.33	14.93	1.39	14.99				
100.00	100.00	100.00	100.00	3.28	3.28	5.33	14.93	1.39	14.99	8.42	6.57	2.282	
200.00	200.00	200.00	200.00	3.34	3.34	5.33	14.93	1.39	14.99	8.32	6.67	2.246	
300.00	299.98	299.98	299.98	3.44	3.44	-74.26	14.93	1.39	14.42	7.54	6.89	2.094	
377.20	377.09	377.02	377.02	3.56	3.56	-85.05	15.34	2.34	14.05	6.93	7.12	1.973	CC
400.00	399.84	399.79	399.77	3.60	3.60	-88.32	15.62	2.99	14.09	6.88	7.20	1.956	
500.00	499.45	499.71	499.55	3.81	3.80	-101.98	17.69	7.78	15.00	7.39	7.61	1.971	
600.00	598.70	599.76	599.21	4.08	4.05	-113.04	21.14	15.78	17.02	8.91	8.11	2.098	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
700.00	697.47	699.91	698.61	4.40	4.32	-120.96	25.97	26.98	19.88	11.18	8.70	2.285		
774.77	770.92	774.74	772.60	4.68	4.55	-125.58	30.40	37.23	22.52	13.34	9.19	2.452		
800.00	795.65	800.06	797.50	4.78	4.63	-127.35	31.93	40.77	23.59	14.24	9.36	2.522		
900.00	893.64	900.19	896.20	5.20	4.96	-133.01	37.98	54.80	28.02	17.96	10.06	2.786		
1,000.00	991.63	1,000.32	994.89	5.66	5.32	-137.10	44.04	68.83	32.64	21.85	10.79	3.026		
1,100.00	1,089.63	1,100.45	1,093.59	6.15	5.69	-140.17	50.10	82.85	37.39	25.84	11.55	3.238		
1,200.00	1,187.62	1,200.58	1,192.28	6.65	6.08	-142.53	56.15	96.88	42.22	29.89	12.33	3.424		
1,300.00	1,285.62	1,300.71	1,290.97	7.17	6.47	-144.41	62.21	110.91	47.11	33.97	13.14	3.586		
1,400.00	1,383.61	1,400.84	1,389.67	7.71	6.88	-145.94	68.26	124.94	52.04	38.08	13.96	3.729		
1,500.00	1,481.60	1,499.03	1,488.36	8.25	7.29	-147.20	74.32	138.96	57.00	42.21	14.78	3.856		
1,600.00	1,579.60	1,601.10	1,587.06	8.80	7.72	-148.26	80.37	152.99	61.98	46.34	15.64	3.964		
1,700.00	1,677.59	1,701.23	1,685.75	9.36	8.15	-149.16	86.43	167.02	66.98	50.49	16.49	4.061		
1,800.00	1,775.59	1,801.36	1,784.45	9.92	8.58	-149.93	92.49	181.05	72.00	54.64	17.36	4.147		
1,900.00	1,873.58	1,898.51	1,883.14	10.49	9.00	-150.61	98.54	195.07	77.02	58.80	18.22	4.227		
2,000.00	1,971.57	2,001.63	1,981.83	11.06	9.45	-151.20	104.60	209.10	82.06	62.94	19.11	4.293		
2,100.00	2,069.57	2,101.76	2,080.53	11.64	9.90	-151.72	110.65	223.13	87.10	67.10	20.00	4.355		
2,200.00	2,167.56	2,201.89	2,179.22	12.22	10.34	-152.19	116.71	237.15	92.15	71.26	20.89	4.411		
2,300.00	2,265.56	2,302.02	2,277.92	12.80	10.79	-152.60	122.76	251.18	97.20	75.42	21.78	4.462		
2,400.00	2,363.55	2,402.15	2,376.61	13.38	11.24	-152.98	128.82	265.21	102.26	79.58	22.68	4.508		
2,500.00	2,461.54	2,497.72	2,475.30	13.97	11.67	-153.32	134.87	279.24	107.33	83.76	23.57	4.554		
2,600.00	2,559.54	2,602.41	2,574.00	14.55	12.14	-153.63	140.93	293.26	112.39	87.90	24.49	4.589		
2,700.00	2,657.53	2,702.54	2,672.69	15.14	12.60	-153.91	146.99	307.29	117.46	92.07	25.40	4.625		
2,800.00	2,755.53	2,802.67	2,771.39	15.73	13.05	-154.17	153.04	321.32	122.54	96.23	26.31	4.657		
2,900.00	2,853.52	2,902.80	2,870.08	16.32	13.51	-154.41	159.10	335.35	127.61	100.39	27.22	4.688		
3,000.00	2,951.52	3,002.93	2,968.78	16.91	13.97	-154.63	165.15	349.37	132.69	104.55	28.14	4.716		
3,100.00	3,049.51	3,103.06	3,067.47	17.51	14.43	-154.84	171.21	363.40	137.77	108.71	29.06	4.742		
3,200.00	3,147.50	3,203.19	3,166.16	18.10	14.89	-155.03	177.26	377.43	142.85	112.87	29.97	4.766		
3,300.00	3,245.50	3,303.32	3,264.86	18.70	15.35	-155.20	183.32	391.46	147.93	117.04	30.89	4.788		
3,400.00	3,343.49	3,403.45	3,363.55	19.29	15.81	-155.37	189.38	405.48	153.01	121.20	31.82	4.809		
3,500.00	3,441.49	3,503.58	3,462.25	19.89	16.27	-155.52	195.43	419.51	158.10	125.36	32.74	4.829		
3,600.00	3,539.48	3,603.71	3,560.94	20.48	16.73	-155.67	201.49	433.54	163.18	129.52	33.66	4.848		
3,700.00	3,637.47	3,696.16	3,659.63	21.08	17.16	-155.80	207.54	447.57	168.27	133.72	34.55	4.870		
3,800.00	3,735.47	3,803.97	3,758.33	21.68	17.66	-155.93	213.60	461.59	173.36	137.84	35.51	4.881		
3,900.00	3,833.46	3,904.10	3,857.02	22.27	18.12	-156.05	219.65	475.62	178.45	142.01	36.44	4.897		
4,000.00	3,931.46	4,004.23	3,955.72	22.87	18.59	-156.17	225.71	489.65	183.53	146.17	37.37	4.912		
4,100.00	4,029.45	4,104.36	4,054.41	23.47	19.05	-156.28	231.77	503.67	188.62	150.33	38.30	4.925		
4,200.00	4,127.44	4,204.49	4,153.11	24.07	19.52	-156.38	237.82	517.70	193.71	154.49	39.23	4.938		
4,300.00	4,225.44	4,304.62	4,251.80	24.67	19.98	-156.48	243.88	531.73	198.80	158.65	40.16	4.951		
4,400.00	4,323.43	4,404.75	4,350.49	25.27	20.45	-156.57	249.93	545.76	203.90	162.81	41.09	4.963		
4,507.81	4,429.08	4,502.92	4,456.89	25.92	20.91	-156.66	256.46	560.88	209.39	167.34	42.05	4.980		
4,600.00	4,519.70	4,604.96	4,547.94	26.45	21.38	-156.61	262.05	573.82	212.72	169.77	42.95	4.952		
4,700.00	4,618.56	4,704.98	4,646.74	26.98	21.85	-156.17	268.11	587.86	213.26	169.36	43.90	4.858		
4,800.00	4,717.88	4,805.06	4,745.48	27.46	22.31	-155.31	274.17	601.90	210.65	165.79	44.86	4.696		
4,900.00	4,817.54	4,905.34	4,844.03	27.89	22.78	-153.99	280.21	615.90	204.93	159.09	45.84	4.471		
5,000.00	4,917.43	5,005.92	4,942.27	28.28	23.25	-152.10	286.24	629.87	196.24	149.39	46.85	4.189		
5,082.58	5,000.00	5,075.85	5,023.09	28.57	23.58	-76.85	291.20	641.35	186.94	139.29	47.65	3.923		
5,100.00	5,017.42	5,106.93	5,040.10	28.62	23.72	-76.36	292.24	643.77	184.80	136.90	47.90	3.858		
5,200.00	5,117.42	5,208.11	5,137.76	28.95	24.20	-73.32	298.24	657.65	172.77	123.77	48.99	3.526		
5,300.00	5,217.42	5,309.28	5,235.42	29.28	24.67	-69.84	304.23	671.53	161.29	111.15	50.14	3.217		
5,400.00	5,317.42	5,389.54	5,333.08	29.62	25.04	-65.86	310.22	685.41	150.50	99.24	51.26	2.936		
5,500.00	5,417.42	5,488.36	5,430.74	29.96	25.51	-61.29	316.21	699.29	140.54	88.03	52.52	2.676		
5,600.00	5,517.42	5,587.18	5,528.40	30.29	25.97	-56.07	322.21	713.17	131.62	77.78	53.84	2.445		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,700.00	5,617.42	5,686.01	5,626.06	30.64	26.43	-50.17	328.20	727.05	123.94	68.74	55.20	2.245		
5,800.00	5,717.42	5,784.83	5,723.72	30.98	26.89	-43.58	334.19	740.93	117.77	61.19	56.58	2.081		
5,900.00	5,817.42	5,883.65	5,821.38	31.33	27.36	-36.38	340.18	754.81	113.33	55.41	57.92	1.957		
6,000.00	5,917.42	5,982.48	5,919.04	31.68	27.82	-28.75	346.17	768.69	110.85	51.69	59.15	1.874		
6,068.97	5,986.39	6,050.63	5,986.39	31.92	28.14	-23.35	350.31	778.27	110.34	50.43	59.92	1.842		
6,100.00	6,017.42	6,081.30	6,016.70	32.03	28.28	-20.92	352.17	782.57	110.45	50.21	60.23	1.834		
6,200.00	6,117.42	6,180.12	6,114.35	32.38	28.74	-13.17	358.16	796.45	112.15	51.02	61.13	1.835		
6,300.00	6,217.42	6,278.94	6,212.01	32.74	29.21	-5.79	364.15	810.33	115.87	54.02	61.85	1.873		
6,400.00	6,317.42	6,377.77	6,309.67	33.09	29.67	1.05	370.14	824.21	121.41	58.97	62.44	1.945		
6,476.01	6,393.43	6,452.88	6,383.90	33.37	30.02	5.80	374.70	834.76	126.70	63.88	62.83	2.017		
6,500.00	6,417.42	6,476.52	6,407.26	33.45	30.13	99.57	376.13	838.08	128.62	65.70	62.93	2.044		
6,550.00	6,467.25	6,527.66	6,458.03	33.59	30.36	102.89	379.18	843.28	133.16	70.08	63.08	2.111		
6,600.00	6,516.64	6,579.60	6,509.87	33.71	30.58	105.94	382.14	844.36	138.15	74.98	63.17	2.187		
6,650.00	6,565.26	6,632.35	6,562.42	33.80	30.78	108.70	385.00	841.13	143.50	80.32	63.19	2.271		
6,700.00	6,612.83	6,685.92	6,615.34	33.88	30.99	111.16	387.73	833.41	149.10	86.00	63.10	2.363		
6,750.00	6,659.04	6,740.32	6,668.24	33.94	31.20	113.35	390.29	821.03	154.84	91.94	62.90	2.462		
6,800.00	6,703.62	6,795.55	6,720.67	33.99	31.41	115.26	392.67	803.90	160.60	98.05	62.56	2.567		
6,850.00	6,746.28	6,851.61	6,772.18	34.03	31.64	116.92	394.83	781.92	166.30	104.21	62.08	2.679		
6,900.00	6,786.76	6,908.48	6,822.27	34.08	31.88	118.34	396.74	755.09	171.81	110.34	61.48	2.795		
6,950.00	6,824.83	6,966.12	6,870.40	34.13	32.14	119.53	398.38	723.44	177.06	116.29	60.77	2.914		
7,000.00	6,860.23	7,024.50	6,916.03	34.20	32.42	120.51	399.71	687.09	181.97	121.96	60.01	3.032		
7,050.00	6,892.75	7,083.56	6,958.62	34.30	32.73	121.29	400.72	646.22	186.44	127.19	59.25	3.146		
7,100.00	6,922.20	7,143.22	6,997.63	34.43	33.07	121.88	401.38	601.12	190.42	131.85	58.57	3.251		
7,150.00	6,948.38	7,203.40	7,032.54	34.60	33.46	122.29	401.68	552.12	193.85	135.80	58.05	3.340		
7,200.00	6,971.15	7,264.00	7,062.87	34.82	33.92	122.54	401.60	499.69	196.68	138.91	57.77	3.405		
7,250.00	6,990.35	7,324.92	7,088.21	35.09	34.43	122.61	401.14	444.32	198.86	141.06	57.80	3.441		
7,300.00	7,005.87	7,386.03	7,108.21	35.43	34.99	122.53	400.30	386.60	200.38	142.18	58.20	3.443		
7,350.00	7,017.62	7,447.23	7,122.61	35.81	35.61	122.29	399.08	327.16	201.22	142.22	59.00	3.410		
7,400.00	7,025.52	7,508.37	7,131.24	36.26	36.29	121.89	397.50	266.67	201.39	141.17	60.21	3.345		
7,450.00	7,029.52	7,569.35	7,134.04	36.75	37.00	121.34	395.58	205.81	200.88	139.08	61.79	3.251		
7,476.55	7,030.05	7,596.89	7,133.77	37.04	37.33	121.13	394.62	178.29	200.60	138.09	62.52	3.209		
7,483.86	7,030.00	7,604.20	7,133.69	37.12	37.43	121.12	394.37	170.98	200.62	137.94	62.68	3.201		
7,500.00	7,029.80	7,620.34	7,133.52	37.30	37.64	121.11	393.80	154.85	200.72	137.68	63.04	3.184		
7,600.00	7,028.57	7,720.34	7,132.44	38.58	39.01	121.06	390.33	54.92	201.31	135.89	65.42	3.077		
7,700.00	7,027.34	7,820.34	7,131.37	40.10	40.54	121.01	386.85	-45.01	201.91	133.75	68.15	2.963		
7,800.00	7,026.10	7,920.33	7,130.30	41.83	42.20	120.97	383.37	-144.94	202.50	131.31	71.19	2.844		
7,900.00	7,024.87	8,020.33	7,129.23	43.74	43.98	120.92	379.90	-244.87	203.10	128.60	74.50	2.726		
8,000.00	7,023.63	8,120.33	7,128.16	45.82	45.87	120.87	376.42	-344.81	203.69	125.65	78.04	2.610		
8,100.00	7,022.40	8,220.33	7,127.09	48.04	47.85	120.83	372.94	-444.74	204.29	122.49	81.79	2.498		
8,200.00	7,021.17	8,320.33	7,126.02	50.38	49.92	120.78	369.47	-544.67	204.88	119.15	85.73	2.390		
8,300.00	7,019.93	8,420.33	7,124.95	52.82	52.06	120.74	365.99	-644.60	205.47	115.66	89.81	2.288		
8,400.00	7,018.70	8,520.32	7,123.88	55.35	54.26	120.69	362.51	-744.53	206.07	112.03	94.04	2.191		
8,500.00	7,017.47	8,620.32	7,122.81	57.97	56.53	120.65	359.03	-844.47	206.66	108.28	98.38	2.101		
8,600.00	7,016.23	8,720.32	7,121.74	60.65	58.84	120.60	355.56	-944.40	207.26	104.43	102.83	2.016		
8,700.00	7,015.00	8,820.32	7,120.67	63.39	61.20	120.56	352.08	-1,044.33	207.86	100.48	107.37	1.936		
8,800.00	7,013.76	8,920.32	7,119.60	66.19	63.59	120.51	348.60	-1,144.26	208.45	96.45	112.00	1.861		
8,900.00	7,012.53	9,020.31	7,118.53	69.03	66.03	120.47	345.13	-1,244.19	209.05	92.35	116.69	1.791		
9,000.00	7,011.30	9,120.31	7,117.46	71.91	68.49	120.42	341.65	-1,344.13	209.64	88.19	121.46	1.726		
9,100.00	7,010.06	9,220.31	7,116.39	74.83	70.98	120.38	338.17	-1,444.06	210.24	83.96	126.28	1.665		
9,200.00	7,008.83	9,320.31	7,115.32	77.78	73.50	120.34	334.70	-1,543.99	210.83	79.69	131.15	1.608		
9,300.00	7,007.60	9,420.31	7,114.25	80.76	76.04	120.29	331.22	-1,643.92	211.43	75.37	136.06	1.554		
9,400.00	7,006.36	9,520.30	7,113.18	83.76	78.60	120.25	327.74	-1,743.85	212.03	71.00	141.02	1.503		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,500.00	7,005.13	9,620.30	7,112.11	86.79	81.18	120.21	324.26	-1,843.78	212.62	66.60	146.02	1.456 Level 3		
9,600.00	7,003.90	9,720.30	7,111.04	89.84	83.78	120.16	320.79	-1,943.72	213.22	62.16	151.06	1.412 Level 3		
9,700.00	7,002.66	9,820.30	7,109.97	92.90	86.39	120.12	317.31	-2,043.65	213.81	57.69	156.12	1.370 Level 3		
9,800.00	7,001.43	9,920.30	7,108.90	95.99	89.02	120.08	313.83	-2,143.58	214.41	53.20	161.21	1.330 Level 3		
9,900.00	7,000.19	10,020.29	7,107.83	99.08	91.66	120.04	310.36	-2,243.51	215.01	48.67	166.34	1.293 Level 3		
10,000.00	6,998.96	10,120.29	7,106.76	102.19	94.31	120.00	306.88	-2,343.44	215.61	44.12	171.48	1.257 Level 3		
10,100.00	6,997.73	10,220.29	7,105.69	105.32	96.97	119.96	303.40	-2,443.38	216.20	39.55	176.65	1.224 Level 2		
10,200.00	6,996.49	10,320.29	7,104.62	108.45	99.64	119.91	299.93	-2,543.31	216.80	34.96	181.84	1.192 Level 2		
10,300.00	6,995.26	10,420.29	7,103.55	111.60	102.32	119.87	296.45	-2,643.24	217.40	30.35	187.05	1.162 Level 2		
10,400.00	6,994.03	10,520.29	7,102.48	114.75	105.01	119.83	292.97	-2,743.17	217.99	25.72	192.28	1.134 Level 2		
10,500.00	6,992.79	10,620.28	7,101.41	117.92	107.71	119.79	289.50	-2,843.10	218.59	21.07	197.52	1.107 Level 2		
10,600.00	6,991.56	10,720.28	7,100.34	121.09	110.42	119.75	286.02	-2,943.04	219.19	16.40	202.78	1.081 Level 2		
10,700.00	6,990.33	10,820.28	7,099.27	124.27	113.13	119.71	282.54	-3,042.97	219.79	11.73	208.06	1.056 Level 2		
10,800.00	6,989.09	10,920.28	7,098.19	127.46	115.84	119.67	279.06	-3,142.90	220.38	7.03	213.35	1.033 Level 2		
10,900.00	6,987.86	11,020.28	7,097.12	130.65	118.57	119.63	275.59	-3,242.83	220.98	2.33	218.65	1.011 Level 2		
11,000.00	6,986.62	11,120.27	7,096.05	133.85	121.30	119.59	272.11	-3,342.76	221.58	-2.39	223.97	0.989 Level 1		
11,100.00	6,985.39	11,220.27	7,094.98	137.06	124.03	119.55	268.63	-3,442.70	222.18	-7.12	229.30	0.969 Level 1		
11,200.00	6,984.16	11,320.27	7,093.91	140.27	126.77	119.51	265.16	-3,542.63	222.78	-11.86	234.64	0.949 Level 1		
11,300.00	6,982.92	11,420.27	7,092.84	143.48	129.51	119.48	261.68	-3,642.56	223.37	-16.62	239.99	0.931 Level 1		
11,400.00	6,981.69	11,520.27	7,091.77	146.70	132.26	119.44	258.20	-3,742.49	223.97	-21.38	245.35	0.913 Level 1		
11,500.00	6,980.46	11,620.26	7,090.70	149.92	135.01	119.40	254.73	-3,842.42	224.57	-26.15	250.72	0.896 Level 1		
11,600.00	6,979.22	11,720.26	7,089.63	153.15	137.77	119.36	251.25	-3,942.35	225.17	-30.93	256.10	0.879 Level 1		
11,700.00	6,977.99	11,820.26	7,088.56	156.38	140.53	119.32	247.77	-4,042.29	225.77	-35.72	261.49	0.863 Level 1		
11,800.00	6,976.75	11,920.26	7,087.49	159.62	143.29	119.29	244.29	-4,142.22	226.37	-40.52	266.89	0.848 Level 1		
11,900.00	6,975.52	12,020.26	7,086.42	162.86	146.06	119.25	240.82	-4,242.15	226.97	-45.33	272.29	0.834 Level 1		
12,000.00	6,974.29	12,120.25	7,085.35	166.10	148.82	119.21	237.34	-4,342.08	227.56	-50.14	277.71	0.819 Level 1		
12,100.00	6,973.05	12,220.25	7,084.28	169.34	151.59	119.17	233.86	-4,442.01	228.16	-54.97	283.13	0.806 Level 1		
12,200.00	6,971.82	12,320.25	7,083.21	172.59	154.37	119.14	230.39	-4,541.95	228.76	-59.80	288.56	0.793 Level 1		
12,300.00	6,970.59	12,420.25	7,082.14	175.84	157.14	119.10	226.91	-4,641.88	229.36	-64.63	293.99	0.780 Level 1		
12,400.00	6,969.35	12,520.25	7,081.07	179.09	159.92	119.06	223.43	-4,741.81	229.96	-69.47	299.44	0.768 Level 1		
12,500.00	6,968.12	12,620.25	7,080.00	182.35	162.70	119.03	219.96	-4,841.74	230.56	-74.32	304.88	0.756 Level 1		
12,600.00	6,966.89	12,720.24	7,078.93	185.60	165.49	118.99	216.48	-4,941.67	231.16	-79.18	310.34	0.745 Level 1		
12,700.00	6,965.65	12,820.24	7,077.86	188.86	168.27	118.96	213.00	-5,041.61	231.76	-84.04	315.80	0.734 Level 1		
12,800.00	6,964.42	12,920.24	7,076.79	192.12	171.06	118.92	209.52	-5,141.54	232.36	-88.91	321.27	0.723 Level 1		
12,900.00	6,963.18	13,020.24	7,075.72	195.38	173.85	118.88	206.05	-5,241.47	232.96	-93.78	326.74	0.713 Level 1		
13,000.00	6,961.95	13,120.24	7,074.65	198.65	176.64	118.85	202.57	-5,341.40	233.56	-98.66	332.22	0.703 Level 1		
13,100.00	6,960.72	13,220.23	7,073.58	201.91	179.43	118.81	199.09	-5,441.33	234.16	-103.54	337.70	0.693 Level 1		
13,200.00	6,959.48	13,320.23	7,072.51	205.18	182.22	118.78	195.62	-5,541.26	234.76	-108.43	343.19	0.684 Level 1		
13,300.00	6,958.25	13,420.23	7,071.44	208.45	185.01	118.74	192.14	-5,641.20	235.36	-113.33	348.69	0.675 Level 1		
13,400.00	6,957.02	13,520.23	7,070.37	211.72	187.81	118.71	188.66	-5,741.13	235.96	-118.23	354.19	0.666 Level 1		
13,500.00	6,955.78	13,620.23	7,069.30	214.99	190.61	118.67	185.19	-5,841.06	236.56	-123.13	359.69	0.658 Level 1		
13,600.00	6,954.55	13,720.22	7,068.23	218.27	193.41	118.64	181.71	-5,940.99	237.16	-128.04	365.20	0.649 Level 1		
13,700.00	6,953.32	13,820.22	7,067.16	221.54	196.21	118.61	178.23	-6,040.92	237.76	-132.95	370.71	0.641 Level 1		
13,800.00	6,952.08	13,920.22	7,066.09	224.82	199.01	118.57	174.75	-6,140.86	238.36	-137.87	376.23	0.634 Level 1		
13,900.00	6,950.85	14,020.22	7,065.02	228.10	201.81	118.54	171.28	-6,240.79	238.96	-142.79	381.75	0.626 Level 1		
14,000.00	6,949.61	14,120.22	7,063.94	231.37	204.62	118.50	167.80	-6,340.72	239.56	-147.72	387.28	0.619 Level 1		
14,100.00	6,948.38	14,220.21	7,062.87	234.65	207.42	118.47	164.32	-6,440.65	240.16	-152.65	392.81	0.611 Level 1		
14,200.00	6,947.15	14,320.21	7,061.80	237.93	210.23	118.44	160.85	-6,540.58	240.76	-157.58	398.35	0.604 Level 1		
14,300.00	6,945.91	14,420.21	7,060.73	241.22	213.03	118.40	157.37	-6,640.52	241.37	-162.52	403.88	0.598 Level 1		
14,400.00	6,944.68	14,520.21	7,059.66	244.50	215.84	118.37	153.89	-6,740.45	241.97	-167.46	409.43	0.591 Level 1		
14,500.00	6,943.45	14,620.21	7,058.59	247.78	218.65	118.34	150.42	-6,840.38	242.57	-172.41	414.97	0.585 Level 1		
14,600.00	6,942.21	14,720.21	7,057.52	251.07	221.46	118.31	146.94	-6,940.31	243.17	-177.35	420.52	0.578 Level 1		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - Boomerang 12C-6-M - OH - Plan #1												Offset Well Error:	3.28 ft
Survey Program: 0-MWD+IFR1													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,700.00	6,940.98	14,820.20	7,056.45	254.35	224.27	118.27	143.46	-7,040.24	243.77	-182.31	426.08	0.572	Level 1
14,800.00	6,939.74	14,920.20	7,055.38	257.64	227.08	118.24	139.98	-7,140.18	244.37	-187.26	431.63	0.566	Level 1
14,900.00	6,938.51	15,020.20	7,054.31	260.92	229.89	118.21	136.51	-7,240.11	244.97	-192.22	437.20	0.560	Level 1
15,000.00	6,937.28	15,120.20	7,053.24	264.21	232.70	118.18	133.03	-7,340.04	245.57	-197.19	442.76	0.555	Level 1
15,100.00	6,936.04	15,220.20	7,052.17	267.50	235.52	118.14	129.55	-7,439.97	246.18	-202.15	448.33	0.549	Level 1
15,200.00	6,934.81	15,320.19	7,051.10	270.79	238.33	118.11	126.08	-7,539.90	246.78	-207.12	453.90	0.544	Level 1
15,300.00	6,933.58	15,420.19	7,050.03	274.08	241.15	118.08	122.60	-7,639.83	247.38	-212.09	459.47	0.538	Level 1
15,400.00	6,932.34	15,520.19	7,048.96	277.37	243.96	118.05	119.12	-7,739.77	247.98	-217.07	465.05	0.533	Level 1
15,500.00	6,931.11	15,620.19	7,047.89	280.66	246.78	118.02	115.65	-7,839.70	248.58	-222.05	470.63	0.528	Level 1
15,589.88	6,930.00	15,710.07	7,046.93	283.62	249.31	117.99	112.52	-7,929.52	249.12	-226.53	475.65	0.524	Level 1, ES, SF

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.32	29.87	2.78	30.00					
100.00	100.00	100.00	100.00	3.28	3.28	5.32	29.87	2.78	30.00	23.43	6.57	4.567		
200.00	200.00	200.00	200.00	3.34	3.34	5.32	29.87	2.78	30.00	23.33	6.67	4.495 CC		
300.00	299.98	299.28	299.26	3.44	3.44	-68.48	30.93	4.14	30.54	23.65	6.89	4.431		
400.00	399.84	398.54	398.38	3.60	3.60	-70.32	34.12	8.19	32.16	24.95	7.22	4.457		
500.00	499.45	497.75	497.21	3.81	3.81	-72.98	39.41	14.95	34.94	27.30	7.64	4.573		
600.00	598.70	596.89	595.62	4.08	4.05	-76.06	46.81	24.38	38.92	30.76	8.16	4.773		
700.00	697.47	695.94	693.46	4.40	4.33	-79.17	56.30	36.48	44.17	35.41	8.76	5.042		
774.77	770.92	769.92	766.17	4.68	4.57	-81.36	64.74	47.24	48.94	39.67	9.27	5.279		
800.00	795.65	794.87	790.61	4.78	4.65	-81.97	67.85	51.21	50.72	41.27	9.45	5.366		
900.00	893.64	893.64	886.88	5.20	4.99	-82.16	81.44	68.54	58.86	48.63	10.23	5.756		
1,000.00	991.63	992.41	982.39	5.66	5.37	-79.92	96.98	88.34	68.61	57.55	11.06	6.203		
1,100.00	1,089.63	1,108.16	1,078.33	6.15	5.85	-77.73	113.09	108.89	78.88	66.88	12.01	6.571		
1,200.00	1,187.62	1,208.73	1,174.27	6.65	6.28	-76.04	129.21	129.44	89.24	76.32	12.92	6.906		
1,300.00	1,285.62	1,290.70	1,270.21	7.17	6.65	-74.71	145.33	149.99	99.66	85.88	13.78	7.231		
1,400.00	1,383.61	1,409.87	1,366.15	7.71	7.20	-73.62	161.45	170.54	110.12	95.29	14.83	7.426		
1,500.00	1,481.60	1,489.57	1,462.09	8.25	7.57	-72.73	177.57	191.10	120.62	104.90	15.72	7.675		
1,600.00	1,579.60	1,589.00	1,558.03	8.80	8.05	-71.98	193.69	211.65	131.14	114.43	16.71	7.850		
1,700.00	1,677.59	1,688.43	1,653.97	9.36	8.53	-71.34	209.81	232.20	141.68	123.97	17.71	8.000		
1,800.00	1,775.59	1,787.86	1,749.91	9.92	9.02	-70.79	225.92	252.75	152.23	133.51	18.72	8.131		
1,900.00	1,873.58	1,887.29	1,845.85	10.49	9.52	-70.31	242.04	273.30	162.79	143.05	19.74	8.245		
2,000.00	1,971.57	1,986.72	1,941.79	11.06	10.01	-69.89	258.16	293.85	173.37	152.59	20.77	8.345		
2,100.00	2,069.57	2,086.16	2,037.73	11.64	10.52	-69.52	274.28	314.40	183.95	162.14	21.81	8.434		
2,200.00	2,167.56	2,185.59	2,133.67	12.22	11.02	-69.18	290.40	334.95	194.54	171.69	22.85	8.513		
2,300.00	2,265.56	2,285.02	2,229.61	12.80	11.53	-68.89	306.52	355.51	205.14	181.24	23.90	8.583		
2,400.00	2,363.55	2,384.45	2,325.55	13.38	12.04	-68.62	322.64	376.06	215.74	190.79	24.95	8.646		
2,500.00	2,461.54	2,483.88	2,421.49	13.97	12.55	-68.37	338.75	396.61	226.34	200.34	26.01	8.703		
2,600.00	2,559.54	2,583.31	2,517.43	14.55	13.07	-68.15	354.87	417.16	236.95	209.89	27.07	8.754		
2,700.00	2,657.53	2,682.75	2,613.37	15.14	13.58	-67.95	370.99	437.71	247.56	219.44	28.13	8.801		
2,800.00	2,755.53	2,782.18	2,709.31	15.73	14.10	-67.76	387.11	458.26	258.18	228.99	29.19	8.844		
2,900.00	2,853.52	2,881.61	2,805.25	16.32	14.62	-67.59	403.23	478.81	268.80	238.54	30.26	8.883		
3,000.00	2,951.52	2,981.04	2,901.19	16.91	15.14	-67.44	419.35	499.36	279.42	248.09	31.33	8.919		
3,100.00	3,049.51	3,080.47	2,997.13	17.51	15.66	-67.29	435.47	519.91	290.04	257.64	32.40	8.952		
3,200.00	3,147.50	3,179.90	3,093.07	18.10	16.18	-67.15	451.58	540.47	300.66	267.19	33.47	8.982		
3,300.00	3,245.50	3,279.34	3,189.01	18.70	16.71	-67.03	467.70	561.02	311.29	276.74	34.55	9.011		
3,400.00	3,343.49	3,378.77	3,284.95	19.29	17.23	-66.91	483.82	581.57	321.91	286.29	35.62	9.037		
3,500.00	3,441.49	3,478.20	3,380.89	19.89	17.75	-66.80	499.94	602.12	332.54	295.84	36.70	9.061		
3,600.00	3,539.48	3,577.63	3,476.83	20.48	18.28	-66.69	516.06	622.67	343.17	305.39	37.78	9.084		
3,700.00	3,637.47	3,677.06	3,572.77	21.08	18.80	-66.59	532.18	643.22	353.80	314.94	38.86	9.105		
3,800.00	3,735.47	3,776.49	3,668.71	21.68	19.33	-66.50	548.30	663.77	364.43	324.49	39.94	9.125		
3,900.00	3,833.46	3,875.93	3,764.65	22.27	19.86	-66.42	564.41	684.32	375.06	334.04	41.02	9.144		
4,000.00	3,931.46	3,975.36	3,860.59	22.87	20.39	-66.33	580.53	704.87	385.69	343.59	42.10	9.161		
4,100.00	4,029.45	4,074.79	3,956.53	23.47	20.91	-66.26	596.65	725.43	396.32	353.14	43.18	9.178		
4,200.00	4,127.44	4,174.22	4,052.47	24.07	21.44	-66.18	612.77	745.98	406.96	362.69	44.27	9.193		
4,300.00	4,225.44	4,273.65	4,148.41	24.67	21.97	-66.11	628.89	766.53	417.59	372.24	45.35	9.208		
4,400.00	4,323.43	4,373.08	4,244.35	25.27	22.50	-66.05	645.01	787.08	428.23	381.79	46.44	9.222		
4,507.81	4,429.08	4,491.14	4,358.71	25.92	23.11	-66.14	663.08	810.13	438.58	390.85	47.73	9.188		
4,600.00	4,519.70	4,594.20	4,459.44	26.45	23.62	-66.50	676.50	827.24	445.55	396.74	48.81	9.128		
4,700.00	4,618.56	4,706.25	4,569.77	26.98	24.15	-66.82	688.54	842.59	451.84	401.96	49.88	9.058		
4,800.00	4,717.88	4,818.53	4,681.00	27.46	24.64	-67.04	697.93	854.56	456.78	405.93	50.85	8.983		
4,900.00	4,817.54	4,930.98	4,792.92	27.89	25.11	-67.18	704.63	863.10	460.35	408.64	51.71	8.902		
5,000.00	4,917.43	5,043.55	4,905.31	28.28	25.55	-67.24	708.61	868.18	462.54	410.07	52.47	8.815		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,136.57	4,998.30	28.57	25.90	5.92	709.85	869.75	463.32	410.29	53.03	8.737		
5,100.00	5,017.42	5,156.20	5,017.93	28.62	25.97	5.92	709.87	869.78	463.34	410.20	53.14	8.720		
5,104.07	5,021.49	5,160.79	5,022.52	28.64	25.99	5.92	709.86	869.77	463.33	410.17	53.16	8.715		
5,200.00	5,117.42	5,255.69	5,117.42	28.95	26.33	5.92	709.87	869.78	463.34	409.49	53.85	8.604		
5,300.00	5,217.42	5,355.69	5,217.42	29.28	26.70	5.92	709.87	869.78	463.34	408.78	54.56	8.492		
5,400.00	5,317.42	5,455.69	5,317.42	29.62	27.06	5.92	709.87	869.78	463.34	408.06	55.28	8.381		
5,500.00	5,417.42	5,555.69	5,417.42	29.96	27.43	5.92	709.87	869.78	463.34	407.34	56.01	8.273		
5,600.00	5,517.42	5,655.69	5,517.42	30.29	27.81	5.92	709.87	869.78	463.34	406.61	56.73	8.167		
5,700.00	5,617.42	5,755.69	5,617.42	30.64	28.18	5.92	709.87	869.78	463.34	405.88	57.47	8.063		
5,800.00	5,717.42	5,855.69	5,717.42	30.98	28.56	5.92	709.87	869.78	463.34	405.14	58.20	7.961		
5,900.00	5,817.42	5,955.69	5,817.42	31.33	28.93	5.92	709.87	869.78	463.34	404.40	58.94	7.861		
6,000.00	5,917.42	6,055.69	5,917.42	31.68	29.31	5.92	709.87	869.78	463.34	403.66	59.68	7.763		
6,100.00	6,017.42	6,155.69	6,017.42	32.03	29.69	5.92	709.87	869.78	463.34	402.91	60.43	7.667		
6,200.00	6,117.42	6,255.69	6,117.42	32.38	30.08	5.92	709.87	869.78	463.34	402.16	61.18	7.573		
6,300.00	6,217.42	6,355.69	6,217.42	32.74	30.46	5.92	709.87	869.78	463.34	401.41	61.94	7.481		
6,400.00	6,317.42	6,455.69	6,317.42	33.09	30.85	5.92	709.87	869.77	463.34	400.65	62.69	7.391		
6,476.01	6,393.43	6,540.61	6,402.05	33.37	31.16	5.16	709.61	863.59	462.56	399.31	63.25	7.313		
6,500.00	6,417.42	6,566.85	6,427.95	33.45	31.26	97.08	709.43	859.41	462.12	398.68	63.44	7.284		
6,550.00	6,467.25	6,620.98	6,480.72	33.59	31.46	96.18	708.91	847.43	461.24	397.41	63.83	7.226		
6,600.00	6,516.64	6,674.38	6,531.60	33.71	31.67	95.25	708.22	831.27	460.44	396.23	64.22	7.170		
6,650.00	6,565.26	6,727.06	6,580.28	33.80	31.89	94.29	707.36	811.21	459.74	395.14	64.61	7.116		
6,700.00	6,612.83	6,779.01	6,626.50	33.88	32.11	93.31	706.34	787.55	459.15	394.15	65.00	7.064		
6,750.00	6,659.04	6,830.25	6,670.06	33.94	32.34	92.31	705.18	760.61	458.69	393.29	65.40	7.013		
6,800.00	6,703.62	6,880.82	6,710.78	33.99	32.59	91.30	703.90	730.68	458.36	392.55	65.81	6.964		
6,850.00	6,746.28	6,930.71	6,748.50	34.03	32.85	90.30	702.50	698.07	458.17	391.94	66.24	6.917		
6,892.84	6,781.11	6,972.96	6,778.36	34.07	33.09	89.44	701.21	668.22	458.12	391.51	66.61	6.877		
6,900.00	6,786.76	6,979.97	6,783.13	34.08	33.13	89.29	700.99	663.08	458.12	391.45	66.68	6.871		
6,950.00	6,824.83	7,028.62	6,814.56	34.13	33.44	88.30	699.40	626.00	458.21	391.07	67.14	6.825		
7,000.00	6,860.23	7,076.70	6,842.75	34.20	33.77	87.32	697.73	587.11	458.43	390.81	67.62	6.779		
7,050.00	6,892.75	7,124.22	6,867.66	34.30	34.12	86.36	695.99	546.68	458.77	390.63	68.14	6.733		
7,100.00	6,922.20	7,171.23	6,899.26	34.43	34.51	85.43	694.20	504.98	459.22	390.52	68.70	6.685		
7,150.00	6,948.38	7,217.76	6,907.54	34.60	34.93	84.53	692.37	462.24	459.77	390.47	69.30	6.634		
7,200.00	6,971.15	7,263.83	6,922.52	34.82	35.37	83.67	690.50	418.72	460.40	390.44	69.96	6.581		
7,250.00	6,990.35	7,309.49	6,934.22	35.09	35.85	82.85	688.60	374.64	461.09	390.41	70.68	6.524		
7,300.00	7,005.87	7,354.76	6,942.67	35.43	36.35	82.07	686.69	330.22	461.82	390.37	71.45	6.463		
7,350.00	7,017.62	7,399.67	6,947.92	35.81	36.86	81.34	684.78	285.66	462.59	390.29	72.29	6.399		
7,400.00	7,025.52	7,444.26	6,950.00	36.26	37.40	80.66	682.87	241.17	463.36	390.16	73.20	6.330		
7,450.00	7,029.52	7,492.35	6,949.64	36.75	38.01	80.09	680.80	193.13	463.98	389.74	74.24	6.249		
7,483.86	7,030.00	7,526.20	6,949.27	37.12	38.47	79.98	679.35	159.32	464.05	388.99	75.07	6.182		
7,500.00	7,029.80	7,542.33	6,949.10	37.30	38.70	79.98	678.66	143.20	464.01	388.53	75.48	6.147		
7,600.00	7,028.57	7,642.33	6,948.02	38.58	40.16	80.00	674.37	43.29	463.77	385.53	78.24	5.927		
7,700.00	7,027.34	7,742.33	6,946.94	40.10	41.77	80.01	670.08	-56.61	463.53	382.15	81.37	5.696		
7,800.00	7,026.10	7,842.33	6,945.86	41.83	43.51	80.03	665.78	-156.51	463.28	378.46	84.83	5.462		
7,900.00	7,024.87	7,942.33	6,944.79	43.74	45.36	80.04	661.49	-256.41	463.04	374.47	88.57	5.228		
8,000.00	7,023.63	8,042.33	6,943.71	45.82	47.31	80.06	657.20	-356.31	462.79	370.24	92.56	5.000		
8,100.00	7,022.40	8,142.33	6,942.63	48.04	49.35	80.07	652.91	-456.21	462.55	365.78	96.77	4.780		
8,200.00	7,021.17	8,242.33	6,941.55	50.38	51.46	80.08	648.62	-556.12	462.31	361.13	101.18	4.569		
8,300.00	7,019.93	8,342.33	6,940.47	52.82	53.65	80.10	644.33	-656.02	462.06	356.31	105.75	4.369		
8,400.00	7,018.70	8,442.33	6,939.39	55.35	55.89	80.11	640.03	-755.92	461.82	351.35	110.47	4.180		
8,500.00	7,017.47	8,542.33	6,938.31	57.97	58.19	80.13	635.74	-855.82	461.58	346.25	115.32	4.002		
8,600.00	7,016.23	8,642.33	6,937.24	60.65	60.53	80.14	631.45	-955.72	461.33	341.04	120.29	3.835		
8,700.00	7,015.00	8,742.33	6,936.16	63.39	62.91	80.16	627.16	-1,055.62	461.09	335.74	125.35	3.678		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	8,842.33	6,935.08	66.19	65.33	80.17	622.87	-1,155.53	460.85	330.34	130.50	3.531		
8,900.00	7,012.53	8,942.33	6,934.00	69.03	67.79	80.18	618.57	-1,255.43	460.60	324.87	135.73	3.393		
9,000.00	7,011.30	9,042.33	6,932.92	71.91	70.27	80.20	614.28	-1,355.33	460.36	319.33	141.03	3.264		
9,100.00	7,010.06	9,142.33	6,931.84	74.83	72.78	80.21	609.99	-1,455.23	460.11	313.72	146.39	3.143		
9,200.00	7,008.83	9,242.33	6,930.76	77.78	75.31	80.23	605.70	-1,555.13	459.87	308.07	151.80	3.029		
9,300.00	7,007.60	9,342.33	6,929.69	80.76	77.87	80.24	601.41	-1,655.03	459.63	302.36	157.27	2.923		
9,400.00	7,006.36	9,442.33	6,928.61	83.76	80.44	80.26	597.12	-1,754.94	459.38	296.61	162.78	2.822		
9,500.00	7,005.13	9,542.33	6,927.53	86.79	83.03	80.27	592.82	-1,854.84	459.14	290.81	168.33	2.728		
9,600.00	7,003.90	9,642.33	6,926.45	89.84	85.64	80.29	588.53	-1,954.74	458.90	284.98	173.91	2.639		
9,700.00	7,002.66	9,742.33	6,925.37	92.90	88.26	80.30	584.24	-2,054.64	458.65	279.12	179.53	2.555		
9,800.00	7,001.43	9,842.33	6,924.29	95.99	90.89	80.31	579.95	-2,154.54	458.41	273.23	185.18	2.475		
9,900.00	7,000.19	9,942.33	6,923.21	99.08	93.54	80.33	575.66	-2,254.44	458.17	267.31	190.86	2.401		
10,000.00	6,998.96	10,042.33	6,922.14	102.19	96.19	80.34	571.37	-2,354.35	457.92	261.37	196.56	2.330		
10,100.00	6,997.73	10,142.33	6,921.06	105.32	98.86	80.36	567.07	-2,454.25	457.68	255.40	202.28	2.263		
10,200.00	6,996.49	10,242.33	6,919.98	108.45	101.54	80.37	562.78	-2,554.15	457.44	249.41	208.02	2.199		
10,300.00	6,995.26	10,342.32	6,918.90	111.60	104.22	80.39	558.49	-2,654.05	457.19	243.41	213.79	2.139		
10,400.00	6,994.03	10,442.32	6,917.82	114.75	106.92	80.40	554.20	-2,753.95	456.95	237.38	219.57	2.081		
10,500.00	6,992.79	10,542.32	6,916.74	117.92	109.62	80.42	549.91	-2,853.85	456.71	231.34	225.37	2.026		
10,600.00	6,991.56	10,642.32	6,915.67	121.09	112.33	80.43	545.62	-2,953.76	456.46	225.28	231.18	1.974		
10,700.00	6,990.33	10,742.32	6,914.59	124.27	115.04	80.44	541.32	-3,053.66	456.22	219.21	237.01	1.925		
10,800.00	6,989.09	10,842.32	6,913.51	127.46	117.76	80.46	537.03	-3,153.56	455.98	213.13	242.85	1.878		
10,900.00	6,987.86	10,942.32	6,912.43	130.65	120.48	80.47	532.74	-3,253.46	455.74	207.03	248.71	1.832		
11,000.00	6,986.62	11,042.32	6,911.35	133.85	123.22	80.49	528.45	-3,353.36	455.49	200.92	254.57	1.789		
11,100.00	6,985.39	11,142.32	6,910.27	137.06	125.95	80.50	524.16	-3,453.26	455.25	194.80	260.45	1.748		
11,200.00	6,984.16	11,242.32	6,909.19	140.27	128.69	80.52	519.87	-3,553.17	455.01	188.67	266.33	1.708		
11,300.00	6,982.92	11,342.32	6,908.12	143.48	131.43	80.53	515.57	-3,653.07	454.76	182.53	272.23	1.671		
11,400.00	6,981.69	11,442.32	6,907.04	146.70	134.18	80.55	511.28	-3,752.97	454.52	176.39	278.13	1.634		
11,500.00	6,980.46	11,542.32	6,905.96	149.92	136.93	80.56	506.99	-3,852.87	454.28	170.23	284.05	1.599		
11,600.00	6,979.22	11,642.32	6,904.88	153.15	139.69	80.58	502.70	-3,952.77	454.04	164.07	289.97	1.566		
11,700.00	6,977.99	11,742.32	6,903.80	156.38	142.45	80.59	498.41	-4,052.67	453.79	157.90	295.90	1.534		
11,800.00	6,976.75	11,842.32	6,902.72	159.62	145.21	80.61	494.12	-4,152.58	453.55	151.72	301.83	1.503		
11,900.00	6,975.52	11,942.32	6,901.64	162.86	147.98	80.62	489.82	-4,252.48	453.31	145.53	307.77	1.473	Level 3	
12,000.00	6,974.29	12,042.32	6,900.57	166.10	150.74	80.64	485.53	-4,352.38	453.06	139.34	313.72	1.444	Level 3	
12,100.00	6,973.05	12,142.32	6,899.49	169.34	153.51	80.65	481.24	-4,452.28	452.82	133.15	319.68	1.417	Level 3	
12,200.00	6,971.82	12,242.32	6,898.41	172.59	156.29	80.67	476.95	-4,552.18	452.58	126.94	325.64	1.390	Level 3	
12,300.00	6,970.59	12,342.32	6,897.33	175.84	159.06	80.68	472.66	-4,652.08	452.34	120.74	331.60	1.364	Level 3	
12,400.00	6,969.35	12,442.32	6,896.25	179.09	161.84	80.70	468.36	-4,751.99	452.09	114.52	337.57	1.339	Level 3	
12,500.00	6,968.12	12,542.32	6,895.17	182.35	164.62	80.71	464.07	-4,851.89	451.85	108.30	343.55	1.315	Level 3	
12,600.00	6,966.89	12,642.32	6,894.09	185.60	167.40	80.73	459.78	-4,951.79	451.61	102.08	349.53	1.292	Level 3	
12,700.00	6,965.65	12,742.32	6,893.02	188.86	170.18	80.74	455.49	-5,051.69	451.37	95.86	355.51	1.270	Level 3	
12,800.00	6,964.42	12,842.32	6,891.94	192.12	172.97	80.76	451.20	-5,151.59	451.12	89.62	361.50	1.248	Level 2	
12,900.00	6,963.18	12,942.32	6,890.86	195.38	175.75	80.77	446.91	-5,251.49	450.88	83.39	367.49	1.227	Level 2	
13,000.00	6,961.95	13,042.32	6,889.78	198.65	178.54	80.79	442.61	-5,351.40	450.64	77.15	373.49	1.207	Level 2	
13,100.00	6,960.72	13,142.31	6,888.70	201.91	181.33	80.80	438.32	-5,451.30	450.40	70.91	379.49	1.187	Level 2	
13,200.00	6,959.48	13,242.31	6,887.62	205.18	184.12	80.82	434.03	-5,551.20	450.16	64.66	385.49	1.168	Level 2	
13,300.00	6,958.25	13,342.31	6,886.55	208.45	186.92	80.83	429.74	-5,651.10	449.91	58.41	391.50	1.149	Level 2	
13,400.00	6,957.02	13,442.31	6,885.47	211.72	189.71	80.85	425.45	-5,751.00	449.67	52.16	397.51	1.131	Level 2	
13,500.00	6,955.78	13,542.31	6,884.39	214.99	192.51	80.86	421.16	-5,850.90	449.43	45.90	403.53	1.114	Level 2	
13,600.00	6,954.55	13,642.31	6,883.31	218.27	195.30	80.88	416.86	-5,950.81	449.19	39.64	409.54	1.097	Level 2	
13,700.00	6,953.32	13,742.31	6,882.23	221.54	198.10	80.89	412.57	-6,050.71	448.94	33.38	415.56	1.080	Level 2	
13,800.00	6,952.08	13,842.31	6,881.15	224.82	200.90	80.91	408.28	-6,150.61	448.70	27.12	421.58	1.064	Level 2	
13,900.00	6,950.85	13,942.31	6,880.07	228.10	203.70	80.92	403.99	-6,250.51	448.46	20.85	427.61	1.049	Level 2	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,949.61	14,042.31	6,879.00	231.37	206.50	80.94	399.70	-6,350.41	448.22	14.58	433.64	1.034	Level 2	
14,100.00	6,948.38	14,142.31	6,877.92	234.65	209.31	80.95	395.41	-6,450.31	447.98	8.31	439.67	1.019	Level 2	
14,200.00	6,947.15	14,242.31	6,876.84	237.93	212.11	80.97	391.11	-6,550.22	447.73	2.03	445.70	1.005	Level 2	
14,300.00	6,945.91	14,342.31	6,875.76	241.22	214.91	80.98	386.82	-6,650.12	447.49	-4.25	451.74	0.991	Level 1	
14,400.00	6,944.68	14,442.31	6,874.68	244.50	217.72	81.00	382.53	-6,750.02	447.25	-10.52	457.77	0.977	Level 1	
14,500.00	6,943.45	14,542.31	6,873.60	247.78	220.53	81.01	378.24	-6,849.92	447.01	-16.81	463.81	0.964	Level 1	
14,600.00	6,942.21	14,642.31	6,872.52	251.07	223.33	81.03	373.95	-6,949.82	446.77	-23.09	469.86	0.951	Level 1	
14,700.00	6,940.98	14,742.31	6,871.45	254.35	226.14	81.04	369.66	-7,049.72	446.52	-29.38	475.90	0.938	Level 1	
14,800.00	6,939.74	14,842.31	6,870.37	257.64	228.95	81.06	365.36	-7,149.63	446.28	-35.66	481.95	0.926	Level 1	
14,900.00	6,938.51	14,942.31	6,869.29	260.92	231.76	81.07	361.07	-7,249.53	446.04	-41.95	487.99	0.914	Level 1	
15,000.00	6,937.28	15,042.31	6,868.21	264.21	234.57	81.09	356.78	-7,349.43	445.80	-48.25	494.04	0.902	Level 1	
15,100.00	6,936.04	15,142.31	6,867.13	267.50	237.38	81.10	352.49	-7,449.33	445.56	-54.54	500.10	0.891	Level 1	
15,200.00	6,934.81	15,242.31	6,866.05	270.79	240.19	81.12	348.20	-7,549.23	445.32	-60.83	506.15	0.880	Level 1	
15,300.00	6,933.58	15,342.31	6,864.97	274.08	243.00	81.13	343.91	-7,649.13	445.07	-67.13	512.21	0.869	Level 1	
15,400.00	6,932.34	15,442.31	6,863.90	277.37	245.82	81.15	339.61	-7,749.04	444.83	-73.43	518.26	0.858	Level 1	
15,500.00	6,931.11	15,542.31	6,862.82	280.66	248.63	81.17	335.32	-7,848.94	444.59	-79.73	524.32	0.848	Level 1	
15,577.59	6,930.15	15,619.90	6,861.98	283.21	250.81	81.18	331.99	-7,926.45	444.40	-84.62	529.02	0.840	Level 1, ES, SF	
15,589.88	6,930.00	15,618.10	6,862.00	283.62	250.76	81.18	332.07	-7,924.65	444.60	-84.55	529.14	0.840	Level 1	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.32	-44.81	-4.45	45.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.32	-44.81	-4.45	45.03	38.46	6.57	6.854		
200.00	200.00	200.00	200.00	3.34	3.34	-174.32	-44.81	-4.45	45.03	38.36	6.67	6.747 CC, ES		
300.00	299.98	299.98	299.98	3.44	3.44	114.54	-44.81	-4.45	45.73	38.84	6.89	6.638		
400.00	399.84	399.50	399.48	3.60	3.60	118.13	-45.50	-2.87	48.48	41.28	7.20	6.733		
500.00	499.45	498.99	498.83	3.81	3.79	120.81	-47.58	1.87	53.77	46.16	7.60	7.071		
600.00	598.70	598.38	597.84	4.08	4.03	122.47	-51.04	9.77	61.50	53.40	8.10	7.594		
700.00	697.47	697.57	696.30	4.40	4.30	123.27	-55.86	20.78	71.60	62.92	8.68	8.248		
774.77	770.92	771.57	769.44	4.68	4.52	123.44	-60.34	31.02	80.66	71.49	9.17	8.795		
800.00	795.65	796.50	794.02	4.78	4.60	123.42	-62.03	34.86	83.95	74.61	9.35	8.981		
900.00	893.64	895.21	890.93	5.20	4.94	122.12	-69.52	51.98	97.25	87.17	10.09	9.642		
1,000.00	991.63	993.55	986.79	5.66	5.31	119.39	-78.32	72.07	111.16	100.26	10.90	10.202		
1,100.00	1,089.63	1,091.29	1,081.26	6.15	5.71	115.78	-88.37	95.01	126.04	114.27	11.77	10.711		
1,200.00	1,187.62	1,189.41	1,175.50	6.65	6.15	112.04	-99.33	120.05	141.99	129.30	12.69	11.189		
1,300.00	1,285.62	1,287.74	1,269.92	7.17	6.61	109.03	-110.35	145.19	158.45	144.80	13.65	11.610		
1,400.00	1,383.61	1,386.07	1,364.34	7.71	7.09	106.59	-121.36	170.33	175.25	160.62	14.63	11.979		
1,500.00	1,481.60	1,484.40	1,458.76	8.25	7.58	104.57	-132.37	195.48	192.30	176.67	15.63	12.304		
1,600.00	1,579.60	1,582.72	1,553.18	8.80	8.08	102.89	-143.38	220.62	209.55	192.91	16.65	12.589		
1,700.00	1,677.59	1,681.05	1,647.60	9.36	8.59	101.46	-154.39	245.76	226.95	209.28	17.68	12.840		
1,800.00	1,775.59	1,779.38	1,742.02	9.92	9.11	100.23	-165.40	270.91	244.47	225.76	18.71	13.063		
1,900.00	1,873.58	1,877.71	1,836.44	10.49	9.64	99.17	-176.42	296.05	262.08	242.32	19.76	13.261		
2,000.00	1,971.57	1,976.04	1,930.86	11.06	10.17	98.25	-187.43	321.19	279.77	258.95	20.82	13.438		
2,100.00	2,069.57	2,074.37	2,025.28	11.64	10.70	97.43	-198.44	346.33	297.52	275.64	21.88	13.596		
2,200.00	2,167.56	2,172.70	2,119.70	12.22	11.24	96.70	-209.45	371.48	315.32	292.37	22.95	13.739		
2,300.00	2,265.56	2,271.02	2,214.12	12.80	11.79	96.06	-220.46	396.62	333.17	309.14	24.03	13.867		
2,400.00	2,363.55	2,369.35	2,308.54	13.38	12.33	95.47	-231.47	421.76	351.05	325.95	25.10	13.984		
2,500.00	2,461.54	2,467.68	2,402.96	13.97	12.88	94.95	-242.49	446.91	368.97	342.78	26.18	14.091		
2,600.00	2,559.54	2,566.01	2,497.38	14.55	13.43	94.47	-253.50	472.05	386.91	359.64	27.27	14.188		
2,700.00	2,657.53	2,664.34	2,591.80	15.14	13.99	94.04	-264.51	497.19	404.87	376.52	28.36	14.277		
2,800.00	2,755.53	2,762.67	2,686.22	15.73	14.54	93.64	-275.52	522.34	422.86	393.41	29.45	14.359		
2,900.00	2,853.52	2,861.00	2,780.64	16.32	15.10	93.27	-286.53	547.48	440.87	410.32	30.54	14.435		
3,000.00	2,951.52	2,959.32	2,875.06	16.91	15.66	92.94	-297.54	572.62	458.89	427.25	31.64	14.505		
3,100.00	3,049.51	3,057.65	2,969.48	17.51	16.22	92.63	-308.55	597.77	476.92	444.19	32.73	14.570		
3,200.00	3,147.50	3,155.98	3,063.90	18.10	16.78	92.34	-319.57	622.91	494.97	461.13	33.83	14.630		
3,300.00	3,245.50	3,254.31	3,158.32	18.70	17.34	92.07	-330.58	648.05	513.03	478.09	34.93	14.686		
3,400.00	3,343.49	3,359.62	3,259.62	19.29	17.93	91.86	-342.12	674.40	530.74	494.62	36.11	14.696		
3,500.00	3,441.49	3,471.21	3,367.95	19.89	18.53	91.98	-352.84	698.88	546.34	509.00	37.34	14.631		
3,600.00	3,539.48	3,583.40	3,477.84	20.48	19.09	92.45	-361.91	719.59	559.60	521.06	38.54	14.519		
3,700.00	3,637.47	3,695.86	3,588.78	21.08	19.62	93.25	-369.26	736.37	570.57	530.86	39.71	14.369		
3,800.00	3,735.47	3,808.23	3,700.28	21.68	20.11	94.37	-374.85	749.14	579.36	538.52	40.83	14.188		
3,900.00	3,833.46	3,920.17	3,811.81	22.27	20.57	95.80	-378.68	757.88	586.12	544.20	41.92	13.980		
4,000.00	3,931.46	4,031.36	3,922.87	22.87	20.99	97.53	-380.74	762.59	591.08	548.11	42.97	13.754		
4,100.00	4,029.45	4,137.95	4,029.45	23.47	21.37	99.48	-381.16	763.55	594.60	550.62	43.98	13.519		
4,200.00	4,127.44	4,235.94	4,127.44	24.07	21.70	101.33	-381.16	763.55	598.27	553.32	44.95	13.309		
4,300.00	4,225.44	4,333.94	4,225.44	24.67	22.04	103.15	-381.16	763.55	602.58	556.67	45.91	13.124		
4,400.00	4,323.43	4,431.93	4,323.43	25.27	22.38	104.95	-381.16	763.55	607.51	560.65	46.86	12.965		
4,507.81	4,429.08	4,537.58	4,429.08	25.92	22.75	106.85	-381.16	763.55	613.51	565.64	47.87	12.817		
4,600.00	4,519.70	4,628.20	4,519.70	26.45	23.07	108.43	-381.16	763.55	618.72	570.02	48.70	12.706		
4,700.00	4,618.56	4,727.06	4,618.56	26.98	23.43	109.82	-381.16	763.55	623.69	574.14	49.55	12.586		
4,800.00	4,717.88	4,826.38	4,717.88	27.46	23.79	110.88	-381.16	763.55	627.75	577.38	50.37	12.463		
4,900.00	4,817.54	4,926.04	4,817.54	27.89	24.15	111.62	-381.16	763.55	630.69	579.54	51.15	12.330		
5,000.00	4,917.43	5,025.93	4,917.43	28.28	24.51	112.04	-381.16	763.55	632.42	580.52	51.90	12.185		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,108.50	5,000.00	28.57	24.82	-174.70	-381.16	763.55	632.86	580.37	52.50	12.056		
5,100.00	5,017.42	5,125.92	5,017.42	28.62	24.88	-174.70	-381.16	763.55	632.86	580.25	52.62	12.027		
5,200.00	5,117.42	5,225.92	5,117.42	28.95	25.25	-174.70	-381.16	763.55	632.86	579.54	53.33	11.867		
5,300.00	5,217.42	5,325.92	5,217.42	29.28	25.62	-174.70	-381.16	763.55	632.86	578.82	54.04	11.710		
5,400.00	5,317.42	5,425.92	5,317.42	29.62	26.00	-174.70	-381.16	763.55	632.86	578.10	54.76	11.556		
5,500.00	5,417.42	5,525.92	5,417.42	29.96	26.37	-174.70	-381.16	763.55	632.86	577.38	55.49	11.405		
5,600.00	5,517.42	5,625.92	5,517.42	30.29	26.75	-174.70	-381.16	763.55	632.86	576.65	56.22	11.258		
5,700.00	5,617.42	5,725.92	5,617.42	30.64	27.13	-174.70	-381.16	763.55	632.86	575.92	56.95	11.113		
5,800.00	5,717.42	5,825.92	5,717.42	30.98	27.51	-174.70	-381.16	763.55	632.86	575.18	57.69	10.971		
5,900.00	5,817.42	5,925.92	5,817.42	31.33	27.90	-174.70	-381.16	763.55	632.86	574.44	58.43	10.832		
6,000.00	5,917.42	6,025.92	5,917.42	31.68	28.28	-174.70	-381.16	763.55	632.86	573.69	59.17	10.696		
6,100.00	6,017.42	6,125.92	6,017.42	32.03	28.67	-174.70	-381.16	763.55	632.86	572.95	59.92	10.562		
6,200.00	6,117.42	6,225.92	6,117.42	32.38	29.06	-174.70	-381.16	763.55	632.86	572.20	60.67	10.431		
6,300.00	6,217.42	6,325.92	6,217.42	32.74	29.45	-174.70	-381.16	763.55	632.86	571.44	61.42	10.303		
6,400.00	6,317.42	6,425.92	6,317.42	33.09	29.84	-174.70	-381.16	763.55	632.86	570.68	62.18	10.178		
6,476.01	6,393.43	6,501.93	6,393.43	33.37	30.14	-174.70	-381.16	763.55	632.86	570.11	62.76	10.084		
6,500.00	6,417.42	6,525.91	6,417.42	33.45	30.23	-82.41	-381.16	763.55	632.80	569.87	62.94	10.055		
6,550.00	6,467.25	6,575.75	6,467.25	33.59	30.43	-82.80	-381.16	763.55	632.31	569.02	63.29	9.991		
6,600.00	6,516.64	6,625.14	6,516.64	33.71	30.62	-83.57	-381.16	763.55	631.38	567.76	63.62	9.924		
6,650.00	6,565.26	6,671.04	6,565.26	33.80	30.80	-84.57	-381.18	762.79	630.23	566.32	63.92	9.860		
6,700.00	6,612.83	6,716.17	6,612.83	33.88	30.96	-85.59	-381.31	758.99	629.20	565.01	64.19	9.803		
6,750.00	6,659.04	6,762.00	6,659.04	33.94	31.14	-86.64	-381.54	751.89	628.32	563.87	64.45	9.750		
6,800.00	6,703.62	6,808.57	6,703.62	33.99	31.32	-87.71	-381.88	741.36	627.62	562.92	64.70	9.700		
6,850.00	6,746.28	6,855.95	6,746.28	34.03	31.51	-88.81	-382.33	727.27	627.11	562.15	64.95	9.655		
6,900.00	6,786.76	6,904.20	6,786.76	34.08	31.71	-89.93	-382.91	709.52	626.81	561.59	65.22	9.611		
6,942.76	6,819.47	6,946.19	6,819.47	34.12	31.90	-90.89	-383.49	691.34	626.72	561.27	65.45	9.575		
6,950.00	6,824.83	6,953.37	6,824.83	34.13	31.93	-91.06	-383.60	687.98	626.73	561.24	65.49	9.570		
7,000.00	6,860.23	7,003.54	6,860.23	34.20	32.17	-92.19	-384.42	662.56	626.87	561.09	65.78	9.529		
7,050.00	6,892.75	7,054.76	6,892.75	34.30	32.43	-93.32	-385.37	633.19	627.24	561.13	66.11	9.488		
7,100.00	6,922.20	7,107.09	6,922.20	34.43	32.73	-94.44	-386.45	599.79	627.82	561.35	66.47	9.446		
7,150.00	6,948.38	7,160.59	6,948.38	34.60	33.05	-95.55	-387.66	562.36	628.60	561.73	66.87	9.400		
7,200.00	6,971.15	7,215.30	6,971.15	34.82	33.42	-96.63	-389.00	520.91	629.56	562.22	67.34	9.349		
7,250.00	6,990.35	7,271.26	6,990.35	35.09	33.84	-97.68	-390.47	475.50	630.66	562.78	67.88	9.291		
7,300.00	7,005.87	7,328.50	7,005.87	35.43	34.32	-98.69	-392.06	426.27	631.88	563.37	68.51	9.223		
7,350.00	7,017.62	7,387.03	7,017.62	35.81	34.86	-99.66	-393.77	373.44	633.16	563.92	69.24	9.144		
7,400.00	7,025.52	7,446.85	7,025.52	36.26	35.47	-100.56	-395.59	317.31	634.47	564.37	70.09	9.052		
7,450.00	7,029.52	7,507.91	7,029.52	36.75	36.14	-101.40	-397.49	258.28	635.75	564.68	71.07	8.945		
7,483.86	7,030.00	7,549.95	7,030.00	37.12	36.64	-101.93	-398.83	216.91	636.58	564.76	71.82	8.863		
7,500.00	7,029.80	7,570.20	7,029.80	37.30	36.89	-102.18	-399.48	196.83	636.91	564.71	72.21	8.821		
7,600.00	7,028.57	7,687.13	7,028.57	38.58	38.40	-102.60	-403.25	80.11	636.88	561.92	74.95	8.497		
7,700.00	7,027.34	7,787.12	7,027.34	40.10	39.85	-102.60	-406.48	-19.82	636.01	558.11	77.90	8.164		
7,800.00	7,026.10	7,887.12	7,026.10	41.83	41.45	-102.60	-409.72	-119.76	635.14	553.95	81.19	7.823		
7,900.00	7,024.87	7,987.12	7,024.87	43.74	43.18	-102.60	-412.95	-219.69	634.28	549.49	84.78	7.481		
8,000.00	7,023.63	8,087.11	7,023.63	45.82	45.02	-102.60	-416.18	-319.63	633.41	544.76	88.64	7.146		
8,100.00	7,022.40	8,187.11	7,022.40	48.04	46.96	-102.59	-419.41	-419.56	632.54	539.81	92.74	6.821		
8,200.00	7,021.17	8,287.10	7,021.17	50.38	48.99	-102.59	-422.64	-519.49	631.68	534.64	97.03	6.510		
8,300.00	7,019.93	8,387.10	7,019.93	52.82	51.11	-102.59	-425.87	-619.43	630.81	529.30	101.51	6.215		
8,400.00	7,018.70	8,487.10	7,018.70	55.35	53.29	-102.59	-429.10	-719.36	629.94	523.81	106.13	5.935		
8,500.00	7,017.47	8,587.09	7,017.47	57.97	55.53	-102.59	-432.33	-819.29	629.08	518.18	110.90	5.673		
8,600.00	7,016.23	8,687.09	7,016.23	60.65	57.82	-102.58	-435.56	-919.23	628.21	512.43	115.78	5.426		
8,700.00	7,015.00	8,787.09	7,015.00	63.39	60.16	-102.58	-438.79	-1,019.16	627.34	506.58	120.77	5.195		
8,800.00	7,013.76	8,887.08	7,013.76	66.19	62.55	-102.58	-442.02	-1,119.09	626.48	500.63	125.84	4.978		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	8,987.08	7,148.70	69.03	64.97	-102.58	-445.25	-1,219.03	625.61	494.61	131.00	4.776		
9,000.00	7,011.30	9,087.07	7,147.25	71.91	67.42	-102.58	-448.48	-1,318.96	624.74	488.51	136.23	4.586		
9,100.00	7,010.06	9,187.07	7,145.81	74.83	69.91	-102.57	-451.72	-1,418.90	623.88	482.35	141.53	4.408		
9,200.00	7,008.83	9,287.07	7,144.37	77.78	72.42	-102.57	-454.95	-1,518.83	623.01	476.13	146.88	4.242		
9,300.00	7,007.60	9,387.06	7,142.92	80.76	74.95	-102.57	-458.18	-1,618.76	622.14	469.86	152.28	4.085		
9,400.00	7,006.36	9,487.06	7,141.48	83.76	77.51	-102.57	-461.41	-1,718.70	621.28	463.55	157.73	3.939		
9,500.00	7,005.13	9,587.06	7,140.04	86.79	80.08	-102.57	-464.64	-1,818.63	620.41	457.19	163.22	3.801		
9,600.00	7,003.90	9,687.05	7,138.59	89.84	82.67	-102.57	-467.87	-1,918.56	619.55	450.80	168.75	3.671		
9,700.00	7,002.66	9,787.05	7,137.15	92.90	85.28	-102.56	-471.10	-2,018.50	618.68	444.37	174.31	3.549		
9,800.00	7,001.43	9,887.04	7,135.71	95.99	87.91	-102.56	-474.33	-2,118.43	617.81	437.92	179.90	3.434		
9,900.00	7,000.19	9,987.04	7,134.27	99.08	90.54	-102.56	-477.56	-2,218.36	616.95	431.43	185.51	3.326		
10,000.00	6,998.96	10,087.04	7,132.82	102.19	93.19	-102.56	-480.79	-2,318.30	616.08	424.92	191.16	3.223		
10,100.00	6,997.73	10,187.03	7,131.38	105.32	95.85	-102.56	-484.02	-2,418.23	615.21	418.39	196.82	3.126		
10,200.00	6,996.49	10,287.03	7,129.94	108.45	98.52	-102.55	-487.25	-2,518.17	614.35	411.83	202.51	3.034		
10,300.00	6,995.26	10,387.03	7,128.49	111.60	101.20	-102.55	-490.48	-2,618.10	613.48	405.26	208.22	2.946		
10,400.00	6,994.03	10,487.02	7,127.05	114.75	103.89	-102.55	-493.72	-2,718.03	612.61	398.67	213.94	2.863		
10,500.00	6,992.79	10,587.02	7,125.61	117.92	106.59	-102.55	-496.95	-2,817.97	611.75	392.06	219.69	2.785		
10,600.00	6,991.56	10,687.01	7,124.16	121.09	109.29	-102.54	-500.18	-2,917.90	610.88	385.44	225.44	2.710		
10,700.00	6,990.33	10,787.01	7,122.72	124.27	112.00	-102.54	-503.41	-3,017.83	610.01	378.80	231.21	2.638		
10,800.00	6,989.09	10,887.01	7,121.28	127.46	114.72	-102.54	-506.64	-3,117.77	609.15	372.15	237.00	2.570		
10,900.00	6,987.86	10,987.00	7,119.84	130.65	117.45	-102.54	-509.87	-3,217.70	608.28	365.49	242.79	2.505		
11,000.00	6,986.62	11,087.00	7,118.39	133.85	120.17	-102.54	-513.10	-3,317.63	607.41	358.81	248.60	2.443		
11,100.00	6,985.39	11,187.00	7,116.95	137.06	122.91	-102.53	-516.33	-3,417.57	606.55	352.13	254.42	2.384		
11,200.00	6,984.16	11,286.99	7,115.51	140.27	125.65	-102.53	-519.56	-3,517.50	605.68	345.43	260.25	2.327		
11,300.00	6,982.92	11,386.99	7,114.06	143.48	128.39	-102.53	-522.79	-3,617.44	604.82	338.73	266.08	2.273		
11,400.00	6,981.69	11,486.98	7,112.62	146.70	131.14	-102.53	-526.02	-3,717.37	603.95	332.02	271.93	2.221		
11,500.00	6,980.46	11,586.98	7,111.18	149.92	133.89	-102.53	-529.25	-3,817.30	603.08	325.30	277.78	2.171		
11,600.00	6,979.22	11,686.98	7,109.73	153.15	136.65	-102.52	-532.48	-3,917.24	602.22	318.57	283.65	2.123		
11,700.00	6,977.99	11,786.97	7,108.29	156.38	139.41	-102.52	-535.72	-4,017.17	601.35	311.83	289.51	2.077		
11,800.00	6,976.75	11,886.97	7,106.85	159.62	142.17	-102.52	-538.95	-4,117.10	600.48	305.09	295.39	2.033		
11,900.00	6,975.52	11,986.97	7,105.41	162.86	144.93	-102.52	-542.18	-4,217.04	599.62	298.34	301.27	1.990		
12,000.00	6,974.29	12,086.96	7,103.96	166.10	147.70	-102.52	-545.41	-4,316.97	598.75	291.59	307.16	1.949		
12,100.00	6,973.05	12,186.96	7,102.52	169.34	150.47	-102.51	-548.64	-4,416.90	597.88	284.83	313.05	1.910		
12,200.00	6,971.82	12,286.95	7,101.08	172.59	153.25	-102.51	-551.87	-4,516.84	597.02	278.07	318.95	1.872		
12,300.00	6,970.59	12,386.95	7,099.63	175.84	156.03	-102.51	-555.10	-4,616.77	596.15	271.29	324.86	1.835		
12,400.00	6,969.35	12,486.95	7,098.19	179.09	158.80	-102.51	-558.33	-4,716.70	595.28	264.52	330.76	1.800		
12,500.00	6,968.12	12,586.94	7,096.75	182.35	161.59	-102.51	-561.56	-4,816.64	594.42	257.74	336.68	1.766		
12,600.00	6,966.89	12,686.94	7,095.30	185.60	164.37	-102.50	-564.79	-4,916.57	593.55	250.96	342.59	1.733		
12,700.00	6,965.65	12,786.94	7,093.86	188.86	167.15	-102.50	-568.02	-5,016.51	592.68	244.17	348.52	1.701		
12,800.00	6,964.42	12,886.93	7,092.42	192.12	169.94	-102.50	-571.25	-5,116.44	591.82	237.38	354.44	1.670		
12,900.00	6,963.18	12,986.93	7,090.98	195.38	172.73	-102.50	-574.48	-5,216.37	590.95	230.58	360.37	1.640		
13,000.00	6,961.95	13,086.92	7,089.53	198.65	175.52	-102.49	-577.72	-5,316.31	590.09	223.78	366.30	1.611		
13,100.00	6,960.72	13,186.92	7,088.09	201.91	178.31	-102.49	-580.95	-5,416.24	589.22	216.98	372.24	1.583		
13,200.00	6,959.48	13,286.92	7,086.65	205.18	181.11	-102.49	-584.18	-5,516.17	588.35	210.17	378.18	1.556		
13,300.00	6,958.25	13,386.91	7,085.20	208.45	183.90	-102.49	-587.41	-5,616.11	587.49	203.37	384.12	1.529		
13,400.00	6,957.02	13,486.91	7,083.76	211.72	186.70	-102.49	-590.64	-5,716.04	586.62	196.55	390.07	1.504		
13,500.00	6,955.78	13,586.91	7,082.32	214.99	189.50	-102.48	-593.87	-5,815.97	585.75	189.74	396.01	1.479 Level 3		
13,600.00	6,954.55	13,686.90	7,080.87	218.27	192.30	-102.48	-597.10	-5,915.91	584.89	182.92	401.96	1.455 Level 3		
13,700.00	6,953.32	13,786.90	7,079.43	221.54	195.10	-102.48	-600.33	-6,015.84	584.02	176.10	407.92	1.432 Level 3		
13,800.00	6,952.08	13,886.89	7,077.99	224.82	197.90	-102.48	-603.56	-6,115.78	583.15	169.28	413.87	1.409 Level 3		
13,900.00	6,950.85	13,986.89	7,076.54	228.10	200.70	-102.47	-606.79	-6,215.71	582.29	162.46	419.83	1.387 Level 3		
14,000.00	6,949.61	14,086.89	7,075.10	231.37	203.51	-102.47	-610.02	-6,315.64	581.42	155.63	425.79	1.366 Level 3		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	14,186.88	7,073.66	234.65	206.31	-102.47	-613.25	-6,415.58	580.55	148.80	431.76	1.345	Level 3	
14,200.00	6,947.15	14,286.88	7,072.22	237.93	209.12	-102.47	-616.48	-6,515.51	579.69	141.97	437.72	1.324	Level 3	
14,300.00	6,945.91	14,386.88	7,070.77	241.22	211.93	-102.47	-619.72	-6,615.44	578.82	135.13	443.69	1.305	Level 3	
14,400.00	6,944.68	14,486.87	7,069.33	244.50	214.74	-102.46	-622.95	-6,715.38	577.96	128.30	449.66	1.285	Level 3	
14,500.00	6,943.45	14,586.87	7,067.89	247.78	217.55	-102.46	-626.18	-6,815.31	577.09	121.46	455.63	1.267	Level 3	
14,600.00	6,942.21	14,686.86	7,066.44	251.07	220.36	-102.46	-629.41	-6,915.24	576.22	114.62	461.60	1.248	Level 2	
14,700.00	6,940.98	14,786.86	7,065.00	254.35	223.17	-102.46	-632.64	-7,015.18	575.36	107.78	467.57	1.231	Level 2	
14,800.00	6,939.74	14,886.86	7,063.56	257.64	225.98	-102.45	-635.87	-7,115.11	574.49	100.94	473.55	1.213	Level 2	
14,900.00	6,938.51	14,986.85	7,062.11	260.92	228.79	-102.45	-639.10	-7,215.05	573.62	94.10	479.53	1.196	Level 2	
15,000.00	6,937.28	15,086.85	7,060.67	264.21	231.61	-102.45	-642.33	-7,314.98	572.76	87.25	485.50	1.180	Level 2	
15,100.00	6,936.04	15,186.85	7,059.23	267.50	234.42	-102.45	-645.56	-7,414.91	571.89	80.40	491.49	1.164	Level 2	
15,200.00	6,934.81	15,286.84	7,057.79	270.79	237.24	-102.44	-648.79	-7,514.85	571.02	73.56	497.47	1.148	Level 2	
15,300.00	6,933.58	15,386.84	7,056.34	274.08	240.05	-102.44	-652.02	-7,614.78	570.16	66.71	503.45	1.132	Level 2	
15,400.00	6,932.34	15,486.83	7,054.90	277.37	242.87	-102.44	-655.25	-7,714.71	569.29	59.86	509.44	1.117	Level 2	
15,500.00	6,931.11	15,586.83	7,053.46	280.66	245.68	-102.44	-658.48	-7,814.65	568.42	53.00	515.42	1.103	Level 2	
15,589.88	6,930.00	15,676.71	7,052.16	283.62	248.22	-102.44	-661.39	-7,904.47	567.65	46.84	520.80	1.090	Level 2, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.15	-29.87	-3.06	30.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.15	-29.87	-3.06	30.03	23.46	6.57	4.571		
200.00	200.00	200.00	200.00	3.34	3.34	-174.15	-29.87	-3.06	30.03	23.36	6.67	4.499 CC		
300.00	299.98	299.94	299.92	3.44	3.44	112.45	-30.15	-1.34	30.80	23.91	6.89	4.473		
400.00	399.84	399.84	399.67	3.60	3.60	111.74	-30.96	3.82	33.11	25.91	7.20	4.600		
500.00	499.45	499.66	499.12	3.81	3.80	110.76	-32.32	12.40	36.97	29.36	7.61	4.858		
600.00	598.70	600.59	598.12	4.08	4.05	109.72	-34.22	24.36	42.37	34.24	8.12	5.216		
700.00	697.47	700.83	696.98	4.40	4.33	111.27	-36.30	37.54	49.10	40.37	8.72	5.629		
774.77	770.92	773.64	770.79	4.68	4.56	114.34	-37.86	47.38	55.05	45.83	9.22	5.972		
800.00	795.65	801.25	795.67	4.78	4.65	115.56	-38.39	50.70	57.23	47.83	9.40	6.086		
900.00	893.64	898.26	894.28	5.20	4.97	119.59	-40.47	63.85	66.10	55.97	10.13	6.524		
1,000.00	991.63	1,002.23	992.90	5.66	5.35	122.66	-42.55	77.01	75.21	64.29	10.93	6.883		
1,100.00	1,089.63	1,102.72	1,091.52	6.15	5.72	125.06	-44.64	90.16	84.50	72.75	11.74	7.195		
1,200.00	1,187.62	1,203.20	1,190.14	6.65	6.11	126.99	-46.72	103.31	93.90	81.31	12.58	7.461		
1,300.00	1,285.62	1,303.69	1,288.76	7.17	6.51	128.56	-48.80	116.46	103.38	89.94	13.45	7.688		
1,400.00	1,383.61	1,404.18	1,387.37	7.71	6.92	129.87	-50.89	129.61	112.93	98.61	14.33	7.883		
1,500.00	1,481.60	1,504.66	1,485.99	8.25	7.33	130.97	-52.97	142.77	122.53	107.31	15.22	8.051		
1,600.00	1,579.60	1,605.15	1,584.61	8.80	7.76	131.92	-55.05	155.92	132.17	116.04	16.13	8.196		
1,700.00	1,677.59	1,705.64	1,683.23	9.36	8.18	132.73	-57.14	169.07	141.84	124.80	17.04	8.324		
1,800.00	1,775.59	1,806.13	1,781.84	9.92	8.61	133.44	-59.22	182.22	151.53	133.57	17.96	8.435		
1,900.00	1,873.58	1,906.61	1,880.46	10.49	9.05	134.07	-61.30	195.37	161.25	142.35	18.89	8.534		
2,000.00	1,971.57	2,007.10	1,979.08	11.06	9.49	134.62	-63.39	208.53	170.98	151.15	19.83	8.622		
2,100.00	2,069.57	2,107.59	2,077.70	11.64	9.93	135.12	-65.47	221.68	180.72	159.95	20.77	8.700		
2,200.00	2,167.56	2,208.08	2,176.31	12.22	10.38	135.56	-67.55	234.83	190.48	168.76	21.72	8.770		
2,300.00	2,265.56	2,291.44	2,274.93	12.80	10.75	135.96	-69.63	247.98	200.24	177.65	22.59	8.863		
2,400.00	2,363.55	2,409.05	2,373.55	13.38	11.27	136.32	-71.72	261.14	210.02	186.40	23.62	8.890		
2,500.00	2,461.54	2,509.54	2,472.17	13.97	11.72	136.65	-73.80	274.29	219.80	195.22	24.58	8.942		
2,600.00	2,559.54	2,589.97	2,570.78	14.55	12.08	136.96	-75.88	287.44	229.59	204.14	25.45	9.021		
2,700.00	2,657.53	2,689.49	2,669.40	15.14	12.53	137.23	-77.97	300.59	239.39	212.98	26.41	9.065		
2,800.00	2,755.53	2,789.00	2,768.02	15.73	12.98	137.49	-80.05	313.74	249.19	221.82	27.37	9.105		
2,900.00	2,853.52	2,888.51	2,866.64	16.32	13.43	137.73	-82.13	326.90	258.99	230.67	28.33	9.142		
3,000.00	2,951.52	2,988.02	2,965.26	16.91	13.88	137.95	-84.22	340.05	268.80	239.51	29.29	9.176		
3,100.00	3,049.51	3,087.54	3,063.87	17.51	14.33	138.15	-86.30	353.20	278.62	248.36	30.26	9.208		
3,200.00	3,147.50	3,187.05	3,162.49	18.10	14.79	138.34	-88.38	366.35	288.43	257.21	31.23	9.237		
3,300.00	3,245.50	3,286.56	3,261.11	18.70	15.24	138.52	-90.47	379.51	298.25	266.06	32.19	9.264		
3,400.00	3,343.49	3,386.08	3,359.73	19.29	15.70	138.68	-92.55	392.66	308.07	274.91	33.16	9.290		
3,500.00	3,441.49	3,485.59	3,458.34	19.89	16.15	138.84	-94.63	405.81	317.90	283.77	34.13	9.313		
3,600.00	3,539.48	3,585.10	3,556.96	20.48	16.61	138.99	-96.71	418.96	327.73	292.62	35.10	9.336		
3,700.00	3,637.47	3,684.61	3,655.58	21.08	17.06	139.13	-98.80	432.11	337.55	301.48	36.08	9.356		
3,800.00	3,735.47	3,784.13	3,754.20	21.68	17.52	139.26	-100.88	445.27	347.38	310.33	37.05	9.376		
3,900.00	3,833.46	3,883.64	3,852.81	22.27	17.98	139.38	-102.96	458.42	357.22	319.19	38.03	9.394		
4,000.00	3,931.46	3,983.15	3,951.43	22.87	18.44	139.49	-105.05	471.57	367.05	328.05	39.00	9.411		
4,100.00	4,029.45	4,082.66	4,050.05	23.47	18.90	139.61	-107.13	484.72	376.88	336.91	39.98	9.428		
4,200.00	4,127.44	4,182.18	4,148.67	24.07	19.35	139.71	-109.21	497.87	386.72	345.77	40.95	9.443		
4,300.00	4,225.44	4,281.69	4,247.29	24.67	19.81	139.81	-111.30	511.03	396.56	354.63	41.93	9.458		
4,400.00	4,323.43	4,381.20	4,345.90	25.27	20.27	139.90	-113.38	524.18	406.40	363.49	42.91	9.472		
4,507.81	4,429.08	4,488.49	4,452.22	25.92	20.77	140.00	-115.63	538.36	417.01	373.04	43.96	9.486		
4,600.00	4,519.70	4,580.33	4,543.24	26.45	21.19	140.05	-117.55	550.50	424.95	380.08	44.86	9.472		
4,700.00	4,618.56	4,680.11	4,642.12	26.98	21.65	139.79	-119.64	563.68	431.00	385.16	45.84	9.402		
4,800.00	4,717.88	4,779.93	4,741.05	27.46	22.11	139.21	-121.73	576.88	434.43	387.60	46.82	9.278		
4,900.00	4,817.54	4,879.68	4,839.90	27.89	22.58	138.30	-123.81	590.06	435.29	387.49	47.80	9.106		
5,000.00	4,917.43	4,979.22	4,938.55	28.28	23.04	137.06	-125.90	603.22	433.71	384.93	48.78	8.891		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,061.19	5,019.78	28.57	23.42	-151.09	-127.61	614.05	430.66	381.08	49.58	8.685		
5,100.00	5,017.42	5,078.46	5,036.89	28.62	23.50	-151.38	-127.98	616.33	429.87	380.12	49.75	8.640		
5,200.00	5,117.42	5,177.56	5,135.10	28.95	23.96	-153.07	-130.05	629.43	425.53	374.81	50.72	8.390		
5,300.00	5,217.42	5,276.66	5,233.31	29.28	24.42	-154.78	-132.12	642.53	421.57	369.88	51.68	8.157		
5,400.00	5,317.42	5,375.76	5,331.52	29.62	24.87	-156.53	-134.20	655.63	418.00	365.35	52.65	7.940		
5,500.00	5,417.42	5,474.86	5,429.72	29.96	25.33	-158.31	-136.27	668.72	414.83	361.22	53.61	7.738		
5,600.00	5,517.42	5,573.96	5,527.93	30.29	25.79	-160.11	-138.35	681.82	412.07	357.50	54.56	7.552		
5,700.00	5,617.42	5,673.06	5,626.14	30.64	26.25	-161.93	-140.42	694.92	409.73	354.21	55.52	7.380		
5,800.00	5,717.42	5,772.16	5,724.35	30.98	26.71	-163.77	-142.50	708.02	407.81	351.35	56.46	7.223		
5,900.00	5,817.42	5,871.26	5,822.56	31.33	27.17	-165.62	-144.57	721.11	406.33	348.92	57.40	7.078		
6,000.00	5,917.42	5,970.36	5,920.77	31.68	27.63	-167.49	-146.65	734.21	405.28	346.94	58.34	6.947		
6,100.00	6,017.42	6,069.46	6,018.98	32.03	28.10	-169.36	-148.72	747.31	404.68	345.41	59.26	6.829		
6,187.13	6,104.55	6,155.81	6,104.55	32.34	28.50	-171.00	-150.53	758.72	404.51	344.45	60.06	6.735		
6,200.00	6,117.42	6,168.56	6,117.19	32.38	28.56	-171.24	-150.79	760.41	404.51	344.33	60.18	6.722		
6,300.00	6,217.42	6,267.66	6,215.40	32.74	29.02	-173.12	-152.87	773.50	404.79	343.70	61.09	6.627		
6,400.00	6,317.42	6,362.03	6,309.18	33.09	29.44	-174.54	-154.95	783.41	405.87	343.96	61.91	6.556		
6,476.01	6,393.43	6,432.11	6,379.19	33.37	29.71	-174.45	-156.80	782.54	407.96	345.56	62.41	6.537		
6,500.00	6,417.42	6,454.12	6,401.12	33.45	29.79	-81.84	-157.44	780.67	408.80	346.25	62.54	6.536		
6,550.00	6,467.25	6,499.87	6,446.39	33.59	29.96	-81.32	-158.85	774.39	410.50	347.70	62.80	6.537		
6,600.00	6,516.64	6,545.44	6,490.93	33.71	30.12	-80.85	-160.36	764.91	412.15	349.13	63.02	6.540		
6,650.00	6,565.26	6,590.86	6,534.53	33.80	30.29	-80.44	-161.96	752.31	413.72	350.50	63.22	6.544		
6,700.00	6,612.83	6,636.15	6,577.00	33.88	30.46	-80.08	-163.64	736.69	415.20	351.80	63.40	6.549		
6,750.00	6,659.04	6,681.33	6,618.15	33.94	30.64	-79.77	-165.39	718.14	416.58	353.01	63.57	6.553		
6,800.00	6,703.62	6,726.44	6,657.81	33.99	30.82	-79.53	-167.21	696.76	417.85	354.12	63.73	6.556		
6,850.00	6,746.28	6,771.48	6,695.81	34.03	31.01	-79.34	-169.09	672.66	418.99	355.09	63.90	6.557		
6,900.00	6,786.76	6,816.48	6,731.97	34.08	31.20	-79.21	-171.01	645.95	420.00	355.91	64.09	6.553		
6,950.00	6,824.83	6,861.47	6,766.14	34.13	31.42	-79.13	-172.98	616.77	420.87	356.56	64.31	6.545		
7,000.00	6,860.23	6,906.46	6,798.16	34.20	31.64	-79.12	-174.97	585.24	421.59	357.02	64.57	6.529		
7,050.00	6,892.75	6,951.49	6,827.90	34.30	31.89	-79.17	-176.99	551.50	422.17	357.27	64.89	6.506		
7,100.00	6,922.20	6,996.56	6,855.20	34.43	32.17	-79.27	-179.02	515.71	422.59	357.30	65.29	6.472		
7,150.00	6,948.38	7,041.71	6,879.93	34.60	32.47	-79.43	-181.05	478.01	422.87	357.09	65.78	6.429		
7,200.00	6,971.15	7,086.95	6,901.98	34.82	32.80	-79.65	-183.08	438.57	422.99	356.64	66.36	6.375		
7,250.00	6,990.35	7,132.30	6,921.21	35.09	33.17	-79.92	-185.09	397.55	422.97	355.93	67.04	6.309		
7,300.00	7,005.87	7,177.80	6,937.51	35.43	33.57	-80.25	-187.07	355.13	422.81	354.98	67.83	6.233		
7,350.00	7,017.62	7,223.46	6,950.79	35.81	34.01	-80.63	-189.02	311.50	422.52	353.79	68.73	6.148		
7,400.00	7,025.52	7,269.30	6,960.93	36.26	34.48	-81.07	-190.93	266.84	422.10	352.37	69.73	6.054		
7,450.00	7,029.52	7,315.34	6,967.86	36.75	34.98	-81.55	-192.79	221.37	421.57	350.75	70.82	5.953		
7,483.86	7,030.00	7,346.66	6,970.68	37.12	35.33	-81.91	-194.01	190.21	421.14	349.54	71.61	5.881		
7,500.00	7,029.80	7,361.63	6,971.49	37.30	35.51	-82.04	-194.58	175.27	420.95	348.96	71.99	5.847		
7,600.00	7,028.57	7,459.02	6,971.19	38.58	36.74	-82.16	-198.15	77.97	420.42	345.89	74.53	5.641		
7,700.00	7,027.34	7,559.01	6,969.87	40.10	38.16	-82.14	-201.80	-21.96	420.01	342.56	77.45	5.423		
7,800.00	7,026.10	7,659.01	6,968.56	41.83	39.72	-82.12	-205.44	-121.88	419.60	338.87	80.73	5.197		
7,900.00	7,024.87	7,759.01	6,967.24	43.74	41.43	-82.10	-209.09	-221.81	419.19	334.86	84.33	4.971		
8,000.00	7,023.63	7,859.01	6,965.93	45.82	43.25	-82.08	-212.73	-321.73	418.78	330.58	88.20	4.748		
8,100.00	7,022.40	7,959.01	6,964.61	48.04	45.18	-82.06	-216.38	-421.65	418.37	326.06	92.31	4.532		
8,200.00	7,021.17	8,059.01	6,963.30	50.38	47.21	-82.04	-220.02	-521.58	417.95	321.32	96.63	4.325		
8,300.00	7,019.93	8,159.01	6,961.98	52.82	49.31	-82.02	-223.67	-621.50	417.54	316.40	101.14	4.128		
8,400.00	7,018.70	8,259.01	6,960.67	55.35	51.49	-82.01	-227.31	-721.43	417.13	311.33	105.81	3.942		
8,500.00	7,017.47	8,359.01	6,959.35	57.97	53.72	-81.99	-230.96	-821.35	416.72	306.11	110.61	3.767		
8,600.00	7,016.23	8,459.01	6,958.04	60.65	56.02	-81.97	-234.60	-921.27	416.31	300.77	115.54	3.603		
8,700.00	7,015.00	8,559.01	6,956.73	63.39	58.36	-81.95	-238.25	-1,021.20	415.90	295.32	120.57	3.449		
8,800.00	7,013.76	8,659.00	6,955.41	66.19	60.74	-81.93	-241.89	-1,121.12	415.49	289.78	125.70	3.305		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	8,759.00	6,954.10	69.03	63.16	-81.91	-245.54	-1,221.05	415.07	284.16	130.91	3.171		
9,000.00	7,011.30	8,859.00	6,952.78	71.91	65.62	-81.89	-249.18	-1,320.97	414.66	278.47	136.20	3.045		
9,100.00	7,010.06	8,959.00	6,951.47	74.83	68.11	-81.87	-252.83	-1,420.89	414.25	272.71	141.55	2.927		
9,200.00	7,008.83	9,059.00	6,950.15	77.78	70.62	-81.85	-256.47	-1,520.82	413.84	266.89	146.95	2.816		
9,300.00	7,007.60	9,159.00	6,948.84	80.76	73.16	-81.83	-260.12	-1,620.74	413.43	261.02	152.41	2.713		
9,400.00	7,006.36	9,259.00	6,947.52	83.76	75.71	-81.81	-263.76	-1,720.67	413.02	255.10	157.92	2.615		
9,500.00	7,005.13	9,359.00	6,946.21	86.79	78.29	-81.79	-267.41	-1,820.59	412.61	249.15	163.46	2.524		
9,600.00	7,003.90	9,459.00	6,944.89	89.84	80.89	-81.77	-271.05	-1,920.51	412.20	243.15	169.04	2.438		
9,700.00	7,002.66	9,559.00	6,943.58	92.90	83.50	-81.75	-274.70	-2,020.44	411.79	237.13	174.66	2.358		
9,800.00	7,001.43	9,658.99	6,942.26	95.99	86.13	-81.73	-278.34	-2,120.36	411.38	231.07	180.31	2.282		
9,900.00	7,000.19	9,758.99	6,940.95	99.08	88.77	-81.71	-281.99	-2,220.29	410.97	224.98	185.98	2.210		
10,000.00	6,998.96	9,858.99	6,939.64	102.19	91.42	-81.69	-285.63	-2,320.21	410.56	218.87	191.68	2.142		
10,100.00	6,997.73	9,958.99	6,938.32	105.32	94.08	-81.67	-289.28	-2,420.13	410.14	212.74	197.40	2.078		
10,200.00	6,996.49	10,058.99	6,937.01	108.45	96.75	-81.65	-292.92	-2,520.06	409.73	206.59	203.15	2.017		
10,300.00	6,995.26	10,158.99	6,935.69	111.60	99.44	-81.63	-296.57	-2,619.98	409.32	200.42	208.91	1.959		
10,400.00	6,994.03	10,258.99	6,934.38	114.75	102.13	-81.61	-300.21	-2,719.91	408.91	194.23	214.69	1.905		
10,500.00	6,992.79	10,358.99	6,933.06	117.92	104.83	-81.59	-303.86	-2,819.83	408.50	188.02	220.48	1.853		
10,600.00	6,991.56	10,458.99	6,931.75	121.09	107.53	-81.57	-307.50	-2,919.75	408.09	181.80	226.29	1.803		
10,700.00	6,990.33	10,558.99	6,930.43	124.27	110.25	-81.55	-311.15	-3,019.68	407.68	175.57	232.12	1.756		
10,800.00	6,989.09	10,658.99	6,929.12	127.46	112.97	-81.53	-314.79	-3,119.60	407.27	169.32	237.95	1.712		
10,900.00	6,987.86	10,758.98	6,927.80	130.65	115.69	-81.51	-318.44	-3,219.53	406.86	163.06	243.80	1.669		
11,000.00	6,986.62	10,858.98	6,926.49	133.85	118.42	-81.49	-322.08	-3,319.45	406.45	156.79	249.66	1.628		
11,100.00	6,985.39	10,958.98	6,925.17	137.06	121.16	-81.47	-325.73	-3,419.37	406.04	150.52	255.53	1.589		
11,200.00	6,984.16	11,058.98	6,923.86	140.27	123.90	-81.45	-329.37	-3,519.30	405.63	144.23	261.40	1.552		
11,300.00	6,982.92	11,158.98	6,922.55	143.48	126.64	-81.43	-333.02	-3,619.22	405.22	137.93	267.29	1.516		
11,400.00	6,981.69	11,258.98	6,921.23	146.70	129.39	-81.41	-336.66	-3,719.15	404.81	131.63	273.18	1.482 Level 3		
11,500.00	6,980.46	11,358.98	6,919.92	149.92	132.15	-81.39	-340.31	-3,819.07	404.40	125.32	279.08	1.449 Level 3		
11,600.00	6,979.22	11,458.98	6,918.60	153.15	134.90	-81.37	-343.95	-3,918.99	403.99	119.00	284.99	1.418 Level 3		
11,700.00	6,977.99	11,558.98	6,917.29	156.38	137.67	-81.35	-347.60	-4,018.92	403.58	112.68	290.91	1.387 Level 3		
11,800.00	6,976.75	11,658.98	6,915.97	159.62	140.43	-81.33	-351.24	-4,118.84	403.17	106.34	296.83	1.358 Level 3		
11,900.00	6,975.52	11,758.98	6,914.66	162.86	143.20	-81.31	-354.89	-4,218.77	402.76	100.01	302.75	1.330 Level 3		
12,000.00	6,974.29	11,858.97	6,913.34	166.10	145.97	-81.29	-358.53	-4,318.69	402.35	93.67	308.69	1.303 Level 3		
12,100.00	6,973.05	11,958.97	6,912.03	169.34	148.74	-81.27	-362.18	-4,418.61	401.94	87.32	314.62	1.278 Level 3		
12,200.00	6,971.82	12,058.97	6,910.71	172.59	151.51	-81.25	-365.82	-4,518.54	401.53	80.97	320.56	1.253 Level 3		
12,300.00	6,970.59	12,158.97	6,909.40	175.84	154.29	-81.23	-369.47	-4,618.46	401.13	74.62	326.51	1.229 Level 2		
12,400.00	6,969.35	12,258.97	6,908.08	179.09	157.07	-81.21	-373.11	-4,718.38	400.72	68.26	332.46	1.205 Level 2		
12,500.00	6,968.12	12,358.97	6,906.77	182.35	159.85	-81.19	-376.76	-4,818.31	400.31	61.89	338.41	1.183 Level 2		
12,600.00	6,966.89	12,458.97	6,905.45	185.60	162.64	-81.17	-380.40	-4,918.23	399.90	55.53	344.37	1.161 Level 2		
12,700.00	6,965.65	12,558.97	6,904.14	188.86	165.42	-81.14	-384.05	-5,018.16	399.49	49.16	350.33	1.140 Level 2		
12,800.00	6,964.42	12,658.97	6,902.83	192.12	168.21	-81.12	-387.69	-5,118.08	399.08	42.79	356.29	1.120 Level 2		
12,900.00	6,963.18	12,758.97	6,901.51	195.38	171.00	-81.10	-391.34	-5,218.00	398.67	36.41	362.26	1.101 Level 2		
13,000.00	6,961.95	12,858.96	6,900.20	198.65	173.79	-81.08	-394.98	-5,317.93	398.26	30.03	368.23	1.082 Level 2		
13,100.00	6,960.72	12,958.96	6,898.88	201.91	176.58	-81.06	-398.63	-5,417.85	397.85	23.65	374.20	1.063 Level 2		
13,200.00	6,959.48	13,058.96	6,897.57	205.18	179.38	-81.04	-402.27	-5,517.78	397.44	17.27	380.17	1.045 Level 2		
13,300.00	6,958.25	13,158.96	6,896.25	208.45	182.17	-81.02	-405.92	-5,617.70	397.03	10.89	386.15	1.028 Level 2		
13,400.00	6,957.02	13,258.96	6,894.94	211.72	184.97	-81.00	-409.56	-5,717.62	396.62	4.50	392.13	1.011 Level 2		
13,500.00	6,955.78	13,358.96	6,893.62	214.99	187.77	-80.98	-413.21	-5,817.55	396.22	-1.89	398.11	0.995 Level 1		
13,600.00	6,954.55	13,458.96	6,892.31	218.27	190.57	-80.95	-416.85	-5,917.47	395.81	-8.28	404.09	0.980 Level 1		
13,700.00	6,953.32	13,558.96	6,890.99	221.54	193.37	-80.93	-420.50	-6,017.40	395.40	-14.67	410.07	0.964 Level 1		
13,800.00	6,952.08	13,658.96	6,889.68	224.82	196.17	-80.91	-424.14	-6,117.32	394.99	-21.07	416.06	0.949 Level 1		
13,900.00	6,950.85	13,758.96	6,888.36	228.10	198.98	-80.89	-427.79	-6,217.24	394.58	-27.46	422.04	0.935 Level 1		
14,000.00	6,949.61	13,858.96	6,887.05	231.37	201.78	-80.87	-431.43	-6,317.17	394.17	-33.86	428.03	0.921 Level 1		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	13,958.95	6,885.74	234.65	204.59	-80.85	-435.08	-6,417.09	393.76	-40.26	434.02	0.907	Level 1	
14,200.00	6,947.15	14,058.95	6,884.42	237.93	207.39	-80.83	-438.72	-6,517.02	393.36	-46.66	440.01	0.894	Level 1	
14,300.00	6,945.91	14,158.95	6,883.11	241.22	210.20	-80.80	-442.37	-6,616.94	392.95	-53.06	446.00	0.881	Level 1	
14,400.00	6,944.68	14,258.95	6,881.79	244.50	213.01	-80.78	-446.01	-6,716.86	392.54	-59.46	452.00	0.868	Level 1	
14,500.00	6,943.45	14,358.95	6,880.48	247.78	215.82	-80.76	-449.66	-6,816.79	392.13	-65.86	457.99	0.856	Level 1	
14,600.00	6,942.21	14,458.95	6,879.16	251.07	218.63	-80.74	-453.30	-6,916.71	391.72	-72.26	463.98	0.844	Level 1	
14,700.00	6,940.98	14,558.95	6,877.85	254.35	221.44	-80.72	-456.95	-7,016.64	391.31	-78.67	469.98	0.833	Level 1	
14,800.00	6,939.74	14,658.95	6,876.53	257.64	224.25	-80.70	-460.59	-7,116.56	390.91	-85.07	475.98	0.821	Level 1	
14,900.00	6,938.51	14,758.95	6,875.22	260.92	227.06	-80.67	-464.24	-7,216.48	390.50	-91.47	481.97	0.810	Level 1	
15,000.00	6,937.28	14,858.95	6,873.90	264.21	229.88	-80.65	-467.88	-7,316.41	390.09	-97.88	487.97	0.799	Level 1	
15,100.00	6,936.04	14,958.95	6,872.59	267.50	232.69	-80.63	-471.53	-7,416.33	389.68	-104.29	493.97	0.789	Level 1	
15,200.00	6,934.81	15,058.94	6,871.27	270.79	235.51	-80.61	-475.17	-7,516.26	389.27	-110.69	499.97	0.779	Level 1	
15,300.00	6,933.58	15,158.94	6,869.96	274.08	238.32	-80.59	-478.82	-7,616.18	388.87	-117.10	505.97	0.769	Level 1	
15,400.00	6,932.34	15,258.94	6,868.64	277.37	241.14	-80.56	-482.46	-7,716.10	388.46	-123.51	511.97	0.759	Level 1	
15,500.00	6,931.11	15,358.94	6,867.33	280.66	243.95	-80.54	-486.11	-7,816.03	388.05	-129.92	517.97	0.749	Level 1	
15,589.88	6,930.00	15,448.82	6,866.15	283.62	246.49	-80.52	-489.38	-7,905.84	387.68	-135.68	523.36	0.741	Level 1, ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	6.38	89.61	10.02	90.17					
100.00	100.00	100.00	100.00	3.28	3.28	6.38	89.61	10.02	90.17	83.60	6.57	13.726		
200.00	200.00	200.00	200.00	3.34	3.34	6.38	89.61	10.02	90.17	83.50	6.67	13.511		
300.00	299.98	299.98	299.98	3.44	3.44	-67.81	89.61	10.02	89.50	82.61	6.89	12.993		
357.92	357.84	356.11	356.11	3.53	3.53	-69.37	90.16	9.98	89.11	82.05	7.06	12.621 CC, ES		
400.00	399.84	396.85	396.83	3.60	3.60	-70.99	91.25	9.91	89.33	82.13	7.21	12.394		
500.00	499.45	493.40	493.25	3.81	3.80	-76.23	96.12	9.57	91.95	84.31	7.63	12.044		
600.00	598.70	589.35	588.86	4.08	4.03	-82.83	104.18	9.01	98.20	90.05	8.15	12.042 SF		
700.00	697.47	684.47	683.32	4.40	4.29	-89.85	115.31	8.24	108.92	100.16	8.75	12.441		
774.77	770.92	754.91	753.00	4.68	4.50	-94.85	125.57	7.53	120.15	110.90	9.25	12.994		
800.00	795.65	778.68	776.46	4.78	4.58	-96.48	129.42	7.27	124.56	115.15	9.42	13.226		
900.00	893.64	876.07	872.51	5.20	4.89	-102.10	145.45	6.16	143.22	133.10	10.12	14.156		
1,000.00	991.63	973.45	968.55	5.66	5.22	-106.41	161.48	5.05	162.91	152.05	10.86	15.001		
1,100.00	1,089.63	1,070.83	1,064.60	6.15	5.57	-109.79	177.52	3.94	183.30	171.66	11.64	15.747		
1,200.00	1,187.62	1,168.22	1,160.65	6.65	5.94	-112.49	193.55	2.83	204.19	191.74	12.45	16.400		
1,300.00	1,285.62	1,265.60	1,256.70	7.17	6.32	-114.69	209.59	1.72	225.43	212.15	13.28	16.971		
1,400.00	1,383.61	1,362.99	1,352.75	7.71	6.71	-116.51	225.62	0.61	246.94	232.80	14.14	17.470		
1,500.00	1,481.60	1,460.37	1,448.80	8.25	7.10	-118.03	241.66	-0.50	268.64	253.64	15.00	17.906		
1,600.00	1,579.60	1,557.75	1,544.85	8.80	7.51	-119.33	257.69	-1.61	290.50	274.62	15.88	18.289		
1,700.00	1,677.59	1,655.14	1,640.89	9.36	7.92	-120.45	273.73	-2.72	312.49	295.71	16.78	18.627		
1,800.00	1,775.59	1,752.52	1,736.94	9.92	8.33	-121.42	289.76	-3.83	334.57	316.90	17.68	18.927		
1,900.00	1,873.58	1,849.91	1,832.99	10.49	8.75	-122.27	305.80	-4.94	356.74	338.15	18.59	19.194		
2,000.00	1,971.57	1,947.29	1,929.04	11.06	9.18	-123.03	321.83	-6.05	378.97	359.46	19.50	19.432		
2,100.00	2,069.57	2,044.67	2,025.09	11.64	9.60	-123.69	337.87	-7.16	401.25	380.83	20.42	19.646		
2,200.00	2,167.56	2,142.06	2,121.14	12.22	10.03	-124.29	353.90	-8.27	423.58	402.23	21.35	19.839		
2,300.00	2,265.56	2,239.44	2,217.19	12.80	10.46	-124.83	369.93	-9.38	445.96	423.67	22.28	20.014		
2,400.00	2,363.55	2,336.83	2,313.23	13.38	10.89	-125.32	385.97	-10.49	468.36	445.14	23.22	20.173		
2,500.00	2,461.54	2,434.21	2,409.28	13.97	11.33	-125.76	402.00	-11.60	490.80	466.64	24.16	20.317		
2,600.00	2,559.54	2,531.59	2,505.33	14.55	11.76	-126.16	418.04	-12.71	513.26	488.16	25.10	20.450		
2,700.00	2,657.53	2,628.98	2,601.38	15.14	12.20	-126.53	434.07	-13.82	535.74	509.69	26.04	20.571		
2,800.00	2,755.53	2,726.36	2,697.43	15.73	12.64	-126.87	450.11	-14.93	558.24	531.25	26.99	20.683		
2,900.00	2,853.52	2,823.75	2,793.48	16.32	13.08	-127.19	466.14	-16.04	580.76	552.82	27.94	20.786		
3,000.00	2,951.52	2,921.13	2,889.52	16.91	13.52	-127.48	482.18	-17.15	603.29	574.40	28.89	20.882		
3,100.00	3,049.51	3,018.52	2,985.57	17.51	13.97	-127.75	498.21	-18.26	625.84	596.00	29.84	20.970		
3,200.00	3,147.50	3,115.90	3,081.62	18.10	14.41	-128.00	514.25	-19.37	648.40	617.60	30.80	21.053		
3,300.00	3,245.50	3,213.28	3,177.67	18.70	14.85	-128.23	530.28	-20.48	670.97	639.22	31.76	21.129		
3,400.00	3,343.49	3,310.67	3,273.72	19.29	15.30	-128.45	546.32	-21.59	693.55	660.84	32.71	21.201		
3,500.00	3,441.49	3,408.05	3,369.77	19.89	15.74	-128.66	562.35	-22.70	716.14	682.47	33.67	21.268		
3,600.00	3,539.48	3,505.44	3,465.82	20.48	16.19	-128.85	578.38	-23.81	738.74	704.11	34.63	21.331		
3,700.00	3,637.47	3,602.82	3,561.86	21.08	16.64	-129.03	594.42	-24.92	761.35	725.75	35.59	21.390		
3,800.00	3,735.47	3,700.20	3,657.91	21.68	17.08	-129.20	610.45	-26.03	783.96	747.41	36.55	21.446		
3,900.00	3,833.46	3,797.59	3,753.96	22.27	17.53	-129.36	626.49	-27.14	806.58	769.06	37.52	21.498		
4,000.00	3,931.46	3,894.97	3,850.01	22.87	17.98	-129.51	642.52	-28.25	829.20	790.72	38.48	21.548		
4,100.00	4,029.45	4,007.64	3,946.06	23.47	18.50	-129.66	658.56	-29.36	851.83	812.32	39.52	21.557		
4,200.00	4,127.44	4,089.74	4,042.11	24.07	18.88	-129.79	674.59	-30.47	874.47	834.06	40.41	21.639		
4,300.00	4,225.44	4,187.12	4,138.15	24.67	19.33	-129.92	690.63	-31.58	897.11	855.73	41.38	21.681		
4,400.00	4,323.43	4,284.51	4,234.20	25.27	19.78	-130.05	706.66	-32.69	919.75	877.41	42.34	21.721		
4,507.81	4,429.08	4,389.50	4,337.75	25.92	20.26	-130.17	723.95	-33.89	944.17	900.78	43.39	21.762		
4,600.00	4,519.70	4,479.50	4,426.52	26.45	20.68	-130.52	738.77	-34.92	964.11	919.84	44.27	21.777		
4,700.00	4,618.56	4,577.55	4,523.23	26.98	21.13	-130.70	754.91	-36.03	983.61	938.40	45.22	21.754		
4,800.00	4,717.88	4,675.94	4,620.27	27.46	21.59	-130.71	771.11	-37.16	1,000.89	954.75	46.14	21.692		
4,900.00	4,817.54	4,774.54	4,717.51	27.89	22.04	-130.53	787.35	-38.28	1,015.96	968.91	47.05	21.593		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,873.23	4,814.85	28.28	22.50	-130.18	803.60	-39.40	1,028.85	980.91	47.94	21.460		
5,082.58	5,000.00	4,954.70	4,895.21	28.57	22.88	-56.63	817.01	-40.33	1,037.90	989.24	48.66	21.330		
5,100.00	5,017.42	4,971.89	4,912.16	28.62	22.96	-56.50	819.84	-40.53	1,039.66	990.85	48.81	21.301		
5,200.00	5,117.42	5,070.52	5,009.43	28.95	23.42	-55.79	836.08	-41.65	1,049.87	1,000.20	49.67	21.138		
5,300.00	5,217.42	5,169.14	5,106.71	29.28	23.87	-55.10	852.32	-42.78	1,060.23	1,009.71	50.53	20.984		
5,400.00	5,317.42	5,267.77	5,203.98	29.62	24.33	-54.42	868.56	-43.90	1,070.75	1,019.37	51.38	20.838		
5,500.00	5,417.42	5,366.40	5,301.26	29.96	24.79	-53.75	884.80	-45.03	1,081.42	1,029.18	52.24	20.700		
5,600.00	5,517.42	5,465.03	5,398.53	30.29	25.25	-53.09	901.04	-46.15	1,092.23	1,039.13	53.10	20.569		
5,700.00	5,617.42	5,563.66	5,495.81	30.64	25.70	-52.45	917.28	-47.27	1,103.19	1,049.23	53.96	20.445		
5,800.00	5,717.42	5,662.29	5,593.09	30.98	26.16	-51.82	933.52	-48.40	1,114.28	1,059.46	54.82	20.328		
5,900.00	5,817.42	5,760.91	5,690.36	31.33	26.62	-51.20	949.76	-49.52	1,125.50	1,069.83	55.67	20.216		
6,000.00	5,917.42	5,859.54	5,787.64	31.68	27.08	-50.59	966.00	-50.65	1,136.86	1,080.33	56.53	20.111		
6,100.00	6,017.42	5,958.17	5,884.91	32.03	27.54	-50.00	982.24	-51.77	1,148.33	1,090.95	57.39	20.010		
6,200.00	6,117.42	7,509.78	6,832.44	32.38	37.99	-0.71	1,142.51	810.95	1,144.44	1,093.07	51.37	22.279		
6,300.00	6,217.42	7,510.81	6,832.45	32.74	38.01	-0.64	1,142.51	811.98	1,084.77	1,029.89	54.88	19.767		
6,400.00	6,317.42	7,511.84	6,832.46	33.09	38.03	-0.58	1,142.52	813.01	1,031.37	972.89	58.48	17.636		
6,476.01	6,393.43	7,512.62	6,832.47	33.37	38.04	-0.53	1,142.52	813.80	995.59	934.38	61.21	16.265		
6,500.00	6,417.42	7,512.42	6,832.47	33.45	38.04	92.82	1,142.52	813.59	985.26	923.22	62.05	15.879		
6,550.00	6,467.25	7,509.09	6,832.44	33.59	37.98	94.55	1,142.51	810.27	965.44	901.76	63.68	15.161		
6,600.00	6,516.64	7,501.86	6,832.36	33.71	37.86	95.75	1,142.48	803.04	948.11	882.97	65.14	14.555		
6,650.00	6,565.26	7,509.22	6,832.25	33.80	37.98	96.44	1,142.43	791.96	933.41	866.72	66.70	13.995		
6,700.00	6,612.83	7,475.91	6,832.09	33.88	37.47	96.64	1,142.37	777.09	921.45	853.97	67.48	13.655		
6,750.00	6,659.04	7,457.35	6,831.90	33.94	37.19	96.39	1,142.29	758.52	912.20	843.90	68.31	13.355		
6,800.00	6,703.62	7,435.20	6,831.67	33.99	36.85	95.73	1,142.20	736.38	905.60	836.71	68.90	13.144		
6,850.00	6,746.28	7,409.61	6,831.41	34.03	36.45	94.70	1,142.10	710.79	901.48	832.25	69.24	13.020		
6,900.00	6,786.76	7,380.73	6,831.11	34.08	36.06	93.37	1,141.98	681.91	899.62	830.20	69.43	12.958		
6,921.57	6,803.50	7,367.30	6,830.97	34.10	35.88	92.72	1,141.92	668.48	899.45	830.00	69.45	12.951		
6,950.00	6,824.83	7,348.74	6,830.78	34.13	35.63	91.80	1,141.85	649.93	899.73	830.30	69.43	12.959		
7,000.00	6,860.23	7,313.84	6,830.42	34.20	35.16	90.05	1,141.70	615.03	901.50	832.22	69.28	13.013		
7,050.00	6,892.75	7,276.74	6,830.03	34.30	34.69	88.22	1,141.55	577.93	904.57	835.53	69.04	13.103		
7,100.00	6,922.20	7,232.57	6,828.31	34.43	34.18	86.13	1,141.16	533.80	908.53	839.82	68.71	13.222		
7,150.00	6,948.38	7,190.24	6,823.84	34.60	33.70	84.10	1,140.31	491.73	913.08	844.70	68.39	13.352		
7,200.00	6,971.15	7,149.49	6,816.93	34.82	33.27	82.12	1,139.06	451.60	918.14	850.06	68.07	13.487		
7,250.00	6,990.35	7,110.08	6,807.86	35.09	32.88	80.21	1,137.45	413.29	923.60	855.79	67.80	13.622		
7,300.00	7,005.87	7,071.83	6,796.84	35.43	32.52	78.35	1,135.53	376.71	929.35	861.77	67.57	13.753		
7,350.00	7,017.62	7,034.58	6,784.03	35.81	32.20	76.57	1,133.30	341.80	935.29	867.89	67.40	13.876		
7,400.00	7,025.52	6,998.19	6,769.61	36.26	31.91	74.86	1,130.82	308.50	941.32	874.02	67.29	13.988		
7,450.00	7,029.52	6,962.58	6,753.69	36.75	31.65	73.23	1,128.08	276.76	947.32	880.06	67.26	14.085		
7,483.86	7,030.00	6,938.84	6,742.12	37.12	31.48	72.17	1,126.10	256.13	951.31	884.04	67.27	14.141		
7,500.00	7,029.80	6,927.71	6,736.44	37.30	31.41	71.84	1,125.13	246.61	953.25	885.96	67.29	14.166		
7,600.00	7,028.57	6,863.73	6,700.65	38.58	31.09	69.76	1,119.03	193.97	967.85	900.31	67.54	14.330		
7,700.00	7,027.34	6,807.99	6,665.35	40.10	30.97	67.73	1,113.03	151.26	987.49	919.52	67.97	14.529		
7,800.00	7,026.10	6,759.69	6,631.89	41.83	30.85	65.83	1,107.36	116.91	1,012.79	944.26	68.53	14.779		
7,900.00	7,024.87	6,717.88	6,600.92	43.74	30.74	64.10	1,102.13	89.33	1,044.06	974.88	69.17	15.093		
8,000.00	7,023.63	6,681.65	6,572.69	45.82	30.63	62.55	1,097.36	67.14	1,081.34	1,011.48	69.86	15.479		
8,100.00	7,022.40	6,650.00	6,547.04	48.04	30.53	61.16	1,093.03	49.11	1,124.48	1,053.93	70.55	15.940		
8,200.00	7,021.17	6,622.59	6,524.14	50.38	30.44	59.94	1,089.17	34.57	1,173.14	1,101.93	71.22	16.473		
8,300.00	7,019.93	6,600.00	6,504.81	52.82	30.36	58.92	1,085.92	23.33	1,226.93	1,155.07	71.86	17.074		
8,400.00	7,018.70	6,577.07	6,484.80	55.35	30.28	57.88	1,082.55	12.65	1,285.37	1,212.98	72.39	17.756		
8,500.00	7,017.47	6,550.00	6,460.71	57.97	30.18	56.65	1,078.50	0.99	1,348.07	1,275.31	72.75	18.529		
8,600.00	7,016.23	6,550.00	6,460.71	60.65	30.18	56.65	1,078.50	0.99	1,414.46	1,341.00	73.47	19.253		
8,700.00	7,015.00	6,526.11	6,439.06	63.39	30.09	55.56	1,074.87	-8.43	1,484.10	1,410.39	73.71	20.135		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,500.00	6,415.02	66.19	29.99	54.37	1,070.83	-17.77	1,556.89	1,483.04	73.85	21.082		
8,900.00	7,012.53	6,500.00	6,415.02	69.03	29.99	54.37	1,070.83	-17.77	1,631.99	1,557.68	74.30	21.964		
9,000.00	7,011.30	6,500.00	6,415.02	71.91	29.99	54.37	1,070.83	-17.77	1,709.64	1,634.96	74.68	22.893		
9,100.00	7,010.06	6,478.78	6,395.22	74.83	29.91	53.41	1,067.51	-24.62	1,789.09	1,714.36	74.73	23.940		
9,200.00	7,008.83	6,469.46	6,386.44	77.78	29.87	52.99	1,066.04	-27.42	1,870.45	1,795.56	74.90	24.974		
9,300.00	7,007.60	6,450.00	6,368.01	80.76	29.79	52.12	1,062.95	-32.84	1,953.51	1,878.61	74.90	26.080		
9,400.00	7,006.36	6,450.00	6,368.01	83.76	29.79	52.12	1,062.95	-32.84	2,037.77	1,962.66	75.11	27.131		
9,500.00	7,005.13	6,450.00	6,368.01	86.79	29.79	52.12	1,062.95	-32.84	2,123.39	2,048.11	75.28	28.207		
9,600.00	7,003.90	6,450.00	6,368.01	89.84	29.79	52.12	1,062.95	-32.84	2,210.22	2,134.80	75.42	29.306		
9,700.00	7,002.66	6,450.00	6,368.01	92.90	29.79	52.12	1,062.95	-32.84	2,298.12	2,222.59	75.54	30.424		
9,800.00	7,001.43	6,426.90	6,345.94	95.99	29.69	51.09	1,059.25	-38.53	2,386.49	2,311.07	75.42	31.642		
9,900.00	7,000.19	6,421.47	6,340.71	99.08	29.67	50.85	1,058.37	-39.75	2,475.94	2,400.48	75.46	32.810		
10,000.00	6,998.96	6,400.00	6,319.99	102.19	29.58	49.91	1,054.90	-44.13	2,566.36	2,491.02	75.35	34.061		
10,100.00	6,997.73	6,400.00	6,319.99	105.32	29.58	49.91	1,054.90	-44.13	2,657.08	2,581.66	75.42	35.231		
10,200.00	6,996.49	6,400.00	6,319.99	108.45	29.58	49.91	1,054.90	-44.13	2,748.44	2,672.96	75.48	36.412		
10,300.00	6,995.26	6,400.00	6,319.99	111.60	29.58	49.91	1,054.90	-44.13	2,840.38	2,764.85	75.53	37.604		
10,400.00	6,994.03	6,400.00	6,319.99	114.75	29.58	49.91	1,054.90	-44.13	2,932.85	2,857.27	75.58	38.805		
10,500.00	6,992.79	6,400.00	6,319.99	117.92	29.58	49.91	1,054.90	-44.13	3,025.80	2,950.18	75.62	40.014		
10,600.00	6,991.56	6,400.00	6,319.99	121.09	29.58	49.91	1,054.90	-44.13	3,119.19	3,043.54	75.65	41.231		
10,700.00	6,990.33	6,400.00	6,319.99	124.27	29.58	49.91	1,054.90	-44.13	3,212.97	3,137.29	75.68	42.454		
10,800.00	6,989.09	6,400.00	6,319.99	127.46	29.58	49.91	1,054.90	-44.13	3,307.12	3,231.41	75.71	43.683		
10,900.00	6,987.86	6,400.00	6,319.99	130.65	29.58	49.91	1,054.90	-44.13	3,401.60	3,325.87	75.73	44.917		
11,000.00	6,986.62	6,379.32	6,299.89	133.85	29.49	49.01	1,051.54	-47.67	3,496.01	3,420.40	75.61	46.239		
11,100.00	6,985.39	6,376.60	6,297.24	137.06	29.47	48.89	1,051.09	-48.09	3,590.98	3,515.37	75.61	47.493		
11,200.00	6,984.16	6,374.00	6,294.71	140.27	29.46	48.78	1,050.67	-48.47	3,686.20	3,610.58	75.61	48.750		
11,300.00	6,982.92	6,371.53	6,292.30	143.48	29.45	48.67	1,050.26	-48.83	3,781.65	3,706.03	75.62	50.010		
11,400.00	6,981.69	6,350.00	6,271.23	146.70	29.36	47.75	1,046.74	-51.56	3,877.65	3,802.16	75.49	51.367		
11,500.00	6,980.46	6,350.00	6,271.23	149.92	29.36	47.75	1,046.74	-51.56	3,973.46	3,897.95	75.51	52.621		
11,600.00	6,979.22	6,350.00	6,271.23	153.15	29.36	47.75	1,046.74	-51.56	4,069.46	3,993.93	75.53	53.878		
11,700.00	6,977.99	6,350.00	6,271.23	156.38	29.36	47.75	1,046.74	-51.56	4,165.66	4,090.11	75.55	55.136		
11,800.00	6,976.75	6,350.00	6,271.23	159.62	29.36	47.75	1,046.74	-51.56	4,262.03	4,186.46	75.57	56.396		
11,900.00	6,975.52	6,350.00	6,271.23	162.86	29.36	47.75	1,046.74	-51.56	4,358.57	4,282.97	75.59	57.658		
12,000.00	6,974.29	6,350.00	6,271.23	166.10	29.36	47.75	1,046.74	-51.56	4,455.25	4,379.64	75.61	58.921		
12,100.00	6,973.05	6,350.00	6,271.23	169.34	29.36	47.75	1,046.74	-51.56	4,552.08	4,476.45	75.63	60.185		
12,200.00	6,971.82	6,350.00	6,271.23	172.59	29.36	47.75	1,046.74	-51.56	4,649.05	4,573.39	75.66	61.450		
12,300.00	6,970.59	6,350.00	6,271.23	175.84	29.36	47.75	1,046.74	-51.56	4,746.14	4,670.46	75.68	62.715		
12,400.00	6,969.35	6,350.00	6,271.23	179.09	29.36	47.75	1,046.74	-51.56	4,843.35	4,767.65	75.70	63.981		
12,500.00	6,968.12	6,350.00	6,271.23	182.35	29.36	47.75	1,046.74	-51.56	4,940.67	4,864.95	75.72	65.247		
12,600.00	6,966.89	6,350.00	6,271.23	185.60	29.36	47.75	1,046.74	-51.56	5,038.09	4,962.35	75.75	66.514		
12,700.00	6,965.65	6,350.00	6,271.23	188.86	29.36	47.75	1,046.74	-51.56	5,135.62	5,059.85	75.77	67.780		
12,800.00	6,964.42	6,350.00	6,271.23	192.12	29.36	47.75	1,046.74	-51.56	5,233.23	5,157.44	75.79	69.046		
12,900.00	6,963.18	6,350.00	6,271.23	195.38	29.36	47.75	1,046.74	-51.56	5,330.94	5,255.12	75.82	70.311		
13,000.00	6,961.95	6,350.00	6,271.23	198.65	29.36	47.75	1,046.74	-51.56	5,428.73	5,352.88	75.85	71.576		
13,100.00	6,960.72	6,350.00	6,271.23	201.91	29.36	47.75	1,046.74	-51.56	5,526.60	5,450.73	75.87	72.841		
13,200.00	6,959.48	6,350.00	6,271.23	205.18	29.36	47.75	1,046.74	-51.56	5,624.54	5,548.64	75.90	74.105		
13,300.00	6,958.25	6,350.00	6,271.23	208.45	29.36	47.75	1,046.74	-51.56	5,722.56	5,646.63	75.93	75.368		
13,400.00	6,957.02	6,350.00	6,271.23	211.72	29.36	47.75	1,046.74	-51.56	5,820.64	5,744.68	75.96	76.630		
13,500.00	6,955.78	6,350.00	6,271.23	214.99	29.36	47.75	1,046.74	-51.56	5,918.79	5,842.80	75.99	77.890		
13,600.00	6,954.55	6,350.00	6,271.23	218.27	29.36	47.75	1,046.74	-51.56	6,016.99	5,940.97	76.02	79.150		
13,700.00	6,953.32	6,350.00	6,271.23	221.54	29.36	47.75	1,046.74	-51.56	6,115.26	6,039.21	76.05	80.409		
13,800.00	6,952.08	6,350.00	6,271.23	224.82	29.36	47.75	1,046.74	-51.56	6,213.58	6,137.49	76.09	81.666		
13,900.00	6,950.85	6,350.00	6,271.23	228.10	29.36	47.75	1,046.74	-51.56	6,311.95	6,235.83	76.12	82.922		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,949.61	6,350.00	6,271.23	231.37	29.36	47.75	1,046.74	-51.56	6,410.38	6,334.22	76.15	84.177		
14,100.00	6,948.38	6,350.00	6,271.23	234.65	29.36	47.75	1,046.74	-51.56	6,508.85	6,432.66	76.19	85.430		
14,200.00	6,947.15	6,350.00	6,271.23	237.93	29.36	47.75	1,046.74	-51.56	6,607.37	6,531.14	76.23	86.681		
14,300.00	6,945.91	6,350.00	6,271.23	241.22	29.36	47.75	1,046.74	-51.56	6,705.93	6,629.67	76.26	87.930		
14,400.00	6,944.68	6,350.00	6,271.23	244.50	29.36	47.75	1,046.74	-51.56	6,804.53	6,728.23	76.30	89.178		
14,500.00	6,943.45	6,327.17	6,248.81	247.78	29.25	46.79	1,042.99	-53.65	6,902.74	6,826.52	76.21	90.571		
14,600.00	6,942.21	6,326.38	6,248.04	251.07	29.25	46.76	1,042.86	-53.71	7,001.39	6,925.14	76.25	91.822		
14,700.00	6,940.98	6,325.62	6,247.29	254.35	29.25	46.73	1,042.74	-53.77	7,100.08	7,023.79	76.29	93.070		
14,800.00	6,939.74	6,324.88	6,246.56	257.64	29.24	46.70	1,042.62	-53.82	7,198.80	7,122.48	76.33	94.317		
14,900.00	6,938.51	6,324.15	6,245.84	260.92	29.24	46.67	1,042.50	-53.87	7,297.56	7,221.19	76.37	95.562		
15,000.00	6,937.28	6,323.45	6,245.15	264.21	29.24	46.64	1,042.38	-53.92	7,396.35	7,319.94	76.41	96.804		
15,100.00	6,936.04	6,322.76	6,244.47	267.50	29.23	46.61	1,042.27	-53.96	7,495.17	7,418.72	76.45	98.044		
15,200.00	6,934.81	6,300.00	6,222.05	270.79	29.13	45.67	1,038.52	-55.09	7,594.43	7,518.07	76.36	99.449		
15,300.00	6,933.58	6,300.00	6,222.05	274.08	29.13	45.67	1,038.52	-55.09	7,693.29	7,616.88	76.41	100.681		
15,400.00	6,932.34	6,300.00	6,222.05	277.37	29.13	45.67	1,038.52	-55.09	7,792.18	7,715.71	76.46	101.911		
15,500.00	6,931.11	6,300.00	6,222.05	280.66	29.13	45.67	1,038.52	-55.09	7,891.09	7,814.58	76.51	103.139		
15,589.88	6,930.00	6,300.00	6,222.05	283.62	29.13	45.67	1,038.52	-55.09	7,980.02	7,903.46	76.55	104.240		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.63	104.55	10.30	105.06					
100.00	100.00	100.00	100.00	3.28	3.28	5.63	104.55	10.30	105.06	98.49	6.57	15.992		
200.00	200.00	200.00	200.00	3.34	3.34	5.63	104.55	10.30	105.06	98.39	6.67	15.742 CC, ES		
300.00	299.98	296.46	296.44	3.44	3.44	-68.47	106.18	10.22	106.07	99.18	6.89	15.387		
400.00	399.84	392.66	392.52	3.60	3.59	-71.20	111.02	9.97	109.29	102.07	7.23	15.122		
500.00	499.45	488.36	487.88	3.81	3.79	-75.36	119.04	9.57	115.20	107.54	7.66	15.031		
600.00	598.70	583.32	582.17	4.08	4.02	-80.42	130.13	9.00	124.42	116.23	8.19	15.192		
700.00	697.47	677.29	675.09	4.40	4.28	-85.78	144.17	8.29	137.55	128.76	8.79	15.645		
774.77	770.92	750.15	746.93	4.68	4.50	-89.97	156.31	7.68	149.38	140.11	9.27	16.112		
800.00	795.65	774.73	771.16	4.78	4.58	-91.43	160.40	7.47	153.57	144.13	9.44	16.269		
900.00	893.64	872.16	867.22	5.20	4.89	-96.52	176.63	6.65	171.00	160.86	10.14	16.858		
1,000.00	991.63	969.58	963.28	5.66	5.23	-100.65	192.85	5.83	189.52	178.62	10.90	17.385		
1,100.00	1,089.63	1,067.00	1,059.34	6.15	5.59	-104.05	209.08	5.00	208.84	197.14	11.69	17.858		
1,200.00	1,187.62	1,164.43	1,155.40	6.65	5.96	-106.87	225.30	4.18	228.75	216.23	12.52	18.276		
1,300.00	1,285.62	1,261.85	1,251.46	7.17	6.34	-109.23	241.53	3.36	249.11	235.75	13.36	18.644		
1,400.00	1,383.61	1,359.27	1,347.52	7.71	6.73	-111.24	257.76	2.54	269.82	255.59	14.22	18.969		
1,500.00	1,481.60	1,456.69	1,443.58	8.25	7.13	-112.97	273.98	1.72	290.80	275.70	15.10	19.255		
1,600.00	1,579.60	1,554.12	1,539.63	8.80	7.54	-114.46	290.21	0.89	312.01	296.01	15.99	19.508		
1,700.00	1,677.59	1,651.54	1,635.69	9.36	7.95	-115.76	306.44	0.07	333.39	316.49	16.89	19.733		
1,800.00	1,775.59	1,748.96	1,731.75	9.92	8.37	-116.91	322.66	-0.75	354.91	337.11	17.80	19.934		
1,900.00	1,873.58	1,846.39	1,827.81	10.49	8.79	-117.92	338.89	-1.57	376.56	357.84	18.72	20.114		
2,000.00	1,971.57	1,943.81	1,923.87	11.06	9.22	-118.83	355.12	-2.39	398.31	378.66	19.65	20.275		
2,100.00	2,069.57	2,041.23	2,019.93	11.64	9.64	-119.64	371.34	-3.22	420.14	399.57	20.57	20.421		
2,200.00	2,167.56	2,138.66	2,115.99	12.22	10.07	-120.37	387.57	-4.04	442.05	420.54	21.51	20.552		
2,300.00	2,265.56	2,236.08	2,212.05	12.80	10.51	-121.03	403.79	-4.86	464.01	441.57	22.45	20.672		
2,400.00	2,363.55	2,333.50	2,308.10	13.38	10.94	-121.64	420.02	-5.68	486.03	462.65	23.39	20.782		
2,500.00	2,461.54	2,430.93	2,404.16	13.97	11.38	-122.19	436.25	-6.50	508.10	483.77	24.33	20.882		
2,600.00	2,559.54	2,528.35	2,500.22	14.55	11.81	-122.69	452.47	-7.33	530.21	504.93	25.28	20.973		
2,700.00	2,657.53	2,625.77	2,596.28	15.14	12.25	-123.15	468.70	-8.15	552.36	526.13	26.23	21.058		
2,800.00	2,755.53	2,723.20	2,692.34	15.73	12.69	-123.58	484.93	-8.97	574.53	547.35	27.18	21.136		
2,900.00	2,853.52	2,820.62	2,788.40	16.32	13.14	-123.98	501.15	-9.79	596.74	568.60	28.14	21.208		
3,000.00	2,951.52	2,918.04	2,884.46	16.91	13.58	-124.35	517.38	-10.61	618.97	589.88	29.09	21.275		
3,100.00	3,049.51	3,015.46	2,980.52	17.51	14.02	-124.69	533.60	-11.44	641.22	611.17	30.05	21.337		
3,200.00	3,147.50	3,112.89	3,076.58	18.10	14.47	-125.01	549.83	-12.26	663.50	632.49	31.01	21.396		
3,300.00	3,245.50	3,210.31	3,172.63	18.70	14.91	-125.31	566.06	-13.08	685.79	653.82	31.97	21.450		
3,400.00	3,343.49	3,307.73	3,268.69	19.29	15.36	-125.59	582.28	-13.90	708.10	675.17	32.93	21.500		
3,500.00	3,441.49	3,405.16	3,364.75	19.89	15.81	-125.85	598.51	-14.72	730.42	696.53	33.90	21.548		
3,600.00	3,539.48	3,502.58	3,460.81	20.48	16.25	-126.10	614.74	-15.55	752.76	717.90	34.86	21.593		
3,700.00	3,637.47	3,600.00	3,556.87	21.08	16.70	-126.33	630.96	-16.37	775.11	739.28	35.83	21.635		
3,800.00	3,735.47	3,702.57	3,652.93	21.68	17.17	-126.55	647.19	-17.19	797.47	760.66	36.82	21.661		
3,900.00	3,833.46	3,805.15	3,748.99	22.27	17.64	-126.76	663.42	-18.01	819.85	782.04	37.81	21.685		
4,000.00	3,931.46	3,907.73	3,845.05	22.87	18.12	-126.96	679.64	-18.83	842.23	803.43	38.80	21.708		
4,100.00	4,029.45	3,989.70	3,941.10	23.47	18.50	-127.15	695.87	-19.66	864.62	824.92	39.70	21.781		
4,200.00	4,127.44	4,087.12	4,037.16	24.07	18.95	-127.32	712.09	-20.48	887.02	846.35	40.67	21.813		
4,300.00	4,225.44	4,184.54	4,133.22	24.67	19.40	-127.49	728.32	-21.30	909.43	867.79	41.64	21.843		
4,400.00	4,323.43	4,281.97	4,229.28	25.27	19.85	-127.65	744.55	-22.12	931.84	889.23	42.61	21.871		
4,507.81	4,429.08	4,387.00	4,332.84	25.92	20.33	-127.82	762.04	-23.01	956.01	912.36	43.65	21.901		
4,600.00	4,519.70	4,477.03	4,421.61	26.45	20.75	-128.20	777.04	-23.77	975.80	931.26	44.54	21.908		
4,700.00	4,618.56	4,575.11	4,518.32	26.98	21.20	-128.42	793.37	-24.59	995.23	949.74	45.48	21.880		
4,800.00	4,717.88	4,673.50	4,615.34	27.46	21.66	-128.46	809.76	-25.42	1,012.54	966.12	46.41	21.816		
4,900.00	4,817.54	4,772.10	4,712.55	27.89	22.12	-128.31	826.18	-26.26	1,027.73	980.41	47.32	21.719		
5,000.00	4,917.43	4,870.77	4,809.84	28.28	22.58	-127.99	842.62	-27.09	1,040.86	992.65	48.21	21.591		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,952.23	4,890.16	28.57	22.95	-54.45	856.18	-27.78	1,050.17	1,001.25	48.92	21.466		
5,100.00	5,017.42	4,969.41	4,907.10	28.62	23.03	-54.33	859.04	-27.92	1,051.99	1,002.92	49.07	21.438		
5,200.00	5,117.42	5,068.01	5,004.32	28.95	23.49	-53.63	875.47	-28.75	1,062.56	1,012.63	49.93	21.283		
5,300.00	5,217.42	5,166.61	5,101.54	29.28	23.95	-52.95	891.89	-29.59	1,073.28	1,022.50	50.78	21.136		
5,400.00	5,317.42	5,265.21	5,198.76	29.62	24.41	-52.28	908.31	-30.42	1,084.15	1,032.52	51.63	20.997		
5,500.00	5,417.42	5,363.81	5,295.97	29.96	24.87	-51.62	924.73	-31.25	1,095.17	1,042.68	52.49	20.865		
5,600.00	5,517.42	5,462.41	5,393.19	30.29	25.33	-50.98	941.16	-32.08	1,106.33	1,052.99	53.34	20.740		
5,700.00	5,617.42	5,561.01	5,490.41	30.64	25.78	-50.35	957.58	-32.91	1,117.63	1,063.43	54.20	20.622		
5,800.00	5,717.42	5,659.61	5,587.63	30.98	26.24	-49.73	974.00	-33.74	1,129.06	1,074.01	55.05	20.510		
5,900.00	5,817.42	5,758.21	5,684.85	31.33	26.70	-49.12	990.42	-34.58	1,140.62	1,084.71	55.90	20.403		
6,000.00	5,917.42	5,856.81	5,782.07	31.68	27.16	-48.53	1,006.85	-35.41	1,152.30	1,095.54	56.76	20.302		
6,100.00	6,017.42	5,955.41	5,879.29	32.03	27.62	-47.94	1,023.27	-36.24	1,164.11	1,106.50	57.61	20.206		
6,200.00	6,117.42	6,054.01	5,976.51	32.38	28.08	-47.37	1,039.69	-37.07	1,176.03	1,117.57	58.46	20.115		
6,300.00	6,217.42	6,152.61	6,073.72	32.74	28.54	-46.81	1,056.11	-37.90	1,188.07	1,128.75	59.32	20.029		
6,400.00	6,317.42	6,251.21	6,150.82	33.09	29.00	-46.24	1,072.53	-38.73	1,199.06	1,139.06	60.19	19.944		
6,476.01	6,393.43	6,327.22	6,226.83	33.37	29.41	-45.67	1,088.00	-39.55	1,210.00	1,149.00	61.00	19.866		
6,500.00	6,417.42	6,371.81	6,271.41	33.71	29.87	-45.09	1,103.42	-40.37	1,220.99	1,159.00	61.81	19.788		
6,550.00	6,467.25	6,421.41	6,321.01	34.05	30.33	-44.52	1,118.84	-41.19	1,231.98	1,169.00	62.62	19.710		
6,600.00	6,516.64	6,470.81	6,370.41	34.39	30.79	-43.95	1,134.26	-42.01	1,242.97	1,179.00	63.43	19.632		
6,650.00	6,565.26	6,519.21	6,419.01	34.73	31.25	-43.38	1,149.68	-42.83	1,253.96	1,189.00	64.24	19.554		
6,700.00	6,612.83	6,566.81	6,468.61	35.07	31.71	-42.81	1,165.10	-43.65	1,264.95	1,199.00	65.05	19.476		
6,750.00	6,659.04	6,613.41	6,517.21	35.41	32.17	-42.24	1,180.52	-44.47	1,275.94	1,209.00	65.86	19.398		
6,800.00	6,703.62	6,657.99	6,561.79	35.75	32.63	-41.67	1,195.94	-45.29	1,286.93	1,219.00	66.67	19.320		
6,850.00	6,746.28	6,701.59	6,605.39	36.09	33.09	-41.10	1,211.36	-46.11	1,297.92	1,229.00	67.48	19.242		
6,900.00	6,786.76	6,741.17	6,648.97	36.43	33.55	-40.53	1,226.78	-46.93	1,308.91	1,239.00	68.29	19.164		
6,950.00	6,824.83	6,779.24	6,687.04	36.77	34.01	-40.00	1,242.20	-47.75	1,319.90	1,249.00	69.10	19.086		
7,000.00	6,860.23	6,813.81	6,731.61	37.11	34.47	-39.43	1,257.62	-48.57	1,330.89	1,259.00	69.91	19.008		
7,050.00	6,892.75	6,846.31	6,764.11	37.45	34.93	-38.86	1,273.04	-49.39	1,341.88	1,269.00	70.72	18.930		
7,100.00	6,922.20	6,875.76	6,793.56	37.79	35.39	-38.29	1,288.46	-50.21	1,352.87	1,279.00	71.53	18.852		
7,150.00	6,948.38	6,901.94	6,819.74	38.13	35.85	-37.72	1,303.88	-51.03	1,363.86	1,289.00	72.34	18.774		
7,156.29	6,951.44	6,905.00	6,822.80	38.47	36.31	-37.15	1,319.30	-51.85	1,374.85	1,299.00	73.15	18.696		
7,200.00	6,971.15	6,924.56	6,842.36	38.81	36.77	-36.58	1,334.72	-52.67	1,385.84	1,309.00	73.96	18.618		
7,250.00	6,990.35	6,943.76	6,861.56	39.15	37.23	-36.01	1,350.14	-53.49	1,396.83	1,319.00	74.77	18.540		
7,300.00	7,005.87	6,959.28	6,876.08	39.49	37.69	-35.44	1,365.56	-54.31	1,407.82	1,329.00	75.58	18.462		
7,350.00	7,017.62	6,970.99	6,887.79	39.83	38.15	-34.87	1,380.98	-55.13	1,418.81	1,339.00	76.39	18.384		
7,400.00	7,025.52	6,978.10	6,895.90	40.17	38.61	-34.30	1,396.40	-55.95	1,429.80	1,349.00	77.20	18.306		
7,450.00	7,029.52	6,981.21	6,900.01	40.51	39.07	-33.73	1,411.82	-56.77	1,440.79	1,359.00	78.01	18.228		
7,483.86	7,030.00	6,982.32	6,901.12	40.85	39.53	-33.16	1,427.24	-57.59	1,451.78	1,369.00	78.82	18.150		
7,500.00	7,029.80	6,981.43	6,900.23	41.19	39.99	-32.59	1,442.66	-58.41	1,462.77	1,379.00	79.63	18.072		
7,600.00	7,028.57	6,980.54	6,899.34	41.53	40.45	-32.02	1,458.08	-59.23	1,473.76	1,389.00	80.44	18.000		
7,700.00	7,027.34	6,979.65	6,898.45	41.87	40.91	-31.45	1,473.50	-60.05	1,484.75	1,399.00	81.25	17.922		
7,800.00	7,026.10	6,978.76	6,897.56	42.21	41.37	-30.88	1,488.92	-60.87	1,495.74	1,409.00	82.06	17.844		
7,900.00	7,024.87	6,977.87	6,896.67	42.55	41.83	-30.31	1,504.34	-61.69	1,506.73	1,419.00	82.87	17.766		
8,000.00	7,023.63	6,976.98	6,895.78	42.89	42.29	-29.74	1,519.76	-62.51	1,517.72	1,429.00	83.68	17.688		
8,100.00	7,022.40	6,976.09	6,894.89	43.23	42.75	-29.17	1,535.18	-63.33	1,528.71	1,439.00	84.49	17.610		
8,200.00	7,021.17	6,975.20	6,894.00	43.57	43.21	-28.60	1,550.60	-64.15	1,539.70	1,449.00	85.30	17.532		
8,300.00	7,019.93	6,974.31	6,893.11	43.91	43.67	-28.03	1,566.02	-64.97	1,550.69	1,459.00	86.11	17.454		
8,400.00	7,018.70	6,973.42	6,892.22	44.25	44.13	-27.46	1,581.44	-65.79	1,561.68	1,469.00	86.92	17.376		
8,500.00	7,017.47	6,972.53	6,891.33	44.59	44.59	-26.89	1,596.86	-66.61	1,572.67	1,479.00	87.73	17.298		
8,600.00	7,016.23	6,971.64	6,890.44	44.93	45.05	-26.32	1,612.28	-67.43	1,583.66	1,489.00	88.54	17.220		
8,700.00	7,015.00	6,970.75	6,889.55	45.27	45.51	-25.75	1,627.70	-68.25	1,594.65	1,499.00	89.35	17.142		
8,800.00	7,013.76	6,969.86	6,888.66	45.61	45.97	-25.18	1,643.12	-69.07	1,605.64	1,509.00	90.16	17.064		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	6,600.00	6,512.08	69.03	30.58	60.57	1,130.50	-12.23	1,637.69	1,560.75	76.94	21.284		
9,000.00	7,011.30	6,576.38	6,489.70	71.91	30.48	59.43	1,126.64	-18.71	1,715.10	1,638.14	76.97	22.283		
9,100.00	7,010.06	6,568.08	6,481.78	74.83	30.45	59.02	1,125.28	-20.79	1,794.79	1,717.66	77.13	23.269		
9,200.00	7,008.83	6,550.00	6,464.44	77.78	30.37	58.15	1,122.30	-24.96	1,876.42	1,799.28	77.15	24.323		
9,300.00	7,007.60	6,550.00	6,464.44	80.76	30.37	58.15	1,122.30	-24.96	1,959.48	1,882.15	77.33	25.339		
9,400.00	7,006.36	6,550.00	6,464.44	83.76	30.37	58.15	1,122.30	-24.96	2,044.05	1,966.57	77.48	26.381		
9,500.00	7,005.13	6,550.00	6,464.44	86.79	30.37	58.15	1,122.30	-24.96	2,129.96	2,052.36	77.60	27.447		
9,600.00	7,003.90	6,550.00	6,464.44	89.84	30.37	58.15	1,122.30	-24.96	2,217.05	2,139.35	77.70	28.534		
9,700.00	7,002.66	6,530.82	6,445.93	92.90	30.29	57.23	1,119.13	-28.83	2,304.85	2,227.26	77.60	29.703		
9,800.00	7,001.43	6,526.13	6,441.39	95.99	30.27	57.01	1,118.35	-29.69	2,393.74	2,316.12	77.62	30.839		
9,900.00	7,000.19	6,521.76	6,437.14	99.08	30.25	56.80	1,117.62	-30.46	2,483.44	2,405.80	77.64	31.987		
10,000.00	6,998.96	6,500.00	6,415.96	102.19	30.15	55.77	1,114.00	-33.86	2,574.15	2,496.66	77.49	33.220		
10,100.00	6,997.73	6,500.00	6,415.96	105.32	30.15	55.77	1,114.00	-33.86	2,665.12	2,587.59	77.53	34.375		
10,200.00	6,996.49	6,500.00	6,415.96	108.45	30.15	55.77	1,114.00	-33.86	2,756.72	2,679.15	77.57	35.540		
10,300.00	6,995.26	6,500.00	6,415.96	111.60	30.15	55.77	1,114.00	-33.86	2,848.88	2,771.29	77.59	36.715		
10,400.00	6,994.03	6,500.00	6,415.96	114.75	30.15	55.77	1,114.00	-33.86	2,941.55	2,863.94	77.62	37.899		
10,500.00	6,992.79	6,500.00	6,415.96	117.92	30.15	55.77	1,114.00	-33.86	3,034.69	2,957.06	77.63	39.090		
10,600.00	6,991.56	6,500.00	6,415.96	121.09	30.15	55.77	1,114.00	-33.86	3,128.26	3,050.61	77.65	40.287		
10,700.00	6,990.33	6,500.00	6,415.96	124.27	30.15	55.77	1,114.00	-33.86	3,222.21	3,144.55	77.66	41.491		
10,800.00	6,989.09	6,500.00	6,415.96	127.46	30.15	55.77	1,114.00	-33.86	3,316.51	3,238.84	77.67	42.700		
10,900.00	6,987.86	6,500.00	6,415.96	130.65	30.15	55.77	1,114.00	-33.86	3,411.14	3,333.46	77.68	43.914		
11,000.00	6,986.62	6,500.00	6,415.96	133.85	30.15	55.77	1,114.00	-33.86	3,506.07	3,428.38	77.69	45.132		
11,100.00	6,985.39	6,500.00	6,415.96	137.06	30.15	55.77	1,114.00	-33.86	3,601.27	3,523.57	77.69	46.353		
11,200.00	6,984.16	6,500.00	6,415.96	140.27	30.15	55.77	1,114.00	-33.86	3,696.72	3,619.02	77.70	47.578		
11,300.00	6,982.92	6,500.00	6,415.96	143.48	30.15	55.77	1,114.00	-33.86	3,792.41	3,714.71	77.70	48.806		
11,400.00	6,981.69	6,500.00	6,415.96	146.70	30.15	55.77	1,114.00	-33.86	3,888.31	3,810.61	77.71	50.037		
11,500.00	6,980.46	6,478.05	6,394.48	149.92	30.05	54.74	1,110.34	-36.54	3,984.00	3,906.43	77.56	51.364		
11,600.00	6,979.22	6,476.32	6,392.79	153.15	30.04	54.66	1,110.05	-36.72	4,080.22	4,002.66	77.56	52.607		
11,700.00	6,977.99	6,474.67	6,391.17	156.38	30.04	54.58	1,109.78	-36.89	4,176.62	4,099.06	77.56	53.852		
11,800.00	6,976.75	6,473.08	6,389.61	159.62	30.03	54.50	1,109.51	-37.04	4,273.18	4,195.62	77.56	55.098		
11,900.00	6,975.52	6,471.56	6,388.12	162.86	30.02	54.43	1,109.26	-37.19	4,369.89	4,292.33	77.56	56.345		
12,000.00	6,974.29	6,450.00	6,366.93	166.10	29.93	53.44	1,105.66	-38.87	4,467.09	4,389.67	77.42	57.701		
12,100.00	6,973.05	6,450.00	6,366.93	169.34	29.93	53.44	1,105.66	-38.87	4,564.03	4,486.60	77.43	58.943		
12,200.00	6,971.82	6,450.00	6,366.93	172.59	29.93	53.44	1,105.66	-38.87	4,661.09	4,583.65	77.45	60.186		
12,300.00	6,970.59	6,450.00	6,366.93	175.84	29.93	53.44	1,105.66	-38.87	4,758.28	4,680.82	77.46	61.429		
12,400.00	6,969.35	6,450.00	6,366.93	179.09	29.93	53.44	1,105.66	-38.87	4,855.58	4,778.11	77.48	62.673		
12,500.00	6,968.12	6,450.00	6,366.93	182.35	29.93	53.44	1,105.66	-38.87	4,952.99	4,875.50	77.49	63.917		
12,600.00	6,966.89	6,450.00	6,366.93	185.60	29.93	53.44	1,105.66	-38.87	5,050.50	4,972.99	77.51	65.160		
12,700.00	6,965.65	6,450.00	6,366.93	188.86	29.93	53.44	1,105.66	-38.87	5,148.10	5,070.58	77.53	66.404		
12,800.00	6,964.42	6,450.00	6,366.93	192.12	29.93	53.44	1,105.66	-38.87	5,245.80	5,168.25	77.55	67.648		
12,900.00	6,963.18	6,450.00	6,366.93	195.38	29.93	53.44	1,105.66	-38.87	5,343.58	5,266.01	77.57	68.891		
13,000.00	6,961.95	6,450.00	6,366.93	198.65	29.93	53.44	1,105.66	-38.87	5,441.44	5,363.85	77.59	70.134		
13,100.00	6,960.72	6,450.00	6,366.93	201.91	29.93	53.44	1,105.66	-38.87	5,539.38	5,461.77	77.61	71.376		
13,200.00	6,959.48	6,450.00	6,366.93	205.18	29.93	53.44	1,105.66	-38.87	5,637.39	5,559.76	77.63	72.617		
13,300.00	6,958.25	6,450.00	6,366.93	208.45	29.93	53.44	1,105.66	-38.87	5,735.47	5,657.81	77.66	73.858		
13,400.00	6,957.02	6,450.00	6,366.93	211.72	29.93	53.44	1,105.66	-38.87	5,833.61	5,755.93	77.68	75.097		
13,500.00	6,955.78	6,450.00	6,366.93	214.99	29.93	53.44	1,105.66	-38.87	5,931.82	5,854.11	77.71	76.336		
13,600.00	6,954.55	6,450.00	6,366.93	218.27	29.93	53.44	1,105.66	-38.87	6,030.08	5,952.35	77.73	77.573		
13,700.00	6,953.32	6,450.00	6,366.93	221.54	29.93	53.44	1,105.66	-38.87	6,128.40	6,050.64	77.76	78.810		
13,800.00	6,952.08	6,450.00	6,366.93	224.82	29.93	53.44	1,105.66	-38.87	6,226.78	6,148.98	77.79	80.045		
13,900.00	6,950.85	6,450.00	6,366.93	228.10	29.93	53.44	1,105.66	-38.87	6,325.20	6,247.38	77.82	81.279		
14,000.00	6,949.61	6,450.00	6,366.93	231.37	29.93	53.44	1,105.66	-38.87	6,423.68	6,345.82	77.85	82.511		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - Boomerang 25N-3B-L - OH - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
14,100.00	6,948.38	6,450.00	6,366.93	234.65	29.93	53.44	1,105.66	-38.87	6,522.20	6,444.31	77.88	83.742		
14,200.00	6,947.15	6,450.00	6,366.93	237.93	29.93	53.44	1,105.66	-38.87	6,620.76	6,542.84	77.92	84.971		
14,300.00	6,945.91	6,450.00	6,366.93	241.22	29.93	53.44	1,105.66	-38.87	6,719.37	6,641.42	77.95	86.199		
14,400.00	6,944.68	6,450.00	6,366.93	244.50	29.93	53.44	1,105.66	-38.87	6,818.02	6,740.03	77.99	87.425		
14,500.00	6,943.45	6,450.00	6,366.93	247.78	29.93	53.44	1,105.66	-38.87	6,916.70	6,838.68	78.02	88.649		
14,600.00	6,942.21	6,450.00	6,366.93	251.07	29.93	53.44	1,105.66	-38.87	7,015.43	6,937.37	78.06	89.872		
14,700.00	6,940.98	6,450.00	6,366.93	254.35	29.93	53.44	1,105.66	-38.87	7,114.19	7,036.09	78.10	91.093		
14,800.00	6,939.74	6,450.00	6,366.93	257.64	29.93	53.44	1,105.66	-38.87	7,212.98	7,134.84	78.14	92.311		
14,900.00	6,938.51	6,450.00	6,366.93	260.92	29.93	53.44	1,105.66	-38.87	7,311.81	7,233.63	78.18	93.528		
15,000.00	6,937.28	6,450.00	6,366.93	264.21	29.93	53.44	1,105.66	-38.87	7,410.66	7,332.45	78.22	94.743		
15,100.00	6,936.04	6,450.00	6,366.93	267.50	29.93	53.44	1,105.66	-38.87	7,509.55	7,431.29	78.26	95.956		
15,200.00	6,934.81	6,450.00	6,366.93	270.79	29.93	53.44	1,105.66	-38.87	7,608.47	7,530.17	78.30	97.167		
15,300.00	6,933.58	6,450.00	6,366.93	274.08	29.93	53.44	1,105.66	-38.87	7,707.41	7,629.07	78.35	98.376		
15,400.00	6,932.34	6,450.00	6,366.93	277.37	29.93	53.44	1,105.66	-38.87	7,806.39	7,728.00	78.39	99.582		
15,500.00	6,931.11	6,450.00	6,366.93	280.66	29.93	53.44	1,105.66	-38.87	7,905.39	7,826.95	78.44	100.786		
15,589.88	6,930.00	6,450.00	6,366.93	283.62	29.93	53.44	1,105.66	-38.87	7,994.39	7,915.91	78.48	101.867		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.41	-119.49	-11.69	120.07					
100.00	100.00	100.00	100.00	3.28	3.28	-174.41	-119.49	-11.69	120.07	113.50	6.57	18.276		
200.00	200.00	200.00	200.00	3.34	3.34	-174.41	-119.49	-11.69	120.07	113.39	6.67	17.990 CC, ES		
300.00	299.98	295.93	295.92	3.44	3.43	113.23	-121.05	-12.08	122.40	115.51	6.89	17.769 SF		
400.00	399.84	391.36	391.22	3.60	3.58	115.41	-125.70	-13.22	129.55	122.33	7.21	17.956		
500.00	499.45	485.80	485.33	3.81	3.76	118.51	-133.33	-15.10	141.83	134.19	7.64	18.558		
600.00	598.70	578.78	577.68	4.08	3.98	121.98	-143.78	-17.67	159.59	151.44	8.15	19.574		
700.00	697.47	669.87	667.76	4.40	4.23	125.35	-156.83	-20.88	183.04	174.31	8.73	20.970		
774.77	770.92	736.49	733.36	4.68	4.43	127.63	-168.13	-23.66	204.32	195.13	9.19	22.227		
800.00	795.65	758.68	755.15	4.78	4.50	128.46	-172.23	-24.67	212.15	202.79	9.35	22.680		
900.00	893.64	845.60	840.15	5.20	4.80	131.12	-189.83	-29.00	245.32	235.32	9.99	24.552		
1,000.00	991.63	930.76	922.86	5.66	5.12	133.00	-209.51	-33.84	281.62	270.97	10.65	26.443		
1,100.00	1,089.63	1,014.06	1,003.15	6.15	5.46	134.33	-231.05	-39.14	320.77	309.45	11.32	28.342		
1,200.00	1,187.62	1,095.43	1,080.92	6.65	5.81	135.25	-254.28	-44.86	362.57	350.58	11.99	30.239		
1,300.00	1,285.62	1,174.81	1,156.11	7.17	6.18	135.88	-278.99	-50.94	406.86	394.19	12.66	32.129		
1,400.00	1,383.61	1,254.73	1,231.09	7.71	6.56	136.30	-305.85	-57.55	453.44	440.09	13.35	33.965		
1,500.00	1,481.60	1,342.81	1,313.48	8.25	7.01	136.66	-336.08	-64.99	500.73	486.61	14.12	35.467		
1,600.00	1,579.60	1,430.88	1,395.87	8.80	7.47	136.95	-366.31	-72.43	548.03	533.12	14.91	36.760		
1,700.00	1,677.59	1,518.95	1,478.25	9.36	7.94	137.20	-396.54	-79.87	595.34	579.63	15.72	37.879		
1,800.00	1,775.59	1,607.03	1,560.64	9.92	8.42	137.41	-426.77	-87.31	642.66	626.12	16.54	38.851		
1,900.00	1,873.58	1,695.10	1,643.03	10.49	8.90	137.59	-457.00	-94.74	689.98	672.60	17.38	39.699		
2,000.00	1,971.57	1,783.18	1,725.42	11.06	9.40	137.75	-487.23	-102.18	737.31	719.08	18.23	40.443		
2,100.00	2,069.57	1,871.25	1,807.81	11.64	9.89	137.89	-517.46	-109.62	784.64	765.55	19.09	41.100		
2,200.00	2,167.56	1,959.32	1,890.20	12.22	10.40	138.02	-547.69	-117.06	831.98	812.02	19.96	41.681		
2,300.00	2,265.56	2,047.40	1,972.58	12.80	10.90	138.13	-577.92	-124.50	879.32	858.48	20.84	42.198		
2,400.00	2,363.55	2,135.47	2,054.97	13.38	11.41	138.22	-608.15	-131.94	926.66	904.94	21.72	42.660		
2,500.00	2,461.54	2,223.55	2,137.36	13.97	11.93	138.31	-638.38	-139.38	974.00	951.39	22.61	43.075		
2,600.00	2,559.54	2,311.62	2,219.75	14.55	12.44	138.40	-668.61	-146.82	1,021.34	997.84	23.51	43.449		
2,700.00	2,657.53	2,399.69	2,302.14	15.14	12.96	138.47	-698.84	-154.26	1,068.69	1,044.28	24.41	43.787		
2,800.00	2,755.53	2,487.77	2,384.52	15.73	13.48	138.54	-729.07	-161.69	1,116.03	1,090.72	25.31	44.093		
2,900.00	2,853.52	2,575.84	2,466.91	16.32	14.00	138.60	-759.30	-169.13	1,163.38	1,137.16	26.22	44.372		
3,000.00	2,951.52	2,663.92	2,549.30	16.91	14.52	138.66	-789.53	-176.57	1,210.73	1,183.60	27.13	44.626		
3,100.00	3,049.51	2,751.99	2,631.69	17.51	15.05	138.71	-819.76	-184.01	1,258.08	1,230.04	28.04	44.860		
3,200.00	3,147.50	2,840.06	2,714.08	18.10	15.57	138.76	-849.99	-191.45	1,305.43	1,276.47	28.96	45.074		
3,300.00	3,245.50	2,928.14	2,796.46	18.70	16.10	138.80	-880.22	-198.89	1,352.78	1,322.90	29.88	45.271		
3,400.00	3,343.49	3,016.21	2,878.85	19.29	16.63	138.85	-910.45	-206.33	1,400.13	1,369.33	30.80	45.453		
3,500.00	3,441.49	3,104.28	2,961.24	19.89	17.16	138.89	-940.68	-213.77	1,447.49	1,415.76	31.73	45.622		
3,600.00	3,539.48	3,207.64	3,043.63	20.48	17.78	138.92	-970.91	-221.21	1,494.84	1,462.10	32.73	45.665		
3,700.00	3,637.47	3,280.43	3,126.02	21.08	18.22	138.96	-1,001.14	-228.64	1,542.19	1,508.61	33.58	45.923		
3,800.00	3,735.47	3,368.51	3,208.41	21.68	18.75	138.99	-1,031.37	-236.08	1,589.55	1,555.03	34.51	46.058		
3,900.00	3,833.46	3,456.58	3,290.79	22.27	19.28	139.02	-1,061.60	-243.52	1,636.90	1,601.46	35.44	46.184		
4,000.00	3,931.46	3,544.65	3,373.18	22.87	19.82	139.05	-1,091.83	-250.96	1,684.25	1,647.88	36.38	46.302		
4,100.00	4,029.45	3,632.73	3,455.57	23.47	20.35	139.08	-1,122.06	-258.40	1,731.61	1,694.30	37.31	46.413		
4,200.00	4,127.44	3,720.81	3,537.06	24.07	21.32	139.16	-1,152.29	-265.84	1,777.82	1,738.77	38.24	46.526		
4,300.00	4,225.44	3,808.89	3,618.55	24.67	22.53	139.24	-1,182.52	-273.28	1,824.03	1,784.98	39.17	46.640		
4,400.00	4,323.43	3,896.97	3,700.04	25.27	23.68	139.32	-1,212.75	-280.72	1,870.24	1,831.19	40.10	46.754		
4,507.81	4,429.08	4,518.54	4,316.94	25.92	24.81	140.67	-1,307.63	-304.06	1,879.17	1,834.26	44.91	41.845		
4,600.00	4,519.70	4,721.42	4,519.70	26.45	25.51	141.53	-1,313.31	-305.46	1,894.57	1,848.58	46.00	41.190		
4,700.00	4,618.56	4,820.28	4,618.56	26.98	25.80	141.96	-1,313.31	-305.46	1,906.43	1,859.65	46.79	40.745		
4,800.00	4,717.88	4,919.60	4,717.88	27.46	26.10	142.28	-1,313.31	-305.46	1,915.60	1,868.04	47.56	40.274		
4,900.00	4,817.54	5,019.27	4,817.54	27.89	26.40	142.51	-1,313.31	-305.46	1,922.03	1,873.71	48.32	39.776		
5,000.00	4,917.43	5,119.15	4,917.43	28.28	26.71	142.64	-1,313.31	-305.46	1,925.71	1,876.65	49.06	39.252		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,201.72	5,000.00	28.57	26.96	-144.18	-1,313.31	-305.46	1,926.65	1,877.00	49.65	38.802		
5,100.00	5,017.42	5,219.14	5,017.42	28.62	27.02	-144.18	-1,313.31	-305.46	1,926.65	1,876.88	49.78	38.706		
5,200.00	5,117.42	5,319.14	5,117.42	28.95	27.33	-144.18	-1,313.31	-305.46	1,926.65	1,876.17	50.49	38.163		
5,300.00	5,217.42	5,419.14	5,217.42	29.28	27.65	-144.18	-1,313.31	-305.46	1,926.65	1,875.46	51.20	37.630		
5,400.00	5,317.42	5,519.14	5,317.42	29.62	27.97	-144.18	-1,313.31	-305.46	1,926.65	1,874.74	51.92	37.109		
5,500.00	5,417.42	5,619.14	5,417.42	29.96	28.30	-144.18	-1,313.31	-305.46	1,926.65	1,874.01	52.64	36.598		
5,600.00	5,517.42	5,719.14	5,517.42	30.29	28.62	-144.18	-1,313.31	-305.46	1,926.65	1,873.28	53.37	36.099		
5,700.00	5,617.42	5,819.14	5,617.42	30.64	28.95	-144.18	-1,313.31	-305.46	1,926.65	1,872.55	54.11	35.609		
5,800.00	5,717.42	5,919.14	5,717.42	30.98	29.29	-144.18	-1,313.31	-305.46	1,926.65	1,871.81	54.84	35.131		
5,900.00	5,817.42	6,019.14	5,817.42	31.33	29.62	-144.18	-1,313.31	-305.46	1,926.65	1,871.07	55.58	34.662		
6,000.00	5,917.42	6,119.14	5,917.42	31.68	29.96	-144.18	-1,313.31	-305.46	1,926.65	1,870.32	56.33	34.203		
6,100.00	6,017.42	6,219.14	6,017.42	32.03	30.30	-144.18	-1,313.31	-305.46	1,926.65	1,869.58	57.08	33.754		
6,200.00	6,117.42	6,288.77	6,229.53	32.38	43.15	179.86	-1,309.68	825.81	1,914.76	1,855.54	59.22	32.333		
6,300.00	6,217.42	6,288.87	6,229.53	32.74	43.15	179.86	-1,309.68	825.92	1,858.46	1,797.05	61.41	30.265		
6,400.00	6,317.42	6,288.98	6,229.53	33.09	43.16	179.85	-1,309.68	826.03	1,805.95	1,742.33	63.62	28.388		
6,476.01	6,393.43	6,289.06	6,229.53	33.37	43.16	179.85	-1,309.68	826.11	1,768.78	1,703.48	65.30	27.088		
6,500.00	6,417.42	6,288.63	6,229.53	33.45	43.15	-88.94	-1,309.68	825.68	1,757.55	1,691.74	65.81	26.705		
6,550.00	6,467.25	6,284.85	6,229.52	33.59	43.08	-91.09	-1,309.70	821.90	1,734.95	1,668.15	66.80	25.971		
6,600.00	6,516.64	6,277.16	6,229.52	33.71	42.94	-92.94	-1,309.72	814.21	1,713.56	1,645.88	67.68	25.318		
6,650.00	6,565.26	6,265.63	6,229.50	33.80	42.73	-94.49	-1,309.76	802.68	1,693.51	1,625.07	68.44	24.745		
6,700.00	6,612.83	6,250.32	6,229.49	33.88	42.45	-95.76	-1,309.81	787.37	1,674.88	1,605.81	69.07	24.249		
6,750.00	6,659.04	6,231.33	6,229.47	33.94	42.10	-96.76	-1,309.87	768.38	1,657.74	1,588.17	69.57	23.828		
6,800.00	6,703.62	6,208.77	6,229.44	33.99	41.69	-97.50	-1,309.94	745.82	1,642.13	1,572.18	69.95	23.477		
6,850.00	6,746.28	6,182.78	6,229.42	34.03	41.24	-98.02	-1,310.02	719.83	1,628.03	1,557.81	70.21	23.187		
6,900.00	6,786.76	6,153.53	6,229.38	34.08	40.74	-98.33	-1,310.12	690.58	1,615.41	1,545.03	70.37	22.954		
6,950.00	6,824.83	6,121.19	6,229.35	34.13	40.19	-98.47	-1,310.22	658.24	1,604.21	1,533.78	70.43	22.778		
7,000.00	6,860.23	6,085.96	6,229.31	34.20	39.61	-98.47	-1,310.33	623.01	1,594.35	1,523.95	70.41	22.645		
7,050.00	6,892.75	6,048.06	6,229.27	34.30	39.02	-98.36	-1,310.46	585.11	1,585.74	1,515.41	70.33	22.546		
7,100.00	6,922.20	6,007.73	6,229.23	34.43	38.40	-98.18	-1,310.59	544.78	1,578.26	1,508.06	70.20	22.483		
7,150.00	6,948.38	5,965.21	6,229.18	34.60	37.80	-97.96	-1,310.72	502.26	1,571.79	1,501.73	70.07	22.433		
7,200.00	6,971.15	5,920.76	6,229.14	34.82	37.19	-97.73	-1,310.86	457.81	1,566.23	1,496.32	69.92	22.401		
7,250.00	6,990.35	5,874.66	6,229.09	35.09	36.62	-97.52	-1,311.01	411.71	1,561.47	1,491.68	69.79	22.373		
7,300.00	7,005.87	5,827.20	6,229.04	35.43	36.09	-97.36	-1,311.17	364.25	1,557.40	1,487.70	69.70	22.345		
7,350.00	7,017.62	5,771.32	6,228.99	35.81	35.54	-97.19	-1,311.34	308.38	1,553.91	1,484.37	69.54	22.345		
7,400.00	7,025.52	5,699.93	6,228.93	36.26	35.02	-96.86	-1,311.57	237.32	1,550.44	1,481.11	69.33	22.363		
7,450.00	7,029.52	5,631.24	6,208.28	36.75	34.68	-96.49	-1,311.79	170.06	1,546.86	1,477.55	69.31	22.319		
7,483.86	7,030.00	5,586.27	6,195.38	37.12	34.53	-96.21	-1,311.93	126.99	1,544.41	1,475.03	69.39	22.259		
7,500.00	7,029.80	5,565.37	6,188.35	37.30	34.47	-95.97	-1,311.99	107.31	1,543.23	1,473.78	69.45	22.220		
7,600.00	7,028.57	5,447.38	6,136.89	38.58	34.21	-94.12	-1,312.33	1.32	1,535.39	1,465.10	70.29	21.844		
7,700.00	7,027.34	5,350.37	6,080.52	40.10	34.00	-92.05	-1,312.58	-77.51	1,527.98	1,456.32	71.66	21.323		
7,800.00	7,026.10	5,272.60	6,027.08	41.83	33.82	-90.06	-1,312.76	-133.95	1,522.66	1,449.30	73.35	20.758		
7,898.13	7,024.89	5,211.61	6,980.60	43.71	33.67	-88.33	-1,312.89	-173.39	1,520.71	1,445.51	75.20	20.223		
7,900.00	7,024.87	5,210.58	6,979.78	43.74	33.67	-88.30	-1,312.89	-174.02	1,520.71	1,445.48	75.23	20.214		
8,000.00	7,023.63	5,160.84	6,939.17	45.82	33.53	-86.78	-1,312.98	-202.72	1,523.07	1,445.85	77.22	19.723		
8,100.00	7,022.40	5,120.53	6,904.69	48.04	33.41	-85.50	-1,313.05	-223.59	1,530.33	1,451.07	79.26	19.307		
8,200.00	7,021.17	5,087.45	6,875.45	50.38	33.32	-84.41	-1,313.10	-239.07	1,542.86	1,461.55	81.30	18.977		
8,300.00	7,019.93	5,059.94	6,850.56	52.82	33.23	-83.48	-1,313.14	-250.76	1,560.81	1,477.52	83.29	18.739		
8,400.00	7,018.70	5,036.79	6,829.24	55.35	33.16	-82.69	-1,313.17	-259.76	1,584.22	1,499.03	85.19	18.596		
8,500.00	7,017.47	5,017.10	6,810.84	57.97	33.09	-82.01	-1,313.19	-266.80	1,613.00	1,526.02	86.98	18.545		
8,600.00	7,016.23	5,000.00	6,794.71	60.65	33.03	-81.41	-1,313.21	-272.46	1,646.95	1,558.33	88.62	18.585		
8,700.00	7,015.00	4,985.46	6,780.87	63.39	32.99	-80.90	-1,313.22	-276.92	1,685.85	1,595.74	90.11	18.709		
8,800.00	7,013.76	4,972.60	6,768.55	66.19	32.94	-80.45	-1,313.23	-280.60	1,729.42	1,637.97	91.44	18.912		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	6,950.00	6,746.73	69.03	32.86	-79.65	-1,313.25	-286.47	1,777.44	1,684.88	92.57	19.202		
9,000.00	7,011.30	6,950.00	6,746.73	71.91	32.86	-79.65	-1,313.25	-286.47	1,829.34	1,735.69	93.65	19.534		
9,100.00	7,010.06	6,950.00	6,746.73	74.83	32.86	-79.65	-1,313.25	-286.47	1,885.13	1,790.54	94.59	19.930		
9,200.00	7,008.83	6,934.11	6,731.26	77.78	32.81	-79.09	-1,313.27	-290.13	1,944.26	1,848.94	95.32	20.398		
9,300.00	7,007.60	6,926.81	6,724.13	80.76	32.78	-78.83	-1,313.27	-291.68	2,006.59	1,910.62	95.97	20.909		
9,400.00	7,006.36	6,920.19	6,717.64	83.76	32.76	-78.59	-1,313.27	-293.02	2,071.80	1,975.29	96.51	21.466		
9,500.00	7,005.13	6,900.00	6,697.79	86.79	32.69	-77.88	-1,313.29	-296.67	2,139.80	2,042.90	96.90	22.082		
9,600.00	7,003.90	6,900.00	6,697.79	89.84	32.69	-77.88	-1,313.29	-296.67	2,209.93	2,112.62	97.31	22.710		
9,700.00	7,002.66	6,900.00	6,697.79	92.90	32.69	-77.88	-1,313.29	-296.67	2,282.28	2,184.64	97.64	23.375		
9,800.00	7,001.43	6,900.00	6,697.79	95.99	32.69	-77.88	-1,313.29	-296.67	2,356.66	2,258.76	97.91	24.070		
9,900.00	7,000.19	6,900.00	6,697.79	99.08	32.69	-77.88	-1,313.29	-296.67	2,432.88	2,334.76	98.12	24.795		
10,000.00	6,998.96	6,900.00	6,697.79	102.19	32.69	-77.88	-1,313.29	-296.67	2,510.76	2,412.48	98.29	25.546		
10,100.00	6,997.73	6,900.00	6,697.79	105.32	32.69	-77.88	-1,313.29	-296.67	2,590.17	2,491.76	98.41	26.320		
10,200.00	6,996.49	6,900.00	6,697.79	108.45	32.69	-77.88	-1,313.29	-296.67	2,670.96	2,572.45	98.50	27.115		
10,300.00	6,995.26	6,880.16	6,678.18	111.60	32.62	-77.17	-1,313.30	-299.65	2,752.67	2,654.17	98.50	27.945		
10,400.00	6,994.03	6,877.13	6,675.18	114.75	32.61	-77.06	-1,313.30	-300.06	2,835.76	2,737.23	98.54	28.779		
10,500.00	6,992.79	6,874.29	6,672.36	117.92	32.60	-76.96	-1,313.30	-300.42	2,919.90	2,821.35	98.55	29.629		
10,600.00	6,991.56	6,871.62	6,669.71	121.09	32.59	-76.87	-1,313.30	-300.75	3,005.00	2,906.45	98.55	30.493		
10,700.00	6,990.33	6,850.00	6,648.21	124.27	32.51	-76.10	-1,313.31	-303.01	3,091.29	2,992.83	98.46	31.396		
10,800.00	6,989.09	6,850.00	6,648.21	127.46	32.51	-76.10	-1,313.31	-303.01	3,178.01	3,079.56	98.45	32.282		
10,900.00	6,987.86	6,850.00	6,648.21	130.65	32.51	-76.10	-1,313.31	-303.01	3,265.48	3,167.06	98.42	33.179		
11,000.00	6,986.62	6,850.00	6,648.21	133.85	32.51	-76.10	-1,313.31	-303.01	3,353.66	3,255.27	98.38	34.087		
11,100.00	6,985.39	6,850.00	6,648.21	137.06	32.51	-76.10	-1,313.31	-303.01	3,442.48	3,344.14	98.34	35.005		
11,200.00	6,984.16	6,850.00	6,648.21	140.27	32.51	-76.10	-1,313.31	-303.01	3,531.90	3,433.61	98.30	35.931		
11,300.00	6,982.92	6,850.00	6,648.21	143.48	32.51	-76.10	-1,313.31	-303.01	3,621.87	3,523.63	98.24	36.866		
11,400.00	6,981.69	6,850.00	6,648.21	146.70	32.51	-76.10	-1,313.31	-303.01	3,712.36	3,614.17	98.19	37.808		
11,500.00	6,980.46	6,850.00	6,648.21	149.92	32.51	-76.10	-1,313.31	-303.01	3,803.32	3,705.19	98.13	38.757		
11,600.00	6,979.22	6,850.00	6,648.21	153.15	32.51	-76.10	-1,313.31	-303.01	3,894.73	3,796.66	98.08	39.712		
11,700.00	6,977.99	6,850.00	6,648.21	156.38	32.51	-76.10	-1,313.31	-303.01	3,986.55	3,888.53	98.02	40.673		
11,800.00	6,976.75	6,850.00	6,648.21	159.62	32.51	-76.10	-1,313.31	-303.01	4,078.75	3,980.80	97.96	41.639		
11,900.00	6,975.52	6,850.00	6,648.21	162.86	32.51	-76.10	-1,313.31	-303.01	4,171.32	4,073.42	97.89	42.610		
12,000.00	6,974.29	6,850.00	6,648.21	166.10	32.51	-76.10	-1,313.31	-303.01	4,264.21	4,166.38	97.83	43.586		
12,100.00	6,973.05	6,850.00	6,648.21	169.34	32.51	-76.10	-1,313.31	-303.01	4,357.43	4,259.65	97.77	44.566		
12,200.00	6,971.82	6,850.00	6,648.21	172.59	32.51	-76.10	-1,313.31	-303.01	4,450.94	4,353.22	97.72	45.550		
12,300.00	6,970.59	6,850.00	6,648.21	175.84	32.51	-76.10	-1,313.31	-303.01	4,544.72	4,447.06	97.66	46.537		
12,400.00	6,969.35	6,850.00	6,648.21	179.09	32.51	-76.10	-1,313.31	-303.01	4,638.76	4,541.16	97.60	47.528		
12,500.00	6,968.12	6,850.00	6,648.21	182.35	32.51	-76.10	-1,313.31	-303.01	4,733.05	4,635.51	97.54	48.522		
12,600.00	6,966.89	6,850.00	6,648.21	185.60	32.51	-76.10	-1,313.31	-303.01	4,827.57	4,730.08	97.49	49.518		
12,700.00	6,965.65	6,850.00	6,648.21	188.86	32.51	-76.10	-1,313.31	-303.01	4,922.30	4,824.87	97.44	50.517		
12,800.00	6,964.42	6,850.00	6,648.21	192.12	32.51	-76.10	-1,313.31	-303.01	5,017.24	4,919.86	97.39	51.519		
12,900.00	6,963.18	6,850.00	6,648.21	195.38	32.51	-76.10	-1,313.31	-303.01	5,112.38	5,015.04	97.34	52.522		
13,000.00	6,961.95	6,850.00	6,648.21	198.65	32.51	-76.10	-1,313.31	-303.01	5,207.69	5,110.40	97.29	53.528		
13,100.00	6,960.72	6,850.00	6,648.21	201.91	32.51	-76.10	-1,313.31	-303.01	5,303.18	5,205.93	97.24	54.535		
13,200.00	6,959.48	6,850.00	6,648.21	205.18	32.51	-76.10	-1,313.31	-303.01	5,398.83	5,301.63	97.20	55.544		
13,300.00	6,958.25	6,850.00	6,648.21	208.45	32.51	-76.10	-1,313.31	-303.01	5,494.63	5,397.47	97.16	56.554		
13,400.00	6,957.02	6,850.00	6,648.21	211.72	32.51	-76.10	-1,313.31	-303.01	5,590.58	5,493.47	97.12	57.565		
13,500.00	6,955.78	6,850.00	6,648.21	214.99	32.51	-76.10	-1,313.31	-303.01	5,686.68	5,589.60	97.08	58.578		
13,600.00	6,954.55	6,850.00	6,648.21	218.27	32.51	-76.10	-1,313.31	-303.01	5,782.90	5,685.86	97.04	59.592		
13,700.00	6,953.32	6,850.00	6,648.21	221.54	32.51	-76.10	-1,313.31	-303.01	5,879.25	5,782.24	97.01	60.607		
13,800.00	6,952.08	6,850.00	6,648.21	224.82	32.51	-76.10	-1,313.31	-303.01	5,975.72	5,878.75	96.97	61.622		
13,900.00	6,950.85	6,850.00	6,648.21	228.10	32.51	-76.10	-1,313.31	-303.01	6,072.30	5,975.36	96.94	62.638		
14,000.00	6,949.61	6,850.00	6,648.21	231.37	32.51	-76.10	-1,313.31	-303.01	6,169.00	6,072.08	96.91	63.655		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - Boomerang 28C-3-L - OH - Plan #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,100.00	6,948.38	6,827.60	6,625.86	234.65	32.43	-75.30	-1,313.31	-304.58	6,265.37	6,168.54	96.83	64.703	
14,200.00	6,947.15	6,827.00	6,625.26	237.93	32.43	-75.28	-1,313.31	-304.61	6,362.24	6,265.44	96.81	65.721	
14,300.00	6,945.91	6,826.42	6,624.68	241.22	32.42	-75.26	-1,313.31	-304.64	6,459.21	6,362.43	96.78	66.740	
14,400.00	6,944.68	6,825.85	6,624.11	244.50	32.42	-75.24	-1,313.31	-304.67	6,556.27	6,459.51	96.76	67.760	
14,500.00	6,943.45	6,825.30	6,623.56	247.78	32.42	-75.22	-1,313.31	-304.70	6,653.41	6,556.68	96.74	68.779	
14,600.00	6,942.21	6,824.76	6,623.03	251.07	32.42	-75.20	-1,313.31	-304.72	6,750.64	6,653.93	96.72	69.798	
14,700.00	6,940.98	6,824.24	6,622.50	254.35	32.42	-75.18	-1,313.31	-304.75	6,847.95	6,751.25	96.70	70.818	
14,800.00	6,939.74	6,823.73	6,622.00	257.64	32.41	-75.17	-1,313.31	-304.77	6,945.33	6,848.65	96.68	71.837	
14,900.00	6,938.51	6,823.23	6,621.50	260.92	32.41	-75.15	-1,313.31	-304.80	7,042.79	6,946.12	96.67	72.856	
15,000.00	6,937.28	6,822.75	6,621.02	264.21	32.41	-75.13	-1,313.31	-304.82	7,140.31	7,043.66	96.65	73.875	
15,100.00	6,936.04	6,800.00	6,598.28	267.50	32.33	-74.33	-1,313.31	-305.44	7,238.33	7,141.74	96.59	74.941	
15,200.00	6,934.81	6,800.00	6,598.28	270.79	32.33	-74.33	-1,313.31	-305.44	7,335.97	7,239.39	96.58	75.959	
15,300.00	6,933.58	6,800.00	6,598.28	274.08	32.33	-74.33	-1,313.31	-305.44	7,433.67	7,337.10	96.57	76.976	
15,400.00	6,932.34	6,800.00	6,598.28	277.37	32.33	-74.33	-1,313.31	-305.44	7,531.43	7,434.87	96.57	77.993	
15,500.00	6,931.11	6,800.00	6,598.28	280.66	32.33	-74.33	-1,313.31	-305.44	7,629.26	7,532.69	96.56	79.009	
15,589.88	6,930.00	6,800.00	6,598.28	283.62	32.33	-74.33	-1,313.31	-305.44	7,717.23	7,620.67	96.56	79.923	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.37	-104.55	-10.30	105.06					
100.00	100.00	100.00	100.00	3.28	3.28	-174.37	-104.55	-10.30	105.06	98.49	6.57	15.992		
200.00	200.00	200.00	200.00	3.34	3.34	-174.37	-104.55	-10.30	105.06	98.39	6.67	15.742 CC, ES		
300.00	299.98	296.44	296.42	3.44	3.44	113.44	-106.11	-10.77	107.40	100.51	6.89	15.589 SF		
400.00	399.84	392.36	392.21	3.60	3.58	116.05	-110.73	-12.18	114.57	107.36	7.22	15.876		
500.00	499.45	487.24	486.76	3.81	3.77	119.70	-118.32	-14.49	127.00	119.35	7.65	16.609		
600.00	598.70	580.61	579.49	4.08	3.99	123.66	-128.70	-17.66	145.07	136.91	8.16	17.781		
700.00	697.47	672.67	670.53	4.40	4.24	127.43	-141.74	-21.63	168.99	160.26	8.73	19.358		
774.77	770.92	743.94	740.88	4.68	4.45	130.14	-152.66	-24.96	189.64	180.46	9.18	20.658		
800.00	795.65	767.89	764.53	4.78	4.53	131.10	-156.32	-26.08	196.91	187.58	9.34	21.090		
900.00	893.64	862.85	858.26	5.20	4.85	134.29	-170.86	-30.51	226.16	216.19	9.97	22.679		
1,000.00	991.63	957.81	951.99	5.66	5.19	136.75	-185.40	-34.94	255.91	245.25	10.66	24.015		
1,100.00	1,089.63	1,052.76	1,045.73	6.15	5.54	138.70	-199.94	-39.37	286.00	274.63	11.37	25.147		
1,200.00	1,187.62	1,147.72	1,139.46	6.65	5.92	140.28	-214.48	-43.80	316.34	304.22	12.12	26.106		
1,300.00	1,285.62	1,242.68	1,233.19	7.17	6.30	141.58	-229.01	-48.23	346.86	333.97	12.88	26.920		
1,400.00	1,383.61	1,337.63	1,326.92	7.71	6.69	142.68	-243.55	-52.66	377.51	363.84	13.67	27.613		
1,500.00	1,481.60	1,432.59	1,420.65	8.25	7.09	143.61	-258.09	-57.09	408.28	393.80	14.47	28.207		
1,600.00	1,579.60	1,527.54	1,514.39	8.80	7.50	144.41	-272.63	-61.52	439.12	423.83	15.29	28.719		
1,700.00	1,677.59	1,622.50	1,608.12	9.36	7.91	145.10	-287.16	-65.96	470.04	453.92	16.12	29.163		
1,800.00	1,775.59	1,717.46	1,701.85	9.92	8.33	145.71	-301.70	-70.39	501.01	484.05	16.96	29.549		
1,900.00	1,873.58	1,812.41	1,795.58	10.49	8.75	146.25	-316.24	-74.82	532.02	514.22	17.80	29.887		
2,000.00	1,971.57	1,907.37	1,889.31	11.06	9.18	146.73	-330.78	-79.25	563.08	544.42	18.65	30.185		
2,100.00	2,069.57	2,002.33	1,983.05	11.64	9.61	147.16	-345.32	-83.68	594.16	574.65	19.51	30.449		
2,200.00	2,167.56	2,102.72	2,076.78	12.22	10.06	147.55	-359.85	-88.11	625.28	604.87	20.40	30.648		
2,300.00	2,265.56	2,207.76	2,170.51	12.80	10.54	147.90	-374.39	-92.54	656.41	635.10	21.32	30.794		
2,400.00	2,363.55	2,287.19	2,264.24	13.38	10.91	148.22	-388.93	-96.97	687.57	665.45	22.12	31.081		
2,500.00	2,461.54	2,382.15	2,357.98	13.97	11.35	148.51	-403.47	-101.40	718.74	695.74	23.00	31.250		
2,600.00	2,559.54	2,477.11	2,451.71	14.55	11.79	148.77	-418.01	-105.83	749.93	726.05	23.88	31.403		
2,700.00	2,657.53	2,572.06	2,545.44	15.14	12.23	149.02	-432.54	-110.26	781.13	756.37	24.76	31.542		
2,800.00	2,755.53	2,667.02	2,639.17	15.73	12.67	149.25	-447.08	-114.69	812.35	786.70	25.65	31.669		
2,900.00	2,853.52	2,761.98	2,732.90	16.32	13.11	149.46	-461.62	-119.13	843.57	817.03	26.54	31.784		
3,000.00	2,951.52	2,856.93	2,826.64	16.91	13.56	149.65	-476.16	-123.56	874.81	847.37	27.43	31.890		
3,100.00	3,049.51	2,951.89	2,920.37	17.51	14.00	149.83	-490.69	-127.99	906.05	877.72	28.33	31.987		
3,200.00	3,147.50	3,046.84	3,014.10	18.10	14.45	150.00	-505.23	-132.42	937.30	908.08	29.22	32.077		
3,300.00	3,245.50	3,141.80	3,107.83	18.70	14.89	150.16	-519.77	-136.85	968.56	938.44	30.12	32.160		
3,400.00	3,343.49	3,236.76	3,201.56	19.29	15.34	150.31	-534.31	-141.28	999.82	968.81	31.02	32.236		
3,500.00	3,441.49	3,331.71	3,295.30	19.89	15.79	150.45	-548.85	-145.71	1,031.09	999.18	31.92	32.307		
3,600.00	3,539.48	3,426.67	3,389.03	20.48	16.24	150.58	-563.38	-150.14	1,062.37	1,029.55	32.82	32.373		
3,700.00	3,637.47	3,521.63	3,482.76	21.08	16.69	150.70	-577.92	-154.57	1,093.65	1,059.93	33.72	32.435		
3,800.00	3,735.47	3,616.58	3,576.49	21.68	17.14	150.82	-592.46	-159.00	1,124.93	1,090.31	34.62	32.493		
3,900.00	3,833.46	3,711.54	3,670.22	22.27	17.59	150.93	-607.00	-163.43	1,156.22	1,120.69	35.53	32.546		
4,000.00	3,931.46	3,806.49	3,763.96	22.87	18.04	151.04	-621.54	-167.86	1,187.51	1,151.08	36.43	32.597		
4,100.00	4,029.45	3,901.45	3,857.69	23.47	18.49	151.14	-636.07	-172.29	1,218.81	1,181.47	37.34	32.644		
4,200.00	4,127.44	4,003.59	3,951.42	24.07	18.98	151.23	-650.61	-176.73	1,250.10	1,211.83	38.28	32.660		
4,300.00	4,225.44	4,108.64	4,045.15	24.67	19.48	151.32	-665.15	-181.16	1,281.40	1,242.17	39.23	32.664		
4,400.00	4,323.43	4,186.32	4,138.88	25.27	19.85	151.41	-679.69	-185.59	1,312.71	1,272.65	40.06	32.769		
4,507.81	4,429.08	4,288.69	4,239.94	25.92	20.34	151.49	-695.36	-190.36	1,346.46	1,305.42	41.04	32.809		
4,600.00	4,519.70	4,376.64	4,326.75	26.45	20.76	151.81	-708.82	-194.47	1,374.08	1,332.21	41.87	32.815		
4,700.00	4,618.56	4,472.88	4,421.75	26.98	21.22	152.05	-723.56	-198.96	1,401.21	1,358.44	42.77	32.762		
4,800.00	4,717.88	4,569.89	4,517.51	27.46	21.68	152.19	-738.41	-203.49	1,425.36	1,381.70	43.66	32.648		
4,900.00	4,817.54	4,667.55	4,613.91	27.89	22.14	152.24	-753.36	-208.04	1,446.50	1,401.97	44.54	32.478		
5,000.00	4,917.43	4,765.74	4,710.83	28.28	22.61	152.19	-768.40	-212.62	1,464.64	1,419.23	45.41	32.256		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,847.13	4,791.18	28.57	23.00	-134.76	-780.86	-216.42	1,477.34	1,431.23	46.11	32.039		
5,100.00	5,017.42	4,864.33	4,808.16	28.62	23.09	-134.81	-783.49	-217.22	1,479.80	1,433.55	46.26	31.991		
5,200.00	5,117.42	4,963.04	4,905.59	28.95	23.56	-135.10	-798.60	-221.83	1,493.96	1,446.86	47.10	31.718		
5,300.00	5,217.42	5,061.75	5,003.03	29.28	24.03	-135.39	-813.72	-226.44	1,508.16	1,460.21	47.95	31.455		
5,400.00	5,317.42	5,160.46	5,100.47	29.62	24.50	-135.67	-828.83	-231.04	1,522.39	1,473.60	48.79	31.200		
5,500.00	5,417.42	5,259.17	5,197.91	29.96	24.98	-135.94	-843.94	-235.65	1,536.66	1,487.02	49.64	30.955		
5,600.00	5,517.42	5,357.89	5,295.35	30.29	25.45	-136.21	-859.05	-240.25	1,550.96	1,500.47	50.49	30.718		
5,700.00	5,617.42	5,456.60	5,392.79	30.64	25.92	-136.47	-874.17	-244.86	1,565.30	1,513.96	51.34	30.488		
5,800.00	5,717.42	5,555.31	5,490.22	30.98	26.40	-136.73	-889.28	-249.47	1,579.66	1,527.47	52.19	30.267		
5,900.00	5,817.42	5,654.02	5,587.66	31.33	26.87	-136.99	-904.39	-254.07	1,594.06	1,541.02	53.04	30.052		
6,000.00	5,917.42	5,752.73	5,685.10	31.68	27.34	-137.24	-919.51	-258.68	1,608.49	1,554.59	53.90	29.844		
6,100.00	6,017.42	5,851.44	5,782.22	32.03	27.81	-137.49	-934.62	-263.29	1,622.92	1,568.99	54.76	29.634		
6,200.00	6,117.42	5,950.15	5,880.93	32.38	28.28	-137.74	-949.73	-267.90	1,637.35	1,583.38	55.62	29.424		
6,300.00	6,217.42	6,048.86	5,979.64	32.74	28.75	-137.99	-964.84	-272.51	1,651.78	1,597.77	56.48	29.214		
6,400.00	6,317.42	6,147.57	6,078.35	33.09	29.22	-138.24	-979.95	-277.12	1,666.21	1,612.16	57.34	29.004		
6,476.01	6,393.43	6,223.58	6,154.36	33.37	29.69	-138.49	-995.06	-281.73	1,680.64	1,626.55	58.20	28.794		
6,500.00	6,417.42	6,267.89	6,198.67	33.45	29.77	-138.51	-1,000.17	-282.25	1,685.75	1,631.66	58.72	28.742		
6,550.00	6,467.25	6,317.72	6,248.50	33.59	29.91	-138.57	-1,005.28	-282.77	1,690.86	1,636.77	59.24	28.690		
6,600.00	6,516.64	6,367.55	6,298.33	33.71	30.05	-138.63	-1,010.39	-283.29	1,695.97	1,641.88	59.76	28.638		
6,650.00	6,565.26	6,417.38	6,348.16	33.80	30.19	-138.69	-1,015.50	-283.81	1,701.08	1,646.99	60.28	28.586		
6,700.00	6,612.83	6,467.21	6,398.00	33.88	30.33	-138.75	-1,020.61	-284.33	1,706.19	1,652.10	60.80	28.534		
6,750.00	6,659.04	6,517.04	6,447.83	33.94	30.47	-138.81	-1,025.72	-284.85	1,711.30	1,657.21	61.32	28.482		
6,800.00	6,703.62	6,566.87	6,497.66	33.99	30.61	-138.87	-1,030.83	-285.37	1,716.41	1,662.32	61.84	28.430		
6,850.00	6,746.28	6,616.70	6,547.50	34.03	30.75	-138.93	-1,035.94	-285.89	1,721.52	1,667.43	62.36	28.378		
6,900.00	6,786.76	6,666.53	6,597.33	34.08	30.89	-138.99	-1,041.05	-286.41	1,726.63	1,672.54	62.88	28.326		
6,950.00	6,824.83	6,716.36	6,647.16	34.13	31.03	-139.05	-1,046.16	-286.93	1,731.74	1,677.65	63.40	28.274		
7,000.00	6,860.23	6,766.19	6,697.00	34.20	31.17	-139.11	-1,051.27	-287.45	1,736.85	1,682.76	63.92	28.222		
7,050.00	6,892.75	6,815.82	6,746.83	34.30	31.31	-139.17	-1,056.38	-287.97	1,741.96	1,687.87	64.44	28.170		
7,100.00	6,922.20	6,865.65	6,796.66	34.43	31.45	-139.23	-1,061.49	-288.49	1,747.07	1,692.98	64.96	28.118		
7,150.00	6,948.38	6,891.83	6,822.84	34.60	31.62	-139.29	-1,066.60	-289.01	1,752.18	1,698.09	65.48	28.066		
7,200.00	6,971.15	6,914.60	6,845.61	34.82	31.84	-139.35	-1,071.71	-289.53	1,757.29	1,703.20	66.00	28.014		
7,250.00	6,990.35	6,933.80	6,864.81	35.09	32.11	-139.41	-1,076.82	-290.05	1,762.40	1,708.31	66.52	27.962		
7,300.00	7,005.87	6,953.01	6,884.02	35.43	32.38	-139.47	-1,081.93	-290.57	1,767.51	1,713.42	67.04	27.910		
7,350.00	7,017.62	6,972.22	6,903.23	35.81	32.65	-139.53	-1,087.04	-291.09	1,772.62	1,718.53	67.56	27.858		
7,400.00	7,025.52	6,991.43	6,922.44	36.26	32.92	-139.59	-1,092.15	-291.61	1,777.73	1,723.64	68.08	27.806		
7,450.00	7,029.52	7,010.64	6,941.65	36.75	33.19	-139.65	-1,097.26	-292.13	1,782.84	1,728.75	68.60	27.754		
7,483.86	7,030.00	7,029.85	6,960.86	37.12	33.46	-139.71	-1,102.37	-292.65	1,787.95	1,733.86	69.12	27.702		
7,500.00	7,029.80	7,049.06	6,980.07	37.30	33.64	-139.77	-1,107.48	-293.17	1,793.06	1,738.97	69.64	27.650		
7,600.00	7,028.57	7,068.27	6,999.28	38.58	34.92	-140.03	-1,117.69	-294.43	1,803.27	1,749.18	70.80	27.552		
7,700.00	7,027.34	7,087.48	7,018.49	40.10	36.44	-140.29	-1,127.90	-295.69	1,813.48	1,759.39	72.32	27.454		
7,764.58	7,026.54	7,106.69	7,037.69	41.21	37.55	-140.55	-1,138.11	-296.95	1,823.69	1,769.60	73.44	27.356		
7,800.00	7,026.10	7,125.90	7,056.90	41.83	38.17	-140.61	-1,143.22	-297.47	1,828.80	1,774.71	74.00	27.304		
7,900.00	7,024.87	7,145.11	7,076.11	43.74	39.84	-140.87	-1,153.43	-298.73	1,839.01	1,784.92	75.12	27.206		
8,000.00	7,023.63	7,164.32	7,095.32	45.82	41.92	-141.13	-1,163.64	-299.99	1,849.22	1,795.13	76.24	27.108		
8,100.00	7,022.40	7,183.53	7,114.53	48.04	44.00	-141.39	-1,173.85	-301.25	1,859.43	1,805.34	77.36	27.010		
8,200.00	7,021.17	7,202.74	7,133.74	50.38	46.08	-141.65	-1,184.06	-302.51	1,869.64	1,815.55	78.48	26.912		
8,300.00	7,019.93	7,221.95	7,152.95	52.82	48.16	-141.91	-1,194.27	-303.77	1,879.85	1,825.76	79.60	26.814		
8,400.00	7,018.70	7,241.16	7,172.16	55.35	50.24	-142.17	-1,204.48	-305.03	1,890.06	1,835.97	80.72	26.716		
8,500.00	7,017.47	7,260.37	7,191.37	57.97	52.32	-142.43	-1,214.69	-306.29	1,900.27	1,846.18	81.84	26.618		
8,600.00	7,016.23	7,279.58	7,210.58	60.65	54.40	-142.69	-1,224.90	-307.55	1,910.48	1,856.39	82.96	26.520		
8,700.00	7,015.00	7,298.79	7,229.79	63.39	56.48	-142.95	-1,235.11	-308.81	1,920.69	1,866.60	84.08	26.422		
8,800.00	7,013.76	7,318.00	7,248.00	66.19	58.56	-143.21	-1,245.32	-310.07	1,930.90	1,876.81	85.20	26.324		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	6,550.00	6,468.66	69.03	31.03	-65.96	-1,040.96	-251.41	1,649.66	1,564.80	84.86	19.440		
9,000.00	7,011.30	6,550.00	6,468.66	71.91	31.03	-65.96	-1,040.96	-251.41	1,707.95	1,622.29	85.66	19.938		
9,100.00	7,010.06	6,533.37	6,453.03	74.83	30.97	-65.32	-1,038.55	-256.57	1,769.75	1,683.64	86.11	20.552		
9,200.00	7,008.83	6,523.55	6,443.75	77.78	30.93	-64.94	-1,037.11	-259.42	1,834.78	1,748.23	86.55	21.200		
9,300.00	7,007.60	6,500.00	6,421.31	80.76	30.84	-64.03	-1,033.64	-265.66	1,902.88	1,816.18	86.70	21.947		
9,400.00	7,006.36	6,500.00	6,421.31	83.76	30.84	-64.03	-1,033.64	-265.66	1,973.27	1,886.16	87.10	22.654		
9,500.00	7,005.13	6,500.00	6,421.31	86.79	30.84	-64.03	-1,033.64	-265.66	2,046.12	1,958.70	87.42	23.404		
9,600.00	7,003.90	6,500.00	6,421.31	89.84	30.84	-64.03	-1,033.64	-265.66	2,121.19	2,033.51	87.68	24.193		
9,700.00	7,002.66	6,500.00	6,421.31	92.90	30.84	-64.03	-1,033.64	-265.66	2,198.24	2,110.37	87.88	25.015		
9,800.00	7,001.43	6,480.24	6,402.32	95.99	30.77	-63.27	-1,030.71	-270.25	2,276.74	2,188.93	87.81	25.928		
9,900.00	7,000.19	6,474.88	6,397.14	99.08	30.74	-63.07	-1,029.91	-271.39	2,356.97	2,269.10	87.87	26.823		
10,000.00	6,998.96	6,469.89	6,392.32	102.19	30.72	-62.87	-1,029.16	-272.41	2,438.62	2,350.71	87.91	27.741		
10,100.00	6,997.73	6,450.00	6,373.00	105.32	30.65	-62.11	-1,026.17	-276.11	2,521.76	2,434.00	87.76	28.736		
10,200.00	6,996.49	6,450.00	6,373.00	108.45	30.65	-62.11	-1,026.17	-276.11	2,605.75	2,517.95	87.81	29.676		
10,300.00	6,995.26	6,450.00	6,373.00	111.60	30.65	-62.11	-1,026.17	-276.11	2,690.84	2,603.01	87.83	30.635		
10,400.00	6,994.03	6,450.00	6,373.00	114.75	30.65	-62.11	-1,026.17	-276.11	2,776.92	2,689.08	87.85	31.611		
10,500.00	6,992.79	6,450.00	6,373.00	117.92	30.65	-62.11	-1,026.17	-276.11	2,863.91	2,776.07	87.85	32.602		
10,600.00	6,991.56	6,450.00	6,373.00	121.09	30.65	-62.11	-1,026.17	-276.11	2,951.73	2,863.89	87.83	33.606		
10,700.00	6,990.33	6,450.00	6,373.00	124.27	30.65	-62.11	-1,026.17	-276.11	3,040.29	2,952.48	87.81	34.622		
10,800.00	6,989.09	6,450.00	6,373.00	127.46	30.65	-62.11	-1,026.17	-276.11	3,129.54	3,041.76	87.78	35.650		
10,900.00	6,987.86	6,450.00	6,373.00	130.65	30.65	-62.11	-1,026.17	-276.11	3,219.43	3,131.68	87.75	36.688		
11,000.00	6,986.62	6,450.00	6,373.00	133.85	30.65	-62.11	-1,026.17	-276.11	3,309.90	3,222.18	87.71	37.736		
11,100.00	6,985.39	6,450.00	6,373.00	137.06	30.65	-62.11	-1,026.17	-276.11	3,400.90	3,313.23	87.67	38.792		
11,200.00	6,984.16	6,429.57	6,353.05	140.27	30.56	-61.32	-1,023.09	-279.27	3,492.02	3,404.57	87.45	39.932		
11,300.00	6,982.92	6,427.28	6,350.81	143.48	30.55	-61.24	-1,022.74	-279.58	3,583.88	3,496.50	87.39	41.011		
11,400.00	6,981.69	6,425.10	6,348.68	146.70	30.54	-61.15	-1,022.41	-279.87	3,676.16	3,588.83	87.33	42.097		
11,500.00	6,980.46	6,423.03	6,346.64	149.92	30.53	-61.07	-1,022.09	-280.14	3,768.82	3,681.56	87.26	43.189		
11,600.00	6,979.22	6,421.04	6,344.70	153.15	30.52	-61.00	-1,021.79	-280.40	3,861.84	3,774.64	87.20	44.286		
11,700.00	6,977.99	6,400.00	6,324.03	156.38	30.43	-60.20	-1,018.59	-282.69	3,955.52	3,868.54	86.98	45.475		
11,800.00	6,976.75	6,400.00	6,324.03	159.62	30.43	-60.20	-1,018.59	-282.69	4,049.13	3,962.19	86.94	46.573		
11,900.00	6,975.52	6,400.00	6,324.03	162.86	30.43	-60.20	-1,018.59	-282.69	4,143.04	4,056.14	86.90	47.675		
12,000.00	6,974.29	6,400.00	6,324.03	166.10	30.43	-60.20	-1,018.59	-282.69	4,237.23	4,150.36	86.86	48.781		
12,100.00	6,973.05	6,400.00	6,324.03	169.34	30.43	-60.20	-1,018.59	-282.69	4,331.67	4,244.85	86.82	49.891		
12,200.00	6,971.82	6,400.00	6,324.03	172.59	30.43	-60.20	-1,018.59	-282.69	4,426.36	4,339.58	86.79	51.003		
12,300.00	6,970.59	6,400.00	6,324.03	175.84	30.43	-60.20	-1,018.59	-282.69	4,521.28	4,434.53	86.75	52.119		
12,400.00	6,969.35	6,400.00	6,324.03	179.09	30.43	-60.20	-1,018.59	-282.69	4,616.42	4,529.70	86.72	53.237		
12,500.00	6,968.12	6,400.00	6,324.03	182.35	30.43	-60.20	-1,018.59	-282.69	4,711.75	4,625.07	86.68	54.357		
12,600.00	6,966.89	6,400.00	6,324.03	185.60	30.43	-60.20	-1,018.59	-282.69	4,807.28	4,720.63	86.65	55.479		
12,700.00	6,965.65	6,400.00	6,324.03	188.86	30.43	-60.20	-1,018.59	-282.69	4,902.98	4,816.36	86.62	56.603		
12,800.00	6,964.42	6,400.00	6,324.03	192.12	30.43	-60.20	-1,018.59	-282.69	4,998.86	4,912.27	86.59	57.729		
12,900.00	6,963.18	6,400.00	6,324.03	195.38	30.43	-60.20	-1,018.59	-282.69	5,094.89	5,008.32	86.56	58.857		
13,000.00	6,961.95	6,400.00	6,324.03	198.65	30.43	-60.20	-1,018.59	-282.69	5,191.07	5,104.53	86.54	59.985		
13,100.00	6,960.72	6,400.00	6,324.03	201.91	30.43	-60.20	-1,018.59	-282.69	5,287.39	5,200.87	86.52	61.115		
13,200.00	6,959.48	6,400.00	6,324.03	205.18	30.43	-60.20	-1,018.59	-282.69	5,383.85	5,297.35	86.49	62.246		
13,300.00	6,958.25	6,400.00	6,324.03	208.45	30.43	-60.20	-1,018.59	-282.69	5,480.43	5,393.96	86.47	63.377		
13,400.00	6,957.02	6,400.00	6,324.03	211.72	30.43	-60.20	-1,018.59	-282.69	5,577.13	5,490.68	86.46	64.509		
13,500.00	6,955.78	6,400.00	6,324.03	214.99	30.43	-60.20	-1,018.59	-282.69	5,673.95	5,587.51	86.44	65.641		
13,600.00	6,954.55	6,400.00	6,324.03	218.27	30.43	-60.20	-1,018.59	-282.69	5,770.88	5,684.46	86.42	66.774		
13,700.00	6,953.32	6,400.00	6,324.03	221.54	30.43	-60.20	-1,018.59	-282.69	5,867.91	5,781.50	86.41	67.907		
13,800.00	6,952.08	6,400.00	6,324.03	224.82	30.43	-60.20	-1,018.59	-282.69	5,965.04	5,878.64	86.40	69.041		
13,900.00	6,950.85	6,400.00	6,324.03	228.10	30.43	-60.20	-1,018.59	-282.69	6,062.26	5,975.87	86.39	70.174		
14,000.00	6,949.61	6,400.00	6,324.03	231.37	30.43	-60.20	-1,018.59	-282.69	6,159.57	6,073.19	86.38	71.307		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	6,400.00	6,324.03	234.65	30.43	-60.20	-1,018.59	-282.69	6,256.96	6,170.59	86.37	72.440		
14,200.00	6,947.15	6,400.00	6,324.03	237.93	30.43	-60.20	-1,018.59	-282.69	6,354.44	6,268.07	86.37	73.573		
14,300.00	6,945.91	6,400.00	6,324.03	241.22	30.43	-60.20	-1,018.59	-282.69	6,451.99	6,365.63	86.37	74.706		
14,400.00	6,944.68	6,400.00	6,324.03	244.50	30.43	-60.20	-1,018.59	-282.69	6,549.62	6,463.26	86.36	75.838		
14,500.00	6,943.45	6,400.00	6,324.03	247.78	30.43	-60.20	-1,018.59	-282.69	6,647.32	6,560.95	86.36	76.969		
14,600.00	6,942.21	6,400.00	6,324.03	251.07	30.43	-60.20	-1,018.59	-282.69	6,745.08	6,658.72	86.36	78.100		
14,700.00	6,940.98	6,400.00	6,324.03	254.35	30.43	-60.20	-1,018.59	-282.69	6,842.91	6,756.55	86.37	79.230		
14,800.00	6,939.74	6,400.00	6,324.03	257.64	30.43	-60.20	-1,018.59	-282.69	6,940.80	6,854.43	86.37	80.360		
14,900.00	6,938.51	6,400.00	6,324.03	260.92	30.43	-60.20	-1,018.59	-282.69	7,038.76	6,952.38	86.38	81.488		
15,000.00	6,937.28	6,400.00	6,324.03	264.21	30.43	-60.20	-1,018.59	-282.69	7,136.76	7,050.38	86.38	82.616		
15,100.00	6,936.04	6,400.00	6,324.03	267.50	30.43	-60.20	-1,018.59	-282.69	7,234.83	7,148.43	86.39	83.743		
15,200.00	6,934.81	6,400.00	6,324.03	270.79	30.43	-60.20	-1,018.59	-282.69	7,332.94	7,246.54	86.40	84.869		
15,300.00	6,933.58	6,400.00	6,324.03	274.08	30.43	-60.20	-1,018.59	-282.69	7,431.10	7,344.69	86.41	85.993		
15,400.00	6,932.34	6,400.00	6,324.03	277.37	30.43	-60.20	-1,018.59	-282.69	7,529.32	7,442.89	86.43	87.117		
15,500.00	6,931.11	6,400.00	6,324.03	280.66	30.43	-60.20	-1,018.59	-282.69	7,627.58	7,541.14	86.44	88.240		
15,589.88	6,930.00	6,400.00	6,324.03	283.62	30.43	-60.20	-1,018.59	-282.69	7,715.93	7,629.48	86.46	89.247		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.59	59.75	5.85	60.03					
100.00	100.00	100.00	100.00	3.28	3.28	5.59	59.75	5.85	60.03	53.46	6.57	9.138		
200.00	200.00	200.00	200.00	3.34	3.34	5.59	59.75	5.85	60.03	53.36	6.67	8.995 CC, ES		
300.00	299.98	298.39	298.37	3.44	3.44	-68.04	60.95	7.03	60.70	53.81	6.89	8.808		
400.00	399.84	396.74	396.58	3.60	3.60	-69.43	64.56	10.58	62.74	55.52	7.22	8.692		
500.00	499.45	495.00	494.48	3.81	3.80	-71.54	70.57	16.49	66.22	58.57	7.64	8.662		
600.00	598.70	593.15	591.91	4.08	4.04	-74.13	78.95	24.73	71.22	63.06	8.16	8.726		
700.00	697.47	691.13	688.72	4.40	4.32	-76.95	89.69	35.29	77.83	69.06	8.77	8.879		
774.77	770.92	764.26	760.62	4.68	4.55	-79.07	99.24	44.68	83.86	74.58	9.27	9.043		
800.00	795.65	788.91	784.77	4.78	4.63	-79.75	102.75	48.14	86.12	76.67	9.45	9.111		
900.00	893.64	887.84	881.45	5.20	4.96	-81.52	117.74	62.88	95.98	85.77	10.21	9.403		
1,000.00	991.63	987.31	978.61	5.66	5.33	-82.91	132.91	77.79	105.99	94.97	11.02	9.617		
1,100.00	1,089.63	1,086.78	1,075.78	6.15	5.72	-84.06	148.08	92.71	116.05	104.17	11.88	9.767		
1,200.00	1,187.62	1,186.25	1,172.94	6.65	6.12	-85.02	163.25	107.63	126.15	113.37	12.78	9.872		
1,300.00	1,285.62	1,285.72	1,270.11	7.17	6.54	-85.85	178.42	122.54	136.29	122.58	13.71	9.944		
1,400.00	1,383.61	1,385.18	1,367.28	7.71	6.96	-86.55	193.58	137.46	146.44	131.78	14.66	9.992		
1,500.00	1,481.60	1,484.65	1,464.44	8.25	7.40	-87.17	208.75	152.38	156.62	140.99	15.63	10.023		
1,600.00	1,579.60	1,584.12	1,561.61	8.80	7.84	-87.71	223.92	167.29	166.81	150.19	16.61	10.041		
1,700.00	1,677.59	1,683.59	1,658.77	9.36	8.29	-88.19	239.09	182.21	177.01	159.40	17.61	10.051		
1,800.00	1,775.59	1,783.06	1,755.94	9.92	8.74	-88.62	254.26	197.13	187.23	168.60	18.62	10.054		
1,900.00	1,873.58	1,882.52	1,853.11	10.49	9.20	-89.00	269.43	212.04	197.45	177.81	19.64	10.053		
2,000.00	1,971.57	1,981.99	1,950.27	11.06	9.66	-89.34	284.60	226.96	207.68	187.01	20.67	10.048		
2,100.00	2,069.57	2,081.46	2,047.44	11.64	10.13	-89.66	299.77	241.88	217.92	196.22	21.70	10.041		
2,200.00	2,167.56	2,180.93	2,144.61	12.22	10.60	-89.94	314.93	256.80	228.16	205.42	22.74	10.032		
2,300.00	2,265.56	2,280.39	2,241.77	12.80	11.07	-90.20	330.10	271.71	238.41	214.62	23.79	10.023		
2,400.00	2,363.55	2,379.86	2,338.94	13.38	11.54	-90.44	345.27	286.63	248.67	223.83	24.84	10.012		
2,500.00	2,461.54	2,479.33	2,436.10	13.97	12.02	-90.66	360.44	301.55	258.92	233.03	25.89	10.001		
2,600.00	2,559.54	2,578.80	2,533.27	14.55	12.49	-90.86	375.61	316.46	269.19	242.24	26.95	9.989		
2,700.00	2,657.53	2,678.27	2,630.44	15.14	12.97	-91.05	390.78	331.38	279.45	251.44	28.01	9.978		
2,800.00	2,755.53	2,777.73	2,727.60	15.73	13.45	-91.22	405.95	346.30	289.72	260.65	29.07	9.966		
2,900.00	2,853.52	2,877.20	2,824.77	16.32	13.93	-91.39	421.12	361.21	299.99	269.85	30.13	9.955		
3,000.00	2,951.52	2,976.67	2,921.93	16.91	14.41	-91.54	436.29	376.13	310.26	279.06	31.20	9.944		
3,100.00	3,049.51	3,076.14	3,019.10	17.51	14.89	-91.68	451.45	391.05	320.53	288.26	32.27	9.933		
3,200.00	3,147.50	3,175.60	3,116.27	18.10	15.38	-91.81	466.62	405.96	330.81	297.47	33.34	9.922		
3,300.00	3,245.50	3,275.07	3,213.43	18.70	15.86	-91.94	481.79	420.88	341.08	306.67	34.41	9.911		
3,400.00	3,343.49	3,374.54	3,310.60	19.29	16.35	-92.06	496.96	435.80	351.36	315.88	35.49	9.901		
3,500.00	3,441.49	3,474.01	3,407.76	19.89	16.83	-92.17	512.13	450.71	361.64	325.08	36.56	9.891		
3,600.00	3,539.48	3,573.48	3,504.93	20.48	17.32	-92.27	527.30	465.63	371.92	334.29	37.64	9.882		
3,700.00	3,637.47	3,672.94	3,602.10	21.08	17.80	-92.37	542.47	480.55	382.21	343.49	38.72	9.872		
3,800.00	3,735.47	3,772.41	3,699.26	21.68	18.29	-92.47	557.64	495.46	392.49	352.70	39.79	9.863		
3,900.00	3,833.46	3,871.88	3,796.43	22.27	18.78	-92.56	572.80	510.38	402.78	361.90	40.87	9.854		
4,000.00	3,931.46	3,971.35	3,893.59	22.87	19.27	-92.64	587.97	525.30	413.06	371.11	41.95	9.846		
4,100.00	4,029.45	4,070.81	3,990.76	23.47	19.76	-92.72	603.14	540.21	423.35	380.31	43.03	9.838		
4,200.00	4,127.44	4,170.28	4,087.93	24.07	20.24	-92.80	618.31	555.13	433.63	389.52	44.12	9.830		
4,300.00	4,225.44	4,269.75	4,185.09	24.67	20.73	-92.87	633.48	570.05	443.92	398.73	45.20	9.822		
4,400.00	4,323.43	4,369.22	4,282.26	25.27	21.22	-92.94	648.65	584.96	454.21	407.93	46.28	9.814		
4,507.81	4,429.08	4,476.45	4,387.01	25.92	21.75	-93.01	665.00	601.05	465.30	417.86	47.45	9.806		
4,600.00	4,519.70	4,568.15	4,476.59	26.45	22.20	-93.08	678.99	614.80	474.71	426.28	48.43	9.802		
4,700.00	4,618.56	4,667.55	4,573.68	26.98	22.69	-92.76	694.14	629.70	484.76	435.31	49.45	9.804		
4,800.00	4,717.88	4,766.75	4,670.59	27.46	23.18	-92.06	709.27	644.58	494.72	444.30	50.41	9.813		
4,900.00	4,817.54	4,865.63	4,767.18	27.89	23.67	-91.00	724.35	659.41	504.74	453.41	51.33	9.833		
5,000.00	4,917.43	4,964.07	4,863.35	28.28	24.16	-89.62	739.36	674.17	515.01	462.82	52.19	9.868		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,044.95	4,942.36	28.57	24.56	-15.11	751.70	686.30	523.87	471.02	52.85	9.912		
5,100.00	5,017.42	5,061.97	4,958.98	28.62	24.64	-14.76	754.29	688.85	525.80	472.81	52.99	9.923		
5,200.00	5,117.42	5,159.66	5,054.40	28.95	25.12	-12.83	769.19	703.50	537.23	483.47	53.76	9.993		
5,300.00	5,217.42	5,257.34	5,149.83	29.28	25.61	-10.98	784.09	718.15	549.25	494.73	54.52	10.074		
5,400.00	5,317.42	5,355.03	5,245.26	29.62	26.09	-9.21	798.98	732.80	561.83	506.55	55.28	10.164		
5,500.00	5,417.42	5,452.71	5,340.68	29.96	26.57	-7.52	813.88	747.45	574.92	518.90	56.03	10.261		
5,600.00	5,517.42	5,550.40	5,436.11	30.29	27.05	-5.90	828.78	762.10	588.51	531.73	56.78	10.365		
5,700.00	5,617.42	5,648.09	5,531.53	30.64	27.54	-4.35	843.68	776.75	602.55	545.02	57.52	10.475		
5,800.00	5,717.42	5,745.77	5,626.96	30.98	28.02	-2.87	858.57	791.40	617.01	558.74	58.27	10.589		
5,900.00	5,817.42	5,843.46	5,722.38	31.33	28.51	-1.46	873.47	806.05	631.86	572.85	59.02	10.707		
6,000.00	5,917.42	5,941.14	5,817.81	31.68	28.99	-0.12	888.37	820.70	647.08	587.32	59.76	10.828		
6,100.00	6,017.42	6,038.83	5,913.23	32.03	29.47	1.17	903.26	835.35	662.64	602.13	60.51	10.951		
6,200.00	6,117.42	6,136.52	6,008.66	32.38	29.96	2.40	918.16	850.00	678.52	617.26	61.26	11.076		
6,300.00	6,217.42	6,234.20	6,104.08	32.74	30.44	3.57	933.06	864.65	694.69	632.68	62.01	11.202		
6,400.00	6,317.42	6,331.89	6,199.51	33.09	30.93	4.69	947.96	879.30	711.14	648.37	62.77	11.329		
6,476.01	6,393.43	6,406.14	6,272.04	33.37	31.29	5.50	959.28	890.43	723.82	660.47	63.35	11.426		
6,500.00	6,417.42	6,429.50	6,294.86	33.45	31.41	97.75	962.84	893.94	727.91	664.39	63.52	11.460		
6,550.00	6,467.25	6,477.58	6,341.83	33.59	31.65	97.73	970.17	901.15	736.91	673.07	63.84	11.544		
6,600.00	6,516.64	6,524.62	6,387.78	33.71	31.88	97.90	977.35	908.20	746.63	682.53	64.10	11.647		
6,650.00	6,565.26	6,580.94	6,443.02	33.80	32.15	98.39	985.91	914.97	756.96	692.53	64.43	11.749		
6,700.00	6,612.83	6,642.24	6,503.58	33.88	32.42	98.92	995.07	916.78	767.34	702.58	64.76	11.849		
6,750.00	6,659.04	6,706.18	6,566.66	33.94	32.67	99.39	1,004.38	912.38	777.64	712.58	65.07	11.952		
6,800.00	6,703.62	6,772.91	6,631.71	33.99	32.91	99.81	1,013.71	901.01	787.70	722.36	65.34	12.055		
6,850.00	6,746.28	6,842.48	6,697.94	34.03	33.16	100.16	1,022.93	881.91	797.36	731.78	65.58	12.158		
6,900.00	6,786.76	6,914.88	6,764.28	34.08	33.41	100.42	1,031.83	854.42	806.46	740.66	65.80	12.257		
6,950.00	6,824.83	6,989.98	6,829.41	34.13	33.69	100.59	1,040.22	818.08	814.85	748.84	66.00	12.346		
7,000.00	6,860.23	7,067.52	6,891.78	34.20	34.00	100.64	1,047.84	772.73	822.36	756.13	66.23	12.417		
7,050.00	6,892.75	7,147.08	6,949.67	34.30	34.35	100.56	1,054.46	718.62	828.87	762.35	66.52	12.460		
7,100.00	6,922.20	7,228.14	7,001.34	34.43	34.77	100.34	1,059.83	656.48	834.27	767.32	66.95	12.461		
7,150.00	6,948.38	7,310.01	7,045.23	34.60	35.26	99.98	1,063.77	587.54	838.48	770.91	67.57	12.409		
7,200.00	6,971.15	7,391.97	7,080.07	34.82	35.87	99.48	1,066.16	513.45	841.45	773.01	68.44	12.295		
7,250.00	6,990.35	7,473.28	7,105.07	35.09	36.58	98.84	1,066.94	436.14	843.20	773.64	69.56	12.122		
7,300.00	7,005.87	7,553.24	7,119.97	35.43	37.37	98.08	1,066.16	357.64	843.76	772.85	70.91	11.899		
7,350.00	7,017.62	7,631.26	7,125.02	35.81	38.23	97.22	1,063.93	279.86	843.20	770.75	72.45	11.638		
7,400.00	7,025.52	7,683.60	7,124.62	36.26	38.85	96.71	1,061.86	227.57	842.24	768.54	73.70	11.428		
7,450.00	7,029.52	7,733.39	7,124.18	36.75	39.50	96.45	1,059.88	177.82	841.78	766.85	74.93	11.234		
7,476.01	7,030.05	7,759.38	7,123.95	37.03	39.85	96.41	1,058.85	151.85	841.72	766.14	75.58	11.137		
7,483.86	7,030.00	7,767.24	7,123.89	37.12	39.96	96.40	1,058.54	144.00	841.72	765.95	75.77	11.109		
7,500.00	7,029.80	7,783.37	7,123.74	37.30	40.17	96.41	1,057.90	127.88	841.75	765.57	76.17	11.050		
7,600.00	7,028.57	7,883.37	7,122.87	38.58	41.65	96.43	1,053.92	27.96	841.88	762.95	78.94	10.665		
7,700.00	7,027.34	7,983.37	7,121.99	40.10	43.27	96.45	1,049.95	-71.96	842.02	759.95	82.07	10.259		
7,800.00	7,026.10	8,083.37	7,121.11	41.83	45.01	96.48	1,045.98	-171.87	842.16	756.63	85.54	9.846		
7,900.00	7,024.87	8,183.37	7,120.23	43.74	46.86	96.50	1,042.00	-271.79	842.30	753.01	89.29	9.434		
8,000.00	7,023.63	8,283.37	7,119.36	45.82	48.80	96.52	1,038.03	-371.70	842.44	749.14	93.29	9.030		
8,100.00	7,022.40	8,383.37	7,118.48	48.04	50.84	96.55	1,034.06	-471.62	842.58	745.05	97.52	8.640		
8,200.00	7,021.17	8,483.37	7,117.60	50.38	52.94	96.57	1,030.08	-571.54	842.71	740.77	101.95	8.266		
8,300.00	7,019.93	8,583.37	7,116.73	52.82	55.12	96.59	1,026.11	-671.45	842.85	736.31	106.54	7.911		
8,400.00	7,018.70	8,683.37	7,115.85	55.35	57.35	96.62	1,022.14	-771.37	842.99	731.71	111.28	7.576		
8,500.00	7,017.47	8,783.37	7,114.97	57.97	59.64	96.64	1,018.16	-871.29	843.13	726.98	116.15	7.259		
8,600.00	7,016.23	8,883.36	7,114.09	60.65	61.97	96.66	1,014.19	-971.20	843.27	722.14	121.13	6.962		
8,700.00	7,015.00	8,983.36	7,113.22	63.39	64.34	96.69	1,010.22	-1,071.12	843.41	717.19	126.21	6.682		
8,800.00	7,013.76	9,083.36	7,112.34	66.19	66.75	96.71	1,006.24	-1,171.04	843.55	712.16	131.39	6.420		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	9,183.36	7,111.46	69.03	69.19	96.73	1,002.27	-1,270.95	843.69	707.05	136.63	6.175		
9,000.00	7,011.30	9,283.36	7,110.58	71.91	71.66	96.76	998.30	-1,370.87	843.83	701.87	141.95	5.944		
9,100.00	7,010.06	9,383.36	7,109.71	74.83	74.16	96.78	994.32	-1,470.79	843.97	696.64	147.33	5.728		
9,200.00	7,008.83	9,483.36	7,108.83	77.78	76.68	96.80	990.35	-1,570.70	844.11	691.34	152.77	5.525		
9,300.00	7,007.60	9,583.36	7,107.95	80.76	79.23	96.83	986.38	-1,670.62	844.25	686.00	158.25	5.335		
9,400.00	7,006.36	9,683.36	7,107.07	83.76	81.79	96.85	982.41	-1,770.54	844.39	680.61	163.78	5.156		
9,500.00	7,005.13	9,783.36	7,106.20	86.79	84.37	96.87	978.43	-1,870.45	844.53	675.19	169.34	4.987		
9,600.00	7,003.90	9,883.36	7,105.32	89.84	86.97	96.90	974.46	-1,970.37	844.67	669.72	174.94	4.828		
9,700.00	7,002.66	9,983.36	7,104.44	92.90	89.58	96.92	970.49	-2,070.29	844.81	664.23	180.58	4.678		
9,800.00	7,001.43	10,083.36	7,103.56	95.99	92.21	96.94	966.51	-2,170.20	844.95	658.71	186.24	4.537		
9,900.00	7,000.19	10,183.36	7,102.69	99.08	94.84	96.97	962.54	-2,270.12	845.09	653.16	191.93	4.403		
10,000.00	6,998.96	10,283.36	7,101.81	102.19	97.49	96.99	958.57	-2,370.03	845.23	647.58	197.65	4.276		
10,100.00	6,997.73	10,383.35	7,100.93	105.32	100.15	97.01	954.59	-2,469.95	845.37	641.99	203.38	4.157		
10,200.00	6,996.49	10,483.35	7,100.05	108.45	102.82	97.03	950.62	-2,569.87	845.51	636.37	209.14	4.043		
10,300.00	6,995.26	10,583.35	7,099.18	111.60	105.50	97.06	946.65	-2,669.78	845.66	630.74	214.92	3.935		
10,400.00	6,994.03	10,683.35	7,098.30	114.75	108.19	97.08	942.67	-2,769.70	845.80	625.09	220.71	3.832		
10,500.00	6,992.79	10,783.35	7,097.42	117.92	110.88	97.10	938.70	-2,869.62	845.94	619.42	226.52	3.735		
10,600.00	6,991.56	10,883.35	7,096.55	121.09	113.59	97.13	934.73	-2,969.53	846.08	613.74	232.34	3.642		
10,700.00	6,990.33	10,983.35	7,095.67	124.27	116.29	97.15	930.75	-3,069.45	846.22	608.05	238.18	3.553		
10,800.00	6,989.09	11,083.35	7,094.79	127.46	119.01	97.17	926.78	-3,169.37	846.37	602.34	244.03	3.468		
10,900.00	6,987.86	11,183.35	7,093.91	130.65	121.73	97.20	922.81	-3,269.28	846.51	596.62	249.89	3.388		
11,000.00	6,986.62	11,283.35	7,093.04	133.85	124.45	97.22	918.83	-3,369.20	846.65	590.89	255.76	3.310		
11,100.00	6,985.39	11,383.35	7,092.16	137.06	127.18	97.24	914.86	-3,469.12	846.79	585.16	261.64	3.237		
11,200.00	6,984.16	11,483.35	7,091.28	140.27	129.92	97.27	910.89	-3,569.03	846.94	579.41	267.53	3.166		
11,300.00	6,982.92	11,583.35	7,090.40	143.48	132.66	97.29	906.91	-3,668.95	847.08	573.65	273.43	3.098		
11,400.00	6,981.69	11,683.35	7,089.53	146.70	135.40	97.31	902.94	-3,768.87	847.22	567.89	279.33	3.033		
11,500.00	6,980.46	11,783.35	7,088.65	149.92	138.15	97.34	898.97	-3,868.78	847.36	562.12	285.25	2.971		
11,600.00	6,979.22	11,883.34	7,087.77	153.15	140.90	97.36	895.00	-3,968.70	847.51	556.34	291.17	2.911		
11,700.00	6,977.99	11,983.34	7,086.89	156.38	143.66	97.38	891.02	-4,068.62	847.65	550.56	297.09	2.853		
11,800.00	6,976.75	12,083.34	7,086.02	159.62	146.42	97.40	887.05	-4,168.53	847.80	544.77	303.03	2.798		
11,900.00	6,975.52	12,183.34	7,085.14	162.86	149.18	97.43	883.08	-4,268.45	847.94	538.97	308.96	2.744		
12,000.00	6,974.29	12,283.34	7,084.26	166.10	151.94	97.45	879.10	-4,368.36	848.08	533.17	314.91	2.693		
12,100.00	6,973.05	12,383.34	7,083.38	169.34	154.71	97.47	875.13	-4,468.28	848.23	527.37	320.86	2.644		
12,200.00	6,971.82	12,483.34	7,082.51	172.59	157.48	97.50	871.16	-4,568.20	848.37	521.56	326.81	2.596		
12,300.00	6,970.59	12,583.34	7,081.63	175.84	160.25	97.52	867.18	-4,668.11	848.51	515.75	332.77	2.550		
12,400.00	6,969.35	12,683.34	7,080.75	179.09	163.03	97.54	863.21	-4,768.03	848.66	509.93	338.73	2.505		
12,500.00	6,968.12	12,783.34	7,079.87	182.35	165.80	97.57	859.24	-4,867.95	848.80	504.11	344.70	2.462		
12,600.00	6,966.89	12,883.34	7,079.00	185.60	168.58	97.59	855.26	-4,967.86	848.95	498.28	350.67	2.421		
12,700.00	6,965.65	12,983.34	7,078.12	188.86	171.36	97.61	851.29	-5,067.78	849.09	492.45	356.64	2.381		
12,800.00	6,964.42	13,083.34	7,077.24	192.12	174.15	97.63	847.32	-5,167.70	849.24	486.62	362.62	2.342		
12,900.00	6,963.18	13,183.34	7,076.37	195.38	176.93	97.66	843.34	-5,267.61	849.38	480.79	368.59	2.304		
13,000.00	6,961.95	13,283.33	7,075.49	198.65	179.72	97.68	839.37	-5,367.53	849.53	474.95	374.58	2.268		
13,100.00	6,960.72	13,383.33	7,074.61	201.91	182.50	97.70	835.40	-5,467.45	849.67	469.11	380.56	2.233		
13,200.00	6,959.48	13,483.33	7,073.73	205.18	185.29	97.73	831.42	-5,567.36	849.82	463.27	386.55	2.198		
13,300.00	6,958.25	13,583.33	7,072.86	208.45	188.09	97.75	827.45	-5,667.28	849.96	457.43	392.54	2.165		
13,400.00	6,957.02	13,683.33	7,071.98	211.72	190.88	97.77	823.48	-5,767.20	850.11	451.58	398.53	2.133		
13,500.00	6,955.78	13,783.33	7,071.10	214.99	193.67	97.79	819.50	-5,867.11	850.26	445.73	404.52	2.102		
13,600.00	6,954.55	13,883.33	7,070.22	218.27	196.47	97.82	815.53	-5,967.03	850.40	439.88	410.52	2.072		
13,700.00	6,953.32	13,983.33	7,069.35	221.54	199.26	97.84	811.56	-6,066.95	850.55	434.03	416.52	2.042		
13,800.00	6,952.08	14,083.33	7,068.47	224.82	202.06	97.86	807.59	-6,166.86	850.69	428.18	422.52	2.013		
13,900.00	6,950.85	14,183.33	7,067.59	228.10	204.86	97.89	803.61	-6,266.78	850.84	422.32	428.52	1.986		
14,000.00	6,949.61	14,283.33	7,066.71	231.37	207.66	97.91	799.64	-6,366.69	850.99	416.47	434.52	1.958		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - Boomerang 32C-6-M - OH - Plan #1		Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)				
14,100.00	6,948.38	14,383.33	7,065.84	234.65	210.46	97.93	795.67	-6,466.61	851.13	410.61	440.52	1.932			
14,200.00	6,947.15	14,483.33	7,064.96	237.93	213.27	97.95	791.69	-6,566.53	851.28	404.75	446.53	1.906			
14,300.00	6,945.91	14,583.33	7,064.08	241.22	216.07	97.98	787.72	-6,666.44	851.43	398.89	452.54	1.881			
14,400.00	6,944.68	14,683.33	7,063.20	244.50	218.87	98.00	783.75	-6,766.36	851.58	393.03	458.54	1.857			
14,500.00	6,943.45	14,783.32	7,062.33	247.78	221.68	98.02	779.77	-6,866.28	851.72	387.17	464.55	1.833			
14,600.00	6,942.21	14,883.32	7,061.45	251.07	224.49	98.05	775.80	-6,966.19	851.87	381.31	470.56	1.810			
14,700.00	6,940.98	14,983.32	7,060.57	254.35	227.29	98.07	771.83	-7,066.11	852.02	375.44	476.57	1.788			
14,800.00	6,939.74	15,083.32	7,059.69	257.64	230.10	98.09	767.85	-7,166.03	852.16	369.58	482.58	1.766			
14,900.00	6,938.51	15,183.32	7,058.82	260.92	232.91	98.11	763.88	-7,265.94	852.31	363.71	488.60	1.744			
15,000.00	6,937.28	15,283.32	7,057.94	264.21	235.72	98.14	759.91	-7,365.86	852.46	357.85	494.61	1.723			
15,100.00	6,936.04	15,383.32	7,057.06	267.50	238.53	98.16	755.93	-7,465.78	852.61	351.98	500.63	1.703			
15,200.00	6,934.81	15,483.32	7,056.19	270.79	241.34	98.18	751.96	-7,565.69	852.76	346.12	506.64	1.683			
15,300.00	6,933.58	15,583.32	7,055.31	274.08	244.15	98.21	747.99	-7,665.61	852.90	340.25	512.66	1.664			
15,400.00	6,932.34	15,683.32	7,054.43	277.37	246.96	98.23	744.01	-7,765.53	853.05	334.38	518.67	1.645			
15,500.00	6,931.11	15,783.32	7,053.55	280.66	249.78	98.25	740.04	-7,865.44	853.20	328.51	524.69	1.626			
15,501.98	6,931.08	15,785.30	7,053.54	280.72	249.83	98.25	739.96	-7,867.42	853.20	328.40	524.81	1.626			
15,589.88	6,930.00	15,846.35	7,053.00	283.62	251.55	98.26	737.54	-7,928.42	853.76	324.65	529.11	1.614 SF			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.54	74.68	7.24	75.03					
100.00	100.00	100.00	100.00	3.28	3.28	5.54	74.68	7.24	75.03	68.46	6.57	11.421		
200.00	200.00	200.00	200.00	3.34	3.34	5.54	74.68	7.24	75.03	68.36	6.67	11.242		
300.00	299.98	299.98	299.98	3.44	3.44	-68.87	74.68	7.24	74.38	67.50	6.89	10.799		
362.04	361.95	360.57	360.56	3.54	3.54	-70.66	75.24	7.56	73.99	66.91	7.07	10.460 CC, ES		
400.00	399.84	397.65	397.63	3.60	3.60	-72.00	76.12	8.07	74.14	66.94	7.21	10.288		
500.00	499.45	495.28	495.12	3.81	3.80	-76.24	80.43	10.58	76.14	68.51	7.63	9.981		
600.00	598.70	592.98	592.47	4.08	4.04	-81.11	87.58	14.82	80.62	72.48	8.14	9.906		
700.00	697.47	690.84	689.63	4.40	4.31	-85.85	97.20	21.27	87.36	78.62	8.73	10.006		
774.77	770.92	763.94	761.94	4.68	4.53	-89.11	105.94	27.60	93.82	84.59	9.23	10.168		
800.00	795.65	788.60	786.26	4.78	4.60	-90.12	109.19	30.02	96.28	86.87	9.40	10.238		
900.00	893.64	886.34	882.30	5.20	4.93	-92.65	123.53	41.05	107.18	97.03	10.15	10.561		
1,000.00	991.63	983.90	977.50	5.66	5.27	-93.24	140.18	54.34	119.64	108.69	10.95	10.927		
1,100.00	1,089.63	1,081.90	1,072.43	6.15	5.65	-92.52	159.03	69.75	133.43	121.63	11.80	11.307		
1,200.00	1,187.62	1,180.89	1,168.18	6.65	6.05	-91.74	178.45	85.68	147.48	134.78	12.69	11.617		
1,300.00	1,285.62	1,279.88	1,263.93	7.17	6.47	-91.09	197.87	101.61	161.55	147.93	13.62	11.860		
1,400.00	1,383.61	1,378.87	1,359.68	7.71	6.90	-90.55	217.29	117.55	175.64	161.07	14.57	12.053		
1,500.00	1,481.60	1,477.86	1,455.43	8.25	7.34	-90.09	236.71	133.48	189.74	174.20	15.54	12.207		
1,600.00	1,579.60	1,576.85	1,551.18	8.80	7.80	-89.69	256.12	149.42	203.85	187.32	16.53	12.330		
1,700.00	1,677.59	1,675.84	1,646.93	9.36	8.26	-89.35	275.54	165.35	217.97	200.44	17.54	12.430		
1,800.00	1,775.59	1,774.83	1,742.68	9.92	8.73	-89.04	294.96	181.28	232.10	213.55	18.55	12.511		
1,900.00	1,873.58	1,873.82	1,838.43	10.49	9.20	-88.77	314.38	197.22	246.23	226.66	19.58	12.578		
2,000.00	1,971.57	1,972.81	1,934.18	11.06	9.68	-88.53	333.80	213.15	260.37	239.76	20.61	12.634		
2,100.00	2,069.57	2,071.80	2,029.93	11.64	10.16	-88.32	353.22	229.09	274.51	252.86	21.65	12.679		
2,200.00	2,167.56	2,170.79	2,125.68	12.22	10.64	-88.12	372.64	245.02	288.66	265.96	22.70	12.718		
2,300.00	2,265.56	2,269.78	2,221.43	12.80	11.13	-87.95	392.06	260.95	302.81	279.06	23.75	12.750		
2,400.00	2,363.55	2,368.77	2,317.18	13.38	11.62	-87.79	411.48	276.89	316.96	292.15	24.81	12.776		
2,500.00	2,461.54	2,467.76	2,412.93	13.97	12.11	-87.64	430.90	292.82	331.11	305.24	25.87	12.799		
2,600.00	2,559.54	2,566.75	2,508.68	14.55	12.60	-87.51	450.31	308.75	345.26	318.33	26.93	12.818		
2,700.00	2,657.53	2,665.74	2,604.43	15.14	13.10	-87.38	469.73	324.69	359.42	331.42	28.00	12.835		
2,800.00	2,755.53	2,764.73	2,700.18	15.73	13.60	-87.27	489.15	340.62	373.58	344.50	29.08	12.849		
2,900.00	2,853.52	2,863.72	2,795.93	16.32	14.10	-87.16	508.57	356.56	387.74	357.59	30.15	12.861		
3,000.00	2,951.52	2,962.71	2,891.68	16.91	14.60	-87.06	527.99	372.49	401.90	370.67	31.23	12.871		
3,100.00	3,049.51	3,061.70	2,987.43	17.51	15.10	-86.97	547.41	388.42	416.06	383.76	32.30	12.879		
3,200.00	3,147.50	3,160.69	3,083.18	18.10	15.60	-86.89	566.83	404.36	430.22	396.84	33.39	12.887		
3,300.00	3,245.50	3,259.68	3,178.93	18.70	16.11	-86.80	586.25	420.29	444.39	409.92	34.47	12.893		
3,400.00	3,343.49	3,358.67	3,274.68	19.29	16.61	-86.73	605.67	436.23	458.55	423.00	35.55	12.898		
3,500.00	3,441.49	3,457.66	3,370.43	19.89	17.12	-86.66	625.09	452.16	472.72	436.08	36.64	12.903		
3,600.00	3,539.48	3,556.65	3,466.18	20.48	17.62	-86.59	644.50	468.09	486.88	449.16	37.72	12.907		
3,700.00	3,637.47	3,655.64	3,561.93	21.08	18.13	-86.53	663.92	484.03	501.05	462.24	38.81	12.910		
3,800.00	3,735.47	3,754.63	3,657.68	21.68	18.64	-86.47	683.34	499.96	515.22	475.32	39.90	12.912		
3,900.00	3,833.46	3,853.62	3,753.43	22.27	19.14	-86.41	702.76	515.90	529.38	488.39	40.99	12.915		
4,000.00	3,931.46	3,952.61	3,849.18	22.87	19.65	-86.36	722.18	531.83	543.55	501.47	42.08	12.917		
4,100.00	4,029.45	4,051.60	3,944.93	23.47	20.16	-86.31	741.60	547.76	557.72	514.55	43.17	12.918		
4,200.00	4,127.44	4,150.59	4,040.68	24.07	20.67	-86.26	761.02	563.70	571.89	527.62	44.27	12.919		
4,300.00	4,225.44	4,249.58	4,136.43	24.67	21.18	-86.21	780.44	579.63	586.06	540.70	45.36	12.920		
4,400.00	4,323.43	4,348.57	4,232.18	25.27	21.69	-86.17	799.86	595.57	600.23	553.78	46.45	12.921		
4,507.81	4,429.08	4,455.29	4,335.40	25.92	22.24	-86.13	820.79	612.74	615.51	567.87	47.63	12.922		
4,600.00	4,519.70	4,546.51	4,423.64	26.45	22.71	-86.22	838.69	627.43	628.67	580.05	48.62	12.930		
4,700.00	4,618.56	4,645.31	4,519.20	26.98	23.22	-86.03	858.07	643.33	643.19	593.56	49.63	12.959		
4,800.00	4,717.88	4,743.82	4,614.49	27.46	23.73	-85.57	877.39	659.19	658.03	607.44	50.59	13.007		
4,900.00	4,817.54	4,841.94	4,709.39	27.89	24.23	-84.85	896.64	674.98	673.30	621.81	51.49	13.077		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,939.53	4,803.79	28.28	24.74	-83.92	915.79	690.69	689.15	636.82	52.32	13.171		
5,082.58	5,000.00	5,019.65	4,881.29	28.57	25.15	-9.84	931.50	703.59	702.80	649.83	52.96	13.269		
5,100.00	5,017.42	5,036.50	4,897.59	28.62	25.24	-9.58	934.81	706.30	705.75	652.65	53.09	13.292		
5,200.00	5,117.42	5,133.22	4,991.15	28.95	25.74	-8.09	953.78	721.87	722.97	669.13	53.84	13.427		
5,300.00	5,217.42	5,229.95	5,084.71	29.28	26.24	-6.66	972.76	737.44	740.67	686.08	54.59	13.567		
5,400.00	5,317.42	5,326.68	5,178.27	29.62	26.74	-5.31	991.73	753.01	758.80	703.46	55.34	13.712		
5,500.00	5,417.42	5,423.40	5,271.83	29.96	27.24	-4.01	1,010.71	768.58	777.34	721.25	56.09	13.859		
5,600.00	5,517.42	5,520.13	5,365.39	30.29	27.74	-2.78	1,029.68	784.15	796.25	739.41	56.84	14.009		
5,700.00	5,617.42	5,616.86	5,458.95	30.64	28.25	-1.60	1,048.66	799.72	815.51	757.92	57.59	14.160		
5,800.00	5,717.42	5,713.58	5,552.51	30.98	28.75	-0.47	1,067.63	815.29	835.11	776.76	58.34	14.313		
5,900.00	5,817.42	5,810.31	5,646.07	31.33	29.25	0.61	1,086.61	830.86	855.00	795.90	59.10	14.467		
6,000.00	5,917.42	5,907.04	5,739.63	31.68	29.75	1.63	1,105.58	846.42	875.18	815.32	59.86	14.620		
6,100.00	6,017.42	6,003.76	5,833.19	32.03	30.25	2.62	1,124.56	861.99	895.62	835.00	60.62	14.773		
6,200.00	6,117.42	6,100.49	5,926.75	32.38	30.75	3.55	1,143.53	877.56	916.31	854.93	61.39	14.926		
6,300.00	6,217.42	6,202.78	6,020.31	32.74	31.29	4.45	1,162.51	893.13	937.24	875.05	62.19	15.071		
6,400.00	6,317.42	6,293.95	6,113.88	33.09	31.76	5.31	1,181.48	908.70	958.37	895.44	62.93	15.229		
6,476.01	6,393.43	6,367.47	6,184.99	33.37	32.14	5.94	1,195.91	920.54	974.57	911.05	63.52	15.343		
6,500.00	6,417.42	6,390.59	6,207.36	33.45	32.26	98.02	1,200.44	924.26	979.77	916.07	63.70	15.381		
6,550.00	6,467.25	6,451.48	6,266.57	33.59	32.56	97.66	1,212.35	931.82	990.80	926.63	64.17	15.441		
6,600.00	6,516.64	6,516.13	6,329.96	33.71	32.85	97.28	1,224.81	933.54	1,001.64	937.01	64.63	15.499		
6,650.00	6,565.26	6,582.34	6,394.76	33.80	33.11	96.84	1,237.25	928.51	1,012.20	947.15	65.05	15.559		
6,700.00	6,612.83	6,650.00	6,460.15	33.88	33.35	96.34	1,249.49	916.33	1,022.37	956.91	65.46	15.619		
6,750.00	6,659.04	6,718.95	6,525.15	33.94	33.58	95.79	1,261.32	896.73	1,032.05	966.21	65.84	15.675		
6,800.00	6,703.62	6,788.97	6,588.71	33.99	33.82	95.17	1,272.54	869.65	1,041.16	974.95	66.21	15.724		
6,850.00	6,746.28	6,859.81	6,649.70	34.03	34.05	94.50	1,282.93	835.22	1,049.62	983.03	66.59	15.762		
6,900.00	6,786.76	6,931.17	6,707.01	34.08	34.31	93.78	1,292.29	793.82	1,057.36	990.36	67.00	15.782		
6,950.00	6,824.83	7,002.70	6,759.59	34.13	34.58	93.01	1,300.44	746.07	1,064.32	996.87	67.45	15.779		
7,000.00	6,860.23	7,074.06	6,806.52	34.20	34.90	92.19	1,307.24	692.80	1,070.48	1,002.49	67.99	15.745		
7,050.00	6,892.75	7,144.90	6,847.08	34.30	35.27	91.34	1,312.60	635.01	1,075.79	1,007.17	68.62	15.677		
7,100.00	6,922.20	7,214.91	6,880.75	34.43	35.71	90.47	1,316.46	573.80	1,080.27	1,010.89	69.37	15.572		
7,150.00	6,948.38	7,283.78	6,907.28	34.60	36.21	89.58	1,318.82	510.31	1,083.90	1,013.65	70.25	15.430		
7,200.00	6,971.15	7,351.29	6,926.62	34.82	36.79	88.68	1,319.73	445.68	1,086.70	1,015.47	71.23	15.256		
7,250.00	6,990.35	7,417.23	6,938.93	35.09	37.42	87.79	1,319.26	380.93	1,088.70	1,016.37	72.33	15.053		
7,300.00	7,005.87	7,481.47	6,944.55	35.43	38.10	86.92	1,317.52	316.99	1,089.92	1,016.42	73.50	14.829		
7,350.00	7,017.62	7,537.10	6,944.77	35.81	38.74	86.19	1,315.09	261.42	1,090.48	1,015.84	74.64	14.610		
7,400.00	7,025.52	7,586.38	6,944.32	36.26	39.35	85.73	1,312.81	212.19	1,090.80	1,015.05	75.75	14.400		
7,450.00	7,029.52	7,636.17	6,943.86	36.75	40.01	85.49	1,310.51	162.45	1,090.87	1,013.91	76.95	14.175		
7,483.86	7,030.00	7,670.02	6,943.56	37.12	40.48	85.46	1,308.95	128.64	1,090.75	1,012.94	77.81	14.018		
7,500.00	7,029.80	7,686.15	6,943.41	37.30	40.71	85.46	1,308.21	112.52	1,090.66	1,012.43	78.22	13.943		
7,600.00	7,028.57	7,786.15	6,942.50	38.58	42.22	85.47	1,303.59	12.64	1,090.09	1,009.02	81.06	13.447		
7,700.00	7,027.34	7,886.15	6,941.58	40.10	43.88	85.49	1,298.97	-87.25	1,089.52	1,005.25	84.27	12.930		
7,800.00	7,026.10	7,986.15	6,940.67	41.83	45.66	85.50	1,294.35	-187.14	1,088.95	1,001.16	87.79	12.405		
7,900.00	7,024.87	8,086.15	6,939.76	43.74	47.54	85.52	1,289.74	-287.02	1,088.38	996.79	91.59	11.883		
8,000.00	7,023.63	8,186.14	6,938.85	45.82	49.52	85.53	1,285.12	-386.91	1,087.81	992.17	95.64	11.374		
8,100.00	7,022.40	8,286.14	6,937.94	48.04	51.58	85.55	1,280.50	-486.80	1,087.24	987.33	99.91	10.882		
8,200.00	7,021.17	8,386.14	6,937.03	50.38	53.71	85.56	1,275.89	-586.69	1,086.67	982.30	104.37	10.412		
8,300.00	7,019.93	8,486.14	6,936.11	52.82	55.90	85.58	1,271.27	-686.57	1,086.10	977.10	109.00	9.964		
8,400.00	7,018.70	8,586.14	6,935.20	55.35	58.16	85.59	1,266.65	-786.46	1,085.53	971.76	113.77	9.541		
8,500.00	7,017.47	8,686.13	6,934.29	57.97	60.46	85.61	1,262.04	-886.35	1,084.96	966.29	118.67	9.142		
8,600.00	7,016.23	8,786.13	6,933.38	60.65	62.80	85.62	1,257.42	-986.23	1,084.39	960.71	123.69	8.767		
8,700.00	7,015.00	8,886.13	6,932.47	63.39	65.19	85.64	1,252.80	-1,086.12	1,083.82	955.02	128.80	8.415		
8,800.00	7,013.76	8,986.13	6,931.56	66.19	67.61	85.65	1,248.18	-1,186.01	1,083.25	949.26	134.00	8.084		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	9,086.13	6,930.64	69.03	70.06	85.67	1,243.57	-1,285.90	1,082.69	943.41	139.28	7.774		
9,000.00	7,011.30	9,186.12	6,929.73	71.91	72.54	85.68	1,238.95	-1,385.78	1,082.12	937.49	144.62	7.482		
9,100.00	7,010.06	9,286.12	6,928.82	74.83	75.05	85.70	1,234.33	-1,485.67	1,081.55	931.52	150.03	7.209		
9,200.00	7,008.83	9,386.12	6,927.91	77.78	77.58	85.71	1,229.72	-1,585.56	1,080.98	925.49	155.49	6.952		
9,300.00	7,007.60	9,486.12	6,927.00	80.76	80.13	85.73	1,225.10	-1,685.45	1,080.41	919.40	161.01	6.710		
9,400.00	7,006.36	9,586.12	6,926.09	83.76	82.70	85.74	1,220.48	-1,785.33	1,079.84	913.28	166.56	6.483		
9,500.00	7,005.13	9,686.11	6,925.17	86.79	85.28	85.76	1,215.86	-1,885.22	1,079.27	907.11	172.16	6.269		
9,600.00	7,003.90	9,786.11	6,924.26	89.84	87.89	85.77	1,211.25	-1,985.11	1,078.71	900.91	177.79	6.067		
9,700.00	7,002.66	9,886.11	6,923.35	92.90	90.50	85.79	1,206.63	-2,084.99	1,078.14	894.68	183.46	5.877		
9,800.00	7,001.43	9,986.11	6,922.44	95.99	93.13	85.80	1,202.01	-2,184.88	1,077.57	888.41	189.16	5.697		
9,900.00	7,000.19	10,086.11	6,921.53	99.08	95.77	85.81	1,197.40	-2,284.77	1,077.00	882.12	194.88	5.526		
10,000.00	6,998.96	10,186.10	6,920.62	102.19	98.42	85.83	1,192.78	-2,384.66	1,076.43	875.80	200.63	5.365		
10,100.00	6,997.73	10,286.10	6,919.70	105.32	101.08	85.84	1,188.16	-2,484.54	1,075.87	869.47	206.40	5.213		
10,200.00	6,996.49	10,386.10	6,918.79	108.45	103.76	85.86	1,183.55	-2,584.43	1,075.30	863.10	212.19	5.068		
10,300.00	6,995.26	10,486.10	6,917.88	111.60	106.44	85.87	1,178.93	-2,684.32	1,074.73	856.72	218.00	4.930		
10,400.00	6,994.03	10,586.10	6,916.97	114.75	109.12	85.89	1,174.31	-2,784.20	1,074.16	850.33	223.83	4.799		
10,500.00	6,992.79	10,686.09	6,916.06	117.92	111.82	85.90	1,169.69	-2,884.09	1,073.59	843.91	229.68	4.674		
10,600.00	6,991.56	10,786.09	6,915.15	121.09	114.52	85.92	1,165.08	-2,983.98	1,073.03	837.48	235.54	4.556		
10,700.00	6,990.33	10,886.09	6,914.23	124.27	117.23	85.94	1,160.46	-3,083.87	1,072.46	831.04	241.42	4.442		
10,800.00	6,989.09	10,986.09	6,913.32	127.46	119.94	85.95	1,155.84	-3,183.75	1,071.89	824.58	247.31	4.334		
10,900.00	6,987.86	11,086.09	6,912.41	130.65	122.66	85.97	1,151.23	-3,283.64	1,071.32	818.11	253.21	4.231		
11,000.00	6,986.62	11,186.08	6,911.50	133.85	125.39	85.98	1,146.61	-3,383.53	1,070.76	811.63	259.12	4.132		
11,100.00	6,985.39	11,286.08	6,910.59	137.06	128.12	86.00	1,141.99	-3,483.41	1,070.19	805.14	265.05	4.038		
11,200.00	6,984.16	11,386.08	6,909.68	140.27	130.86	86.01	1,137.38	-3,583.30	1,069.62	798.64	270.98	3.947		
11,300.00	6,982.92	11,486.08	6,908.76	143.48	133.59	86.03	1,132.76	-3,683.19	1,069.06	792.13	276.92	3.860		
11,400.00	6,981.69	11,586.08	6,907.85	146.70	136.34	86.04	1,128.14	-3,783.08	1,068.49	785.61	282.88	3.777		
11,500.00	6,980.46	11,686.07	6,906.94	149.92	139.09	86.06	1,123.52	-3,882.96	1,067.92	779.09	288.84	3.697		
11,600.00	6,979.22	11,786.07	6,906.03	153.15	141.84	86.07	1,118.91	-3,982.85	1,067.36	772.55	294.80	3.621		
11,700.00	6,977.99	11,886.07	6,905.12	156.38	144.59	86.09	1,114.29	-4,082.74	1,066.79	766.01	300.78	3.547		
11,800.00	6,976.75	11,986.07	6,904.21	159.62	147.35	86.10	1,109.67	-4,182.62	1,066.22	759.46	306.76	3.476		
11,900.00	6,975.52	12,086.07	6,903.29	162.86	150.11	86.12	1,105.06	-4,282.51	1,065.66	752.90	312.75	3.407		
12,000.00	6,974.29	12,186.06	6,902.38	166.10	152.87	86.13	1,100.44	-4,382.40	1,065.09	746.34	318.75	3.342		
12,100.00	6,973.05	12,286.06	6,901.47	169.34	155.64	86.15	1,095.82	-4,482.29	1,064.52	739.78	324.75	3.278		
12,200.00	6,971.82	12,386.06	6,900.56	172.59	158.40	86.16	1,091.20	-4,582.17	1,063.96	733.20	330.75	3.217		
12,300.00	6,970.59	12,486.06	6,899.65	175.84	161.18	86.18	1,086.59	-4,682.06	1,063.39	726.63	336.76	3.158		
12,400.00	6,969.35	12,586.06	6,898.74	179.09	163.95	86.19	1,081.97	-4,781.95	1,062.82	720.04	342.78	3.101		
12,500.00	6,968.12	12,686.05	6,897.82	182.35	166.72	86.21	1,077.35	-4,881.84	1,062.26	713.46	348.80	3.045		
12,600.00	6,966.89	12,786.05	6,896.91	185.60	169.50	86.22	1,072.74	-4,981.72	1,061.69	706.86	354.83	2.992		
12,700.00	6,965.65	12,886.05	6,896.00	188.86	172.28	86.24	1,068.12	-5,081.61	1,061.12	700.27	360.86	2.941		
12,800.00	6,964.42	12,986.05	6,895.09	192.12	175.06	86.26	1,063.50	-5,181.50	1,060.56	693.67	366.89	2.891		
12,900.00	6,963.18	13,086.05	6,894.18	195.38	177.84	86.27	1,058.89	-5,281.38	1,059.99	687.06	372.93	2.842		
13,000.00	6,961.95	13,186.04	6,893.27	198.65	180.63	86.29	1,054.27	-5,381.27	1,059.43	680.46	378.97	2.796		
13,100.00	6,960.72	13,286.04	6,892.35	201.91	183.42	86.30	1,049.65	-5,481.16	1,058.86	673.85	385.02	2.750		
13,200.00	6,959.48	13,386.04	6,891.44	205.18	186.20	86.32	1,045.03	-5,581.05	1,058.30	667.23	391.07	2.706		
13,300.00	6,958.25	13,486.04	6,890.53	208.45	188.99	86.33	1,040.42	-5,680.93	1,057.73	660.61	397.12	2.664		
13,400.00	6,957.02	13,586.04	6,889.62	211.72	191.78	86.35	1,035.80	-5,780.82	1,057.17	653.99	403.17	2.622		
13,500.00	6,955.78	13,686.03	6,888.71	214.99	194.58	86.36	1,031.18	-5,880.71	1,056.60	647.37	409.23	2.582		
13,600.00	6,954.55	13,786.03	6,887.80	218.27	197.37	86.38	1,026.57	-5,980.59	1,056.03	640.74	415.29	2.543		
13,700.00	6,953.32	13,886.03	6,886.88	221.54	200.16	86.40	1,021.95	-6,080.48	1,055.47	634.12	421.35	2.505		
13,800.00	6,952.08	13,986.03	6,885.97	224.82	202.96	86.41	1,017.33	-6,180.37	1,054.90	627.48	427.42	2.468		
13,900.00	6,950.85	14,086.03	6,885.06	228.10	205.76	86.43	1,012.71	-6,280.26	1,054.34	620.85	433.49	2.432		
14,000.00	6,949.61	14,186.02	6,884.15	231.37	208.56	86.44	1,008.10	-6,380.14	1,053.77	614.21	439.56	2.397		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - Boomerang 32N-6B-M - OH - Plan #1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,100.00	6,948.38	14,286.02	6,883.24	234.65	211.36	86.46	1,003.48	-6,480.03	1,053.21	607.58	445.63	2.363	
14,200.00	6,947.15	14,386.02	6,882.33	237.93	214.16	86.47	998.86	-6,579.92	1,052.64	600.94	451.71	2.330	
14,300.00	6,945.91	14,486.02	6,881.41	241.22	216.96	86.49	994.25	-6,679.80	1,052.08	594.29	457.79	2.298	
14,400.00	6,944.68	14,586.02	6,880.50	244.50	219.76	86.50	989.63	-6,779.69	1,051.52	587.65	463.87	2.267	
14,500.00	6,943.45	14,686.01	6,879.59	247.78	222.56	86.52	985.01	-6,879.58	1,050.95	581.00	469.95	2.236	
14,600.00	6,942.21	14,786.01	6,878.68	251.07	225.37	86.54	980.40	-6,979.47	1,050.39	574.35	476.03	2.207	
14,700.00	6,940.98	14,886.01	6,877.77	254.35	228.17	86.55	975.78	-7,079.35	1,049.82	567.70	482.12	2.178	
14,800.00	6,939.74	14,986.01	6,876.86	257.64	230.98	86.57	971.16	-7,179.24	1,049.26	561.05	488.20	2.149	
14,900.00	6,938.51	15,086.01	6,875.94	260.92	233.78	86.58	966.54	-7,279.13	1,048.69	554.40	494.29	2.122	
15,000.00	6,937.28	15,186.00	6,875.03	264.21	236.59	86.60	961.93	-7,379.01	1,048.13	547.75	500.38	2.095	
15,100.00	6,936.04	15,286.00	6,874.12	267.50	239.40	86.61	957.31	-7,478.90	1,047.56	541.09	506.48	2.068	
15,200.00	6,934.81	15,386.00	6,873.21	270.79	242.21	86.63	952.69	-7,578.79	1,047.00	534.43	512.57	2.043	
15,300.00	6,933.58	15,486.00	6,872.30	274.08	245.02	86.65	948.08	-7,678.68	1,046.44	527.77	518.67	2.018	
15,400.00	6,932.34	15,585.99	6,871.39	277.37	247.83	86.66	943.46	-7,778.56	1,045.87	521.11	524.76	1.993	
15,500.00	6,931.11	15,685.99	6,870.47	280.66	250.64	86.68	938.84	-7,878.45	1,045.31	514.45	530.86	1.969	
15,558.43	6,930.39	15,738.53	6,869.99	282.58	252.11	86.69	936.42	-7,930.93	1,045.00	510.73	534.27	1.956	
15,589.88	6,930.00	15,738.53	6,869.99	283.62	252.11	86.69	936.42	-7,930.93	1,045.47	510.39	535.08	1.954 SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	5.68	44.81	4.45	45.03					
100.00	100.00	100.00	100.00	3.28	3.28	5.68	44.81	4.45	45.03	38.46	6.57	6.854		
200.00	200.00	200.00	200.00	3.34	3.34	5.68	44.81	4.45	45.03	38.36	6.67	6.747		
300.00	299.98	299.98	299.98	3.44	3.44	-69.56	44.81	4.45	44.39	37.50	6.89	6.444		
375.70	375.59	374.82	374.81	3.56	3.56	-73.10	45.48	5.17	43.92	36.80	7.12	6.169 CC		
400.00	399.84	398.85	398.83	3.60	3.60	-74.37	45.97	5.70	43.97	36.77	7.21	6.103 ES		
500.00	499.45	497.77	497.62	3.81	3.80	-80.04	49.46	9.44	45.30	37.67	7.62	5.943		
600.00	598.70	596.72	596.19	4.08	4.04	-85.89	55.28	15.68	48.53	40.40	8.13	5.971		
700.00	697.47	695.66	694.40	4.40	4.32	-91.31	63.41	24.40	53.73	45.01	8.72	6.162		
774.77	770.92	769.61	767.51	4.68	4.54	-94.83	71.00	32.54	58.90	49.68	9.22	6.389		
800.00	795.65	794.56	792.11	4.78	4.62	-95.84	73.85	35.60	60.87	51.47	9.40	6.478		
900.00	893.64	910.62	889.15	5.20	5.01	-97.57	86.56	49.23	69.47	59.27	10.21	6.805		
1,000.00	991.63	1,007.05	986.53	5.66	5.36	-97.51	100.73	64.42	78.74	67.72	11.01	7.149		
1,100.00	1,089.63	1,107.48	1,083.91	6.15	5.74	-97.47	114.89	79.61	88.00	76.12	11.88	7.408		
1,200.00	1,187.62	1,192.09	1,181.29	6.65	6.08	-97.43	129.06	94.80	97.26	84.55	12.71	7.650		
1,300.00	1,285.62	1,291.66	1,278.67	7.17	6.49	-97.40	143.22	109.99	106.53	92.89	13.64	7.810		
1,400.00	1,383.61	1,408.77	1,376.05	7.71	6.99	-97.37	157.39	125.18	115.79	101.13	14.66	7.897		
1,500.00	1,481.60	1,509.20	1,473.43	8.25	7.42	-97.35	171.55	140.37	125.05	109.42	15.63	7.999		
1,600.00	1,579.60	1,609.63	1,570.81	8.80	7.87	-97.33	185.72	155.56	134.31	117.69	16.62	8.081		
1,700.00	1,677.59	1,689.94	1,668.19	9.36	8.23	-97.32	199.88	170.75	143.58	126.04	17.53	8.189		
1,800.00	1,775.59	1,789.51	1,765.57	9.92	8.68	-97.30	214.05	185.94	152.84	134.30	18.54	8.244		
1,900.00	1,873.58	1,889.08	1,862.95	10.49	9.13	-97.29	228.21	201.13	162.10	142.55	19.56	8.289		
2,000.00	1,971.57	1,988.65	1,960.33	11.06	9.59	-97.28	242.38	216.32	171.37	150.79	20.58	8.327		
2,100.00	2,069.57	2,088.22	2,057.71	11.64	10.05	-97.27	256.54	231.51	180.63	159.02	21.61	8.358		
2,200.00	2,167.56	2,187.79	2,155.09	12.22	10.52	-97.26	270.71	246.70	189.89	167.24	22.65	8.384		
2,300.00	2,265.56	2,287.36	2,252.47	12.80	10.99	-97.25	284.87	261.89	199.15	175.46	23.69	8.407		
2,400.00	2,363.55	2,386.93	2,349.85	13.38	11.46	-97.24	299.04	277.08	208.42	183.68	24.74	8.425		
2,500.00	2,461.54	2,486.50	2,447.23	13.97	11.93	-97.24	313.20	292.27	217.68	191.89	25.79	8.441		
2,600.00	2,559.54	2,586.07	2,544.61	14.55	12.40	-97.23	327.37	307.46	226.94	200.10	26.84	8.455		
2,700.00	2,657.53	2,685.64	2,641.99	15.14	12.88	-97.22	341.53	322.65	236.21	208.31	27.90	8.466		
2,800.00	2,755.53	2,785.21	2,739.37	15.73	13.35	-97.22	355.70	337.84	245.47	216.51	28.96	8.476		
2,900.00	2,853.52	2,884.78	2,836.74	16.32	13.83	-97.21	369.86	353.03	254.73	224.71	30.02	8.485		
3,000.00	2,951.52	2,984.35	2,934.12	16.91	14.31	-97.21	384.03	368.22	263.99	232.91	31.09	8.492		
3,100.00	3,049.51	3,083.92	3,031.50	17.51	14.79	-97.20	398.19	383.41	273.26	241.10	32.15	8.499		
3,200.00	3,147.50	3,183.49	3,128.88	18.10	15.27	-97.20	412.36	398.60	282.52	249.30	33.22	8.504		
3,300.00	3,245.50	3,283.06	3,226.26	18.70	15.75	-97.20	426.52	413.79	291.78	257.49	34.29	8.509		
3,400.00	3,343.49	3,382.63	3,323.64	19.29	16.23	-97.19	440.69	428.98	301.05	265.68	35.36	8.513		
3,500.00	3,441.49	3,482.20	3,421.02	19.89	16.72	-97.19	454.85	444.17	310.31	273.87	36.44	8.517		
3,600.00	3,539.48	3,581.77	3,518.40	20.48	17.20	-97.19	469.02	459.36	319.57	282.06	37.51	8.520		
3,700.00	3,637.47	3,681.34	3,615.78	21.08	17.69	-97.18	483.18	474.55	328.84	290.25	38.59	8.522		
3,800.00	3,735.47	3,780.91	3,713.16	21.68	18.17	-97.18	497.35	489.74	338.10	298.44	39.66	8.525		
3,900.00	3,833.46	3,880.48	3,810.54	22.27	18.66	-97.18	511.51	504.93	347.36	306.62	40.74	8.527		
4,000.00	3,931.46	3,980.05	3,907.92	22.87	19.14	-97.17	525.68	520.12	356.62	314.81	41.82	8.528		
4,100.00	4,029.45	4,079.62	4,005.30	23.47	19.63	-97.17	539.84	535.31	365.89	322.99	42.90	8.530		
4,200.00	4,127.44	4,179.19	4,102.68	24.07	20.12	-97.17	554.01	550.50	375.15	331.17	43.98	8.531		
4,300.00	4,225.44	4,278.76	4,200.06	24.67	20.60	-97.17	568.17	565.69	384.41	339.36	45.06	8.532		
4,400.00	4,323.43	4,378.33	4,297.44	25.27	21.09	-97.16	582.33	580.88	393.68	347.54	46.14	8.533		
4,507.81	4,429.08	4,485.68	4,402.42	25.92	21.62	-97.16	597.61	597.26	403.66	356.36	47.30	8.533		
4,600.00	4,519.70	4,577.47	4,492.20	26.45	22.07	-97.12	610.67	611.26	412.02	363.73	48.29	8.533		
4,700.00	4,618.56	4,676.97	4,589.51	26.98	22.55	-96.63	624.82	626.44	420.70	371.39	49.31	8.531		
4,800.00	4,717.88	4,776.28	4,686.63	27.46	23.04	-95.69	638.95	641.59	429.09	378.79	50.30	8.531		
4,900.00	4,817.54	4,875.27	4,783.45	27.89	23.53	-94.34	653.03	656.69	437.36	386.13	51.23	8.537		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,973.83	4,879.84	28.28	24.01	-92.62	667.05	671.73	445.77	393.66	52.11	8.554		
5,082.58	5,000.00	5,054.80	4,959.03	28.57	24.41	-17.80	678.57	684.08	453.02	400.23	52.79	8.581		
5,100.00	5,017.42	5,071.84	4,975.69	28.62	24.49	-17.39	680.99	686.68	454.61	401.68	52.93	8.588		
5,200.00	5,117.42	5,169.64	5,071.34	28.95	24.97	-15.11	694.91	701.60	464.17	410.45	53.72	8.641		
5,300.00	5,217.42	5,267.44	5,166.99	29.28	25.46	-12.92	708.82	716.52	474.45	419.96	54.49	8.707		
5,400.00	5,317.42	5,365.24	5,262.64	29.62	25.94	-10.82	722.73	731.44	485.41	430.16	55.25	8.785		
5,500.00	5,417.42	5,463.04	5,358.29	29.96	26.42	-8.82	736.65	746.36	497.01	441.00	56.01	8.874		
5,600.00	5,517.42	5,560.84	5,453.94	30.29	26.90	-6.90	750.56	761.28	509.20	452.44	56.75	8.972		
5,700.00	5,617.42	5,658.64	5,549.58	30.64	27.38	-5.08	764.47	776.20	521.93	464.43	57.50	9.078		
5,800.00	5,717.42	5,756.44	5,645.23	30.98	27.86	-3.34	778.39	791.12	535.18	476.94	58.23	9.190		
5,900.00	5,817.42	5,854.24	5,740.88	31.33	28.34	-1.68	792.30	806.04	548.90	489.92	58.97	9.308		
6,000.00	5,917.42	5,952.04	5,836.53	31.68	28.83	-0.11	806.21	820.96	563.05	503.35	59.71	9.430		
6,100.00	6,017.42	6,049.84	5,932.18	32.03	29.31	1.39	820.13	835.88	577.62	517.17	60.45	9.556		
6,200.00	6,117.42	6,147.64	6,027.83	32.38	29.79	2.82	834.04	850.80	592.56	531.38	61.18	9.685		
6,300.00	6,217.42	6,245.44	6,123.48	32.74	30.27	4.17	847.95	865.72	607.85	545.92	61.92	9.816		
6,400.00	6,317.42	6,343.24	6,219.13	33.09	30.76	5.47	861.87	880.64	623.46	560.79	62.67	9.949		
6,476.01	6,393.43	6,419.05	6,293.27	33.37	31.13	6.42	872.65	892.14	635.52	572.27	63.25	10.048		
6,500.00	6,417.42	6,447.05	6,320.80	33.45	31.26	98.71	876.60	895.39	639.29	575.82	63.47	10.072		
6,550.00	6,467.25	6,506.04	6,379.13	33.59	31.52	98.58	884.80	898.24	647.08	583.19	63.89	10.128		
6,600.00	6,516.64	6,565.85	6,438.31	33.71	31.76	98.39	892.85	895.55	654.70	590.43	64.27	10.187		
6,650.00	6,565.26	6,626.42	6,497.75	33.80	31.98	98.14	900.68	887.14	662.10	597.48	64.62	10.246		
6,700.00	6,612.83	6,687.66	6,556.82	33.88	32.20	97.83	908.18	872.89	669.20	604.26	64.94	10.305		
6,750.00	6,659.04	6,749.48	6,614.82	33.94	32.43	97.45	915.26	852.78	675.95	610.70	65.24	10.360		
6,800.00	6,703.62	6,811.77	6,671.06	33.99	32.66	97.02	921.84	826.89	682.28	616.74	65.54	10.410		
6,850.00	6,746.28	6,874.40	6,724.85	34.03	32.90	96.54	927.81	795.41	688.16	622.32	65.85	10.451		
6,900.00	6,786.76	6,937.23	6,775.50	34.08	33.16	96.00	933.10	758.65	693.55	627.37	66.17	10.481		
6,950.00	6,824.83	7,000.12	6,822.39	34.13	33.44	95.42	937.65	717.02	698.39	631.85	66.55	10.495		
7,000.00	6,860.23	7,062.92	6,864.94	34.20	33.76	94.80	941.40	671.03	702.68	635.69	66.99	10.489		
7,050.00	6,892.75	7,125.47	6,902.68	34.30	34.12	94.14	944.31	621.27	706.40	638.87	67.52	10.461		
7,100.00	6,922.20	7,187.63	6,935.24	34.43	34.53	93.45	946.35	568.38	709.52	641.36	68.16	10.410		
7,150.00	6,948.38	7,249.27	6,962.34	34.60	35.00	92.73	947.53	513.06	712.05	643.15	68.91	10.334		
7,200.00	6,971.15	7,310.26	6,983.83	34.82	35.52	92.00	947.85	456.01	714.00	644.22	69.78	10.232		
7,250.00	6,990.35	7,370.50	6,999.66	35.09	36.10	91.26	947.34	397.91	715.37	644.60	70.77	10.109		
7,300.00	7,005.87	7,429.90	7,009.88	35.43	36.71	90.51	946.04	339.43	716.18	644.33	71.85	9.967		
7,350.00	7,017.62	7,488.38	7,014.62	35.81	37.37	89.76	943.99	281.20	716.44	643.42	73.02	9.811		
7,400.00	7,025.52	7,542.03	7,014.77	36.26	38.01	89.10	941.52	227.62	716.25	642.04	74.21	9.651		
7,450.00	7,029.52	7,591.81	7,014.29	36.75	38.63	88.77	939.15	177.89	715.98	640.60	75.39	9.498		
7,483.86	7,030.00	7,625.66	7,013.96	37.12	39.10	88.72	937.54	144.08	715.76	639.53	76.23	9.389		
7,500.00	7,029.80	7,641.80	7,013.80	37.30	39.33	88.72	936.77	127.96	715.65	639.01	76.65	9.337		
7,600.00	7,028.57	7,741.80	7,012.84	38.58	40.80	88.74	932.00	28.09	714.95	635.52	79.43	9.001		
7,700.00	7,027.34	7,841.79	7,011.87	40.10	42.41	88.76	927.23	-71.79	714.24	631.66	82.58	8.649		
7,800.00	7,026.10	7,941.79	7,010.91	41.83	44.16	88.78	922.46	-171.67	713.54	627.48	86.06	8.291		
7,900.00	7,024.87	8,041.79	7,009.94	43.74	46.01	88.81	917.69	-271.55	712.83	623.00	89.83	7.935		
8,000.00	7,023.63	8,141.78	7,008.98	45.82	47.96	88.83	912.92	-371.43	712.13	618.26	93.86	7.587		
8,100.00	7,022.40	8,241.78	7,008.01	48.04	49.99	88.85	908.15	-471.31	711.42	613.31	98.12	7.251		
8,200.00	7,021.17	8,341.78	7,007.05	50.38	52.10	88.87	903.38	-571.19	710.72	608.15	102.57	6.929		
8,300.00	7,019.93	8,441.78	7,006.08	52.82	54.28	88.89	898.61	-671.07	710.02	602.83	107.19	6.624		
8,400.00	7,018.70	8,541.77	7,005.12	55.35	56.52	88.91	893.84	-770.94	709.31	597.36	111.96	6.336		
8,500.00	7,017.47	8,641.77	7,004.16	57.97	58.81	88.93	889.07	-870.82	708.61	591.75	116.86	6.064		
8,600.00	7,016.23	8,741.77	7,003.19	60.65	61.14	88.95	884.30	-970.70	707.90	586.03	121.87	5.809		
8,700.00	7,015.00	8,841.77	7,002.23	63.39	63.52	88.97	879.53	-1,070.58	707.20	580.21	126.99	5.569		
8,800.00	7,013.76	8,941.76	7,001.26	66.19	65.93	88.99	874.76	-1,170.46	706.50	574.30	132.19	5.344		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	9,041.76	7,000.30	69.03	68.38	89.01	869.99	-1,270.34	705.79	568.32	137.48	5.134		
9,000.00	7,011.30	9,141.76	6,999.33	71.91	70.85	89.03	865.22	-1,370.22	705.09	562.26	142.83	4.936		
9,100.00	7,010.06	9,241.75	6,998.37	74.83	73.36	89.05	860.45	-1,470.10	704.39	556.14	148.25	4.751		
9,200.00	7,008.83	9,341.75	6,997.40	77.78	75.88	89.07	855.68	-1,569.97	703.68	549.96	153.72	4.578		
9,300.00	7,007.60	9,441.75	6,996.44	80.76	78.43	89.10	850.91	-1,669.85	702.98	543.74	159.24	4.414		
9,400.00	7,006.36	9,541.75	6,995.47	83.76	80.99	89.12	846.14	-1,769.73	702.28	537.47	164.81	4.261		
9,500.00	7,005.13	9,641.74	6,994.51	86.79	83.58	89.14	841.37	-1,869.61	701.57	531.15	170.42	4.117		
9,600.00	7,003.90	9,741.74	6,993.54	89.84	86.18	89.16	836.60	-1,969.49	700.87	524.81	176.06	3.981		
9,700.00	7,002.66	9,841.74	6,992.58	92.90	88.79	89.18	831.83	-2,069.37	700.17	518.43	181.74	3.853		
9,800.00	7,001.43	9,941.73	6,991.61	95.99	91.42	89.20	827.06	-2,169.25	699.47	512.02	187.45	3.732		
9,900.00	7,000.19	10,041.73	6,990.65	99.08	94.06	89.22	822.29	-2,269.13	698.76	505.58	193.18	3.617		
10,000.00	6,998.96	10,141.73	6,989.68	102.19	96.71	89.24	817.52	-2,369.00	698.06	499.12	198.94	3.509		
10,100.00	6,997.73	10,241.73	6,988.72	105.32	99.37	89.26	812.75	-2,468.88	697.36	492.63	204.73	3.406		
10,200.00	6,996.49	10,341.72	6,987.75	108.45	102.04	89.29	807.98	-2,568.76	696.66	486.13	210.53	3.309		
10,300.00	6,995.26	10,441.72	6,986.79	111.60	104.72	89.31	803.21	-2,668.64	695.95	479.60	216.35	3.217		
10,400.00	6,994.03	10,541.72	6,985.83	114.75	107.41	89.33	798.44	-2,768.52	695.25	473.06	222.20	3.129		
10,500.00	6,992.79	10,641.71	6,984.86	117.92	110.10	89.35	793.67	-2,868.40	694.55	466.50	228.05	3.046		
10,600.00	6,991.56	10,741.71	6,983.90	121.09	112.80	89.37	788.90	-2,968.28	693.85	459.92	233.93	2.966		
10,700.00	6,990.33	10,841.71	6,982.93	124.27	115.51	89.39	784.13	-3,068.16	693.15	453.33	239.81	2.890		
10,800.00	6,989.09	10,941.71	6,981.97	127.46	118.23	89.42	779.36	-3,168.03	692.44	446.73	245.71	2.818		
10,900.00	6,987.86	11,041.70	6,981.00	130.65	120.95	89.44	774.59	-3,267.91	691.74	440.12	251.62	2.749		
11,000.00	6,986.62	11,141.70	6,980.04	133.85	123.67	89.46	769.82	-3,367.79	691.04	433.49	257.55	2.683		
11,100.00	6,985.39	11,241.70	6,979.07	137.06	126.40	89.48	765.06	-3,467.67	690.34	426.86	263.48	2.620		
11,200.00	6,984.16	11,341.70	6,978.11	140.27	129.14	89.50	760.29	-3,567.55	689.64	420.21	269.42	2.560		
11,300.00	6,982.92	11,441.69	6,977.14	143.48	131.88	89.52	755.52	-3,667.43	688.94	413.56	275.38	2.502		
11,400.00	6,981.69	11,541.69	6,976.18	146.70	134.62	89.55	750.75	-3,767.31	688.24	406.90	281.34	2.446		
11,500.00	6,980.46	11,641.69	6,975.21	149.92	137.37	89.57	745.98	-3,867.18	687.54	400.23	287.31	2.393		
11,600.00	6,979.22	11,741.68	6,974.25	153.15	140.12	89.59	741.21	-3,967.06	686.83	393.55	293.29	2.342		
11,700.00	6,977.99	11,841.68	6,973.28	156.38	142.87	89.61	736.44	-4,066.94	686.13	386.86	299.27	2.293		
11,800.00	6,976.75	11,941.68	6,972.32	159.62	145.63	89.63	731.67	-4,166.82	685.43	380.17	305.26	2.245		
11,900.00	6,975.52	12,041.68	6,971.35	162.86	148.39	89.66	726.90	-4,266.70	684.73	373.47	311.26	2.200		
12,000.00	6,974.29	12,141.67	6,970.39	166.10	151.16	89.68	722.13	-4,366.58	684.03	366.77	317.26	2.156		
12,100.00	6,973.05	12,241.67	6,969.42	169.34	153.92	89.70	717.36	-4,466.46	683.33	360.06	323.27	2.114		
12,200.00	6,971.82	12,341.67	6,968.46	172.59	156.69	89.72	712.59	-4,566.34	682.63	353.35	329.28	2.073		
12,300.00	6,970.59	12,441.66	6,967.49	175.84	159.46	89.75	707.82	-4,666.21	681.93	346.63	335.30	2.034		
12,400.00	6,969.35	12,541.66	6,966.53	179.09	162.23	89.77	703.05	-4,766.09	681.23	339.90	341.33	1.996		
12,500.00	6,968.12	12,641.66	6,965.57	182.35	165.01	89.79	698.28	-4,865.97	680.53	333.18	347.35	1.959		
12,600.00	6,966.89	12,741.66	6,964.60	185.60	167.79	89.81	693.51	-4,965.85	679.83	326.44	353.39	1.924		
12,700.00	6,965.65	12,841.65	6,963.64	188.86	170.57	89.83	688.74	-5,065.73	679.13	319.71	359.42	1.890		
12,800.00	6,964.42	12,941.65	6,962.67	192.12	173.35	89.86	683.97	-5,165.61	678.43	312.97	365.46	1.856		
12,900.00	6,963.18	13,041.65	6,961.71	195.38	176.13	89.88	679.20	-5,265.49	677.73	306.22	371.51	1.824		
13,000.00	6,961.95	13,141.64	6,960.74	198.65	178.92	89.90	674.43	-5,365.37	677.03	299.48	377.56	1.793		
13,100.00	6,960.72	13,241.64	6,959.78	201.91	181.70	89.93	669.66	-5,465.24	676.33	292.73	383.61	1.763		
13,200.00	6,959.48	13,341.64	6,958.81	205.18	184.49	89.95	664.89	-5,565.12	675.63	285.97	389.66	1.734		
13,300.00	6,958.25	13,441.64	6,957.85	208.45	187.28	89.97	660.12	-5,665.00	674.93	279.22	395.72	1.706		
13,400.00	6,957.02	13,541.63	6,956.88	211.72	190.07	89.99	655.35	-5,764.88	674.24	272.46	401.78	1.678		
13,500.00	6,955.78	13,641.63	6,955.92	214.99	192.86	90.02	650.58	-5,864.76	673.54	265.70	407.84	1.651		
13,600.00	6,954.55	13,741.63	6,954.95	218.27	195.66	90.04	645.81	-5,964.64	672.84	258.93	413.90	1.626		
13,700.00	6,953.32	13,841.63	6,953.99	221.54	198.45	90.06	641.04	-6,064.52	672.14	252.17	419.97	1.600		
13,800.00	6,952.08	13,941.62	6,953.02	224.82	201.25	90.09	636.27	-6,164.40	671.44	245.40	426.04	1.576		
13,900.00	6,950.85	14,041.62	6,952.06	228.10	204.04	90.11	631.50	-6,264.27	670.74	238.63	432.11	1.552		
14,000.00	6,949.61	14,141.62	6,951.09	231.37	206.84	90.13	626.73	-6,364.15	670.04	231.86	438.19	1.529		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	14,241.61	6,950.13	234.65	209.64	90.15	621.96	-6,464.03	669.35	225.08	444.26	1.507		
14,200.00	6,947.15	14,341.61	6,949.16	237.93	212.44	90.18	617.19	-6,563.91	668.65	218.31	450.34	1.485 Level 3		
14,300.00	6,945.91	14,441.61	6,948.20	241.22	215.24	90.20	612.42	-6,663.79	667.95	211.53	456.42	1.463 Level 3		
14,400.00	6,944.68	14,541.61	6,947.24	244.50	218.05	90.22	607.65	-6,763.67	667.25	204.75	462.50	1.443 Level 3		
14,500.00	6,943.45	14,641.60	6,946.27	247.78	220.85	90.25	602.88	-6,863.55	666.55	197.97	468.59	1.422 Level 3		
14,600.00	6,942.21	14,741.60	6,945.31	251.07	223.65	90.27	598.11	-6,963.43	665.86	191.19	474.67	1.403 Level 3		
14,700.00	6,940.98	14,841.60	6,944.34	254.35	226.46	90.29	593.34	-7,063.30	665.16	184.40	480.76	1.384 Level 3		
14,800.00	6,939.74	14,941.59	6,943.38	257.64	229.26	90.32	588.57	-7,163.18	664.46	177.62	486.85	1.365 Level 3		
14,900.00	6,938.51	15,041.59	6,942.41	260.92	232.07	90.34	583.80	-7,263.06	663.76	170.83	492.94	1.347 Level 3		
15,000.00	6,937.28	15,141.59	6,941.45	264.21	234.88	90.37	579.04	-7,362.94	663.07	164.04	499.03	1.329 Level 3		
15,100.00	6,936.04	15,241.59	6,940.48	267.50	237.68	90.39	574.27	-7,462.82	662.37	157.25	505.12	1.311 Level 3		
15,200.00	6,934.81	15,341.58	6,939.52	270.79	240.49	90.41	569.50	-7,562.70	661.67	150.46	511.21	1.294 Level 3		
15,300.00	6,933.58	15,441.58	6,938.55	274.08	243.30	90.44	564.73	-7,662.58	660.98	143.67	517.31	1.278 Level 3		
15,400.00	6,932.34	15,541.58	6,937.59	277.37	246.11	90.46	559.96	-7,762.45	660.28	136.88	523.40	1.262 Level 3		
15,500.00	6,931.11	15,641.57	6,936.62	280.66	248.92	90.48	555.19	-7,862.33	659.58	130.08	529.50	1.246 Level 2		
15,572.21	6,930.22	15,713.78	6,935.93	283.04	250.95	90.50	551.74	-7,934.45	659.08	125.18	533.90	1.234 Level 2, SF		
15,589.88	6,930.00	15,706.13	6,936.00	283.62	250.74	90.50	552.11	-7,926.81	659.44	125.43	534.01	1.235 Level 2		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.68	-14.94	-1.39	15.00					
100.00	100.00	100.00	100.00	3.28	3.28	-174.68	-14.94	-1.39	15.00	8.43	6.57	2.283		
200.00	200.00	200.00	200.00	3.34	3.34	-174.68	-14.94	-1.39	15.00	8.33	6.67	2.248	CC	
300.00	299.98	299.98	299.98	3.44	3.44	118.05	-14.94	-1.39	15.74	8.85	6.89	2.285		
400.00	399.84	400.06	400.04	3.60	3.60	127.22	-14.98	0.35	18.14	10.94	7.20	2.519		
500.00	499.45	500.24	500.08	3.81	3.80	132.41	-15.12	5.60	21.82	14.20	7.61	2.866		
600.00	598.70	600.49	599.94	4.08	4.04	134.60	-15.35	14.35	26.51	18.39	8.11	3.267		
700.00	697.47	700.70	699.40	4.40	4.32	134.99	-15.67	26.52	32.14	23.44	8.70	3.695		
774.77	770.92	775.26	773.30	4.68	4.54	136.44	-15.93	36.44	37.58	28.39	9.18	4.093		
800.00	795.65	800.40	798.21	4.78	4.62	137.18	-16.01	39.79	39.66	30.30	9.35	4.241		
900.00	893.64	900.04	896.97	5.20	4.95	139.49	-16.36	53.05	47.95	37.90	10.05	4.770		
1,000.00	991.63	1,000.32	995.72	5.66	5.30	141.12	-16.71	66.31	56.30	45.50	10.80	5.214		
1,100.00	1,089.63	1,100.68	1,094.47	6.15	5.67	142.33	-17.06	79.57	64.68	53.11	11.58	5.587		
1,200.00	1,187.62	1,201.04	1,193.23	6.65	6.06	143.26	-17.40	92.82	73.09	60.70	12.39	5.901		
1,300.00	1,285.62	1,301.40	1,291.98	7.17	6.45	144.00	-17.75	106.08	81.51	68.29	13.21	6.168		
1,400.00	1,383.61	1,401.76	1,390.73	7.71	6.86	144.60	-18.10	119.34	89.94	75.88	14.06	6.396		
1,500.00	1,481.60	1,502.12	1,489.49	8.25	7.27	145.09	-18.45	132.60	98.38	83.45	14.93	6.591		
1,600.00	1,579.60	1,602.48	1,588.24	8.80	7.69	145.51	-18.79	145.86	106.83	91.02	15.80	6.760		
1,700.00	1,677.59	1,702.84	1,686.99	9.36	8.11	145.87	-19.14	159.12	115.28	98.59	16.69	6.907		
1,800.00	1,775.59	1,803.20	1,785.75	9.92	8.54	146.18	-19.49	172.38	123.73	106.14	17.59	7.035		
1,900.00	1,873.58	1,896.44	1,884.50	10.49	8.94	146.45	-19.83	185.64	132.19	113.73	18.46	7.160		
2,000.00	1,971.57	2,003.92	1,983.25	11.06	9.41	146.68	-20.18	198.90	140.65	121.24	19.40	7.249		
2,100.00	2,069.57	2,104.28	2,082.00	11.64	9.85	146.89	-20.53	212.16	149.11	128.79	20.32	7.338		
2,200.00	2,167.56	2,204.64	2,180.76	12.22	10.29	147.08	-20.88	225.42	157.57	136.33	21.24	7.417		
2,300.00	2,265.56	2,295.00	2,279.51	12.80	10.69	147.25	-21.22	238.68	166.04	143.91	22.13	7.504		
2,400.00	2,363.55	2,405.36	2,378.26	13.38	11.18	147.40	-21.57	251.94	174.51	151.40	23.10	7.554		
2,500.00	2,461.54	2,505.72	2,477.02	13.97	11.63	147.54	-21.92	265.20	182.97	158.94	24.04	7.612		
2,600.00	2,559.54	2,606.08	2,575.77	14.55	12.07	147.66	-22.26	278.46	191.44	166.47	24.97	7.666		
2,700.00	2,657.53	2,706.44	2,674.52	15.14	12.53	147.78	-22.61	291.72	199.91	174.00	25.91	7.714		
2,800.00	2,755.53	2,806.80	2,773.28	15.73	12.98	147.88	-22.96	304.98	208.38	181.52	26.86	7.759		
2,900.00	2,853.52	2,892.84	2,872.03	16.32	13.37	147.98	-23.31	318.24	216.85	189.11	27.74	7.818		
3,000.00	2,951.52	3,007.52	2,970.78	16.91	13.88	148.07	-23.65	331.50	225.32	196.57	28.75	7.837		
3,100.00	3,049.51	3,107.88	3,069.54	17.51	14.34	148.15	-24.00	344.76	233.80	204.10	29.70	7.872		
3,200.00	3,147.50	3,191.76	3,168.29	18.10	14.72	148.23	-24.35	358.02	242.27	211.69	30.58	7.924		
3,300.00	3,245.50	3,308.60	3,267.04	18.70	15.25	148.30	-24.70	371.28	250.74	219.14	31.60	7.934		
3,400.00	3,343.49	3,408.96	3,365.79	19.29	15.71	148.37	-25.04	384.54	259.21	226.66	32.56	7.962		
3,500.00	3,441.49	3,509.32	3,464.55	19.89	16.17	148.43	-25.39	397.80	267.69	234.18	33.51	7.988		
3,600.00	3,539.48	3,609.68	3,563.30	20.48	16.63	148.49	-25.74	411.06	276.16	241.69	34.47	8.012		
3,700.00	3,637.47	3,689.96	3,662.05	21.08	16.99	148.55	-26.08	424.32	284.64	249.30	35.33	8.056		
3,800.00	3,735.47	3,789.60	3,760.81	21.68	17.45	148.60	-26.43	437.58	293.11	256.82	36.29	8.077		
3,900.00	3,833.46	3,889.24	3,859.56	22.27	17.91	148.65	-26.78	450.84	301.59	264.34	37.24	8.098		
4,000.00	3,931.46	3,988.88	3,958.31	22.87	18.36	148.70	-27.13	464.10	310.06	271.86	38.20	8.117		
4,100.00	4,029.45	4,088.52	4,057.07	23.47	18.82	148.74	-27.47	477.35	318.53	279.38	39.16	8.135		
4,200.00	4,127.44	4,188.16	4,155.82	24.07	19.28	148.79	-27.82	490.61	327.01	286.90	40.11	8.152		
4,300.00	4,225.44	4,287.80	4,254.57	24.67	19.74	148.83	-28.17	503.87	335.49	294.41	41.07	8.168		
4,400.00	4,323.43	4,387.44	4,353.33	25.27	20.19	148.86	-28.51	517.13	343.96	301.93	42.03	8.183		
4,507.81	4,429.08	4,505.14	4,459.79	25.92	20.74	148.90	-28.89	531.43	353.10	309.98	43.11	8.190		
4,600.00	4,519.70	4,586.81	4,550.92	26.45	21.11	148.88	-29.21	543.67	359.65	315.69	43.95	8.182		
4,700.00	4,618.56	4,686.69	4,649.91	26.98	21.57	148.56	-29.56	556.96	363.89	318.97	44.92	8.100		
4,800.00	4,717.88	4,786.59	4,748.93	27.46	22.03	147.92	-29.91	570.25	365.19	319.29	45.90	7.957		
4,900.00	4,817.54	4,886.39	4,847.84	27.89	22.49	146.97	-30.25	583.53	363.60	316.72	46.88	7.757		
5,000.00	4,917.43	4,985.98	4,946.54	28.28	22.95	145.66	-30.60	596.78	359.22	311.36	47.86	7.505		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,067.96	5,027.79	28.57	23.33	-142.56	-30.89	607.69	353.60	304.93	48.68	7.264		
5,100.00	5,017.42	5,085.22	5,044.90	28.62	23.41	-142.86	-30.95	609.99	352.24	303.39	48.85	7.211		
5,200.00	5,117.42	5,184.33	5,143.13	28.95	23.87	-144.65	-31.29	623.18	344.61	294.77	49.84	6.914		
5,300.00	5,217.42	5,283.44	5,241.36	29.28	24.33	-146.52	-31.64	636.37	337.33	286.49	50.84	6.635		
5,400.00	5,317.42	5,382.55	5,339.59	29.62	24.79	-148.46	-31.98	649.56	330.42	278.58	51.84	6.374		
5,500.00	5,417.42	5,481.66	5,437.81	29.96	25.24	-150.49	-32.33	662.75	323.92	271.07	52.85	6.129		
5,600.00	5,517.42	5,580.77	5,536.04	30.29	25.70	-152.59	-32.67	675.94	317.84	263.98	53.86	5.901		
5,700.00	5,617.42	5,679.88	5,634.27	30.64	26.16	-154.77	-33.02	689.13	312.21	257.33	54.87	5.690		
5,800.00	5,717.42	5,778.99	5,732.50	30.98	26.62	-157.03	-33.36	702.32	307.05	251.17	55.88	5.494		
5,900.00	5,817.42	5,878.10	5,830.73	31.33	27.08	-159.36	-33.71	715.51	302.39	245.50	56.89	5.315		
6,000.00	5,917.42	5,977.21	5,928.95	31.68	27.54	-161.76	-34.05	728.69	298.26	240.36	57.90	5.151		
6,100.00	6,017.42	6,076.32	6,027.18	32.03	28.00	-164.21	-34.40	741.88	294.67	235.77	58.90	5.003		
6,200.00	6,117.42	6,175.43	6,125.41	32.38	28.46	-166.73	-34.75	755.07	291.64	231.76	59.88	4.870		
6,300.00	6,217.42	6,274.54	6,223.64	32.74	28.92	-169.29	-35.09	768.26	289.20	228.34	60.86	4.752		
6,400.00	6,317.42	6,373.65	6,321.87	33.09	29.38	-171.89	-35.44	781.45	287.35	225.53	61.82	4.648		
6,476.01	6,393.43	6,448.99	6,396.53	33.37	29.72	-173.88	-35.70	791.48	286.35	223.81	62.54	4.579		
6,500.00	6,417.42	6,472.70	6,420.03	33.45	29.83	-82.29	-35.78	794.63	286.04	223.28	62.76	4.558		
6,550.00	6,467.25	6,519.70	6,466.78	33.59	30.04	-84.01	-36.00	799.36	285.41	222.24	63.17	4.518		
6,600.00	6,516.64	6,567.14	6,514.19	33.71	30.24	-85.77	-36.33	800.64	285.00	221.46	63.54	4.485		
6,650.00	6,565.26	6,615.22	6,562.21	33.80	30.43	-87.58	-36.78	798.33	284.84	220.95	63.88	4.459		
6,656.80	6,571.80	6,621.82	6,568.77	33.81	30.45	-87.82	-36.86	797.73	284.84	220.91	63.93	4.456		
6,700.00	6,612.83	6,663.98	6,610.57	33.88	30.61	-89.40	-37.36	792.30	284.93	220.74	64.20	4.438		
6,750.00	6,659.04	6,713.45	6,659.02	33.94	30.79	-91.24	-38.07	782.41	285.30	220.81	64.49	4.424		
6,800.00	6,703.62	6,763.66	6,707.27	33.99	30.98	-93.08	-38.90	768.57	285.94	221.17	64.76	4.415		
6,850.00	6,746.28	6,814.66	6,754.99	34.03	31.18	-94.91	-39.87	750.66	286.83	221.83	65.00	4.412		
6,900.00	6,786.76	6,866.46	6,801.85	34.08	31.38	-96.71	-40.96	728.62	287.98	222.77	65.21	4.416		
6,950.00	6,824.83	6,919.10	6,847.46	34.13	31.60	-98.47	-42.17	702.40	289.34	223.97	65.37	4.426		
7,000.00	6,860.23	6,972.60	6,891.43	34.20	31.84	-100.18	-43.51	671.98	290.90	225.40	65.50	4.441		
7,050.00	6,892.75	7,026.97	6,933.34	34.30	32.10	-101.83	-44.98	637.41	292.61	227.01	65.59	4.461		
7,100.00	6,922.20	7,082.21	6,972.74	34.43	32.38	-103.39	-46.55	598.75	294.42	228.75	65.67	4.484		
7,150.00	6,948.38	7,138.32	7,009.18	34.60	32.70	-104.87	-48.23	556.14	296.29	230.55	65.74	4.507		
7,200.00	6,971.15	7,195.27	7,042.18	34.82	33.07	-106.25	-50.01	509.77	298.15	232.31	65.85	4.528		
7,250.00	6,990.35	7,253.05	7,071.29	35.09	33.48	-107.52	-51.87	459.92	299.97	233.95	66.01	4.544		
7,300.00	7,005.87	7,311.61	7,096.05	35.43	33.96	-108.67	-53.79	406.91	301.66	235.37	66.29	4.551		
7,350.00	7,017.62	7,370.88	7,116.04	35.81	34.50	-109.69	-55.77	351.17	303.20	236.49	66.71	4.545		
7,400.00	7,025.52	7,430.80	7,130.90	36.26	35.10	-110.58	-57.79	293.18	304.51	237.22	67.29	4.525		
7,450.00	7,029.52	7,491.28	7,140.29	36.75	35.75	-111.32	-59.81	233.49	305.55	237.49	68.06	4.489		
7,483.86	7,030.00	7,532.51	7,143.43	37.12	36.22	-111.74	-61.18	192.41	306.09	237.39	68.70	4.455		
7,500.00	7,029.80	7,552.23	7,143.99	37.30	36.45	-111.89	-61.83	172.71	306.22	237.16	69.05	4.434		
7,600.00	7,028.57	7,655.08	7,142.98	38.58	37.77	-112.00	-65.18	69.93	305.55	234.04	71.51	4.273		
7,700.00	7,027.34	7,755.07	7,141.82	40.10	39.20	-112.07	-68.43	-30.01	304.82	230.54	74.27	4.104		
7,800.00	7,026.10	7,855.07	7,140.65	41.83	40.79	-112.14	-71.69	-129.95	304.09	226.72	77.37	3.930		
7,900.00	7,024.87	7,955.07	7,139.49	43.74	42.50	-112.21	-74.95	-229.88	303.36	222.61	80.75	3.757		
8,000.00	7,023.63	8,055.06	7,138.33	45.82	44.33	-112.28	-78.20	-329.82	302.63	218.25	84.38	3.586		
8,100.00	7,022.40	8,155.06	7,137.16	48.04	46.27	-112.35	-81.46	-429.76	301.90	213.67	88.24	3.422		
8,200.00	7,021.17	8,255.06	7,136.00	50.38	48.29	-112.42	-84.72	-529.70	301.18	208.90	92.28	3.264		
8,300.00	7,019.93	8,355.05	7,134.84	52.82	50.40	-112.49	-87.97	-629.63	300.45	203.96	96.49	3.114		
8,400.00	7,018.70	8,455.05	7,133.67	55.35	52.57	-112.57	-91.23	-729.57	299.72	198.88	100.85	2.972		
8,500.00	7,017.47	8,555.05	7,132.51	57.97	54.80	-112.64	-94.49	-829.51	299.00	193.67	105.33	2.839		
8,600.00	7,016.23	8,655.04	7,131.35	60.65	57.09	-112.71	-97.74	-929.44	298.27	188.36	109.92	2.714		
8,700.00	7,015.00	8,755.04	7,130.19	63.39	59.43	-112.78	-101.00	-1,029.38	297.55	182.95	114.60	2.596		
8,800.00	7,013.76	8,855.04	7,129.02	66.19	61.81	-112.86	-104.26	-1,129.32	296.82	177.45	119.37	2.487		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	8,955.03	7,127.86	69.03	64.23	-112.93	-107.51	-1,229.25	296.10	171.89	124.21	2.384		
9,000.00	7,011.30	9,055.03	7,126.70	71.91	66.68	-113.01	-110.77	-1,329.19	295.38	166.26	129.11	2.288		
9,100.00	7,010.06	9,155.03	7,125.53	74.83	69.16	-113.08	-114.02	-1,429.13	294.65	160.58	134.07	2.198		
9,200.00	7,008.83	9,255.02	7,124.37	77.78	71.67	-113.15	-117.28	-1,529.06	293.93	154.85	139.08	2.113		
9,300.00	7,007.60	9,355.02	7,123.21	80.76	74.20	-113.23	-120.54	-1,629.00	293.21	149.08	144.13	2.034		
9,400.00	7,006.36	9,455.02	7,122.04	83.76	76.75	-113.31	-123.79	-1,728.94	292.49	143.27	149.22	1.960		
9,500.00	7,005.13	9,555.01	7,120.88	86.79	79.33	-113.38	-127.05	-1,828.87	291.77	137.43	154.34	1.890		
9,600.00	7,003.90	9,655.01	7,119.72	89.84	81.92	-113.46	-130.31	-1,928.81	291.05	131.55	159.49	1.825		
9,700.00	7,002.66	9,755.01	7,118.55	92.90	84.53	-113.53	-133.56	-2,028.75	290.33	125.66	164.67	1.763		
9,800.00	7,001.43	9,855.00	7,117.39	95.99	87.15	-113.61	-136.82	-2,128.68	289.61	119.74	169.87	1.705		
9,900.00	7,000.19	9,955.00	7,116.23	99.08	89.79	-113.69	-140.08	-2,228.62	288.89	113.80	175.09	1.650		
10,000.00	6,998.96	10,055.00	7,115.06	102.19	92.44	-113.77	-143.33	-2,328.56	288.17	107.84	180.33	1.598		
10,100.00	6,997.73	10,154.99	7,113.90	105.32	95.09	-113.85	-146.59	-2,428.50	287.45	101.87	185.58	1.549		
10,200.00	6,996.49	10,254.99	7,112.74	108.45	97.76	-113.92	-149.85	-2,528.43	286.74	95.89	190.85	1.502		
10,300.00	6,995.26	10,354.99	7,111.57	111.60	100.44	-114.00	-153.10	-2,628.37	286.02	89.89	196.13	1.458 Level 3		
10,400.00	6,994.03	10,454.98	7,110.41	114.75	103.13	-114.08	-156.36	-2,728.31	285.30	83.88	201.42	1.416 Level 3		
10,500.00	6,992.79	10,554.98	7,109.25	117.92	105.83	-114.16	-159.62	-2,828.24	284.59	77.87	206.72	1.377 Level 3		
10,600.00	6,991.56	10,654.98	7,108.09	121.09	108.53	-114.24	-162.87	-2,928.18	283.87	71.85	212.02	1.339 Level 3		
10,700.00	6,990.33	10,754.97	7,106.92	124.27	111.24	-114.32	-166.13	-3,028.12	283.16	65.82	217.33	1.303 Level 3		
10,800.00	6,989.09	10,854.97	7,105.76	127.46	113.96	-114.41	-169.39	-3,128.05	282.45	59.79	222.65	1.269 Level 3		
10,900.00	6,987.86	10,954.97	7,104.60	130.65	116.68	-114.49	-172.64	-3,227.99	281.73	53.76	227.97	1.236 Level 2		
11,000.00	6,986.62	11,054.96	7,103.43	133.85	119.41	-114.57	-175.90	-3,327.93	281.02	47.72	233.30	1.205 Level 2		
11,100.00	6,985.39	11,154.96	7,102.27	137.06	122.15	-114.65	-179.16	-3,427.86	280.31	41.68	238.63	1.175 Level 2		
11,200.00	6,984.16	11,254.96	7,101.11	140.27	124.89	-114.73	-182.41	-3,527.80	279.60	35.64	243.95	1.146 Level 2		
11,300.00	6,982.92	11,354.95	7,099.94	143.48	127.63	-114.82	-185.67	-3,627.74	278.88	29.60	249.28	1.119 Level 2		
11,400.00	6,981.69	11,454.95	7,098.78	146.70	130.38	-114.90	-188.93	-3,727.67	278.17	23.56	254.62	1.093 Level 2		
11,500.00	6,980.46	11,554.95	7,097.62	149.92	133.13	-114.99	-192.18	-3,827.61	277.46	17.52	259.95	1.067 Level 2		
11,600.00	6,979.22	11,654.94	7,096.45	153.15	135.89	-115.07	-195.44	-3,927.55	276.76	11.48	265.28	1.043 Level 2		
11,700.00	6,977.99	11,754.94	7,095.29	156.38	138.64	-115.15	-198.69	-4,027.48	276.05	5.44	270.60	1.020 Level 2		
11,800.00	6,976.75	11,854.94	7,094.13	159.62	141.41	-115.24	-201.95	-4,127.42	275.34	-0.59	275.93	0.998 Level 1		
11,900.00	6,975.52	11,954.93	7,092.96	162.86	144.17	-115.33	-205.21	-4,227.36	274.63	-6.62	281.25	0.976 Level 1		
12,000.00	6,974.29	12,054.93	7,091.80	166.10	146.94	-115.41	-208.46	-4,327.30	273.93	-12.65	286.57	0.956 Level 1		
12,100.00	6,973.05	12,154.93	7,090.64	169.34	149.71	-115.50	-211.72	-4,427.23	273.22	-18.67	291.89	0.936 Level 1		
12,200.00	6,971.82	12,254.92	7,089.47	172.59	152.49	-115.59	-214.98	-4,527.17	272.51	-24.69	297.21	0.917 Level 1		
12,300.00	6,970.59	12,354.92	7,088.31	175.84	155.26	-115.67	-218.23	-4,627.11	271.81	-30.71	302.52	0.898 Level 1		
12,400.00	6,969.35	12,454.92	7,087.15	179.09	158.04	-115.76	-221.49	-4,727.04	271.11	-36.72	307.82	0.881 Level 1		
12,500.00	6,968.12	12,554.91	7,085.99	182.35	160.82	-115.85	-224.75	-4,826.98	270.40	-42.72	313.13	0.864 Level 1		
12,600.00	6,966.89	12,654.91	7,084.82	185.60	163.61	-115.94	-228.00	-4,926.92	269.70	-48.72	318.42	0.847 Level 1		
12,700.00	6,965.65	12,754.91	7,083.66	188.86	166.39	-116.03	-231.26	-5,026.85	269.00	-54.72	323.71	0.831 Level 1		
12,800.00	6,964.42	12,854.90	7,082.50	192.12	169.18	-116.12	-234.52	-5,126.79	268.30	-60.70	329.00	0.815 Level 1		
12,900.00	6,963.18	12,954.90	7,081.33	195.38	171.97	-116.21	-237.77	-5,226.73	267.59	-66.68	334.28	0.801 Level 1		
13,000.00	6,961.95	13,054.90	7,080.17	198.65	174.76	-116.30	-241.03	-5,326.66	266.89	-72.66	339.55	0.786 Level 1		
13,100.00	6,960.72	13,154.89	7,079.01	201.91	177.55	-116.39	-244.29	-5,426.60	266.20	-78.62	344.82	0.772 Level 1		
13,200.00	6,959.48	13,254.89	7,077.84	205.18	180.35	-116.48	-247.54	-5,526.54	265.50	-84.58	350.08	0.758 Level 1		
13,300.00	6,958.25	13,354.89	7,076.68	208.45	183.14	-116.58	-250.80	-5,626.47	264.80	-90.53	355.33	0.745 Level 1		
13,400.00	6,957.02	13,454.88	7,075.52	211.72	185.94	-116.67	-254.06	-5,726.41	264.10	-96.48	360.58	0.732 Level 1		
13,500.00	6,955.78	13,554.88	7,074.35	214.99	188.74	-116.76	-257.31	-5,826.35	263.40	-102.41	365.82	0.720 Level 1		
13,600.00	6,954.55	13,654.88	7,073.19	218.27	191.54	-116.86	-260.57	-5,926.28	262.71	-108.34	371.05	0.708 Level 1		
13,700.00	6,953.32	13,754.87	7,072.03	221.54	194.34	-116.95	-263.83	-6,026.22	262.01	-114.26	376.27	0.696 Level 1		
13,800.00	6,952.08	13,854.87	7,070.86	224.82	197.14	-117.04	-267.08	-6,126.16	261.32	-120.17	381.49	0.685 Level 1		
13,900.00	6,950.85	13,954.87	7,069.70	228.10	199.94	-117.14	-270.34	-6,226.10	260.62	-126.07	386.69	0.674 Level 1		
14,000.00	6,949.61	14,054.86	7,068.54	231.37	202.75	-117.24	-273.60	-6,326.03	259.93	-131.96	391.89	0.663 Level 1		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - Boomerang 33C-6-M - OH - Plan #1		Offset Site Error:		0.00 ft
Survey Program: 0-MWD+IFR1														Offset Well Error:		3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)					
14,100.00	6,948.38	14,154.86	7,067.37	234.65	205.55	-117.33	-276.85	-6,425.97	259.24	-137.84	397.08	0.653	Level 1			
14,200.00	6,947.15	14,254.86	7,066.21	237.93	208.36	-117.43	-280.11	-6,525.91	258.55	-143.71	402.26	0.643	Level 1			
14,300.00	6,945.91	14,354.85	7,065.05	241.22	211.17	-117.53	-283.36	-6,625.84	257.86	-149.57	407.43	0.633	Level 1			
14,400.00	6,944.68	14,454.85	7,063.89	244.50	213.98	-117.62	-286.62	-6,725.78	257.17	-155.43	412.59	0.623	Level 1			
14,500.00	6,943.45	14,554.84	7,062.72	247.78	216.79	-117.72	-289.88	-6,825.72	256.48	-161.27	417.74	0.614	Level 1			
14,600.00	6,942.21	14,654.84	7,061.56	251.07	219.60	-117.82	-293.13	-6,925.65	255.79	-167.10	422.88	0.605	Level 1			
14,700.00	6,940.98	14,754.84	7,060.40	254.35	222.41	-117.92	-296.39	-7,025.59	255.10	-172.92	428.02	0.596	Level 1			
14,800.00	6,939.74	14,854.83	7,059.23	257.64	225.22	-118.02	-299.65	-7,125.53	254.41	-178.72	433.14	0.587	Level 1			
14,900.00	6,938.51	14,954.83	7,058.07	260.92	228.03	-118.12	-302.90	-7,225.46	253.73	-184.52	438.25	0.579	Level 1			
15,000.00	6,937.28	15,054.83	7,056.91	264.21	230.85	-118.22	-306.16	-7,325.40	253.04	-190.31	443.35	0.571	Level 1			
15,100.00	6,936.04	15,154.82	7,055.74	267.50	233.66	-118.32	-309.42	-7,425.34	252.36	-196.08	448.44	0.563	Level 1			
15,200.00	6,934.81	15,254.82	7,054.58	270.79	236.48	-118.43	-312.67	-7,525.27	251.67	-201.84	453.51	0.555	Level 1			
15,300.00	6,933.58	15,354.82	7,053.42	274.08	239.29	-118.53	-315.93	-7,625.21	250.99	-207.59	458.58	0.547	Level 1			
15,400.00	6,932.34	15,454.81	7,052.25	277.37	242.11	-118.63	-319.19	-7,725.15	250.31	-213.33	463.64	0.540	Level 1			
15,500.00	6,931.11	15,554.81	7,051.09	280.66	244.93	-118.74	-322.44	-7,825.08	249.62	-219.06	468.68	0.533	Level 1			
15,589.88	6,930.00	15,644.69	7,050.04	283.62	247.46	-118.83	-325.37	-7,914.91	249.01	-224.19	473.20	0.526	Level 1, ES, SF			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.46	-74.68	-7.24	75.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.46	-74.68	-7.24	75.03	68.46	6.57	11.421		
200.00	200.00	200.00	200.00	3.34	3.34	-174.46	-74.68	-7.24	75.03	68.36	6.67	11.242 CC, ES		
300.00	299.98	299.98	299.98	3.44	3.44	-174.46	-74.68	-7.24	75.71	68.83	6.89	10.992		
400.00	399.84	398.24	398.22	3.60	3.59	116.01	-75.89	-6.07	78.97	71.77	7.20	10.969		
500.00	499.45	496.29	496.14	3.81	3.78	118.33	-79.52	-2.57	85.95	78.35	7.60	11.302		
600.00	598.70	593.96	593.45	4.08	4.01	120.30	-85.52	3.23	96.64	88.54	8.10	11.932		
700.00	697.47	691.06	689.84	4.40	4.27	121.80	-93.85	11.27	110.98	102.30	8.68	12.792		
774.77	770.92	763.18	761.16	4.68	4.48	122.61	-101.56	18.72	124.04	114.89	9.16	13.546		
800.00	795.65	787.42	785.07	4.78	4.56	122.88	-104.44	21.50	128.84	119.51	9.33	13.812		
900.00	893.64	885.48	881.70	5.20	4.89	123.61	-116.44	33.09	148.10	138.07	10.04	14.757		
1,000.00	991.63	983.59	978.38	5.66	5.24	124.17	-128.45	44.69	167.38	156.59	10.80	15.504		
1,100.00	1,089.63	1,081.70	1,075.06	6.15	5.61	124.61	-140.47	56.29	186.68	175.08	11.60	16.095		
1,200.00	1,187.62	1,179.81	1,171.74	6.65	6.00	124.97	-152.48	67.89	205.98	193.55	12.43	16.567		
1,300.00	1,285.62	1,277.92	1,268.42	7.17	6.40	125.27	-164.49	79.49	225.29	211.99	13.29	16.946		
1,400.00	1,383.61	1,376.04	1,365.10	7.71	6.81	125.52	-176.51	91.09	244.60	230.43	14.18	17.252		
1,500.00	1,481.60	1,474.15	1,461.78	8.25	7.23	125.74	-188.52	102.69	263.92	248.84	15.08	17.501		
1,600.00	1,579.60	1,572.26	1,558.46	8.80	7.65	125.92	-200.53	114.29	283.24	267.25	16.00	17.706		
1,700.00	1,677.59	1,670.37	1,655.14	9.36	8.09	126.08	-212.54	125.89	302.57	285.64	16.93	17.876		
1,800.00	1,775.59	1,768.48	1,751.82	9.92	8.52	126.23	-224.56	137.49	321.89	304.03	17.87	18.018		
1,900.00	1,873.58	1,866.59	1,848.50	10.49	8.96	126.35	-236.57	149.10	341.22	322.41	18.81	18.136		
2,000.00	1,971.57	1,964.71	1,945.18	11.06	9.41	126.46	-248.58	160.70	360.55	340.78	19.77	18.237		
2,100.00	2,069.57	2,062.82	2,041.86	11.64	9.86	126.57	-260.59	172.30	379.88	359.14	20.73	18.322		
2,200.00	2,167.56	2,160.93	2,138.54	12.22	10.31	126.66	-272.61	183.90	399.21	377.51	21.70	18.395		
2,300.00	2,265.56	2,259.04	2,235.22	12.80	10.76	126.74	-284.62	195.50	418.54	395.87	22.68	18.458		
2,400.00	2,363.55	2,357.15	2,331.90	13.38	11.22	126.82	-296.63	207.10	437.87	414.22	23.65	18.512		
2,500.00	2,461.54	2,455.27	2,428.58	13.97	11.68	126.89	-308.65	218.70	457.21	432.57	24.64	18.559		
2,600.00	2,559.54	2,553.38	2,525.26	14.55	12.14	126.95	-320.66	230.30	476.54	450.92	25.62	18.600		
2,700.00	2,657.53	2,651.49	2,621.94	15.14	12.60	127.01	-332.67	241.90	495.88	469.27	26.61	18.636		
2,800.00	2,755.53	2,749.60	2,718.62	15.73	13.06	127.06	-344.68	253.50	515.21	487.61	27.60	18.667		
2,900.00	2,853.52	2,847.71	2,815.30	16.32	13.53	127.11	-356.70	265.10	534.55	505.95	28.59	18.695		
3,000.00	2,951.52	2,945.83	2,911.98	16.91	13.99	127.16	-368.71	276.70	553.88	524.29	29.59	18.719		
3,100.00	3,049.51	3,043.94	3,008.66	17.51	14.46	127.20	-380.72	288.30	573.22	542.63	30.59	18.741		
3,200.00	3,147.50	3,142.05	3,105.34	18.10	14.93	127.24	-392.73	299.90	592.55	560.97	31.59	18.760		
3,300.00	3,245.50	3,240.16	3,202.02	18.70	15.39	127.28	-404.75	311.50	611.89	579.30	32.59	18.777		
3,400.00	3,343.49	3,338.27	3,298.70	19.29	15.86	127.32	-416.76	323.10	631.23	597.64	33.59	18.793		
3,500.00	3,441.49	3,436.38	3,395.38	19.89	16.33	127.35	-428.77	334.70	650.56	615.97	34.59	18.806		
3,600.00	3,539.48	3,534.50	3,492.06	20.48	16.80	127.38	-440.78	346.30	669.90	634.30	35.60	18.819		
3,700.00	3,637.47	3,632.61	3,588.74	21.08	17.27	127.41	-452.80	357.90	689.24	652.64	36.60	18.830		
3,800.00	3,735.47	3,730.72	3,685.42	21.68	17.74	127.44	-464.81	369.50	708.58	670.97	37.61	18.840		
3,900.00	3,833.46	3,828.83	3,782.10	22.27	18.22	127.47	-476.82	381.10	727.91	689.30	38.62	18.849		
4,000.00	3,931.46	3,926.94	3,878.78	22.87	18.69	127.49	-488.84	392.71	747.25	707.62	39.63	18.857		
4,100.00	4,029.45	4,025.06	3,975.46	23.47	19.16	127.52	-500.85	404.31	766.59	725.95	40.64	18.864		
4,200.00	4,127.44	4,123.17	4,072.14	24.07	19.63	127.54	-512.86	415.91	785.93	744.28	41.65	18.871		
4,300.00	4,225.44	4,221.28	4,168.82	24.67	20.11	127.56	-524.87	427.51	805.27	762.61	42.66	18.877		
4,400.00	4,323.43	4,319.39	4,265.50	25.27	20.58	127.58	-536.89	439.11	824.61	780.93	43.67	18.882		
4,507.81	4,429.08	4,425.17	4,369.73	25.92	21.09	127.61	-549.84	451.61	845.45	800.69	44.76	18.887		
4,600.00	4,519.70	4,515.78	4,459.03	26.45	21.53	127.82	-560.93	462.33	862.39	816.70	45.69	18.876		
4,700.00	4,618.56	4,614.36	4,556.17	26.98	22.01	127.84	-573.00	473.98	878.75	832.08	46.67	18.829		
4,800.00	4,717.88	4,713.13	4,653.50	27.46	22.49	127.66	-585.09	485.66	893.02	845.39	47.63	18.749		
4,900.00	4,817.54	4,811.97	4,750.90	27.89	22.96	127.28	-597.20	497.35	905.24	856.67	48.57	18.639		
5,000.00	4,917.43	4,910.76	4,848.25	28.28	23.44	126.72	-609.29	509.03	915.48	866.00	49.48	18.503		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,007.78	4,928.51	28.57	23.91	-160.74	-619.27	518.66	922.50	872.22	50.28	18.347		
5,100.00	5,017.42	5,009.39	4,945.43	28.62	23.92	-160.90	-621.37	520.69	923.86	873.50	50.36	18.346		
5,200.00	5,117.42	5,107.93	5,042.53	28.95	24.40	-161.83	-633.43	532.34	931.77	880.55	51.22	18.191		
5,300.00	5,217.42	5,206.47	5,139.64	29.28	24.88	-162.73	-645.50	543.99	939.93	887.84	52.09	18.045		
5,400.00	5,317.42	5,305.01	5,236.74	29.62	25.35	-163.63	-657.56	555.64	948.32	895.37	52.95	17.910		
5,500.00	5,417.42	5,403.55	5,333.84	29.96	25.83	-164.50	-669.63	567.30	956.94	903.13	53.81	17.783		
5,600.00	5,517.42	5,502.09	5,430.94	30.29	26.31	-165.36	-681.69	578.95	965.79	911.12	54.67	17.666		
5,700.00	5,617.42	5,600.63	5,528.05	30.64	26.79	-166.21	-693.76	590.60	974.85	919.32	55.53	17.556		
5,800.00	5,717.42	5,700.83	5,625.15	30.98	27.28	-167.04	-705.82	602.25	984.12	927.73	56.39	17.452		
5,900.00	5,817.42	5,802.29	5,722.25	31.33	27.77	-167.85	-717.89	613.90	993.60	936.34	57.26	17.353		
6,000.00	5,917.42	5,903.75	5,819.36	31.68	28.26	-168.65	-729.95	625.55	1,003.27	945.15	58.13	17.260		
6,100.00	6,017.42	6,005.21	5,916.46	32.03	28.76	-169.44	-742.02	637.20	1,013.15	954.15	58.99	17.175		
6,200.00	6,117.42	6,093.33	6,013.56	32.38	29.18	-170.21	-754.08	648.85	1,023.20	963.41	59.79	17.113		
6,300.00	6,217.42	6,208.13	6,110.66	32.74	29.74	-170.96	-766.15	660.51	1,033.44	972.73	60.72	17.021		
6,400.00	6,317.42	6,309.58	6,207.77	33.09	30.24	-171.70	-778.22	672.16	1,043.86	982.28	61.58	16.952		
6,476.01	6,393.43	6,365.32	6,281.57	33.37	30.51	-172.25	-787.39	681.01	1,051.90	989.76	62.13	16.930		
6,500.00	6,417.42	6,388.90	6,304.81	33.45	30.62	-79.89	-790.27	683.80	1,054.37	992.04	62.33	16.916		
6,550.00	6,467.25	6,437.58	6,352.78	33.59	30.86	-80.03	-796.23	689.56	1,059.09	996.38	62.71	16.888		
6,600.00	6,516.64	6,485.36	6,399.87	33.71	31.09	-80.38	-802.08	695.21	1,063.28	1,000.20	63.07	16.857		
6,650.00	6,565.26	6,531.97	6,445.79	33.80	31.32	-80.94	-807.79	700.72	1,067.05	1,003.64	63.41	16.828		
6,700.00	6,612.83	6,577.10	6,490.27	33.88	31.54	-81.66	-813.32	706.05	1,070.56	1,006.84	63.72	16.802		
6,750.00	6,659.04	6,616.36	6,529.04	33.94	31.72	-82.34	-818.15	709.80	1,074.06	1,010.11	63.95	16.795		
6,800.00	6,703.62	6,655.82	6,568.17	33.99	31.90	-83.03	-823.09	711.16	1,077.78	1,013.60	64.18	16.793		
6,850.00	6,746.28	6,696.37	6,608.36	34.03	32.07	-83.76	-828.22	710.00	1,081.71	1,017.30	64.41	16.794		
6,900.00	6,786.76	6,738.15	6,649.62	34.08	32.22	-84.51	-833.54	706.12	1,085.88	1,021.23	64.65	16.796		
6,950.00	6,824.83	6,781.37	6,691.91	34.13	32.38	-85.30	-839.06	699.24	1,090.29	1,025.37	64.91	16.796		
7,000.00	6,860.23	6,826.23	6,735.22	34.20	32.53	-86.12	-844.78	689.06	1,094.94	1,029.73	65.21	16.791		
7,050.00	6,892.75	6,872.99	6,779.48	34.30	32.68	-86.98	-850.70	675.20	1,099.81	1,034.27	65.54	16.781		
7,100.00	6,922.20	6,921.96	6,824.60	34.43	32.83	-87.88	-856.82	657.22	1,104.90	1,039.00	65.90	16.765		
7,150.00	6,948.38	6,973.49	6,870.44	34.60	32.99	-88.82	-863.14	634.58	1,110.16	1,043.86	66.31	16.743		
7,200.00	6,971.15	7,027.99	6,916.76	34.82	33.16	-89.80	-869.63	606.65	1,115.55	1,048.81	66.75	16.713		
7,250.00	6,990.35	7,085.93	6,963.21	35.09	33.34	-90.84	-876.28	572.69	1,121.01	1,053.78	67.22	16.676		
7,300.00	7,005.87	7,147.84	7,009.22	35.43	33.54	-91.94	-883.02	531.85	1,126.43	1,058.69	67.75	16.627		
7,350.00	7,017.62	7,214.32	7,053.98	35.81	33.78	-93.08	-889.77	483.20	1,131.72	1,063.39	68.33	16.563		
7,400.00	7,025.52	7,285.97	7,096.28	36.26	34.07	-94.28	-896.41	425.80	1,136.71	1,067.72	68.99	16.477		
7,450.00	7,029.52	7,363.38	7,134.46	36.75	34.46	-95.50	-902.73	358.82	1,141.24	1,071.47	69.77	16.356		
7,483.86	7,030.00	7,419.30	7,156.88	37.12	34.80	-96.33	-906.70	307.76	1,143.94	1,073.53	70.41	16.248		
7,500.00	7,029.80	7,447.10	7,166.34	37.30	34.98	-96.82	-908.48	281.68	1,145.07	1,074.33	70.74	16.186		
7,600.00	7,028.57	7,635.30	7,199.77	38.58	36.64	-98.58	-916.79	97.36	1,148.20	1,074.51	73.70	15.580		
7,700.00	7,027.34	7,751.29	7,198.48	40.10	38.00	-98.61	-919.19	-18.59	1,146.16	1,069.51	76.65	14.952		
7,800.00	7,026.10	7,851.27	7,196.67	41.83	39.36	-98.59	-921.16	-118.53	1,144.00	1,064.23	79.77	14.341		
7,900.00	7,024.87	7,951.25	7,194.85	43.74	40.88	-98.58	-923.14	-218.47	1,141.84	1,058.62	83.22	13.721		
8,000.00	7,023.63	8,051.22	7,193.03	45.82	42.55	-98.57	-925.11	-318.41	1,139.68	1,052.72	86.96	13.106		
8,100.00	7,022.40	8,151.20	7,191.22	48.04	44.34	-98.55	-927.09	-418.35	1,137.52	1,046.57	90.95	12.506		
8,200.00	7,021.17	8,251.18	7,189.40	50.38	46.25	-98.54	-929.07	-518.29	1,135.36	1,040.19	95.18	11.929		
8,300.00	7,019.93	8,351.15	7,187.58	52.82	48.25	-98.53	-931.04	-618.23	1,133.20	1,033.61	99.59	11.378		
8,400.00	7,018.70	8,451.13	7,185.77	55.35	50.33	-98.51	-933.02	-718.17	1,131.04	1,026.86	104.18	10.856		
8,500.00	7,017.47	8,551.10	7,183.95	57.97	52.49	-98.50	-934.99	-818.11	1,128.88	1,019.97	108.92	10.364		
8,600.00	7,016.23	8,651.08	7,182.13	60.65	54.71	-98.49	-936.97	-918.05	1,126.73	1,012.94	113.79	9.902		
8,700.00	7,015.00	8,751.06	7,180.32	63.39	56.98	-98.47	-938.94	-1,017.99	1,124.57	1,005.80	118.77	9.468		
8,800.00	7,013.76	8,851.03	7,178.50	66.19	59.31	-98.46	-940.92	-1,117.93	1,122.41	998.55	123.86	9.062		
8,900.00	7,012.53	8,951.01	7,176.68	69.03	61.68	-98.44	-942.90	-1,217.87	1,120.25	991.22	129.03	8.682		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	9,050.99	7,174.87	71.91	64.09	-98.43	-944.87	-1,317.81	1,118.09	983.81	134.28	8.326		
9,100.00	7,010.06	9,150.96	7,173.05	74.83	66.53	-98.42	-946.85	-1,417.75	1,115.93	976.33	139.60	7.994		
9,200.00	7,008.83	9,250.94	7,171.23	77.78	69.01	-98.40	-948.82	-1,517.69	1,113.77	968.78	144.99	7.682		
9,300.00	7,007.60	9,350.91	7,169.42	80.76	71.51	-98.39	-950.80	-1,617.64	1,111.61	961.18	150.43	7.390		
9,400.00	7,006.36	9,450.89	7,167.60	83.76	74.04	-98.37	-952.77	-1,717.58	1,109.46	953.53	155.92	7.115		
9,500.00	7,005.13	9,550.87	7,165.78	86.79	76.59	-98.36	-954.75	-1,817.52	1,107.30	945.84	161.46	6.858		
9,600.00	7,003.90	9,650.84	7,163.97	89.84	79.16	-98.35	-956.73	-1,917.46	1,105.14	938.11	167.03	6.616		
9,700.00	7,002.66	9,750.82	7,162.15	92.90	81.75	-98.33	-958.70	-2,017.40	1,102.98	930.33	172.65	6.389		
9,800.00	7,001.43	9,850.80	7,160.33	95.99	84.35	-98.32	-960.68	-2,117.34	1,100.82	922.53	178.29	6.174		
9,900.00	7,000.19	9,950.77	7,158.52	99.08	86.97	-98.30	-962.65	-2,217.28	1,098.66	914.70	183.97	5.972		
10,000.00	6,998.96	10,050.75	7,156.70	102.19	89.61	-98.29	-964.63	-2,317.22	1,096.51	906.83	189.67	5.781		
10,100.00	6,997.73	10,150.73	7,154.88	105.32	92.25	-98.27	-966.60	-2,417.16	1,094.35	898.95	195.40	5.601		
10,200.00	6,996.49	10,250.70	7,153.07	108.45	94.91	-98.26	-968.58	-2,517.10	1,092.19	891.04	201.15	5.430		
10,300.00	6,995.26	10,350.68	7,151.25	111.60	97.58	-98.25	-970.56	-2,617.04	1,090.03	883.11	206.93	5.268		
10,400.00	6,994.03	10,450.65	7,149.43	114.75	100.26	-98.23	-972.53	-2,716.98	1,087.87	875.16	212.72	5.114		
10,500.00	6,992.79	10,550.63	7,147.62	117.92	102.95	-98.22	-974.51	-2,816.92	1,085.72	867.19	218.53	4.968		
10,600.00	6,991.56	10,650.61	7,145.80	121.09	105.65	-98.20	-976.48	-2,916.86	1,083.56	859.20	224.36	4.830		
10,700.00	6,990.33	10,750.58	7,143.98	124.27	108.35	-98.19	-978.46	-3,016.80	1,081.40	851.20	230.20	4.698		
10,800.00	6,989.09	10,850.56	7,142.17	127.46	111.06	-98.17	-980.43	-3,116.74	1,079.24	843.19	236.06	4.572		
10,900.00	6,987.86	10,950.54	7,140.35	130.65	113.78	-98.16	-982.41	-3,216.68	1,077.09	835.16	241.93	4.452		
11,000.00	6,986.62	11,050.51	7,138.53	133.85	116.51	-98.14	-984.39	-3,316.62	1,074.93	827.12	247.81	4.338		
11,100.00	6,985.39	11,150.49	7,136.72	137.06	119.24	-98.13	-986.36	-3,416.56	1,072.77	819.07	253.70	4.228		
11,200.00	6,984.16	11,250.47	7,134.90	140.27	121.97	-98.11	-988.34	-3,516.50	1,070.61	811.01	259.61	4.124		
11,300.00	6,982.92	11,350.44	7,133.08	143.48	124.71	-98.10	-990.31	-3,616.44	1,068.46	802.94	265.52	4.024		
11,400.00	6,981.69	11,450.42	7,131.26	146.70	127.46	-98.08	-992.29	-3,716.38	1,066.30	794.85	271.45	3.928		
11,500.00	6,980.46	11,550.39	7,129.45	149.92	130.21	-98.07	-994.26	-3,816.32	1,064.14	786.76	277.38	3.836		
11,600.00	6,979.22	11,650.37	7,127.63	153.15	132.96	-98.05	-996.24	-3,916.26	1,061.99	778.67	283.32	3.748		
11,700.00	6,977.99	11,750.35	7,125.81	156.38	135.72	-98.04	-998.22	-4,016.20	1,059.83	770.56	289.27	3.664		
11,800.00	6,976.75	11,850.32	7,124.00	159.62	138.48	-98.02	-1,000.19	-4,116.14	1,057.67	762.45	295.23	3.583		
11,900.00	6,975.52	11,950.30	7,122.18	162.86	141.25	-98.00	-1,002.17	-4,216.08	1,055.52	754.32	301.19	3.504		
12,000.00	6,974.29	12,050.28	7,120.36	166.10	144.01	-97.99	-1,004.14	-4,316.02	1,053.36	746.20	307.16	3.429		
12,100.00	6,973.05	12,150.25	7,118.55	169.34	146.78	-97.97	-1,006.12	-4,415.96	1,051.20	738.06	313.14	3.357		
12,200.00	6,971.82	12,250.23	7,116.73	172.59	149.56	-97.96	-1,008.09	-4,515.90	1,049.05	729.93	319.12	3.287		
12,300.00	6,970.59	12,350.20	7,114.91	175.84	152.34	-97.94	-1,010.07	-4,615.84	1,046.89	721.78	325.11	3.220		
12,400.00	6,969.35	12,450.18	7,113.10	179.09	155.11	-97.93	-1,012.05	-4,715.78	1,044.73	713.63	331.10	3.155		
12,500.00	6,968.12	12,550.16	7,111.28	182.35	157.90	-97.91	-1,014.02	-4,815.72	1,042.58	705.48	337.10	3.093		
12,600.00	6,966.89	12,650.13	7,109.46	185.60	160.68	-97.89	-1,016.00	-4,915.67	1,040.42	697.32	343.11	3.032		
12,700.00	6,965.65	12,750.11	7,107.65	188.86	163.47	-97.88	-1,017.97	-5,015.61	1,038.26	689.15	349.11	2.974		
12,800.00	6,964.42	12,850.09	7,105.83	192.12	166.25	-97.86	-1,019.95	-5,115.55	1,036.11	680.98	355.13	2.918		
12,900.00	6,963.18	12,950.06	7,104.01	195.38	169.04	-97.85	-1,021.92	-5,215.49	1,033.95	672.81	361.14	2.863		
13,000.00	6,961.95	13,050.04	7,102.20	198.65	171.84	-97.83	-1,023.90	-5,315.43	1,031.80	664.63	367.16	2.810		
13,100.00	6,960.72	13,150.02	7,100.38	201.91	174.63	-97.81	-1,025.88	-5,415.37	1,029.64	656.45	373.19	2.759		
13,200.00	6,959.48	13,249.99	7,098.56	205.18	177.42	-97.80	-1,027.85	-5,515.31	1,027.49	648.27	379.22	2.709		
13,300.00	6,958.25	13,349.97	7,096.75	208.45	180.22	-97.78	-1,029.83	-5,615.25	1,025.33	640.08	385.25	2.661		
13,400.00	6,957.02	13,449.94	7,094.93	211.72	183.02	-97.76	-1,031.80	-5,715.19	1,023.17	631.89	391.29	2.615		
13,500.00	6,955.78	13,549.92	7,093.11	214.99	185.82	-97.75	-1,033.78	-5,815.13	1,021.02	623.69	397.32	2.570		
13,600.00	6,954.55	13,649.90	7,091.30	218.27	188.62	-97.73	-1,035.75	-5,915.07	1,018.86	615.50	403.37	2.526		
13,700.00	6,953.32	13,749.87	7,089.48	221.54	191.42	-97.71	-1,037.73	-6,015.01	1,016.71	607.30	409.41	2.483		
13,800.00	6,952.08	13,849.85	7,087.66	224.82	194.23	-97.70	-1,039.71	-6,114.95	1,014.55	599.09	415.46	2.442		
13,900.00	6,950.85	13,949.83	7,085.85	228.10	197.03	-97.68	-1,041.68	-6,214.89	1,012.40	590.89	421.51	2.402		
14,000.00	6,949.61	14,049.80	7,084.03	231.37	199.84	-97.66	-1,043.66	-6,314.83	1,010.24	582.68	427.56	2.363		
14,100.00	6,948.38	14,149.78	7,082.21	234.65	202.65	-97.65	-1,045.63	-6,414.77	1,008.09	574.47	433.62	2.325		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,200.00	6,947.15	14,249.76	7,080.40	237.93	205.46	-97.63	-1,047.61	-6,514.71	1,005.93	566.26	439.68	2.288		
14,300.00	6,945.91	14,349.73	7,078.58	241.22	208.27	-97.61	-1,049.58	-6,614.65	1,003.78	558.04	445.74	2.252		
14,400.00	6,944.68	14,449.71	7,076.76	244.50	211.08	-97.60	-1,051.56	-6,714.59	1,001.62	549.82	451.80	2.217		
14,500.00	6,943.45	14,549.68	7,074.95	247.78	213.89	-97.58	-1,053.54	-6,814.53	999.47	541.60	457.87	2.183		
14,600.00	6,942.21	14,649.66	7,073.13	251.07	216.70	-97.56	-1,055.51	-6,914.47	997.32	533.38	463.94	2.150		
14,700.00	6,940.98	14,749.64	7,071.31	254.35	219.52	-97.54	-1,057.49	-7,014.41	995.16	525.15	470.01	2.117		
14,800.00	6,939.74	14,849.61	7,069.50	257.64	222.33	-97.53	-1,059.46	-7,114.35	993.01	516.93	476.08	2.086		
14,900.00	6,938.51	14,949.59	7,067.68	260.92	225.15	-97.51	-1,061.44	-7,214.29	990.85	508.70	482.15	2.055		
15,000.00	6,937.28	15,049.57	7,065.86	264.21	227.96	-97.49	-1,063.41	-7,314.23	988.70	500.47	488.23	2.025		
15,100.00	6,936.04	15,149.54	7,064.05	267.50	230.78	-97.47	-1,065.39	-7,414.17	986.54	492.24	494.31	1.996		
15,200.00	6,934.81	15,249.52	7,062.23	270.79	233.60	-97.45	-1,067.37	-7,514.11	984.39	484.00	500.39	1.967		
15,300.00	6,933.58	15,349.49	7,060.41	274.08	236.41	-97.44	-1,069.34	-7,614.05	982.24	475.77	506.47	1.939		
15,400.00	6,932.34	15,449.47	7,058.59	277.37	239.23	-97.42	-1,071.32	-7,713.99	980.08	467.53	512.55	1.912		
15,500.00	6,931.11	15,549.45	7,056.78	280.66	242.05	-97.40	-1,073.29	-7,813.93	977.93	459.29	518.64	1.886		
15,589.88	6,930.00	15,639.31	7,055.15	283.62	244.59	-97.38	-1,075.07	-7,903.76	975.99	451.88	524.11	1.862 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.41	-59.75	-5.85	60.03					
100.00	100.00	100.00	100.00	3.28	3.28	-174.41	-59.75	-5.85	60.03	53.46	6.57	9.138		
200.00	200.00	200.00	200.00	3.34	3.34	-174.41	-59.75	-5.85	60.03	53.36	6.67	8.995 CC, ES		
300.00	299.98	299.98	299.98	3.44	3.44	113.95	-59.75	-5.85	60.72	53.83	6.89	8.815		
400.00	399.84	398.76	398.74	3.60	3.60	116.86	-60.84	-4.54	63.87	56.67	7.20	8.871		
500.00	499.45	497.38	497.23	3.81	3.79	119.40	-64.12	-0.65	70.47	62.87	7.60	9.268		
600.00	598.70	595.70	595.17	4.08	4.02	121.34	-69.57	5.82	80.48	72.38	8.10	9.938		
700.00	697.47	693.55	692.31	4.40	4.28	122.65	-77.13	14.80	93.82	85.14	8.68	10.814		
774.77	770.92	766.32	764.26	4.68	4.50	123.26	-84.14	23.12	105.93	96.77	9.16	11.564		
800.00	795.65	790.88	788.49	4.78	4.57	123.44	-86.76	26.24	110.36	101.02	9.33	11.825		
900.00	893.64	889.31	885.50	5.20	4.90	123.93	-97.45	38.93	128.01	117.96	10.05	12.740		
1,000.00	991.63	987.73	982.52	5.66	5.26	124.30	-108.13	51.61	145.67	134.86	10.82	13.469		
1,100.00	1,089.63	1,086.16	1,079.54	6.15	5.63	124.59	-118.81	64.30	163.34	151.71	11.62	14.051		
1,200.00	1,187.62	1,184.58	1,176.56	6.65	6.02	124.83	-129.49	76.98	181.01	168.54	12.47	14.519		
1,300.00	1,285.62	1,283.01	1,273.57	7.17	6.42	125.02	-140.17	89.67	198.68	185.34	13.34	14.898		
1,400.00	1,383.61	1,381.43	1,370.59	7.71	6.83	125.18	-150.86	102.35	216.35	202.12	14.23	15.208		
1,500.00	1,481.60	1,479.85	1,467.61	8.25	7.25	125.32	-161.54	115.04	234.03	218.89	15.13	15.463		
1,600.00	1,579.60	1,578.28	1,564.62	8.80	7.68	125.43	-172.22	127.72	251.70	235.64	16.06	15.674		
1,700.00	1,677.59	1,676.70	1,661.64	9.36	8.11	125.54	-182.90	140.41	269.38	252.38	16.99	15.851		
1,800.00	1,775.59	1,775.13	1,758.66	9.92	8.55	125.63	-193.58	153.09	287.05	269.11	17.94	16.000		
1,900.00	1,873.58	1,873.55	1,855.68	10.49	8.99	125.71	-204.26	165.78	304.73	285.84	18.90	16.126		
2,000.00	1,971.57	1,971.98	1,952.69	11.06	9.44	125.78	-214.95	178.46	322.41	302.55	19.86	16.234		
2,100.00	2,069.57	2,070.40	2,049.71	11.64	9.89	125.84	-225.63	191.15	340.09	319.26	20.83	16.327		
2,200.00	2,167.56	2,168.82	2,146.73	12.22	10.34	125.90	-236.31	203.83	357.77	335.96	21.81	16.407		
2,300.00	2,265.56	2,267.25	2,243.74	12.80	10.80	125.95	-246.99	216.52	375.45	352.66	22.79	16.477		
2,400.00	2,363.55	2,365.67	2,340.76	13.38	11.25	126.00	-257.67	229.20	393.13	369.36	23.77	16.538		
2,500.00	2,461.54	2,464.10	2,437.78	13.97	11.71	126.04	-268.36	241.89	410.81	386.05	24.76	16.592		
2,600.00	2,559.54	2,562.52	2,534.79	14.55	12.17	126.08	-279.04	254.57	428.49	402.74	25.75	16.639		
2,700.00	2,657.53	2,660.94	2,631.81	15.14	12.64	126.11	-289.72	267.26	446.17	419.42	26.75	16.681		
2,800.00	2,755.53	2,759.37	2,728.83	15.73	13.10	126.15	-300.40	279.94	463.85	436.11	27.75	16.718		
2,900.00	2,853.52	2,857.79	2,825.85	16.32	13.56	126.18	-311.08	292.63	481.53	452.79	28.75	16.752		
3,000.00	2,951.52	2,956.22	2,922.86	16.91	14.03	126.21	-321.76	305.31	499.21	469.46	29.75	16.781		
3,100.00	3,049.51	3,054.64	3,019.88	17.51	14.50	126.23	-332.45	318.00	516.89	486.14	30.75	16.808		
3,200.00	3,147.50	3,153.07	3,116.90	18.10	14.96	126.26	-343.13	330.68	534.57	502.82	31.76	16.832		
3,300.00	3,245.50	3,251.49	3,213.91	18.70	15.43	126.28	-353.81	343.37	552.26	519.49	32.77	16.854		
3,400.00	3,343.49	3,349.91	3,310.93	19.29	15.90	126.31	-364.49	356.05	569.94	536.16	33.78	16.874		
3,500.00	3,441.49	3,448.34	3,407.95	19.89	16.37	126.33	-375.17	368.74	587.62	552.83	34.79	16.892		
3,600.00	3,539.48	3,546.76	3,504.97	20.48	16.84	126.35	-385.85	381.42	605.30	569.50	35.80	16.909		
3,700.00	3,637.47	3,645.19	3,601.98	21.08	17.31	126.36	-396.54	394.11	622.98	586.17	36.81	16.924		
3,800.00	3,735.47	3,743.61	3,699.00	21.68	17.79	126.38	-407.22	406.79	640.66	602.84	37.82	16.938		
3,900.00	3,833.46	3,842.04	3,796.02	22.27	18.26	126.40	-417.90	419.48	658.34	619.50	38.84	16.950		
4,000.00	3,931.46	3,940.46	3,893.03	22.87	18.73	126.41	-428.58	432.16	676.03	636.17	39.86	16.962		
4,100.00	4,029.45	4,038.88	3,990.05	23.47	19.20	126.43	-439.26	444.85	693.71	652.83	40.87	16.973		
4,200.00	4,127.44	4,137.31	4,087.07	24.07	19.68	126.44	-449.95	457.53	711.39	669.50	41.89	16.982		
4,300.00	4,225.44	4,235.73	4,184.09	24.67	20.15	126.46	-460.63	470.22	729.07	686.16	42.91	16.992		
4,400.00	4,323.43	4,334.16	4,281.10	25.27	20.63	126.47	-471.31	482.90	746.75	702.83	43.93	17.000		
4,507.81	4,429.08	4,440.27	4,385.70	25.92	21.14	126.48	-482.83	496.58	765.82	720.79	45.03	17.008		
4,600.00	4,519.70	4,531.15	4,475.28	26.45	21.58	126.65	-492.69	508.29	781.25	735.29	45.96	17.000		
4,700.00	4,618.56	4,629.97	4,572.69	26.98	22.05	126.62	-503.41	521.03	796.02	749.07	46.95	16.956		
4,800.00	4,717.88	4,728.94	4,670.24	27.46	22.53	126.36	-514.15	533.78	808.76	760.85	47.91	16.880		
4,900.00	4,817.54	4,827.92	4,767.81	27.89	23.01	125.88	-524.90	546.54	819.53	770.67	48.86	16.774		
5,000.00	4,917.43	4,926.81	4,865.28	28.28	23.49	125.20	-535.63	559.28	828.40	778.62	49.77	16.643		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,008.31	4,945.61	28.57	23.88	-162.37	-544.47	569.79	834.37	783.86	50.51	16.519		
5,100.00	5,017.42	5,025.48	4,962.54	28.62	23.96	-162.55	-546.34	572.00	835.51	784.85	50.66	16.492		
5,200.00	5,117.42	5,124.05	5,059.70	28.95	24.44	-163.60	-557.03	584.70	842.22	790.69	51.53	16.343		
5,300.00	5,217.42	5,222.62	5,156.86	29.28	24.92	-164.62	-567.73	597.41	849.21	796.81	52.40	16.206		
5,400.00	5,317.42	5,321.19	5,254.02	29.62	25.40	-165.64	-578.43	610.11	856.48	803.21	53.27	16.079		
5,500.00	5,417.42	5,419.76	5,351.19	29.96	25.87	-166.63	-589.13	622.82	864.01	809.88	54.13	15.961		
5,600.00	5,517.42	5,518.33	5,448.35	30.29	26.35	-167.61	-599.83	635.52	871.81	816.82	54.99	15.853		
5,700.00	5,617.42	5,616.90	5,545.51	30.64	26.83	-168.57	-610.52	648.22	879.86	824.01	55.85	15.753		
5,800.00	5,717.42	5,715.47	5,642.67	30.98	27.31	-169.51	-621.22	660.93	888.15	831.44	56.71	15.662		
5,900.00	5,817.42	5,814.04	5,739.83	31.33	27.78	-170.44	-631.92	673.63	896.69	839.13	57.56	15.578		
6,000.00	5,917.42	5,912.61	5,836.99	31.68	28.26	-171.35	-642.62	686.33	905.46	847.04	58.41	15.500		
6,100.00	6,017.42	6,011.18	5,934.15	32.03	28.74	-172.24	-653.31	699.04	914.45	855.19	59.26	15.430		
6,200.00	6,117.42	6,109.75	6,031.31	32.38	29.22	-173.11	-664.01	711.74	923.67	863.55	60.11	15.365		
6,300.00	6,217.42	6,208.32	6,128.47	32.74	29.70	-173.97	-674.71	724.45	933.09	872.14	60.96	15.307		
6,400.00	6,317.42	6,296.26	6,215.41	33.09	30.11	-174.56	-684.36	733.18	943.11	881.44	61.68	15.291		
6,476.01	6,393.43	6,359.93	6,278.63	33.37	30.37	-174.56	-691.61	732.45	951.81	889.67	62.14	15.318		
6,500.00	6,417.42	6,379.94	6,298.45	33.45	30.44	-81.91	-693.92	730.91	954.69	892.42	62.27	15.333		
6,550.00	6,467.25	6,421.57	6,339.46	33.59	30.59	-81.29	-698.77	725.70	960.59	898.08	62.50	15.368		
6,600.00	6,516.64	6,463.12	6,379.95	33.71	30.73	-80.72	-703.64	717.82	966.31	903.60	62.72	15.408		
6,650.00	6,565.26	6,504.60	6,419.78	33.80	30.87	-80.20	-708.52	707.32	971.83	908.93	62.90	15.449		
6,700.00	6,612.83	6,546.07	6,458.81	33.88	31.01	-79.74	-713.39	694.24	977.11	914.03	63.08	15.491		
6,750.00	6,659.04	6,587.54	6,496.91	33.94	31.14	-79.34	-718.23	678.62	982.11	918.87	63.24	15.530		
6,800.00	6,703.62	6,629.05	6,533.95	33.99	31.28	-78.99	-723.03	660.52	986.81	923.41	63.40	15.564		
6,850.00	6,746.28	6,670.63	6,569.79	34.03	31.41	-78.70	-727.77	639.99	991.18	927.60	63.58	15.591		
6,900.00	6,786.76	6,712.31	6,604.30	34.08	31.55	-78.48	-732.43	617.08	995.20	931.43	63.76	15.608		
6,950.00	6,824.83	6,754.13	6,637.33	34.13	31.69	-78.32	-737.00	591.86	998.84	934.86	63.98	15.612		
7,000.00	6,860.23	6,796.11	6,668.76	34.20	31.85	-78.21	-741.45	564.41	1,002.10	937.87	64.24	15.600		
7,050.00	6,892.75	6,838.28	6,698.44	34.30	32.01	-78.18	-745.77	534.78	1,004.96	940.41	64.55	15.569		
7,100.00	6,922.20	6,880.67	6,726.24	34.43	32.19	-78.20	-749.95	503.06	1,007.40	942.48	64.92	15.517		
7,150.00	6,948.38	6,923.31	6,752.03	34.60	32.39	-78.29	-753.95	469.34	1,009.42	944.05	65.37	15.442		
7,200.00	6,971.15	6,966.24	6,775.65	34.82	32.61	-78.44	-757.77	433.71	1,011.01	945.11	65.90	15.341		
7,250.00	6,990.35	7,009.48	6,796.97	35.09	32.86	-78.65	-761.38	396.28	1,012.17	945.65	66.53	15.214		
7,300.00	7,005.87	7,053.07	6,815.86	35.43	33.14	-78.93	-764.77	357.14	1,012.91	945.66	67.25	15.062		
7,350.00	7,017.62	7,097.04	6,832.16	35.81	33.46	-79.26	-767.91	316.44	1,013.22	945.15	68.07	14.884		
7,400.00	7,025.52	7,141.42	6,845.74	36.26	33.82	-79.66	-770.79	274.30	1,013.11	944.12	69.00	14.684		
7,450.00	7,029.52	7,186.24	6,856.45	36.75	34.23	-80.12	-773.38	230.86	1,012.60	942.59	70.01	14.464		
7,483.86	7,030.00	7,216.87	6,862.01	37.12	34.52	-80.46	-774.96	200.78	1,012.02	941.27	70.75	14.305		
7,500.00	7,029.80	7,231.58	6,864.17	37.30	34.67	-80.59	-775.66	186.26	1,011.71	940.60	71.11	14.228		
7,600.00	7,028.57	7,331.23	6,870.05	38.58	35.76	-80.98	-779.24	94.03	1,010.29	936.68	73.61	13.725		
7,700.00	7,027.34	7,424.13	6,868.62	40.10	36.95	-80.96	-782.22	-5.91	1,009.25	932.90	76.35	13.219		
7,800.00	7,026.10	7,524.12	6,867.20	41.83	38.39	-80.94	-785.20	-105.85	1,008.20	928.67	79.53	12.677		
7,900.00	7,024.87	7,624.12	6,865.78	43.74	39.99	-80.92	-788.18	-205.79	1,007.15	924.11	83.04	12.129		
8,000.00	7,023.63	7,724.11	6,864.35	45.82	41.73	-80.90	-791.16	-305.72	1,006.10	919.27	86.83	11.587		
8,100.00	7,022.40	7,824.11	6,862.93	48.04	43.59	-80.88	-794.14	-405.66	1,005.06	914.18	90.87	11.060		
8,200.00	7,021.17	7,924.10	6,861.50	50.38	45.55	-80.86	-797.12	-505.60	1,004.01	908.88	95.13	10.554		
8,300.00	7,019.93	8,024.09	6,860.08	52.82	47.61	-80.84	-800.10	-605.54	1,002.96	903.38	99.58	10.072		
8,400.00	7,018.70	8,124.09	6,858.65	55.35	49.74	-80.81	-803.08	-705.48	1,001.92	897.72	104.20	9.616		
8,500.00	7,017.47	8,224.08	6,857.23	57.97	51.94	-80.79	-806.06	-805.42	1,000.87	891.92	108.95	9.186		
8,600.00	7,016.23	8,324.07	6,855.81	60.65	54.21	-80.77	-809.04	-905.36	999.82	885.99	113.84	8.783		
8,700.00	7,015.00	8,424.07	6,854.38	63.39	56.52	-80.75	-812.03	-1,005.30	998.78	879.94	118.83	8.405		
8,800.00	7,013.76	8,524.06	6,852.96	66.19	58.89	-80.73	-815.01	-1,105.24	997.73	873.81	123.92	8.051		
8,900.00	7,012.53	8,624.06	6,851.53	69.03	61.29	-80.71	-817.99	-1,205.18	996.68	867.59	129.10	7.720		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	8,724.05	6,850.11	71.91	63.73	-80.69	-820.97	-1,305.12	995.64	861.29	134.35	7.411		
9,100.00	7,010.06	8,824.04	6,848.68	74.83	66.20	-80.67	-823.95	-1,405.06	994.59	854.93	139.67	7.121		
9,200.00	7,008.83	8,924.04	6,847.26	77.78	68.70	-80.65	-826.93	-1,505.00	993.55	848.50	145.04	6.850		
9,300.00	7,007.60	9,024.03	6,845.84	80.76	71.23	-80.63	-829.91	-1,604.94	992.50	842.03	150.47	6.596		
9,400.00	7,006.36	9,124.03	6,844.41	83.76	73.78	-80.61	-832.89	-1,704.87	991.46	835.51	155.95	6.358		
9,500.00	7,005.13	9,224.02	6,842.99	86.79	76.35	-80.58	-835.87	-1,804.81	990.41	828.94	161.47	6.134		
9,600.00	7,003.90	9,324.01	6,841.56	89.84	78.94	-80.56	-838.85	-1,904.75	989.37	822.34	167.03	5.923		
9,700.00	7,002.66	9,424.01	6,840.14	92.90	81.55	-80.54	-841.83	-2,004.69	988.32	815.70	172.62	5.725		
9,800.00	7,001.43	9,524.00	6,838.71	95.99	84.17	-80.52	-844.81	-2,104.63	987.28	809.04	178.24	5.539		
9,900.00	7,000.19	9,624.00	6,837.29	99.08	86.81	-80.50	-847.79	-2,204.57	986.23	802.34	183.89	5.363		
10,000.00	6,998.96	9,723.99	6,835.87	102.19	89.46	-80.48	-850.78	-2,304.51	985.19	795.62	189.57	5.197		
10,100.00	6,997.73	9,823.98	6,834.44	105.32	92.12	-80.46	-853.76	-2,404.45	984.14	788.88	195.27	5.040		
10,200.00	6,996.49	9,923.98	6,833.02	108.45	94.79	-80.43	-856.74	-2,504.39	983.10	782.11	200.99	4.891		
10,300.00	6,995.26	10,023.97	6,831.59	111.60	97.48	-80.41	-859.72	-2,604.33	982.05	775.33	206.73	4.751		
10,400.00	6,994.03	10,123.96	6,830.17	114.75	100.17	-80.39	-862.70	-2,704.27	981.01	768.53	212.48	4.617		
10,500.00	6,992.79	10,223.96	6,828.75	117.92	102.86	-80.37	-865.68	-2,804.21	979.97	761.71	218.26	4.490		
10,600.00	6,991.56	10,323.95	6,827.32	121.09	105.57	-80.35	-868.66	-2,904.15	978.92	754.88	224.04	4.369		
10,700.00	6,990.33	10,423.95	6,825.90	124.27	108.28	-80.33	-871.64	-3,004.09	977.88	748.03	229.85	4.254		
10,800.00	6,989.09	10,523.94	6,824.47	127.46	111.00	-80.30	-874.62	-3,104.02	976.84	741.17	235.66	4.145		
10,900.00	6,987.86	10,623.93	6,823.05	130.65	113.73	-80.28	-877.60	-3,203.96	975.79	734.31	241.49	4.041		
11,000.00	6,986.62	10,723.93	6,821.62	133.85	116.46	-80.26	-880.58	-3,303.90	974.75	727.43	247.32	3.941		
11,100.00	6,985.39	10,823.92	6,820.20	137.06	119.20	-80.24	-883.56	-3,403.84	973.71	720.54	253.17	3.846		
11,200.00	6,984.16	10,923.92	6,818.78	140.27	121.94	-80.22	-886.55	-3,503.78	972.66	713.64	259.03	3.755		
11,300.00	6,982.92	11,023.91	6,817.35	143.48	124.69	-80.19	-889.53	-3,603.72	971.62	706.73	264.89	3.668		
11,400.00	6,981.69	11,123.90	6,815.93	146.70	127.44	-80.17	-892.51	-3,703.66	970.58	699.81	270.76	3.585		
11,500.00	6,980.46	11,223.90	6,814.50	149.92	130.19	-80.15	-895.49	-3,803.60	969.54	692.89	276.64	3.505		
11,600.00	6,979.22	11,323.89	6,813.08	153.15	132.95	-80.13	-898.47	-3,903.54	968.49	685.96	282.53	3.428		
11,700.00	6,977.99	11,423.88	6,811.65	156.38	135.71	-80.11	-901.45	-4,003.48	967.45	679.03	288.42	3.354		
11,800.00	6,976.75	11,523.88	6,810.23	159.62	138.48	-80.08	-904.43	-4,103.42	966.41	672.09	294.32	3.283		
11,900.00	6,975.52	11,623.87	6,808.80	162.86	141.24	-80.06	-907.41	-4,203.36	965.37	665.16	300.21	3.211		
12,000.00	6,974.29	11,723.86	6,807.38	166.10	144.00	-79.96	-910.39	-4,303.30	964.33	657.91	306.10	3.140		
12,100.00	6,973.05	11,823.85	6,805.95	169.34	146.76	-79.90	-913.37	-4,403.24	963.29	650.66	312.00	3.069		
12,200.00	6,971.82	11,923.84	6,804.52	172.59	149.51	-79.84	-916.35	-4,503.18	962.25	643.41	317.91	2.998		
12,300.00	6,970.59	12,023.83	6,803.09	175.84	152.27	-79.77	-919.33	-4,603.12	961.21	636.16	323.82	2.927		
12,400.00	6,969.35	12,123.82	6,801.66	179.09	155.02	-79.71	-922.31	-4,703.06	960.17	628.91	329.73	2.856		
12,500.00	6,968.12	12,223.81	6,799.23	182.35	157.78	-79.64	-925.29	-4,803.00	959.13	621.66	335.64	2.785		
12,600.00	6,966.89	12,323.80	6,797.80	185.60	160.53	-79.57	-928.27	-4,902.94	958.09	614.41	341.55	2.714		
12,700.00	6,965.65	12,423.79	6,796.37	188.86	163.29	-79.51	-931.25	-5,002.88	957.05	607.16	347.46	2.643		
12,800.00	6,964.42	12,523.78	6,794.94	192.12	166.04	-79.44	-934.23	-5,102.82	956.01	600.00	353.37	2.572		
12,900.00	6,963.18	12,623.77	6,793.51	195.38	168.79	-79.37	-937.21	-5,202.76	954.97	592.85	359.28	2.501		
13,000.00	6,961.95	12,723.76	6,792.08	198.65	171.55	-79.30	-940.19	-5,302.70	953.93	585.70	365.19	2.430		
13,100.00	6,960.72	12,823.75	6,790.65	201.91	174.30	-79.23	-943.17	-5,402.64	952.89	578.55	371.10	2.359		
13,200.00	6,959.48	12,923.74	6,789.22	205.18	177.06	-79.16	-946.15	-5,502.58	951.85	571.40	377.01	2.288		
13,300.00	6,958.25	13,023.73	6,787.79	208.45	179.81	-79.09	-949.13	-5,602.52	950.81	564.25	382.92	2.217		
13,400.00	6,957.02	13,123.72	6,786.36	211.72	182.57	-79.01	-952.11	-5,702.46	949.77	557.10	388.83	2.146		
13,500.00	6,955.78	13,223.71	6,784.93	214.99	185.32	-78.94	-955.09	-5,802.40	948.73	550.00	394.74	2.075		
13,600.00	6,954.55	13,323.70	6,783.50	218.27	188.08	-78.87	-958.07	-5,902.34	947.69	542.85	400.65	1.999		
13,700.00	6,953.32	13,423.69	6,782.07	221.54	190.83	-78.79	-961.05	-6,002.28	946.65	535.70	406.56	1.928		
13,800.00	6,952.08	13,523.68	6,780.64	224.82	193.59	-78.72	-964.03	-6,102.22	945.61	528.55	412.47	1.857		
13,900.00	6,950.85	13,623.67	6,779.21	228.10	196.34	-78.64	-967.01	-6,202.16	944.57	521.40	418.38	1.786		
14,000.00	6,949.61	13,723.66	6,777.78	231.37	199.10	-78.56	-970.00	-6,302.10	943.53	514.25	424.29	1.715		
14,100.00	6,948.38	13,823.65	6,776.35	234.65	201.85	-78.48	-973.00	-6,402.04	942.49	507.10	430.20	1.644		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,200.00	6,947.15	13,957.81	6,775.59	237.93	206.74	-78.41	-885.30	-6,536.99	852.08	415.69	436.39	1.953		
14,300.00	6,945.91	14,057.68	6,774.17	241.22	209.56	-78.33	-884.41	-6,636.85	847.26	405.00	442.26	1.916		
14,400.00	6,944.68	14,157.56	6,772.75	244.50	212.38	-78.24	-883.53	-6,736.72	842.44	394.31	448.13	1.880		
14,500.00	6,943.45	14,257.44	6,771.33	247.78	215.20	-78.16	-882.64	-6,836.58	837.62	383.63	453.99	1.845		
14,600.00	6,942.21	14,357.31	6,769.91	251.07	218.02	-78.08	-881.75	-6,936.44	832.80	372.96	459.85	1.811		
14,700.00	6,940.98	14,457.19	6,768.49	254.35	220.85	-78.00	-880.86	-7,036.30	827.99	362.29	465.70	1.778		
14,800.00	6,939.74	14,557.07	6,767.07	257.64	223.67	-77.91	-879.97	-7,136.17	823.18	351.62	471.55	1.746		
14,900.00	6,938.51	14,656.94	6,765.64	260.92	226.50	-77.82	-879.08	-7,236.03	818.37	340.97	477.40	1.714		
15,000.00	6,937.28	14,756.82	6,764.22	264.21	229.32	-77.74	-878.19	-7,335.89	813.56	330.32	483.24	1.684		
15,100.00	6,936.04	14,856.70	6,762.80	267.50	232.15	-77.65	-877.30	-7,435.75	808.75	319.67	489.08	1.654		
15,200.00	6,934.81	14,956.57	6,761.38	270.79	234.97	-77.56	-876.41	-7,535.62	803.95	309.04	494.91	1.624		
15,300.00	6,933.58	15,056.45	6,759.96	274.08	237.80	-77.47	-875.52	-7,635.48	799.14	298.41	500.73	1.596		
15,400.00	6,932.34	15,156.33	6,758.54	277.37	240.63	-77.38	-874.63	-7,735.34	794.34	287.79	506.55	1.568		
15,500.00	6,931.11	15,256.20	6,757.12	280.66	243.46	-77.29	-873.74	-7,835.20	789.54	277.17	512.37	1.541		
15,589.88	6,930.00	15,335.52	6,755.99	283.62	245.70	-77.21	-873.03	-7,914.51	785.30	267.80	517.50	1.517 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-174.32	-89.62	-8.91	90.06					
100.00	100.00	100.00	100.00	3.28	3.28	-174.32	-89.62	-8.91	90.06	83.49	6.57	13.710		
200.00	200.00	200.00	200.00	3.34	3.34	-174.32	-89.62	-8.91	90.06	83.39	6.67	13.495 CC, ES		
300.00	299.98	297.58	297.56	3.44	3.44	112.82	-91.01	-7.99	92.06	85.17	6.89	13.366		
400.00	399.84	394.91	394.76	3.60	3.58	113.62	-95.16	-5.26	98.04	90.84	7.21	13.604		
500.00	499.45	491.75	491.24	3.81	3.78	114.73	-102.02	-0.74	108.04	100.41	7.63	14.166		
600.00	598.70	587.87	586.68	4.08	4.01	115.95	-111.52	5.51	122.05	113.92	8.13	15.006		
700.00	697.47	683.03	680.75	4.40	4.27	117.12	-123.55	13.44	140.06	131.34	8.72	16.063		
774.77	770.92	753.44	750.01	4.68	4.49	117.90	-134.13	20.41	156.11	146.91	9.20	16.961		
800.00	795.65	777.20	773.30	4.78	4.57	118.22	-138.02	22.97	161.97	152.60	9.38	17.276		
900.00	893.64	874.36	868.52	5.20	4.91	119.24	-154.15	33.59	185.43	175.35	10.08	18.401		
1,000.00	991.63	971.52	963.75	5.66	5.27	120.04	-170.29	44.22	208.92	198.09	10.84	19.281		
1,100.00	1,089.63	1,068.69	1,058.97	6.15	5.65	120.67	-186.42	54.85	232.45	220.82	11.64	19.978		
1,200.00	1,187.62	1,165.85	1,154.19	6.65	6.05	121.19	-202.56	65.48	256.00	243.53	12.47	20.530		
1,300.00	1,285.62	1,263.02	1,249.42	7.17	6.47	121.62	-218.70	76.10	279.57	266.24	13.33	20.971		
1,400.00	1,383.61	1,360.18	1,344.64	7.71	6.89	121.98	-234.83	86.73	303.15	288.94	14.22	21.326		
1,500.00	1,481.60	1,457.34	1,439.86	8.25	7.32	122.29	-250.97	97.36	326.74	311.62	15.12	21.613		
1,600.00	1,579.60	1,554.51	1,535.09	8.80	7.76	122.56	-267.10	107.99	350.34	334.30	16.04	21.847		
1,700.00	1,677.59	1,651.67	1,630.31	9.36	8.21	122.79	-283.24	118.61	373.94	356.98	16.97	22.040		
1,800.00	1,775.59	1,748.83	1,725.53	9.92	8.66	123.00	-299.38	129.24	397.55	379.64	17.91	22.199		
1,900.00	1,873.58	1,846.00	1,820.76	10.49	9.11	123.18	-315.51	139.87	421.16	402.30	18.86	22.332		
2,000.00	1,971.57	1,943.16	1,915.98	11.06	9.57	123.35	-331.65	150.50	444.78	424.96	19.82	22.444		
2,100.00	2,069.57	2,040.33	2,011.20	11.64	10.03	123.50	-347.79	161.13	468.40	447.62	20.78	22.538		
2,200.00	2,167.56	2,137.49	2,106.43	12.22	10.50	123.63	-363.92	171.75	492.02	470.27	21.75	22.617		
2,300.00	2,265.56	2,234.65	2,201.65	12.80	10.97	123.75	-380.06	182.38	515.65	492.92	22.73	22.685		
2,400.00	2,363.55	2,331.82	2,296.87	13.38	11.43	123.86	-396.19	193.01	539.28	515.56	23.71	22.743		
2,500.00	2,461.54	2,428.98	2,392.10	13.97	11.91	123.96	-412.33	203.64	562.90	538.21	24.70	22.793		
2,600.00	2,559.54	2,526.14	2,487.32	14.55	12.38	124.05	-428.47	214.26	586.53	560.85	25.68	22.836		
2,700.00	2,657.53	2,623.31	2,582.54	15.14	12.85	124.14	-444.60	224.89	610.17	583.49	26.68	22.874		
2,800.00	2,755.53	2,720.47	2,677.77	15.73	13.33	124.22	-460.74	235.52	633.80	606.13	27.67	22.906		
2,900.00	2,853.52	2,817.63	2,772.99	16.32	13.81	124.29	-476.87	246.15	657.43	628.77	28.67	22.934		
3,000.00	2,951.52	2,914.80	2,868.21	16.91	14.28	124.36	-493.01	256.77	681.07	651.40	29.66	22.959		
3,100.00	3,049.51	3,011.96	2,963.44	17.51	14.76	124.43	-509.15	267.40	704.70	674.04	30.67	22.980		
3,200.00	3,147.50	3,109.13	3,058.66	18.10	15.24	124.49	-525.28	278.03	728.34	696.67	31.67	22.999		
3,300.00	3,245.50	3,206.29	3,153.88	18.70	15.72	124.54	-541.42	288.66	751.98	719.30	32.67	23.016		
3,400.00	3,343.49	3,303.45	3,249.10	19.29	16.21	124.60	-557.55	299.28	775.61	741.94	33.68	23.030		
3,500.00	3,441.49	3,400.62	3,344.33	19.89	16.69	124.65	-573.69	309.91	799.25	764.57	34.68	23.043		
3,600.00	3,539.48	3,502.22	3,439.55	20.48	17.19	124.69	-589.83	320.54	822.89	787.18	35.71	23.041		
3,700.00	3,637.47	3,605.06	3,534.77	21.08	17.70	124.74	-605.96	331.17	846.53	809.78	36.75	23.034		
3,800.00	3,735.47	3,707.89	3,630.00	21.68	18.22	124.78	-622.10	341.80	870.17	832.38	37.79	23.027		
3,900.00	3,833.46	3,789.27	3,725.22	22.27	18.62	124.82	-638.23	352.42	893.81	855.09	38.72	23.081		
4,000.00	3,931.46	3,886.44	3,820.44	22.87	19.11	124.86	-654.37	363.05	917.45	877.71	39.74	23.088		
4,100.00	4,029.45	3,983.60	3,915.67	23.47	19.59	124.89	-670.51	373.68	941.09	900.34	40.75	23.094		
4,200.00	4,127.44	4,080.76	4,010.89	24.07	20.08	124.92	-686.64	384.31	964.73	922.97	41.76	23.099		
4,300.00	4,225.44	4,177.93	4,106.11	24.67	20.56	124.96	-702.78	394.93	988.38	945.60	42.78	23.104		
4,400.00	4,323.43	4,275.09	4,201.34	25.27	21.05	124.99	-718.91	405.56	1,012.02	968.22	43.79	23.108		
4,507.81	4,429.08	4,379.84	4,304.00	25.92	21.57	125.02	-736.31	417.02	1,037.51	992.62	44.89	23.112		
4,600.00	4,519.70	4,469.61	4,391.97	26.45	22.02	125.33	-751.22	426.84	1,058.47	1,012.66	45.82	23.103		
4,700.00	4,618.56	4,567.34	4,487.75	26.98	22.51	125.48	-767.45	437.53	1,079.33	1,032.53	46.80	23.065		
4,800.00	4,717.88	4,665.34	4,583.79	27.46	23.01	125.46	-783.72	448.25	1,098.22	1,050.47	47.75	23.000		
4,900.00	4,817.54	4,763.47	4,679.96	27.89	23.50	125.27	-800.02	458.98	1,115.17	1,066.50	48.67	22.911		
5,000.00	4,917.43	4,861.62	4,776.16	28.28	23.99	124.92	-816.32	469.72	1,130.24	1,080.67	49.57	22.800		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,942.61	4,855.53	28.57	24.40	-162.34	-829.77	478.57	1,141.30	1,091.01	50.29	22.696		
5,100.00	5,017.42	4,959.68	4,872.26	28.62	24.48	-162.47	-832.61	480.44	1,143.51	1,093.07	50.43	22.673		
5,200.00	5,117.42	5,057.69	4,968.30	28.95	24.98	-163.23	-848.88	491.16	1,156.30	1,105.02	51.29	22.547		
5,300.00	5,217.42	5,155.69	5,064.35	29.28	25.47	-163.97	-865.16	501.88	1,169.30	1,117.16	52.13	22.428		
5,400.00	5,317.42	5,253.69	5,160.40	29.62	25.96	-164.69	-881.43	512.60	1,182.48	1,129.50	52.98	22.318		
5,500.00	5,417.42	5,351.70	5,256.44	29.96	26.46	-165.40	-897.71	523.32	1,195.85	1,142.02	53.83	22.215		
5,600.00	5,517.42	5,449.70	5,352.49	30.29	26.95	-166.09	-913.98	534.04	1,209.40	1,154.73	54.68	22.119		
5,700.00	5,617.42	5,547.70	5,448.53	30.64	27.44	-166.77	-930.26	544.76	1,223.13	1,167.60	55.52	22.029		
5,800.00	5,717.42	5,645.70	5,544.58	30.98	27.93	-167.43	-946.53	555.48	1,237.02	1,180.65	56.37	21.945		
5,900.00	5,817.42	5,743.71	5,640.62	31.33	28.43	-168.08	-962.81	566.20	1,251.07	1,193.86	57.21	21.867		
6,000.00	5,917.42	5,841.71	5,736.67	31.68	28.92	-168.71	-979.08	576.92	1,265.28	1,207.22	58.06	21.794		
6,100.00	6,017.42	5,939.71	5,832.72	32.03	29.42	-169.33	-995.36	587.64	1,279.64	1,220.74	58.90	21.725		
6,200.00	6,117.42	6,037.72	5,928.76	32.38	29.91	-169.94	-1,011.64	598.35	1,294.14	1,234.40	59.74	21.661		
6,300.00	6,217.42	6,135.72	6,024.81	32.74	30.40	-170.53	-1,027.91	609.07	1,308.79	1,248.21	60.59	21.602		
6,400.00	6,317.42	6,233.72	6,120.85	33.09	30.90	-171.11	-1,044.19	619.79	1,323.58	1,262.15	61.43	21.546		
6,476.01	6,393.43	6,308.21	6,193.86	33.37	31.27	-171.55	-1,056.56	627.94	1,334.90	1,272.83	62.07	21.506		
6,500.00	6,417.42	6,331.67	6,216.85	33.45	31.39	-79.05	-1,060.45	630.51	1,338.41	1,276.14	62.27	21.495		
6,550.00	6,467.25	6,380.12	6,264.33	33.59	31.64	-78.88	-1,068.50	635.81	1,345.22	1,282.57	62.65	21.472		
6,600.00	6,516.64	6,427.73	6,310.98	33.71	31.88	-78.90	-1,076.40	641.01	1,351.38	1,288.38	63.01	21.449		
6,650.00	6,565.26	6,474.19	6,356.52	33.80	32.11	-79.10	-1,084.12	646.10	1,356.99	1,293.65	63.34	21.426		
6,700.00	6,612.83	6,519.23	6,400.66	33.88	32.34	-79.45	-1,091.60	651.02	1,362.13	1,298.49	63.64	21.404		
6,750.00	6,659.04	6,554.68	6,435.48	33.94	32.51	-79.72	-1,097.53	654.00	1,367.06	1,303.22	63.84	21.415		
6,800.00	6,703.62	6,590.43	6,470.70	33.99	32.68	-80.01	-1,103.58	655.01	1,371.97	1,307.95	64.02	21.429		
6,850.00	6,746.28	6,626.92	6,506.63	34.03	32.84	-80.35	-1,109.81	653.98	1,376.87	1,312.66	64.22	21.441		
6,900.00	6,786.76	6,664.26	6,543.26	34.08	32.99	-80.72	-1,116.23	650.76	1,381.77	1,317.35	64.42	21.448		
6,950.00	6,824.83	6,702.58	6,580.59	34.13	33.13	-81.14	-1,122.83	645.19	1,386.68	1,322.02	64.66	21.447		
7,000.00	6,860.23	6,742.03	6,618.59	34.20	33.27	-81.59	-1,129.62	637.10	1,391.60	1,326.68	64.92	21.436		
7,050.00	6,892.75	6,782.79	6,657.25	34.30	33.40	-82.10	-1,136.61	626.23	1,396.53	1,331.30	65.23	21.410		
7,100.00	6,922.20	6,825.09	6,696.54	34.43	33.53	-82.64	-1,143.79	612.33	1,401.48	1,335.89	65.58	21.369		
7,150.00	6,948.38	6,869.18	6,736.41	34.60	33.66	-83.24	-1,151.17	595.05	1,406.43	1,340.44	66.00	21.311		
7,200.00	6,971.15	6,915.38	6,776.81	34.82	33.79	-83.89	-1,158.75	573.98	1,411.39	1,344.93	66.46	21.235		
7,250.00	6,990.35	6,964.05	6,817.61	35.09	33.92	-84.60	-1,166.52	548.62	1,416.33	1,349.34	66.99	21.142		
7,300.00	7,005.87	7,015.65	6,858.63	35.43	34.06	-85.38	-1,174.46	518.36	1,421.22	1,353.64	67.58	21.031		
7,350.00	7,017.62	7,070.73	6,899.57	35.81	34.20	-86.23	-1,182.56	482.45	1,426.01	1,357.78	68.23	20.901		
7,400.00	7,025.52	7,129.92	6,939.96	36.26	34.35	-87.16	-1,190.75	439.99	1,430.65	1,361.71	68.94	20.752		
7,450.00	7,029.52	7,194.00	6,979.07	36.75	34.53	-88.18	-1,198.93	389.94	1,435.05	1,365.32	69.73	20.580		
7,483.86	7,030.00	7,240.60	7,004.29	37.12	34.67	-88.92	-1,204.40	351.14	1,437.84	1,367.52	70.32	20.447		
7,500.00	7,029.80	7,263.99	7,015.88	37.30	34.74	-89.39	-1,206.97	330.99	1,439.10	1,368.48	70.62	20.377		
7,600.00	7,028.57	7,430.84	7,076.25	38.58	35.52	-91.86	-1,221.81	176.66	1,445.18	1,372.12	73.06	19.781		
7,700.00	7,027.34	7,612.50	7,094.76	40.10	37.05	-92.68	-1,230.15	-3.25	1,446.10	1,369.59	76.51	18.901		
7,800.00	7,026.10	7,712.49	7,092.66	41.83	38.22	-92.65	-1,232.65	-103.18	1,444.48	1,364.95	79.53	18.163		
7,900.00	7,024.87	7,812.47	7,090.55	43.74	39.59	-92.62	-1,235.14	-203.11	1,442.87	1,359.97	82.89	17.406		
8,000.00	7,023.63	7,912.45	7,088.44	45.82	41.14	-92.59	-1,237.64	-303.04	1,441.25	1,354.69	86.57	16.649		
8,100.00	7,022.40	8,012.44	7,086.33	48.04	42.83	-92.56	-1,240.13	-402.97	1,439.64	1,349.13	90.51	15.906		
8,200.00	7,021.17	8,112.42	7,084.22	50.38	44.65	-92.53	-1,242.63	-502.90	1,438.03	1,343.33	94.69	15.186		
8,300.00	7,019.93	8,212.40	7,082.12	52.82	46.58	-92.49	-1,245.12	-602.83	1,436.41	1,337.33	99.08	14.498		
8,400.00	7,018.70	8,312.39	7,080.01	55.35	48.59	-92.46	-1,247.62	-702.76	1,434.80	1,331.15	103.64	13.843		
8,500.00	7,017.47	8,412.37	7,077.90	57.97	50.70	-92.43	-1,250.11	-802.69	1,433.19	1,324.82	108.37	13.225		
8,600.00	7,016.23	8,512.36	7,075.79	60.65	52.87	-92.40	-1,252.61	-902.62	1,431.57	1,318.34	113.23	12.643		
8,700.00	7,015.00	8,612.34	7,073.68	63.39	55.10	-92.36	-1,255.10	-1,002.55	1,429.96	1,311.75	118.22	12.096		
8,800.00	7,013.76	8,712.32	7,071.58	66.19	57.39	-92.33	-1,257.60	-1,102.49	1,428.35	1,305.05	123.31	11.584		
8,900.00	7,012.53	8,812.31	7,069.47	69.03	59.73	-92.30	-1,260.09	-1,202.42	1,426.74	1,298.25	128.49	11.104		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	8,912.29	7,067.36	71.91	62.11	-92.27	-1,262.58	-1,302.35	1,425.13	1,291.37	133.76	10.655		
9,100.00	7,010.06	9,012.27	7,065.25	74.83	64.53	-92.23	-1,265.08	-1,402.28	1,423.52	1,284.42	139.10	10.234		
9,200.00	7,008.83	9,112.26	7,063.14	77.78	66.98	-92.20	-1,267.57	-1,502.21	1,421.91	1,277.41	144.51	9.840		
9,300.00	7,007.60	9,212.24	7,061.03	80.76	69.46	-92.17	-1,270.07	-1,602.14	1,420.30	1,270.33	149.97	9.471		
9,400.00	7,006.36	9,312.23	7,058.93	83.76	71.97	-92.14	-1,272.56	-1,702.07	1,418.69	1,263.21	155.49	9.124		
9,500.00	7,005.13	9,412.21	7,056.82	86.79	74.50	-92.10	-1,275.06	-1,802.00	1,417.09	1,256.04	161.05	8.799		
9,600.00	7,003.90	9,512.19	7,054.71	89.84	77.06	-92.07	-1,277.55	-1,901.93	1,415.48	1,248.82	166.66	8.493		
9,700.00	7,002.66	9,612.18	7,052.60	92.90	79.63	-92.04	-1,280.05	-2,001.86	1,413.87	1,241.57	172.30	8.206		
9,800.00	7,001.43	9,712.16	7,050.49	95.99	82.23	-92.00	-1,282.54	-2,101.79	1,412.27	1,234.28	177.98	7.935		
9,900.00	7,000.19	9,812.14	7,048.39	99.08	84.84	-91.97	-1,285.04	-2,201.72	1,410.66	1,226.97	183.69	7.679		
10,000.00	6,998.96	9,912.13	7,046.28	102.19	87.46	-91.94	-1,287.53	-2,301.65	1,409.05	1,219.62	189.43	7.438		
10,100.00	6,997.73	10,012.11	7,044.17	105.32	90.10	-91.90	-1,290.03	-2,401.58	1,407.45	1,212.25	195.20	7.210		
10,200.00	6,996.49	10,112.10	7,042.06	108.45	92.75	-91.87	-1,292.52	-2,501.51	1,405.84	1,204.86	200.99	6.995		
10,300.00	6,995.26	10,212.08	7,039.95	111.60	95.41	-91.84	-1,295.02	-2,601.44	1,404.24	1,197.44	206.80	6.790		
10,400.00	6,994.03	10,312.06	7,037.85	114.75	98.08	-91.80	-1,297.51	-2,701.37	1,402.64	1,190.01	212.63	6.597		
10,500.00	6,992.79	10,412.05	7,035.74	117.92	100.76	-91.77	-1,300.01	-2,801.30	1,401.03	1,182.56	218.48	6.413		
10,600.00	6,991.56	10,512.03	7,033.63	121.09	103.45	-91.73	-1,302.50	-2,901.23	1,399.43	1,175.09	224.34	6.238		
10,700.00	6,990.33	10,612.01	7,031.52	124.27	106.15	-91.70	-1,305.00	-3,001.16	1,397.83	1,167.60	230.22	6.072		
10,800.00	6,989.09	10,712.00	7,029.41	127.46	108.85	-91.67	-1,307.49	-3,101.09	1,396.23	1,160.11	236.12	5.913		
10,900.00	6,987.86	10,811.98	7,027.31	130.65	111.57	-91.63	-1,309.98	-3,201.02	1,394.63	1,152.60	242.03	5.762		
11,000.00	6,986.62	10,911.97	7,025.20	133.85	114.28	-91.60	-1,312.48	-3,300.95	1,393.03	1,145.07	247.95	5.618		
11,100.00	6,985.39	11,011.95	7,023.09	137.06	117.01	-91.56	-1,314.97	-3,400.88	1,391.43	1,137.54	253.89	5.480		
11,200.00	6,984.16	11,111.93	7,020.98	140.27	119.74	-91.53	-1,317.47	-3,500.81	1,389.83	1,129.99	259.83	5.349		
11,300.00	6,982.92	11,211.92	7,018.87	143.48	122.47	-91.50	-1,319.96	-3,600.74	1,388.23	1,122.44	265.79	5.223		
11,400.00	6,981.69	11,311.90	7,016.77	146.70	125.22	-91.46	-1,322.46	-3,700.68	1,386.63	1,114.88	271.75	5.103		
11,500.00	6,980.46	11,411.88	7,014.66	149.92	127.96	-91.43	-1,324.95	-3,800.61	1,385.03	1,107.30	277.73	4.987		
11,600.00	6,979.22	11,511.87	7,012.55	153.15	130.71	-91.39	-1,327.45	-3,900.54	1,383.43	1,099.73	283.71	4.876		
11,700.00	6,977.99	11,611.85	7,010.44	156.38	133.46	-91.36	-1,329.94	-4,000.47	1,381.84	1,092.14	289.70	4.770		
11,800.00	6,976.75	11,711.84	7,008.33	159.62	136.22	-91.32	-1,332.44	-4,100.40	1,380.24	1,084.55	295.69	4.668		
11,900.00	6,975.52	11,811.82	7,006.23	162.86	138.98	-91.29	-1,334.93	-4,200.33	1,378.64	1,076.95	301.70	4.570		
12,000.00	6,974.29	11,911.80	7,004.12	166.10	141.75	-91.25	-1,337.43	-4,300.26	1,377.05	1,069.34	307.71	4.475		
12,100.00	6,973.05	12,011.79	7,002.01	169.34	144.51	-91.22	-1,339.92	-4,400.19	1,375.45	1,061.73	313.72	4.384		
12,200.00	6,971.82	12,111.77	6,999.90	172.59	147.28	-91.18	-1,342.42	-4,500.12	1,373.86	1,054.11	319.75	4.297		
12,300.00	6,970.59	12,211.75	6,997.79	175.84	150.06	-91.15	-1,344.91	-4,600.05	1,372.26	1,046.49	325.77	4.212		
12,400.00	6,969.35	12,311.74	6,995.69	179.09	152.83	-91.11	-1,347.41	-4,699.98	1,370.67	1,038.86	331.80	4.131		
12,500.00	6,968.12	12,411.72	6,993.58	182.35	155.61	-91.08	-1,349.90	-4,799.91	1,369.08	1,031.23	337.84	4.052		
12,600.00	6,966.89	12,511.71	6,991.47	185.60	158.39	-91.04	-1,352.40	-4,899.84	1,367.48	1,023.60	343.88	3.977		
12,700.00	6,965.65	12,611.69	6,989.36	188.86	161.17	-91.01	-1,354.89	-4,999.77	1,365.89	1,015.96	349.93	3.903		
12,800.00	6,964.42	12,711.67	6,987.25	192.12	163.96	-90.97	-1,357.38	-5,099.70	1,364.30	1,008.32	355.98	3.833		
12,900.00	6,963.18	12,811.66	6,985.14	195.38	166.75	-90.93	-1,359.88	-5,199.63	1,362.71	1,000.68	362.03	3.764		
13,000.00	6,961.95	12,911.64	6,983.04	198.65	169.53	-90.90	-1,362.37	-5,299.56	1,361.12	993.03	368.09	3.698		
13,100.00	6,960.72	13,011.62	6,980.93	201.91	172.33	-90.86	-1,364.87	-5,399.49	1,359.53	985.38	374.15	3.634		
13,200.00	6,959.48	13,111.61	6,978.82	205.18	175.12	-90.83	-1,367.36	-5,499.42	1,357.94	977.72	380.22	3.571		
13,300.00	6,958.25	13,211.59	6,976.71	208.45	177.91	-90.79	-1,369.86	-5,599.35	1,356.35	970.07	386.29	3.511		
13,400.00	6,957.02	13,311.58	6,974.60	211.72	180.71	-90.76	-1,372.35	-5,699.28	1,354.76	962.41	392.36	3.453		
13,500.00	6,955.78	13,411.56	6,972.50	214.99	183.51	-90.72	-1,374.85	-5,799.21	1,353.17	954.74	398.43	3.396		
13,600.00	6,954.55	13,511.54	6,970.39	218.27	186.30	-90.68	-1,377.34	-5,899.14	1,351.59	947.08	404.51	3.341		
13,700.00	6,953.32	13,611.53	6,968.28	221.54	189.10	-90.65	-1,379.84	-5,999.07	1,350.00	939.42	410.59	3.288		
13,800.00	6,952.08	13,711.51	6,966.17	224.82	191.91	-90.61	-1,382.33	-6,099.00	1,348.41	931.75	416.67	3.236		
13,900.00	6,950.85	13,811.49	6,964.06	228.10	194.71	-90.57	-1,384.83	-6,198.93	1,346.83	924.08	422.75	3.186		
14,000.00	6,949.61	13,911.48	6,961.96	231.37	197.51	-90.54	-1,387.32	-6,298.87	1,345.24	916.41	428.84	3.137		
14,100.00	6,948.38	14,011.46	6,959.85	234.65	200.32	-90.50	-1,389.82	-6,398.80	1,343.66	908.74	434.92	3.089		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 0-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,200.00	6,947.15	14,111.45	6,957.74	237.93	203.12	-90.46	-1,392.31	-6,498.73	1,342.08	901.06	441.01	3.043		
14,300.00	6,945.91	14,211.43	6,955.63	241.22	205.93	-90.43	-1,394.81	-6,598.66	1,340.49	893.39	447.11	2.998		
14,400.00	6,944.68	14,311.41	6,953.52	244.50	208.74	-90.39	-1,397.30	-6,698.59	1,338.91	885.71	453.20	2.954		
14,500.00	6,943.45	14,411.40	6,951.42	247.78	211.55	-90.35	-1,399.80	-6,798.52	1,337.33	878.03	459.30	2.912		
14,600.00	6,942.21	14,511.38	6,949.31	251.07	214.36	-90.32	-1,402.29	-6,898.45	1,335.75	870.35	465.39	2.870		
14,700.00	6,940.98	14,611.36	6,947.20	254.35	217.17	-90.28	-1,404.78	-6,998.38	1,334.16	862.67	471.49	2.830		
14,800.00	6,939.74	14,711.35	6,945.09	257.64	219.98	-90.24	-1,407.28	-7,098.31	1,332.58	854.99	477.59	2.790		
14,900.00	6,938.51	14,811.33	6,942.98	260.92	222.80	-90.20	-1,409.77	-7,198.24	1,331.00	847.31	483.70	2.752		
15,000.00	6,937.28	14,911.32	6,940.88	264.21	225.61	-90.17	-1,412.27	-7,298.17	1,329.42	839.63	489.80	2.714		
15,100.00	6,936.04	15,011.30	6,938.77	267.50	228.43	-90.13	-1,414.76	-7,398.10	1,327.85	831.94	495.90	2.678		
15,200.00	6,934.81	15,111.28	6,936.66	270.79	231.24	-90.09	-1,417.26	-7,498.03	1,326.27	824.26	502.01	2.642		
15,300.00	6,933.58	15,211.27	6,934.55	274.08	234.06	-90.05	-1,419.75	-7,597.96	1,324.69	816.57	508.12	2.607		
15,400.00	6,932.34	15,311.25	6,932.44	277.37	236.87	-90.02	-1,422.25	-7,697.89	1,323.11	808.89	514.22	2.573		
15,500.00	6,931.11	15,411.23	6,930.34	280.66	239.69	-89.98	-1,424.74	-7,797.82	1,321.54	801.20	520.33	2.540		
15,589.88	6,930.00	15,501.10	6,928.44	283.62	242.22	-89.94	-1,426.99	-7,887.64	1,320.12	794.29	525.83	2.511 SF		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.00	10.00	3.28	3.28	-100.36	-807.98	-4,419.06	4,492.32					
100.00	100.00	110.00	110.00	3.28	3.89	-100.36	-807.98	-4,419.06	4,492.32	4,485.14	7.18	625.981		
200.00	200.00	210.00	210.00	3.34	6.48	-100.36	-807.98	-4,419.06	4,492.32	4,482.50	9.81	457.723		
300.00	299.98	309.98	309.98	3.44	9.65	-173.51	-807.98	-4,419.06	4,494.05	4,480.96	13.09	343.215		
400.00	399.84	409.84	409.84	3.60	12.98	-173.50	-807.98	-4,419.06	4,499.25	4,482.67	16.59	271.279		
500.00	499.45	509.45	509.45	3.81	16.37	-173.50	-807.98	-4,419.06	4,507.91	4,487.73	20.18	223.390		
600.00	598.70	608.70	608.70	4.08	19.78	-173.49	-807.98	-4,419.06	4,520.02	4,496.19	23.83	189.653		
700.00	697.47	707.47	707.47	4.40	23.19	-173.47	-807.98	-4,419.06	4,535.56	4,508.04	27.52	164.797		
774.77	770.92	780.92	780.92	4.68	25.73	-173.46	-807.98	-4,419.06	4,549.42	4,519.12	30.30	150.169		
800.00	795.65	805.65	805.65	4.78	26.58	-173.47	-807.98	-4,419.06	4,554.42	4,523.18	31.23	145.815		
900.00	893.64	903.64	903.64	5.20	29.98	-173.50	-807.98	-4,419.06	4,574.22	4,539.26	34.96	130.853		
1,000.00	991.63	1,001.63	1,001.63	5.66	33.38	-173.52	-807.98	-4,419.06	4,594.03	4,555.32	38.71	118.692		
1,100.00	1,089.63	1,100.37	1,099.63	6.15	36.81	-173.55	-807.98	-4,419.06	4,613.83	4,571.33	42.50	108.561		
1,200.00	1,187.62	1,202.38	1,197.62	6.65	40.36	-173.58	-807.98	-4,419.06	4,633.64	4,587.22	46.42	99.811		
1,300.00	1,285.62	1,304.38	1,295.62	7.17	43.91	-173.61	-807.98	-4,419.06	4,653.45	4,603.09	50.36	92.399		
1,400.00	1,383.61	1,406.39	1,393.61	7.71	47.47	-173.63	-807.98	-4,419.06	4,673.26	4,618.95	54.31	86.045		
1,500.00	1,481.60	1,508.40	1,491.60	8.25	51.02	-173.66	-807.98	-4,419.06	4,693.07	4,634.80	58.27	80.540		
1,600.00	1,579.60	1,589.60	1,589.60	8.80	53.85	-173.69	-807.98	-4,419.06	4,712.89	4,651.38	61.51	76.619		
1,700.00	1,677.59	1,687.59	1,687.59	9.36	57.26	-173.71	-807.98	-4,419.06	4,732.70	4,667.36	65.34	72.428		
1,800.00	1,775.59	1,785.59	1,785.59	9.92	60.68	-173.74	-807.98	-4,419.06	4,752.51	4,683.33	69.18	68.697		
1,900.00	1,873.58	1,883.58	1,883.58	10.49	64.09	-173.77	-807.98	-4,419.06	4,772.33	4,699.31	73.02	65.353		
2,000.00	1,971.57	1,981.57	1,981.57	11.06	67.51	-173.79	-807.98	-4,419.06	4,792.15	4,715.28	76.87	62.341		
2,100.00	2,069.57	2,079.57	2,079.57	11.64	70.93	-173.82	-807.98	-4,419.06	4,811.96	4,731.24	80.72	59.613		
2,200.00	2,167.56	2,177.56	2,177.56	12.22	74.35	-173.84	-807.98	-4,419.06	4,831.78	4,747.21	84.57	57.131		
2,300.00	2,265.56	2,275.56	2,275.56	12.80	77.76	-173.87	-807.98	-4,419.06	4,851.60	4,763.17	88.43	54.864		
2,400.00	2,363.55	2,373.55	2,373.55	13.38	81.18	-173.89	-807.98	-4,419.06	4,871.42	4,779.13	92.29	52.785		
2,500.00	2,461.54	2,471.54	2,471.54	13.97	84.60	-173.92	-807.98	-4,419.06	4,891.24	4,795.09	96.15	50.872		
2,600.00	2,559.54	2,569.54	2,569.54	14.55	88.02	-173.94	-807.98	-4,419.06	4,911.06	4,811.05	100.01	49.106		
2,700.00	2,657.53	2,667.53	2,667.53	15.14	91.44	-173.97	-807.98	-4,419.06	4,930.89	4,827.01	103.87	47.470		
2,800.00	2,755.53	2,765.53	2,765.53	15.73	94.86	-173.99	-807.98	-4,419.06	4,950.71	4,842.97	107.74	45.951		
2,900.00	2,853.52	2,863.52	2,863.52	16.32	98.27	-174.02	-807.98	-4,419.06	4,970.53	4,858.93	111.60	44.537		
3,000.00	2,951.52	2,961.52	2,961.52	16.91	101.69	-174.04	-807.98	-4,419.06	4,990.36	4,874.89	115.47	43.217		
3,100.00	3,049.51	3,059.51	3,059.51	17.51	105.11	-174.06	-807.98	-4,419.06	5,010.18	4,890.84	119.34	41.982		
3,200.00	3,147.50	3,157.50	3,157.50	18.10	108.53	-174.09	-807.98	-4,419.06	5,030.01	4,906.80	123.21	40.825		
3,300.00	3,245.50	3,255.50	3,255.50	18.70	111.95	-174.11	-807.98	-4,419.06	5,049.84	4,922.76	127.08	39.737		
3,400.00	3,343.49	3,353.49	3,353.49	19.29	115.37	-174.13	-807.98	-4,419.06	5,069.67	4,938.71	130.95	38.714		
3,500.00	3,441.49	3,451.49	3,451.49	19.89	118.79	-174.16	-807.98	-4,419.06	5,089.50	4,954.67	134.82	37.749		
3,600.00	3,539.48	3,549.48	3,549.48	20.48	122.21	-174.18	-807.98	-4,419.06	5,109.32	4,970.63	138.70	36.838		
3,700.00	3,637.47	3,647.47	3,647.47	21.08	125.63	-174.20	-807.98	-4,419.06	5,129.16	4,986.59	142.57	35.976		
3,800.00	3,735.47	3,745.47	3,745.47	21.68	129.05	-174.22	-807.98	-4,419.06	5,148.99	5,002.54	146.44	35.160		
3,900.00	3,833.46	3,843.46	3,843.46	22.27	132.47	-174.25	-807.98	-4,419.06	5,168.82	5,018.50	150.32	34.386		
4,000.00	3,931.46	3,941.46	3,941.46	22.87	135.89	-174.27	-807.98	-4,419.06	5,188.65	5,034.46	154.19	33.650		
4,100.00	4,029.45	4,039.45	4,039.45	23.47	139.31	-174.29	-807.98	-4,419.06	5,208.49	5,050.42	158.07	32.951		
4,200.00	4,127.44	4,137.44	4,137.44	24.07	142.73	-174.31	-807.98	-4,419.06	5,228.32	5,066.38	161.94	32.285		
4,300.00	4,225.44	4,235.44	4,235.44	24.67	146.15	-174.33	-807.98	-4,419.06	5,248.15	5,082.33	165.82	31.650		
4,400.00	4,323.43	4,333.43	4,333.43	25.27	149.57	-174.36	-807.98	-4,419.06	5,267.99	5,098.29	169.70	31.043		
4,507.81	4,429.08	4,439.08	4,439.08	25.92	153.26	-174.38	-807.98	-4,419.06	5,289.38	5,115.50	173.88	30.420		
4,600.00	4,519.70	4,529.70	4,529.70	26.45	156.42	-174.43	-807.98	-4,419.06	5,306.21	5,128.76	177.46	29.901		
4,700.00	4,618.56	4,628.56	4,628.56	26.98	159.87	-174.47	-807.98	-4,419.06	5,321.19	5,139.84	181.35	29.342		
4,800.00	4,717.88	4,727.88	4,727.88	27.46	163.34	-174.51	-807.98	-4,419.06	5,332.72	5,147.46	185.26	28.786		
4,900.00	4,817.54	4,827.54	4,827.54	27.89	166.82	-174.53	-807.98	-4,419.06	5,340.79	5,151.63	189.16	28.234		
5,000.00	4,917.43	4,927.43	4,927.43	28.28	170.30	-174.55	-807.98	-4,419.06	5,345.39	5,152.33	193.07	27.687		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,010.00	5,010.00	28.57	173.19	-101.40	-807.98	-4,419.06	5,346.58	5,150.30	196.28	27.240		
5,100.00	5,017.42	5,027.42	5,027.42	28.62	173.79	-101.40	-807.98	-4,419.06	5,346.58	5,149.62	196.95	27.146		
5,200.00	5,117.42	5,127.42	5,127.42	28.95	177.28	-101.40	-807.98	-4,419.06	5,346.58	5,145.74	200.84	26.622		
5,300.00	5,217.42	5,227.42	5,227.42	29.28	180.77	-101.40	-807.98	-4,419.06	5,346.58	5,141.86	204.72	26.117		
5,400.00	5,317.42	5,327.42	5,327.42	29.62	184.26	-101.40	-807.98	-4,419.06	5,346.58	5,137.97	208.61	25.630		
5,500.00	5,417.42	5,427.42	5,427.42	29.96	187.75	-101.40	-807.98	-4,419.06	5,346.58	5,134.09	212.49	25.161		
5,600.00	5,517.42	5,527.42	5,527.42	30.29	191.25	-101.40	-807.98	-4,419.06	5,346.58	5,130.20	216.38	24.709		
5,700.00	5,617.42	5,627.42	5,627.42	30.64	194.74	-101.40	-807.98	-4,419.06	5,346.58	5,126.31	220.27	24.273		
5,800.00	5,717.42	5,727.42	5,727.42	30.98	198.23	-101.40	-807.98	-4,419.06	5,346.58	5,122.42	224.16	23.852		
5,900.00	5,817.42	5,827.42	5,827.42	31.33	201.72	-101.40	-807.98	-4,419.06	5,346.58	5,118.53	228.05	23.444		
6,000.00	5,917.42	5,927.42	5,927.42	31.68	205.21	-101.40	-807.98	-4,419.06	5,346.58	5,114.63	231.95	23.051		
6,100.00	6,017.42	6,027.42	6,027.42	32.03	208.70	-101.40	-807.98	-4,419.06	5,346.58	5,110.74	235.84	22.670		
6,200.00	6,117.42	6,127.42	6,127.42	32.38	212.19	-101.40	-807.98	-4,419.06	5,346.58	5,106.84	239.74	22.302		
6,300.00	6,217.42	6,227.42	6,227.42	32.74	215.68	-101.40	-807.98	-4,419.06	5,346.58	5,102.95	243.63	21.945		
6,400.00	6,317.42	6,327.42	6,327.42	33.09	219.17	-101.40	-807.98	-4,419.06	5,346.58	5,099.05	247.53	21.600		
6,476.01	6,393.43	6,403.43	6,403.43	33.37	221.82	-101.40	-807.98	-4,419.06	5,346.58	5,096.09	250.49	21.344		
6,500.00	6,417.42	6,427.42	6,427.42	33.45	222.66	-9.08	-807.98	-4,419.06	5,346.13	5,094.71	251.42	21.263		
6,550.00	6,467.25	6,477.25	6,477.25	33.59	224.40	-9.14	-807.98	-4,419.06	5,342.34	5,088.99	253.35	21.087		
6,600.00	6,516.64	6,526.64	6,526.64	33.71	226.12	-9.26	-807.98	-4,419.06	5,334.69	5,079.45	255.24	20.901		
6,650.00	6,565.26	6,575.26	6,575.26	33.80	227.82	-9.45	-807.98	-4,419.06	5,323.25	5,066.15	257.10	20.705		
6,700.00	6,612.83	6,622.83	6,622.83	33.88	229.48	-9.72	-807.98	-4,419.06	5,308.07	5,049.17	258.90	20.502		
6,750.00	6,659.04	6,669.04	6,669.04	33.94	231.09	-10.07	-807.98	-4,419.06	5,289.26	5,028.61	260.65	20.293		
6,800.00	6,703.62	6,713.62	6,713.62	33.99	232.65	-10.51	-807.98	-4,419.06	5,266.92	5,004.60	262.32	20.078		
6,850.00	6,746.28	6,756.28	6,756.28	34.03	234.14	-11.07	-807.98	-4,419.06	5,241.21	4,977.30	263.91	19.860		
6,900.00	6,786.76	6,803.24	6,796.76	34.08	235.78	-11.77	-807.98	-4,419.06	5,212.28	4,946.63	265.64	19.621		
6,950.00	6,824.83	6,834.83	6,834.83	34.13	236.88	-12.64	-807.98	-4,419.06	5,180.30	4,913.48	266.82	19.415		
7,000.00	6,860.23	6,870.23	6,870.23	34.20	238.12	-13.72	-807.98	-4,419.06	5,145.48	4,877.36	268.12	19.191		
7,050.00	6,892.75	6,902.75	6,902.75	34.30	239.25	-15.09	-807.98	-4,419.06	5,108.04	4,838.73	269.31	18.967		
7,100.00	6,922.20	6,932.20	6,932.20	34.43	240.28	-16.85	-807.98	-4,419.06	5,068.21	4,797.82	270.39	18.744		
7,150.00	6,948.38	6,958.38	6,958.38	34.60	241.19	-19.14	-807.98	-4,419.06	5,026.22	4,754.89	271.34	18.524		
7,200.00	6,971.15	6,981.15	6,981.15	34.82	241.99	-22.22	-807.98	-4,419.06	4,982.36	4,710.19	272.16	18.306		
7,250.00	6,990.35	7,000.35	7,000.35	35.09	242.66	-26.49	-807.98	-4,419.06	4,936.88	4,664.01	272.86	18.093		
7,300.00	7,005.87	7,015.87	7,015.87	35.43	243.20	-32.66	-807.98	-4,419.06	4,890.06	4,616.63	273.43	17.884		
7,350.00	7,017.62	7,027.62	7,027.62	35.81	243.61	-41.95	-807.98	-4,419.06	4,842.21	4,568.34	273.87	17.681		
7,400.00	7,025.52	7,035.52	7,035.52	36.26	243.89	-56.30	-807.98	-4,419.06	4,793.61	4,519.44	274.17	17.484		
7,450.00	7,029.52	7,039.52	7,039.52	36.75	244.03	-77.25	-807.98	-4,419.06	4,744.57	4,470.22	274.35	17.294		
7,483.86	7,030.00	7,040.00	7,040.00	37.12	244.04	-93.88	-807.98	-4,419.06	4,711.26	4,436.86	274.39	17.170		
7,500.00	7,029.80	7,039.80	7,039.80	37.30	244.04	-93.87	-807.98	-4,419.06	4,695.38	4,420.98	274.40	17.111		
7,600.00	7,028.57	7,038.57	7,038.57	38.58	243.99	-93.79	-807.98	-4,419.06	4,597.05	4,322.59	274.45	16.750		
7,700.00	7,027.34	7,037.34	7,037.34	40.10	243.95	-93.70	-807.98	-4,419.06	4,498.79	4,224.26	274.53	16.387		
7,800.00	7,026.10	7,036.10	7,036.10	41.83	243.91	-93.62	-807.98	-4,419.06	4,400.60	4,125.98	274.62	16.024		
7,900.00	7,024.87	7,034.87	7,034.87	43.74	243.86	-93.53	-807.98	-4,419.06	4,302.51	4,027.76	274.74	15.660		
8,000.00	7,023.63	7,033.63	7,033.63	45.82	243.82	-93.45	-807.98	-4,419.06	4,204.50	3,929.61	274.89	15.295		
8,100.00	7,022.40	7,032.40	7,032.40	48.04	243.78	-93.37	-807.98	-4,419.06	4,106.58	3,831.51	275.07	14.929		
8,200.00	7,021.17	7,031.17	7,031.17	50.38	243.74	-93.28	-807.98	-4,419.06	4,008.77	3,733.49	275.28	14.563		
8,300.00	7,019.93	7,029.93	7,029.93	52.82	243.69	-93.20	-807.98	-4,419.06	3,911.07	3,635.55	275.52	14.195		
8,400.00	7,018.70	7,028.70	7,028.70	55.35	243.65	-93.12	-807.98	-4,419.06	3,813.48	3,537.68	275.81	13.827		
8,500.00	7,017.47	7,027.47	7,027.47	57.97	243.61	-93.03	-807.98	-4,419.06	3,716.03	3,439.89	276.14	13.457		
8,600.00	7,016.23	7,026.23	7,026.23	60.65	243.56	-92.95	-807.98	-4,419.06	3,618.71	3,342.20	276.51	13.087		
8,700.00	7,015.00	7,025.00	7,025.00	63.39	243.52	-92.87	-807.98	-4,419.06	3,521.55	3,244.60	276.95	12.716		
8,800.00	7,013.76	7,023.76	7,023.76	66.19	243.48	-92.78	-807.98	-4,419.06	3,424.54	3,147.11	277.44	12.343		
8,900.00	7,012.53	7,022.53	7,022.53	69.03	243.43	-92.70	-807.98	-4,419.06	3,327.72	3,049.72	278.00	11.970		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,021.30	7,021.30	71.91	243.39	-92.61	-807.98	-4,419.06	3,231.08	2,952.46	278.62	11.597		
9,100.00	7,010.06	7,020.06	7,020.06	74.83	243.35	-92.53	-807.98	-4,419.06	3,134.66	2,855.33	279.33	11.222		
9,200.00	7,008.83	7,018.83	7,018.83	77.78	243.30	-92.45	-807.98	-4,419.06	3,038.47	2,758.34	280.13	10.847		
9,300.00	7,007.60	7,017.60	7,017.60	80.76	243.26	-92.36	-807.98	-4,419.06	2,942.53	2,661.50	281.02	10.471		
9,400.00	7,006.36	7,016.36	7,016.36	83.76	243.22	-92.28	-807.98	-4,419.06	2,846.87	2,564.84	282.03	10.094		
9,500.00	7,005.13	7,015.13	7,015.13	86.79	243.18	-92.20	-807.98	-4,419.06	2,751.52	2,468.37	283.15	9.718		
9,600.00	7,003.90	7,013.90	7,013.90	89.84	243.13	-92.11	-807.98	-4,419.06	2,656.51	2,372.11	284.40	9.341		
9,700.00	7,002.66	7,012.66	7,012.66	92.90	243.09	-92.03	-807.98	-4,419.06	2,561.87	2,276.08	285.79	8.964		
9,800.00	7,001.43	7,011.43	7,011.43	95.99	243.05	-91.94	-807.98	-4,419.06	2,467.66	2,180.31	287.35	8.588		
9,900.00	7,000.19	7,010.19	7,010.19	99.08	243.00	-91.86	-807.98	-4,419.06	2,373.93	2,084.84	289.09	8.212		
10,000.00	6,998.96	7,008.96	7,008.96	102.19	242.96	-91.78	-807.98	-4,419.06	2,280.73	1,989.70	291.02	7.837		
10,100.00	6,997.73	7,007.73	7,007.73	105.32	242.92	-91.69	-807.98	-4,419.06	2,188.12	1,894.95	293.17	7.464		
10,200.00	6,996.49	7,006.49	7,006.49	108.45	242.87	-91.61	-807.98	-4,419.06	2,096.20	1,800.62	295.57	7.092		
10,300.00	6,995.26	7,005.26	7,005.26	111.60	242.83	-91.53	-807.98	-4,419.06	2,005.04	1,706.80	298.24	6.723		
10,400.00	6,994.03	7,004.03	7,004.03	114.75	242.79	-91.44	-807.98	-4,419.06	1,914.77	1,613.55	301.22	6.357		
10,500.00	6,992.79	7,002.79	7,002.79	117.92	242.74	-91.36	-807.98	-4,419.06	1,825.51	1,520.99	304.53	5.995		
10,600.00	6,991.56	7,001.56	7,001.56	121.09	242.70	-91.27	-807.98	-4,419.06	1,737.43	1,429.21	308.22	5.637		
10,700.00	6,990.33	7,000.33	7,000.33	124.27	242.66	-91.19	-807.98	-4,419.06	1,650.70	1,338.37	312.32	5.285		
10,800.00	6,989.09	7,000.91	6,999.09	127.46	242.68	-91.11	-807.98	-4,419.06	1,565.55	1,248.59	316.96	4.939		
10,900.00	6,987.86	7,002.14	6,997.86	130.65	242.72	-91.02	-807.98	-4,419.06	1,482.25	1,160.12	322.13	4.601		
11,000.00	6,986.62	7,003.38	6,996.62	133.85	242.77	-90.94	-807.98	-4,419.06	1,401.15	1,073.28	327.87	4.274		
11,100.00	6,985.39	7,004.61	6,995.39	137.06	242.81	-90.86	-807.98	-4,419.06	1,322.63	988.42	334.21	3.958		
11,200.00	6,984.16	7,005.84	6,994.16	140.27	242.85	-90.77	-807.98	-4,419.06	1,247.19	906.00	341.19	3.655		
11,300.00	6,982.92	7,007.08	6,992.92	143.48	242.89	-90.69	-807.98	-4,419.06	1,175.42	826.60	348.82	3.370		
11,400.00	6,981.69	7,008.31	6,991.69	146.70	242.94	-90.60	-807.98	-4,419.06	1,108.03	750.95	357.08	3.103		
11,500.00	6,980.46	7,009.54	6,990.46	149.92	242.98	-90.52	-807.98	-4,419.06	1,045.88	680.00	365.88	2.859		
11,600.00	6,979.22	6,989.22	6,989.22	153.15	242.27	-90.44	-807.98	-4,419.06	989.94	615.65	374.29	2.645		
11,700.00	6,977.99	6,987.99	6,987.99	156.38	242.23	-90.35	-807.98	-4,419.06	941.32	557.88	383.45	2.455		
11,800.00	6,976.75	6,986.75	6,986.75	159.62	242.18	-90.27	-807.98	-4,419.06	901.22	508.95	392.27	2.297		
11,900.00	6,975.52	6,985.52	6,985.52	162.86	242.14	-90.18	-807.98	-4,419.06	870.81	470.57	400.24	2.176		
12,000.00	6,974.29	6,984.29	6,984.29	166.10	242.10	-90.10	-807.98	-4,419.06	851.13	444.35	406.78	2.092		
12,100.00	6,973.05	6,983.05	6,983.05	169.34	242.06	-90.02	-807.98	-4,419.06	842.93	431.55	411.38	2.049		
12,119.49	6,972.81	6,982.81	6,982.81	169.98	242.05	-90.00	-807.98	-4,419.06	842.70	430.68	412.02	2.045 CC, ES, SF		
12,200.00	6,971.82	6,981.82	6,981.82	172.59	242.01	-89.93	-807.98	-4,419.06	846.54	432.81	413.73	2.046		
12,300.00	6,970.59	6,980.59	6,980.59	175.84	241.97	-89.85	-807.98	-4,419.06	861.81	448.04	413.78	2.083		
12,400.00	6,969.35	6,979.35	6,979.35	179.09	241.93	-89.76	-807.98	-4,419.06	888.15	476.39	411.76	2.157		
12,500.00	6,968.12	6,978.12	6,978.12	182.35	241.88	-89.68	-807.98	-4,419.06	924.61	516.53	408.08	2.266		
12,600.00	6,966.89	6,976.89	6,976.89	185.60	241.84	-89.60	-807.98	-4,419.06	970.05	566.81	403.24	2.406		
12,700.00	6,965.65	6,975.65	6,975.65	188.86	241.80	-89.51	-807.98	-4,419.06	1,023.27	625.59	397.68	2.573		
12,800.00	6,964.42	6,974.42	6,974.42	192.12	241.75	-89.43	-807.98	-4,419.06	1,083.13	691.33	391.80	2.764		
12,900.00	6,963.18	6,973.18	6,973.18	195.38	241.71	-89.35	-807.98	-4,419.06	1,148.58	762.71	385.87	2.977		
13,000.00	6,961.95	6,971.95	6,971.95	198.65	241.67	-89.26	-807.98	-4,419.06	1,218.74	838.65	380.08	3.207		
13,100.00	6,960.72	6,970.72	6,970.72	201.91	241.62	-89.18	-807.98	-4,419.06	1,292.82	918.27	374.55	3.452		
13,200.00	6,959.48	6,969.48	6,969.48	205.18	241.58	-89.09	-807.98	-4,419.06	1,370.21	1,000.86	369.34	3.710		
13,300.00	6,958.25	6,968.25	6,968.25	208.45	241.54	-89.01	-807.98	-4,419.06	1,450.35	1,085.87	364.48	3.979		
13,400.00	6,957.02	6,967.02	6,967.02	211.72	241.50	-88.93	-807.98	-4,419.06	1,532.84	1,172.87	359.97	4.258		
13,500.00	6,955.78	6,965.78	6,965.78	214.99	241.45	-88.84	-807.98	-4,419.06	1,617.30	1,261.49	355.81	4.545		
13,600.00	6,954.55	6,964.55	6,964.55	218.27	241.41	-88.76	-807.98	-4,419.06	1,703.44	1,351.48	351.96	4.840		
13,700.00	6,953.32	6,963.32	6,963.32	221.54	241.37	-88.67	-807.98	-4,419.06	1,791.02	1,442.60	348.42	5.140		
13,800.00	6,952.08	6,962.08	6,962.08	224.82	241.32	-88.59	-807.98	-4,419.06	1,879.85	1,534.68	345.16	5.446		
13,900.00	6,950.85	6,960.85	6,960.85	228.10	241.28	-88.51	-807.98	-4,419.06	1,969.74	1,627.58	342.16	5.757		
14,000.00	6,949.61	6,959.61	6,959.61	231.37	241.24	-88.42	-807.98	-4,419.06	2,060.56	1,721.18	339.38	6.072		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER #1 - OH - OH												Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,100.00	6,948.38	6,958.38	6,958.38	234.65	241.19	-88.34	-807.98	-4,419.06	2,152.20	1,815.38	336.82	6.390	
14,200.00	6,947.15	6,957.15	6,957.15	237.93	241.15	-88.26	-807.98	-4,419.06	2,244.55	1,910.11	334.44	6.711	
14,300.00	6,945.91	6,955.91	6,955.91	241.22	241.11	-88.17	-807.98	-4,419.06	2,337.53	2,005.28	332.24	7.036	
14,400.00	6,944.68	6,954.68	6,954.68	244.50	241.07	-88.09	-807.98	-4,419.06	2,431.06	2,100.86	330.20	7.362	
14,500.00	6,943.45	6,953.45	6,953.45	247.78	241.02	-88.00	-807.98	-4,419.06	2,525.09	2,196.79	328.31	7.691	
14,600.00	6,942.21	6,952.21	6,952.21	251.07	240.98	-87.92	-807.98	-4,419.06	2,619.57	2,293.03	326.54	8.022	
14,700.00	6,940.98	6,950.98	6,950.98	254.35	240.94	-87.84	-807.98	-4,419.06	2,714.43	2,389.54	324.89	8.355	
14,800.00	6,939.74	6,949.74	6,949.74	257.64	240.89	-87.75	-807.98	-4,419.06	2,809.66	2,486.30	323.35	8.689	
14,900.00	6,938.51	6,948.51	6,948.51	260.92	240.85	-87.67	-807.98	-4,419.06	2,905.20	2,583.29	321.91	9.025	
15,000.00	6,937.28	6,947.28	6,947.28	264.21	240.81	-87.59	-807.98	-4,419.06	3,001.03	2,680.47	320.57	9.362	
15,100.00	6,936.04	6,946.04	6,946.04	267.50	240.76	-87.50	-807.98	-4,419.06	3,097.13	2,777.83	319.30	9.700	
15,200.00	6,934.81	6,944.81	6,944.81	270.79	240.72	-87.42	-807.98	-4,419.06	3,193.47	2,875.35	318.11	10.039	
15,300.00	6,933.58	6,943.58	6,943.58	274.08	240.68	-87.33	-807.98	-4,419.06	3,290.02	2,973.03	316.99	10.379	
15,400.00	6,932.34	6,942.34	6,942.34	277.37	240.63	-87.25	-807.98	-4,419.06	3,386.77	3,070.83	315.94	10.720	
15,500.00	6,931.11	6,941.11	6,941.11	280.66	240.59	-87.17	-807.98	-4,419.06	3,483.71	3,168.76	314.95	11.061	
15,589.88	6,930.00	6,940.00	6,940.00	283.62	240.55	-87.09	-807.98	-4,419.06	3,570.98	3,256.88	314.10	11.369	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	0.00	-85.04	368.68	-4,249.04	4,265.14					
100.00	100.00	66.00	66.00	3.28	1.15	-85.04	368.68	-4,249.04	4,265.01	4,260.57	4.44	961.278		
200.00	200.00	166.00	166.00	3.34	4.05	-85.04	368.68	-4,249.04	4,265.01	4,257.62	7.39	577.398		
300.00	299.98	265.98	265.98	3.44	7.54	-158.19	368.68	-4,249.04	4,266.63	4,255.64	10.98	388.463		
400.00	399.84	365.84	365.84	3.60	11.03	-158.18	368.68	-4,249.04	4,271.49	4,256.86	14.63	292.013		
500.00	499.45	465.45	465.45	3.81	14.50	-158.16	368.68	-4,249.04	4,279.58	4,261.27	18.31	233.714		
600.00	598.70	564.70	564.70	4.08	17.97	-158.13	368.68	-4,249.04	4,290.90	4,268.88	22.02	194.828		
700.00	697.47	663.47	663.47	4.40	21.42	-158.10	368.68	-4,249.04	4,305.44	4,279.69	25.76	167.154		
774.77	770.92	736.92	736.92	4.68	23.98	-158.07	368.68	-4,249.04	4,318.41	4,289.85	28.56	151.214		
800.00	795.65	761.65	761.65	4.78	24.84	-158.10	368.68	-4,249.04	4,323.09	4,293.58	29.51	146.517		
900.00	893.64	859.64	859.64	5.20	28.26	-158.20	368.68	-4,249.04	4,341.64	4,308.37	33.26	130.526		
1,000.00	991.63	957.63	957.63	5.66	31.69	-158.29	368.68	-4,249.04	4,360.20	4,323.16	37.04	117.711		
1,100.00	1,089.63	1,055.63	1,055.63	6.15	35.11	-158.39	368.68	-4,249.04	4,378.77	4,337.93	40.84	107.223		
1,200.00	1,187.62	1,153.62	1,153.62	6.65	38.53	-158.48	368.68	-4,249.04	4,397.35	4,352.70	44.65	98.487		
1,300.00	1,285.62	1,251.62	1,251.62	7.17	41.95	-158.58	368.68	-4,249.04	4,415.95	4,367.48	48.47	91.103		
1,400.00	1,383.61	1,349.61	1,349.61	7.71	45.37	-158.67	368.68	-4,249.04	4,434.56	4,382.25	52.30	84.784		
1,500.00	1,481.60	1,447.60	1,447.60	8.25	48.79	-158.77	368.68	-4,249.04	4,453.17	4,397.03	56.14	79.316		
1,600.00	1,579.60	1,545.60	1,545.60	8.80	52.21	-158.86	368.68	-4,249.04	4,471.80	4,411.81	59.99	74.540		
1,700.00	1,677.59	1,643.59	1,643.59	9.36	55.63	-158.95	368.68	-4,249.04	4,490.45	4,426.60	63.84	70.334		
1,800.00	1,775.59	1,741.59	1,741.59	9.92	59.05	-159.04	368.68	-4,249.04	4,509.10	4,441.40	67.70	66.602		
1,900.00	1,873.58	1,839.58	1,839.58	10.49	62.47	-159.13	368.68	-4,249.04	4,527.76	4,456.20	71.56	63.269		
2,000.00	1,971.57	1,937.57	1,937.57	11.06	65.90	-159.22	368.68	-4,249.04	4,546.44	4,471.01	75.43	60.275		
2,100.00	2,069.57	2,035.57	2,035.57	11.64	69.32	-159.31	368.68	-4,249.04	4,565.12	4,485.82	79.30	57.571		
2,200.00	2,167.56	2,133.56	2,133.56	12.22	72.74	-159.40	368.68	-4,249.04	4,583.81	4,500.65	83.17	55.116		
2,300.00	2,265.56	2,231.56	2,231.56	12.80	76.16	-159.48	368.68	-4,249.04	4,602.52	4,515.48	87.04	52.879		
2,400.00	2,363.55	2,329.55	2,329.55	13.38	79.58	-159.57	368.68	-4,249.04	4,621.24	4,530.32	90.91	50.832		
2,500.00	2,461.54	2,427.54	2,427.54	13.97	83.00	-159.65	368.68	-4,249.04	4,639.96	4,545.17	94.79	48.951		
2,600.00	2,559.54	2,525.54	2,525.54	14.55	86.42	-159.74	368.68	-4,249.04	4,658.70	4,560.03	98.67	47.217		
2,700.00	2,657.53	2,623.53	2,623.53	15.14	89.84	-159.82	368.68	-4,249.04	4,677.44	4,574.90	102.54	45.614		
2,800.00	2,755.53	2,721.53	2,721.53	15.73	93.26	-159.91	368.68	-4,249.04	4,696.20	4,589.77	106.42	44.127		
2,900.00	2,853.52	2,819.52	2,819.52	16.32	96.68	-159.99	368.68	-4,249.04	4,714.96	4,604.66	110.30	42.745		
3,000.00	2,951.52	2,917.52	2,917.52	16.91	100.11	-160.07	368.68	-4,249.04	4,733.74	4,619.55	114.19	41.457		
3,100.00	3,049.51	3,015.51	3,015.51	17.51	103.53	-160.15	368.68	-4,249.04	4,752.52	4,634.45	118.07	40.253		
3,200.00	3,147.50	3,113.50	3,113.50	18.10	106.95	-160.24	368.68	-4,249.04	4,771.31	4,649.36	121.95	39.125		
3,300.00	3,245.50	3,211.50	3,211.50	18.70	110.37	-160.32	368.68	-4,249.04	4,790.12	4,664.28	125.83	38.067		
3,400.00	3,343.49	3,309.49	3,309.49	19.29	113.79	-160.40	368.68	-4,249.04	4,808.93	4,679.21	129.72	37.072		
3,500.00	3,441.49	3,407.49	3,407.49	19.89	117.21	-160.47	368.68	-4,249.04	4,827.75	4,694.15	133.60	36.135		
3,600.00	3,539.48	3,505.48	3,505.48	20.48	120.63	-160.55	368.68	-4,249.04	4,846.58	4,709.09	137.49	35.251		
3,700.00	3,637.47	3,603.47	3,603.47	21.08	124.05	-160.63	368.68	-4,249.04	4,865.41	4,724.04	141.37	34.416		
3,800.00	3,735.47	3,701.47	3,701.47	21.68	127.47	-160.71	368.68	-4,249.04	4,884.26	4,739.00	145.26	33.625		
3,900.00	3,833.46	3,800.46	3,800.46	22.27	130.93	-160.79	368.68	-4,249.04	4,903.12	4,753.94	149.18	32.867		
4,000.00	3,931.46	3,902.46	3,902.46	22.87	134.49	-160.86	368.68	-4,249.04	4,921.98	4,768.77	153.21	32.127		
4,100.00	4,029.45	4,004.45	4,004.45	23.47	138.05	-160.94	368.68	-4,249.04	4,940.85	4,783.62	157.23	31.424		
4,200.00	4,127.44	4,106.44	4,106.44	24.07	141.61	-161.01	368.68	-4,249.04	4,959.73	4,798.47	161.26	30.756		
4,300.00	4,225.44	4,208.44	4,208.44	24.67	145.18	-161.09	368.68	-4,249.04	4,978.62	4,813.33	165.28	30.121		
4,400.00	4,323.43	4,289.43	4,289.43	25.27	148.00	-161.16	368.68	-4,249.04	4,997.52	4,828.94	169.31	29.646		
4,507.81	4,429.08	4,404.92	4,395.08	25.92	152.03	-161.24	368.68	-4,249.04	5,017.90	4,844.79	173.11	28.987		
4,600.00	4,519.70	4,485.70	4,485.70	26.45	154.85	-161.41	368.68	-4,249.04	5,033.95	4,857.60	176.35	28.505		
4,700.00	4,618.56	4,584.56	4,584.56	26.98	158.30	-161.55	368.68	-4,249.04	5,048.23	4,867.98	180.25	28.047		
4,800.00	4,717.88	4,683.88	4,683.88	27.46	161.77	-161.66	368.68	-4,249.04	5,059.23	4,875.07	184.16	27.473		
4,900.00	4,817.54	4,783.54	4,783.54	27.89	165.25	-161.74	368.68	-4,249.04	5,066.93	4,878.87	188.06	26.943		
5,000.00	4,917.43	4,883.43	4,883.43	28.28	168.74	-161.78	368.68	-4,249.04	5,071.32	4,879.37	191.96	26.419		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,966.00	4,966.00	28.57	171.62	-88.65	368.68	-4,249.04	5,072.45	4,877.29	195.17	25.990		
5,100.00	5,017.42	4,983.42	4,983.42	28.62	172.23	-88.65	368.68	-4,249.04	5,072.45	4,876.61	195.84	25.901		
5,200.00	5,117.42	5,083.42	5,083.42	28.95	175.72	-88.65	368.68	-4,249.04	5,072.45	4,872.74	199.72	25.398		
5,300.00	5,217.42	5,183.42	5,183.42	29.28	179.21	-88.65	368.68	-4,249.04	5,072.45	4,868.86	203.59	24.915		
5,400.00	5,317.42	5,283.42	5,283.42	29.62	182.70	-88.65	368.68	-4,249.04	5,072.45	4,864.98	207.47	24.449		
5,500.00	5,417.42	5,383.42	5,383.42	29.96	186.19	-88.65	368.68	-4,249.04	5,072.45	4,861.10	211.35	24.000		
5,600.00	5,517.42	5,483.42	5,483.42	30.29	189.68	-88.65	368.68	-4,249.04	5,072.45	4,857.22	215.23	23.567		
5,700.00	5,617.42	5,583.42	5,583.42	30.64	193.17	-88.65	368.68	-4,249.04	5,072.45	4,853.34	219.12	23.149		
5,800.00	5,717.42	5,683.42	5,683.42	30.98	196.66	-88.65	368.68	-4,249.04	5,072.45	4,849.45	223.00	22.746		
5,900.00	5,817.42	5,783.42	5,783.42	31.33	200.15	-88.65	368.68	-4,249.04	5,072.45	4,845.56	226.89	22.356		
6,000.00	5,917.42	5,883.42	5,883.42	31.68	203.65	-88.65	368.68	-4,249.04	5,072.45	4,841.68	230.78	21.980		
6,100.00	6,017.42	5,983.42	5,983.42	32.03	207.14	-88.65	368.68	-4,249.04	5,072.45	4,837.79	234.67	21.616		
6,200.00	6,117.42	6,083.42	6,083.42	32.38	210.63	-88.65	368.68	-4,249.04	5,072.45	4,833.90	238.56	21.263		
6,300.00	6,217.42	6,183.42	6,183.42	32.74	214.12	-88.65	368.68	-4,249.04	5,072.45	4,830.01	242.45	20.922		
6,400.00	6,317.42	6,283.42	6,283.42	33.09	217.61	-88.65	368.68	-4,249.04	5,072.45	4,826.11	246.34	20.591		
6,476.01	6,393.43	6,359.43	6,359.43	33.37	220.26	-88.65	368.68	-4,249.04	5,072.45	4,823.15	249.30	20.347		
6,500.00	6,417.42	6,383.42	6,383.42	33.45	221.10	3.69	368.68	-4,249.04	5,072.00	4,821.77	250.23	20.269		
6,550.00	6,467.25	6,433.25	6,433.25	33.59	222.84	3.71	368.68	-4,249.04	5,068.17	4,816.02	252.15	20.100		
6,600.00	6,516.64	6,482.64	6,482.64	33.71	224.56	3.77	368.68	-4,249.04	5,060.44	4,806.40	254.04	19.920		
6,650.00	6,565.26	6,531.26	6,531.26	33.80	226.26	3.85	368.68	-4,249.04	5,048.87	4,792.98	255.90	19.730		
6,700.00	6,612.83	6,578.83	6,578.83	33.88	227.92	3.96	368.68	-4,249.04	5,033.54	4,775.84	257.70	19.533		
6,750.00	6,659.04	6,625.04	6,625.04	33.94	229.54	4.10	368.68	-4,249.04	5,014.52	4,755.08	259.44	19.328		
6,800.00	6,703.62	6,669.62	6,669.62	33.99	231.09	4.29	368.68	-4,249.04	4,991.94	4,730.84	261.10	19.119		
6,850.00	6,746.28	6,712.28	6,712.28	34.03	232.58	4.52	368.68	-4,249.04	4,965.95	4,703.26	262.69	18.904		
6,900.00	6,786.76	6,752.76	6,752.76	34.08	233.99	4.81	368.68	-4,249.04	4,936.70	4,672.51	264.19	18.686		
6,950.00	6,824.83	6,809.17	6,790.83	34.13	235.96	5.18	368.68	-4,249.04	4,904.36	4,638.14	266.22	18.422		
7,000.00	6,860.23	6,826.23	6,826.23	34.20	236.56	5.64	368.68	-4,249.04	4,869.15	4,602.28	266.87	18.245		
7,050.00	6,892.75	6,858.75	6,858.75	34.30	237.69	6.22	368.68	-4,249.04	4,831.28	4,563.23	268.05	18.024		
7,100.00	6,922.20	6,888.20	6,888.20	34.43	238.72	6.98	368.68	-4,249.04	4,790.98	4,521.87	269.11	17.803		
7,150.00	6,948.38	6,914.38	6,914.38	34.60	239.64	8.00	368.68	-4,249.04	4,748.50	4,478.45	270.05	17.584		
7,200.00	6,971.15	6,937.15	6,937.15	34.82	240.43	9.39	368.68	-4,249.04	4,704.10	4,433.25	270.85	17.368		
7,250.00	6,990.35	6,956.35	6,956.35	35.09	241.10	11.41	368.68	-4,249.04	4,658.06	4,386.53	271.53	17.155		
7,300.00	7,005.87	6,971.87	6,971.87	35.43	241.64	14.56	368.68	-4,249.04	4,610.66	4,338.59	272.07	16.946		
7,350.00	7,017.62	6,983.62	6,983.62	35.81	242.05	20.02	368.68	-4,249.04	4,562.20	4,289.72	272.48	16.743		
7,400.00	7,025.52	7,008.48	6,991.52	36.26	242.92	31.31	368.68	-4,249.04	4,512.97	4,239.62	273.35	16.510		
7,450.00	7,029.52	7,004.48	6,995.52	36.75	242.78	60.86	368.68	-4,249.04	4,463.27	4,190.07	273.20	16.337		
7,483.86	7,030.00	7,004.00	6,996.00	37.12	242.76	99.49	368.68	-4,249.04	4,429.51	4,156.32	273.19	16.214		
7,500.00	7,029.80	7,004.20	6,995.80	37.30	242.77	99.45	368.68	-4,249.04	4,413.42	4,140.22	273.20	16.155		
7,600.00	7,028.57	7,005.43	6,994.57	38.58	242.81	99.24	368.68	-4,249.04	4,313.70	4,040.46	273.24	15.787		
7,700.00	7,027.34	7,006.67	6,993.34	40.10	242.86	99.03	368.68	-4,249.04	4,214.00	3,940.71	273.30	15.419		
7,800.00	7,026.10	7,007.90	6,992.10	41.83	242.90	98.82	368.68	-4,249.04	4,114.32	3,840.96	273.35	15.051		
7,900.00	7,024.87	7,009.13	6,990.87	43.74	242.94	98.61	368.68	-4,249.04	4,014.65	3,741.23	273.41	14.683		
8,000.00	7,023.63	6,989.63	6,989.63	45.82	242.26	98.40	368.68	-4,249.04	3,914.99	3,642.24	272.76	14.353		
8,100.00	7,022.40	6,988.40	6,988.40	48.04	242.22	98.18	368.68	-4,249.04	3,815.36	3,542.62	272.74	13.989		
8,200.00	7,021.17	6,987.17	6,987.17	50.38	242.18	97.97	368.68	-4,249.04	3,715.74	3,443.01	272.74	13.624		
8,300.00	7,019.93	6,985.93	6,985.93	52.82	242.13	97.76	368.68	-4,249.04	3,616.15	3,343.41	272.73	13.259		
8,400.00	7,018.70	6,984.70	6,984.70	55.35	242.09	97.55	368.68	-4,249.04	3,516.57	3,243.83	272.74	12.893		
8,500.00	7,017.47	6,983.47	6,983.47	57.97	242.05	97.33	368.68	-4,249.04	3,417.02	3,144.26	272.76	12.528		
8,600.00	7,016.23	6,982.23	6,982.23	60.65	242.00	97.12	368.68	-4,249.04	3,317.50	3,044.71	272.79	12.162		
8,700.00	7,015.00	6,981.00	6,981.00	63.39	241.96	96.91	368.68	-4,249.04	3,218.01	2,945.18	272.83	11.795		
8,800.00	7,013.76	6,979.76	6,979.76	66.19	241.92	96.69	368.68	-4,249.04	3,118.55	2,845.67	272.88	11.428		
8,900.00	7,012.53	6,978.53	6,978.53	69.03	241.88	96.48	368.68	-4,249.04	3,019.12	2,746.17	272.95	11.061		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	6,977.30	6,977.30	71.91	241.83	96.26	368.68	-4,249.04	2,919.73	2,646.70	273.03	10.694		
9,100.00	7,010.06	6,976.06	6,976.06	74.83	241.79	96.05	368.68	-4,249.04	2,820.39	2,547.25	273.14	10.326		
9,200.00	7,008.83	6,974.83	6,974.83	77.78	241.75	95.84	368.68	-4,249.04	2,721.09	2,447.82	273.27	9.958		
9,300.00	7,007.60	6,973.60	6,973.60	80.76	241.70	95.62	368.68	-4,249.04	2,621.85	2,348.42	273.43	9.589		
9,400.00	7,006.36	6,972.36	6,972.36	83.76	241.66	95.41	368.68	-4,249.04	2,522.66	2,249.04	273.62	9.220		
9,500.00	7,005.13	6,971.13	6,971.13	86.79	241.62	95.19	368.68	-4,249.04	2,423.54	2,149.69	273.85	8.850		
9,600.00	7,003.90	6,969.90	6,969.90	89.84	241.57	94.98	368.68	-4,249.04	2,324.50	2,050.38	274.12	8.480		
9,700.00	7,002.66	6,968.66	6,968.66	92.90	241.53	94.76	368.68	-4,249.04	2,225.54	1,951.09	274.44	8.109		
9,800.00	7,001.43	6,967.43	6,967.43	95.99	241.49	94.55	368.68	-4,249.04	2,126.67	1,851.84	274.83	7.738		
9,900.00	7,000.19	6,966.19	6,966.19	99.08	241.44	94.33	368.68	-4,249.04	2,027.92	1,752.62	275.30	7.366		
10,000.00	6,998.96	6,964.96	6,964.96	102.19	241.40	94.12	368.68	-4,249.04	1,929.30	1,653.45	275.85	6.994		
10,100.00	6,997.73	6,963.73	6,963.73	105.32	241.36	93.90	368.68	-4,249.04	1,830.82	1,554.31	276.51	6.621		
10,200.00	6,996.49	6,962.49	6,962.49	108.45	241.32	93.68	368.68	-4,249.04	1,732.52	1,455.21	277.31	6.248		
10,300.00	6,995.26	6,961.26	6,961.26	111.60	241.27	93.47	368.68	-4,249.04	1,634.42	1,356.16	278.26	5.874		
10,400.00	6,994.03	6,960.03	6,960.03	114.75	241.23	93.25	368.68	-4,249.04	1,536.57	1,257.16	279.41	5.499		
10,500.00	6,992.79	6,958.79	6,958.79	117.92	241.19	93.04	368.68	-4,249.04	1,439.01	1,158.21	280.80	5.125		
10,600.00	6,991.56	6,957.56	6,957.56	121.09	241.14	92.82	368.68	-4,249.04	1,341.81	1,059.31	282.50	4.750		
10,700.00	6,990.33	6,956.33	6,956.33	124.27	241.10	92.60	368.68	-4,249.04	1,245.05	960.48	284.57	4.375		
10,800.00	6,989.09	6,955.09	6,955.09	127.46	241.06	92.39	368.68	-4,249.04	1,148.85	861.72	287.12	4.001		
10,900.00	6,987.86	6,953.86	6,953.86	130.65	241.01	92.17	368.68	-4,249.04	1,053.35	763.06	290.29	3.629		
11,000.00	6,986.62	6,952.62	6,952.62	133.85	240.97	91.95	368.68	-4,249.04	958.77	664.54	294.23	3.259		
11,100.00	6,985.39	6,951.39	6,951.39	137.06	240.93	91.74	368.68	-4,249.04	865.40	566.20	299.20	2.892		
11,200.00	6,984.16	6,950.16	6,950.16	140.27	240.88	91.52	368.68	-4,249.04	773.70	468.18	305.51	2.532		
11,300.00	6,982.92	6,948.92	6,948.92	143.48	240.84	91.30	368.68	-4,249.04	684.32	370.71	313.60	2.182		
11,400.00	6,981.69	6,947.69	6,947.69	146.70	240.80	91.09	368.68	-4,249.04	598.31	274.27	324.04	1.846		
11,500.00	6,980.46	6,946.46	6,946.46	149.92	240.76	90.87	368.68	-4,249.04	517.34	179.88	337.47	1.533		
11,600.00	6,979.22	6,945.22	6,945.22	153.15	240.71	90.65	368.68	-4,249.04	444.21	89.85	354.36	1.254 Level 3		
11,700.00	6,977.99	6,943.99	6,943.99	156.38	240.67	90.44	368.68	-4,249.04	383.39	9.31	374.08	1.025 Level 2		
11,800.00	6,976.75	6,942.75	6,942.75	159.62	240.63	90.22	368.68	-4,249.04	341.55	-51.39	392.94	0.869 Level 1		
11,900.00	6,975.52	6,941.52	6,941.52	162.86	240.58	90.00	368.68	-4,249.04	326.07	-77.36	403.43	0.808 Level 1		
11,901.69	6,975.50	6,941.50	6,941.50	162.91	240.58	90.00	368.68	-4,249.04	326.06	-77.43	403.49	0.808 Level 1, CC, ES, SF		
12,000.00	6,974.29	6,940.29	6,940.29	166.10	240.54	89.79	368.68	-4,249.04	340.56	-59.61	400.17	0.851 Level 1		
12,100.00	6,973.05	6,939.05	6,939.05	169.34	240.50	89.57	368.68	-4,249.04	381.62	-5.11	386.74	0.987 Level 1		
12,200.00	6,971.82	6,937.82	6,937.82	172.59	240.45	89.35	368.68	-4,249.04	441.92	71.53	370.39	1.193 Level 2		
12,300.00	6,970.59	6,936.59	6,936.59	175.84	240.41	89.14	368.68	-4,249.04	514.73	159.32	355.41	1.448 Level 3		
12,400.00	6,969.35	6,935.35	6,935.35	179.09	240.37	88.92	368.68	-4,249.04	595.48	252.49	342.98	1.736		
12,500.00	6,968.12	6,934.12	6,934.12	182.35	240.33	88.70	368.68	-4,249.04	681.35	348.34	333.01	2.046		
12,600.00	6,966.89	6,932.89	6,932.89	185.60	240.28	88.49	368.68	-4,249.04	770.64	445.59	325.04	2.371		
12,700.00	6,965.65	6,931.65	6,931.65	188.86	240.24	88.27	368.68	-4,249.04	862.28	543.64	318.64	2.706		
12,800.00	6,964.42	6,930.42	6,930.42	192.12	240.20	88.05	368.68	-4,249.04	955.59	642.15	313.44	3.049		
12,900.00	6,963.18	6,929.18	6,929.18	195.38	240.15	87.84	368.68	-4,249.04	1,050.14	740.98	309.16	3.397		
13,000.00	6,961.95	6,927.95	6,927.95	198.65	240.11	87.62	368.68	-4,249.04	1,145.61	840.00	305.61	3.749		
13,100.00	6,960.72	6,926.72	6,926.72	201.91	240.07	87.40	368.68	-4,249.04	1,241.79	939.16	302.63	4.103		
13,200.00	6,959.48	6,925.48	6,925.48	205.18	240.02	87.19	368.68	-4,249.04	1,338.53	1,038.44	300.10	4.460		
13,300.00	6,958.25	6,924.25	6,924.25	208.45	239.98	86.97	368.68	-4,249.04	1,435.72	1,137.79	297.93	4.819		
13,400.00	6,957.02	6,923.02	6,923.02	211.72	239.94	86.76	368.68	-4,249.04	1,533.27	1,237.20	296.07	5.179		
13,500.00	6,955.78	6,921.78	6,921.78	214.99	239.89	86.54	368.68	-4,249.04	1,631.11	1,336.67	294.45	5.540		
13,600.00	6,954.55	6,920.55	6,920.55	218.27	239.85	86.32	368.68	-4,249.04	1,729.20	1,436.17	293.03	5.901		
13,700.00	6,953.32	6,919.32	6,919.32	221.54	239.81	86.11	368.68	-4,249.04	1,827.50	1,535.72	291.78	6.263		
13,800.00	6,952.08	6,918.08	6,918.08	224.82	239.77	85.89	368.68	-4,249.04	1,925.97	1,635.29	290.68	6.626		
13,900.00	6,950.85	6,916.85	6,916.85	228.10	239.72	85.68	368.68	-4,249.04	2,024.59	1,734.89	289.70	6.989		
14,000.00	6,949.61	6,915.61	6,915.61	231.37	239.68	85.46	368.68	-4,249.04	2,123.34	1,834.52	288.82	7.352		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - FRAKER J #6-2 - OH - OH												Offset Well Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,100.00	6,948.38	6,914.38	6,914.38	234.65	239.64	85.25	368.68	-4,249.04	2,222.20	1,934.16	288.03	7.715	
14,200.00	6,947.15	6,913.15	6,913.15	237.93	239.59	85.03	368.68	-4,249.04	2,321.15	2,033.82	287.33	8.078	
14,300.00	6,945.91	6,911.91	6,911.91	241.22	239.55	84.82	368.68	-4,249.04	2,420.19	2,133.50	286.69	8.442	
14,400.00	6,944.68	6,910.68	6,910.68	244.50	239.51	84.60	368.68	-4,249.04	2,519.31	2,233.20	286.11	8.805	
14,500.00	6,943.45	6,909.45	6,909.45	247.78	239.46	84.39	368.68	-4,249.04	2,618.49	2,332.91	285.59	9.169	
14,600.00	6,942.21	6,908.21	6,908.21	251.07	239.42	84.17	368.68	-4,249.04	2,717.74	2,432.63	285.11	9.532	
14,700.00	6,940.98	6,906.98	6,906.98	254.35	239.38	83.96	368.68	-4,249.04	2,817.03	2,532.36	284.67	9.896	
14,800.00	6,939.74	6,905.74	6,905.74	257.64	239.33	83.74	368.68	-4,249.04	2,916.38	2,632.10	284.27	10.259	
14,900.00	6,938.51	6,904.51	6,904.51	260.92	239.29	83.53	368.68	-4,249.04	3,015.76	2,731.86	283.91	10.622	
15,000.00	6,937.28	6,903.28	6,903.28	264.21	239.25	83.31	368.68	-4,249.04	3,115.19	2,831.62	283.57	10.986	
15,100.00	6,936.04	6,902.04	6,902.04	267.50	239.21	83.10	368.68	-4,249.04	3,214.65	2,931.39	283.26	11.349	
15,200.00	6,934.81	6,900.81	6,900.81	270.79	239.16	82.89	368.68	-4,249.04	3,314.14	3,031.16	282.98	11.712	
15,300.00	6,933.58	6,900.42	6,899.58	274.08	239.15	82.67	368.68	-4,249.04	3,413.66	3,130.92	282.74	12.073	
15,400.00	6,932.34	6,901.66	6,898.34	277.37	239.19	82.46	368.68	-4,249.04	3,513.21	3,230.62	282.59	12.432	
15,500.00	6,931.11	6,902.89	6,897.11	280.66	239.23	82.25	368.68	-4,249.04	3,612.78	3,330.33	282.45	12.791	
15,589.88	6,930.00	6,904.00	6,896.00	283.62	239.27	82.06	368.68	-4,249.04	3,702.30	3,419.96	282.34	13.113	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	70.92	850.40	2,458.80	2,601.71					
100.00	100.00	92.55	92.55	3.28	3.29	70.92	850.44	2,458.85	2,601.77	2,595.20	6.57	395.965		
200.00	200.00	194.92	194.92	3.34	3.34	70.92	850.56	2,458.91	2,601.86	2,595.19	6.68	389.778		
300.00	299.98	305.96	305.96	3.44	3.46	-2.24	850.82	2,458.63	2,599.96	2,593.05	6.90	376.712		
400.00	399.84	412.64	412.64	3.60	3.63	-2.26	851.08	2,457.96	2,594.22	2,586.99	7.23	358.748		
500.00	499.45	518.90	518.89	3.81	3.85	-2.29	851.27	2,456.98	2,584.70	2,577.04	7.65	337.670		
600.00	598.70	613.67	613.66	4.08	4.07	-2.31	851.19	2,456.19	2,571.71	2,563.58	8.13	316.421		
700.00	697.47	710.60	710.58	4.40	4.33	-2.34	851.22	2,455.47	2,555.40	2,546.73	8.67	294.804		
774.77	770.92	786.25	786.23	4.68	4.55	-2.38	851.39	2,454.84	2,540.94	2,531.82	9.12	278.658		
800.00	795.65	811.71	811.69	4.78	4.63	-2.39	851.46	2,454.60	2,535.72	2,526.45	9.28	273.325		
900.00	893.64	910.85	910.83	5.20	4.94	-2.42	851.67	2,453.68	2,515.02	2,505.11	9.91	253.778		
1,000.00	991.63	1,011.02	1,010.99	5.66	5.26	-2.45	851.86	2,452.68	2,494.25	2,483.66	10.58	235.675		
1,100.00	1,089.63	1,118.62	1,118.58	6.15	5.63	-2.49	852.09	2,451.31	2,473.22	2,461.91	11.31	218.639		
1,200.00	1,187.62	1,222.79	1,222.74	6.65	6.00	-2.52	852.16	2,449.63	2,451.84	2,439.79	12.05	203.398		
1,300.00	1,285.62	1,318.89	1,318.83	7.17	6.35	-2.56	852.28	2,447.99	2,430.40	2,417.61	12.79	190.024		
1,400.00	1,383.61	1,414.39	1,414.32	7.71	6.71	-2.60	852.61	2,446.39	2,409.06	2,395.52	13.54	177.916		
1,500.00	1,481.60	1,516.62	1,516.53	8.25	7.09	-2.64	852.82	2,444.62	2,387.62	2,373.29	14.33	166.637		
1,600.00	1,579.60	1,611.04	1,610.93	8.80	7.45	-2.68	853.01	2,443.00	2,366.19	2,351.09	15.10	156.690		
1,700.00	1,677.59	1,710.81	1,710.69	9.36	7.84	-2.72	853.21	2,441.31	2,344.79	2,328.89	15.90	147.445		
1,800.00	1,775.59	1,812.99	1,812.85	9.92	8.24	-2.77	853.31	2,439.42	2,323.20	2,306.48	16.72	138.936		
1,900.00	1,873.58	1,903.19	1,903.04	10.49	8.60	-2.81	853.51	2,437.80	2,301.72	2,284.21	17.51	131.476		
2,000.00	1,971.57	1,986.95	1,986.79	11.06	8.93	-2.85	853.99	2,436.62	2,280.69	2,262.41	18.28	124.786		
2,100.00	2,069.57	2,079.65	2,079.48	11.64	9.30	-2.90	854.85	2,435.62	2,260.10	2,241.02	19.08	118.436		
2,200.00	2,167.56	2,175.67	2,175.48	12.22	9.69	-2.97	856.21	2,434.56	2,239.64	2,219.74	19.91	112.512		
2,300.00	2,265.56	2,269.18	2,268.96	12.80	10.07	-3.06	858.29	2,433.36	2,219.30	2,198.57	20.73	107.079		
2,400.00	2,363.55	2,365.20	2,364.94	13.38	10.46	-3.16	860.75	2,432.20	2,199.14	2,177.58	21.56	102.006		
2,500.00	2,461.54	2,451.95	2,451.65	13.97	10.81	-3.26	863.33	2,431.18	2,179.17	2,156.80	22.37	97.434		
2,600.00	2,559.54	2,537.85	2,537.49	14.55	11.17	-3.37	866.55	2,430.58	2,159.88	2,136.71	23.17	93.206		
2,700.00	2,657.53	2,632.69	2,632.25	15.14	11.56	-3.50	870.22	2,430.17	2,140.90	2,116.89	24.01	89.151		
2,800.00	2,755.53	2,728.26	2,727.74	15.73	11.95	-3.64	874.16	2,429.75	2,122.02	2,097.16	24.86	85.356		
2,900.00	2,853.52	2,815.78	2,815.17	16.32	12.32	-3.77	877.92	2,429.57	2,103.42	2,077.73	25.68	81.898		
3,000.00	2,951.52	2,890.62	2,889.94	16.91	12.63	-3.88	881.28	2,430.06	2,085.69	2,059.22	26.46	78.811		
3,100.00	3,049.51	2,989.33	2,988.54	17.51	13.04	-4.02	885.77	2,431.34	2,068.58	2,041.26	27.33	75.695		
3,200.00	3,147.50	3,079.93	3,079.04	18.10	13.42	-4.15	889.88	2,432.60	2,051.57	2,023.41	28.17	72.840		
3,300.00	3,245.50	3,173.48	3,172.47	18.70	13.82	-4.29	894.24	2,434.22	2,034.93	2,005.92	29.02	70.133		
3,400.00	3,343.49	3,266.07	3,264.95	19.29	14.20	-4.42	898.26	2,436.16	2,018.53	1,988.66	29.86	67.594		
3,500.00	3,441.49	3,367.13	3,365.91	19.89	14.63	-4.53	901.93	2,438.76	2,002.31	1,971.58	30.74	65.141		
3,600.00	3,539.48	3,464.61	3,463.31	20.48	15.03	-4.65	905.29	2,441.15	1,985.93	1,954.32	31.60	62.839		
3,700.00	3,637.47	3,562.68	3,561.29	21.08	15.45	-4.76	908.65	2,443.71	1,969.69	1,937.22	32.47	60.658		
3,800.00	3,735.47	3,679.08	3,677.61	21.68	15.93	-4.86	911.57	2,446.73	1,953.14	1,919.74	33.40	58.480		
3,900.00	3,833.46	3,787.54	3,786.04	22.27	16.38	-4.94	913.18	2,448.94	1,935.66	1,901.36	34.30	56.436		
4,000.00	3,931.46	3,893.67	3,892.14	22.87	16.83	-5.01	914.56	2,450.73	1,917.82	1,882.63	35.19	54.498		
4,100.00	4,029.45	4,000.89	3,999.34	23.47	17.27	-5.09	915.69	2,452.13	1,899.54	1,863.46	36.09	52.640		
4,200.00	4,127.44	4,107.64	4,106.09	24.07	17.72	-5.17	916.86	2,452.98	1,880.82	1,843.84	36.98	50.861		
4,300.00	4,225.44	4,201.96	4,200.40	24.67	18.11	-5.25	918.09	2,453.56	1,862.00	1,824.16	37.84	49.205		
4,400.00	4,323.43	4,302.88	4,301.30	25.27	18.54	-5.35	919.65	2,454.08	1,843.19	1,804.47	38.72	47.600		
4,507.81	4,429.08	4,420.83	4,419.23	25.92	19.04	-5.48	921.84	2,454.16	1,822.62	1,782.93	39.69	45.917		
4,600.00	4,519.70	4,545.69	4,544.07	26.45	19.56	-5.59	923.47	2,452.59	1,805.15	1,764.59	40.56	44.501		
4,700.00	4,618.56	4,661.21	4,659.54	26.98	20.05	-5.67	924.39	2,449.49	1,788.01	1,746.56	41.45	43.133		
4,800.00	4,717.88	4,766.83	4,765.10	27.46	20.50	-5.74	924.92	2,446.17	1,773.80	1,731.48	42.32	41.915		
4,900.00	4,817.54	4,866.01	4,864.23	27.89	20.92	-5.80	925.35	2,442.83	1,762.81	1,719.64	43.17	40.837		
5,000.00	4,917.43	4,968.62	4,966.79	28.28	21.35	-5.86	925.85	2,439.41	1,755.31	1,711.30	44.01	39.885		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,050.51	5,048.62	28.57	21.70	67.24	926.26	2,436.50	1,751.59	1,706.90	44.69	39.194		
5,100.00	5,017.42	5,067.13	5,065.23	28.62	21.77	67.23	926.37	2,435.92	1,751.07	1,706.24	44.83	39.060		
5,200.00	5,117.42	5,168.48	5,166.51	28.95	22.20	67.17	927.04	2,432.40	1,748.13	1,702.48	45.65	38.296		
5,300.00	5,217.42	5,266.63	5,264.61	29.28	22.61	67.12	927.24	2,429.08	1,745.09	1,698.63	46.46	37.560		
5,400.00	5,317.42	5,356.06	5,354.00	29.62	22.99	67.08	927.30	2,426.43	1,742.40	1,695.13	47.27	36.863		
5,500.00	5,417.42	5,457.10	5,455.01	29.96	23.42	67.05	927.35	2,424.06	1,740.25	1,692.17	48.09	36.190		
5,600.00	5,517.42	5,557.83	5,555.71	30.29	23.85	67.03	927.04	2,421.37	1,737.68	1,688.77	48.91	35.529		
5,700.00	5,617.42	5,644.50	5,642.36	30.64	24.21	67.00	927.10	2,419.34	1,735.56	1,685.85	49.71	34.912		
5,800.00	5,717.42	5,732.85	5,730.69	30.98	24.59	66.98	927.28	2,418.11	1,734.34	1,683.82	50.52	34.332		
5,900.00	5,817.42	5,834.24	5,832.08	31.33	25.02	66.95	927.64	2,416.84	1,733.33	1,681.98	51.35	33.758		
6,000.00	5,917.42	5,933.45	5,931.27	31.68	25.44	66.91	928.32	2,415.33	1,732.19	1,680.02	52.17	33.202		
6,100.00	6,017.42	6,023.33	6,021.13	32.03	25.82	66.86	929.54	2,414.05	1,731.42	1,678.43	52.98	32.680		
6,150.69	6,068.11	6,066.32	6,064.11	32.21	26.00	66.82	930.37	2,413.59	1,731.30	1,677.92	53.39	32.429 CC		
6,200.00	6,117.42	6,110.55	6,108.33	32.38	26.19	66.79	931.40	2,413.25	1,731.40	1,677.62	53.79	32.191		
6,300.00	6,217.42	6,217.07	6,214.80	32.74	26.65	66.68	934.34	2,412.02	1,731.43	1,676.80	54.63	31.692		
6,316.75	6,234.17	6,232.44	6,230.17	32.80	26.71	66.67	934.80	2,411.81	1,731.42	1,676.66	54.77	31.613		
6,400.00	6,317.42	6,310.95	6,308.63	33.09	27.05	66.58	937.24	2,410.92	1,731.58	1,676.13	55.45	31.226		
6,476.01	6,393.43	6,396.95	6,394.58	33.37	27.41	66.49	939.74	2,409.83	1,731.58	1,675.47	56.11	30.861		
6,478.15	6,395.57	6,399.37	6,397.01	33.37	27.42	158.82	939.80	2,409.80	1,731.57	1,675.45	56.13	30.851 ES		
6,500.00	6,417.42	6,423.60	6,421.22	33.45	27.52	158.79	940.45	2,409.41	1,731.91	1,675.60	56.31	30.756		
6,550.00	6,467.25	6,478.91	6,476.50	33.59	27.76	158.67	941.99	2,408.38	1,735.19	1,678.47	56.71	30.596		
6,600.00	6,516.64	6,527.40	6,524.97	33.71	27.97	158.48	943.39	2,407.34	1,742.01	1,684.92	57.09	30.514		
6,650.00	6,565.26	6,571.24	6,568.78	33.80	28.15	158.20	944.69	2,406.50	1,752.54	1,695.10	57.44	30.510 SF		
6,700.00	6,612.83	6,617.03	6,614.54	33.88	28.35	157.83	946.08	2,405.74	1,766.74	1,708.96	57.78	30.577		
6,750.00	6,659.04	6,667.40	6,664.87	33.94	28.56	157.37	947.71	2,404.81	1,784.34	1,726.23	58.11	30.705		
6,800.00	6,703.62	6,714.67	6,712.10	33.99	28.76	156.79	949.36	2,403.77	1,805.21	1,746.79	58.42	30.900		
6,850.00	6,746.28	6,757.11	6,754.50	34.03	28.95	156.05	951.01	2,402.77	1,829.32	1,770.62	58.70	31.162		
6,900.00	6,786.76	6,797.54	6,794.88	34.08	29.12	155.13	952.76	2,401.75	1,856.56	1,797.60	58.97	31.485		
6,950.00	6,824.83	6,830.53	6,827.82	34.13	29.26	153.94	954.33	2,400.92	1,886.82	1,827.62	59.20	31.874		
7,000.00	6,860.23	6,860.87	6,858.11	34.20	29.39	152.47	955.88	2,400.21	1,919.96	1,860.55	59.41	32.319		
7,050.00	6,892.75	6,888.71	6,885.90	34.30	29.51	150.63	957.40	2,399.62	1,955.78	1,896.18	59.60	32.817		
7,100.00	6,922.20	6,919.79	6,916.93	34.43	29.64	148.41	959.19	2,398.97	1,994.01	1,934.23	59.78	33.354		
7,150.00	6,948.38	6,952.03	6,949.10	34.60	29.78	145.71	961.04	2,398.23	2,034.32	1,974.35	59.96	33.926		
7,200.00	6,971.15	6,980.50	6,977.51	34.82	29.90	142.25	962.67	2,397.50	2,076.47	2,016.34	60.13	34.535		
7,250.00	6,990.35	7,004.98	7,001.95	35.09	30.00	137.75	964.07	2,396.82	2,120.23	2,059.96	60.27	35.179		
7,300.00	7,005.87	7,018.94	7,015.88	35.43	30.06	131.55	964.87	2,396.44	2,165.40	2,105.02	60.38	35.862		
7,350.00	7,017.62	7,030.65	7,027.57	35.81	30.11	123.37	965.53	2,396.12	2,211.71	2,151.23	60.48	36.569		
7,400.00	7,025.52	7,038.85	7,035.75	36.26	30.15	112.61	965.98	2,395.91	2,258.87	2,198.30	60.57	37.296		
7,450.00	7,029.52	7,043.51	7,040.40	36.75	30.17	99.16	966.24	2,395.79	2,306.59	2,245.95	60.64	38.037		
7,483.86	7,030.00	7,044.65	7,041.54	37.12	30.17	88.93	966.31	2,395.76	2,339.08	2,278.39	60.68	38.545		
7,500.00	7,029.80	7,044.81	7,041.70	37.30	30.17	88.95	966.32	2,395.75	2,354.58	2,293.87	60.70	38.788		
7,600.00	7,028.57	7,045.79	7,042.68	38.58	30.18	89.03	966.37	2,395.73	2,450.81	2,389.98	60.83	40.289		
7,700.00	7,027.34	7,046.76	7,043.65	40.10	30.18	89.12	966.42	2,395.70	2,547.34	2,486.38	60.97	41.783		
7,800.00	7,026.10	7,047.73	7,044.61	41.83	30.18	89.20	966.48	2,395.68	2,644.13	2,583.02	61.11	43.270		
7,900.00	7,024.87	7,048.68	7,045.56	43.74	30.19	89.28	966.53	2,395.65	2,741.14	2,679.89	61.25	44.751		
8,000.00	7,023.63	7,049.62	7,046.50	45.82	30.19	89.37	966.58	2,395.63	2,838.36	2,776.96	61.40	46.227		
8,100.00	7,022.40	7,050.55	7,047.42	48.04	30.20	89.45	966.63	2,395.61	2,935.77	2,874.22	61.55	47.699		
8,200.00	7,021.17	7,051.47	7,048.34	50.38	30.20	89.53	966.68	2,395.58	3,033.35	2,971.65	61.69	49.167		
8,300.00	7,019.93	7,052.38	7,049.25	52.82	30.20	89.61	966.73	2,395.56	3,131.08	3,069.23	61.84	50.631		
8,400.00	7,018.70	7,053.28	7,050.15	55.35	30.21	89.69	966.78	2,395.54	3,228.94	3,166.96	61.99	52.091		
8,500.00	7,017.47	7,054.17	7,051.04	57.97	30.21	89.77	966.83	2,395.52	3,326.94	3,264.81	62.13	53.549		
8,600.00	7,016.23	7,055.05	7,051.92	60.65	30.22	89.84	966.88	2,395.49	3,425.05	3,362.78	62.27	55.003		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	7,015.00	7,055.92	7,052.79	63.39	30.22	89.92	966.93	2,395.47	3,523.26	3,460.85	62.41	56.454		
8,800.00	7,013.76	7,056.78	7,053.65	66.19	30.22	89.99	966.98	2,395.45	3,621.58	3,559.03	62.55	57.903		
8,900.00	7,012.53	7,057.64	7,054.50	69.03	30.23	90.07	967.02	2,395.43	3,719.98	3,657.30	62.68	59.349		
9,000.00	7,011.30	7,058.48	7,055.35	71.91	30.23	90.14	967.07	2,395.41	3,818.47	3,755.65	62.81	60.792		
9,100.00	7,010.06	7,059.32	7,056.18	74.83	30.23	90.22	967.12	2,395.39	3,917.03	3,854.09	62.94	62.233		
9,200.00	7,008.83	7,060.15	7,057.01	77.78	30.24	90.29	967.16	2,395.37	4,015.66	3,952.59	63.07	63.672		
9,300.00	7,007.60	7,060.97	7,057.83	80.76	30.24	90.36	967.21	2,395.35	4,114.36	4,051.17	63.19	65.108		
9,400.00	7,006.36	7,061.78	7,058.64	83.76	30.24	90.43	967.25	2,395.33	4,213.12	4,149.80	63.32	66.542		
9,500.00	7,005.13	7,062.58	7,059.44	86.79	30.25	90.50	967.30	2,395.31	4,311.94	4,248.50	63.44	67.973		
9,600.00	7,003.90	7,063.38	7,060.23	89.84	30.25	90.57	967.34	2,395.29	4,410.81	4,347.25	63.55	69.402		
9,700.00	7,002.66	7,064.17	7,061.02	92.90	30.26	90.64	967.38	2,395.27	4,509.73	4,446.06	63.67	70.828		
9,800.00	7,001.43	7,064.95	7,061.80	95.99	30.26	90.71	967.43	2,395.25	4,608.69	4,544.91	63.79	72.252		
9,900.00	7,000.19	7,065.72	7,062.57	99.08	30.26	90.78	967.47	2,395.23	4,707.70	4,643.80	63.90	73.674		
10,000.00	6,998.96	7,066.48	7,063.33	102.19	30.26	90.84	967.51	2,395.21	4,806.75	4,742.74	64.01	75.093		
10,100.00	6,997.73	7,067.24	7,064.09	105.32	30.27	90.91	967.55	2,395.20	4,905.84	4,841.72	64.12	76.510		
10,200.00	6,996.49	7,067.99	7,064.84	108.45	30.27	90.97	967.59	2,395.18	5,004.97	4,940.74	64.23	77.925		
10,300.00	6,995.26	7,068.73	7,065.58	111.60	30.27	91.04	967.63	2,395.16	5,104.13	5,039.79	64.34	79.336		
10,400.00	6,994.03	7,069.47	7,066.31	114.75	30.28	91.10	967.67	2,395.14	5,203.32	5,138.88	64.44	80.746		
10,500.00	6,992.79	7,070.19	7,067.04	117.92	30.28	91.17	967.71	2,395.12	5,302.54	5,238.00	64.55	82.153		
10,600.00	6,991.56	7,070.92	7,067.76	121.09	30.28	91.23	967.75	2,395.11	5,401.79	5,337.14	64.65	83.557		
10,700.00	6,990.33	7,071.63	7,068.47	124.27	30.29	91.29	967.79	2,395.09	5,501.07	5,436.32	64.75	84.958		
10,800.00	6,989.09	7,072.34	7,069.18	127.46	30.29	91.35	967.83	2,395.07	5,600.37	5,535.52	64.85	86.357		
10,900.00	6,987.86	7,073.04	7,069.88	130.65	30.29	91.42	967.87	2,395.06	5,699.70	5,634.75	64.95	87.753		
11,000.00	6,986.62	7,073.73	7,070.57	133.85	30.30	91.48	967.90	2,395.04	5,799.05	5,734.00	65.05	89.147		
11,100.00	6,985.39	7,074.42	7,071.26	137.06	30.30	91.54	967.94	2,395.02	5,898.42	5,833.27	65.15	90.537		
11,200.00	6,984.16	7,075.10	7,071.94	140.27	30.30	91.60	967.98	2,395.01	5,997.81	5,932.57	65.25	91.925		
11,300.00	6,982.92	7,075.78	7,072.61	143.48	30.30	91.65	968.02	2,394.99	6,097.22	6,031.88	65.34	93.310		
11,400.00	6,981.69	7,076.45	7,073.28	146.70	30.31	91.71	968.05	2,394.98	6,196.66	6,131.22	65.44	94.693		
11,500.00	6,980.46	7,077.11	7,073.94	149.92	30.31	91.77	968.09	2,394.96	6,296.10	6,230.57	65.54	96.072		
11,600.00	6,979.22	7,077.77	7,074.60	153.15	30.31	91.83	968.12	2,394.94	6,395.57	6,329.94	65.63	97.448		
11,700.00	6,977.99	7,078.42	7,075.25	156.38	30.32	91.89	968.16	2,394.93	6,495.05	6,429.33	65.72	98.822		
11,800.00	6,976.75	7,079.06	7,075.89	159.62	30.32	91.94	968.19	2,394.91	6,594.55	6,528.73	65.82	100.192		
11,900.00	6,975.52	7,079.70	7,076.53	162.86	30.32	92.00	968.23	2,394.90	6,694.06	6,628.15	65.91	101.559		
12,000.00	6,974.29	7,080.34	7,077.16	166.10	30.32	92.05	968.26	2,394.88	6,793.59	6,727.59	66.01	102.924		
12,100.00	6,973.05	7,080.96	7,077.79	169.34	30.33	92.11	968.30	2,394.87	6,893.13	6,827.03	66.10	104.285		
12,200.00	6,971.82	7,081.59	7,078.41	172.59	30.33	92.16	968.33	2,394.86	6,992.69	6,926.49	66.19	105.643		
12,300.00	6,970.59	7,082.20	7,079.03	175.84	30.33	92.21	968.36	2,394.84	7,092.25	7,025.97	66.28	106.997		
12,400.00	6,969.35	7,082.82	7,079.64	179.09	30.33	92.27	968.40	2,394.83	7,191.83	7,125.45	66.38	108.349		
12,500.00	6,968.12	7,083.42	7,080.24	182.35	30.34	92.32	968.43	2,394.81	7,291.42	7,224.95	66.47	109.697		
12,600.00	6,966.89	7,084.02	7,080.84	185.60	30.34	92.37	968.46	2,394.80	7,391.02	7,324.46	66.56	111.042		
12,700.00	6,965.65	7,084.62	7,081.44	188.86	30.34	92.42	968.49	2,394.78	7,490.63	7,423.98	66.65	112.384		
12,800.00	6,964.42	7,085.21	7,082.03	192.12	30.34	92.48	968.53	2,394.77	7,590.25	7,523.51	66.74	113.722		
12,900.00	6,963.18	7,085.80	7,082.61	195.38	30.35	92.53	968.56	2,394.76	7,689.88	7,623.05	66.84	115.057		
13,000.00	6,961.95	7,086.38	7,083.19	198.65	30.35	92.58	968.59	2,394.74	7,789.53	7,722.60	66.93	116.388		
13,100.00	6,960.72	7,086.95	7,083.77	201.91	30.35	92.63	968.62	2,394.73	7,889.18	7,822.16	67.02	117.717		
13,200.00	6,959.48	7,087.52	7,084.34	205.18	30.35	92.68	968.65	2,394.72	7,988.83	7,921.72	67.11	119.041		
13,300.00	6,958.25	7,088.09	7,084.90	208.45	30.36	92.73	968.68	2,394.71	8,088.50	8,021.30	67.20	120.362		
13,400.00	6,957.02	7,088.65	7,085.46	211.72	30.36	92.78	968.71	2,394.69	8,188.17	8,120.88	67.29	121.680		
13,500.00	6,955.78	7,089.21	7,086.02	214.99	30.36	92.82	968.74	2,394.68	8,287.86	8,220.47	67.38	122.994		
13,600.00	6,954.55	7,089.76	7,086.57	218.27	30.36	92.87	968.77	2,394.67	8,387.55	8,320.07	67.48	124.304		
13,700.00	6,953.32	7,100.00	7,096.79	221.54	30.41	93.76	969.32	2,394.44	8,487.25	8,419.65	67.60	125.547		
13,800.00	6,952.08	7,100.00	7,096.79	224.82	30.41	93.76	969.32	2,394.44	8,586.96	8,519.26	67.69	126.853		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,950.85	7,100.00	7,096.79	228.10	30.41	93.76	969.32	2,394.44	8,686.67	8,618.88	67.78	128.156		
14,000.00	6,949.61	7,100.00	7,096.79	231.37	30.41	93.76	969.32	2,394.44	8,786.38	8,718.51	67.87	129.454		
14,100.00	6,948.38	7,100.00	7,096.79	234.65	30.41	93.76	969.32	2,394.44	8,886.11	8,818.14	67.96	130.750		
14,200.00	6,947.15	7,100.00	7,096.79	237.93	30.41	93.76	969.32	2,394.44	8,985.84	8,917.78	68.05	132.041		
14,300.00	6,945.91	7,100.00	7,096.79	241.22	30.41	93.76	969.32	2,394.44	9,085.57	9,017.43	68.14	133.329		
14,400.00	6,944.68	7,100.00	7,096.79	244.50	30.41	93.76	969.32	2,394.44	9,185.31	9,117.08	68.23	134.613		
14,500.00	6,943.45	7,100.00	7,096.79	247.78	30.41	93.76	969.32	2,394.44	9,285.06	9,216.73	68.33	135.893		
14,600.00	6,942.21	7,100.00	7,096.79	251.07	30.41	93.76	969.32	2,394.44	9,384.81	9,316.39	68.42	137.170		
14,700.00	6,940.98	7,100.00	7,096.79	254.35	30.41	93.76	969.32	2,394.44	9,484.57	9,416.06	68.51	138.443		
14,800.00	6,939.74	7,100.00	7,096.79	257.64	30.41	93.76	969.32	2,394.44	9,584.33	9,515.73	68.60	139.712		
14,900.00	6,938.51	7,100.00	7,096.79	260.92	30.41	93.76	969.32	2,394.44	9,684.10	9,615.40	68.69	140.977		
15,000.00	6,937.28	7,100.00	7,096.79	264.21	30.41	93.76	969.32	2,394.44	9,783.87	9,715.08	68.79	142.238		
15,100.00	6,936.04	15,100.00	7,120.13	267.50	64.64	95.77	970.54	2,393.86	9,883.62	9,780.55	103.07	95.896		
15,200.00	6,934.81	15,200.00	7,121.15	270.79	65.06	95.86	970.60	2,393.83	9,983.40	9,879.81	103.59	96.377		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	94.65	-728.79	8,953.90	8,983.55					
100.00	100.00	72.00	72.00	3.28	3.51	94.65	-728.79	8,953.90	8,983.51	8,976.71	6.80	1,321.639		
200.00	200.00	172.00	172.00	3.34	5.38	94.65	-728.79	8,953.90	8,983.51	8,974.79	8.71	1,031.084		
300.00	299.98	271.98	271.98	3.44	8.41	21.52	-728.79	8,953.90	8,981.88	8,970.03	11.86	757.429		
400.00	399.84	371.84	371.84	3.60	11.70	21.57	-728.79	8,953.90	8,977.02	8,961.71	15.31	586.497		
500.00	499.45	471.45	471.45	3.81	15.07	21.65	-728.79	8,953.90	8,968.91	8,950.03	18.88	475.003		
600.00	598.70	570.70	570.70	4.08	18.47	21.76	-728.79	8,953.90	8,957.57	8,935.05	22.53	397.637		
700.00	697.47	669.47	669.47	4.40	21.87	21.91	-728.79	8,953.90	8,943.03	8,916.81	26.21	341.153		
774.77	770.92	742.92	742.92	4.68	24.41	22.04	-728.79	8,953.90	8,930.07	8,901.08	28.99	308.048		
800.00	795.65	767.65	767.65	4.78	25.27	22.05	-728.79	8,953.90	8,925.39	8,895.46	29.93	298.217		
900.00	893.64	865.64	865.64	5.20	28.66	22.10	-728.79	8,953.90	8,906.87	8,873.21	33.66	264.605		
1,000.00	991.63	963.63	963.63	5.66	32.06	22.15	-728.79	8,953.90	8,888.36	8,850.94	37.42	237.525		
1,100.00	1,089.63	1,061.63	1,061.63	6.15	35.47	22.20	-728.79	8,953.90	8,869.85	8,828.65	41.20	215.275		
1,200.00	1,187.62	1,159.62	1,159.62	6.65	38.88	22.25	-728.79	8,953.90	8,851.35	8,806.35	45.00	196.688		
1,300.00	1,285.62	1,257.62	1,257.62	7.17	42.29	22.30	-728.79	8,953.90	8,832.86	8,784.04	48.82	180.942		
1,400.00	1,383.61	1,355.61	1,355.61	7.71	45.70	22.35	-728.79	8,953.90	8,814.37	8,761.73	52.64	167.441		
1,500.00	1,481.60	1,453.60	1,453.60	8.25	49.11	22.39	-728.79	8,953.90	8,795.89	8,739.41	56.48	155.742		
1,600.00	1,579.60	1,551.60	1,551.60	8.80	52.52	22.44	-728.79	8,953.90	8,777.41	8,717.09	60.32	145.512		
1,700.00	1,677.59	1,649.59	1,649.59	9.36	55.94	22.49	-728.79	8,953.90	8,758.94	8,694.77	64.17	136.493		
1,800.00	1,775.59	1,747.59	1,747.59	9.92	59.35	22.54	-728.79	8,953.90	8,740.48	8,672.45	68.03	128.483		
1,900.00	1,873.58	1,845.58	1,845.58	10.49	62.77	22.59	-728.79	8,953.90	8,722.02	8,650.13	71.89	121.325		
2,000.00	1,971.57	1,943.57	1,943.57	11.06	66.19	22.64	-728.79	8,953.90	8,703.57	8,627.81	75.76	114.890		
2,100.00	2,069.57	2,041.57	2,041.57	11.64	69.60	22.69	-728.79	8,953.90	8,685.13	8,605.50	79.63	109.075		
2,200.00	2,167.56	2,139.56	2,139.56	12.22	73.02	22.74	-728.79	8,953.90	8,666.69	8,583.19	83.50	103.794		
2,300.00	2,265.56	2,237.56	2,237.56	12.80	76.44	22.80	-728.79	8,953.90	8,648.26	8,560.88	87.37	98.979		
2,400.00	2,363.55	2,335.55	2,335.55	13.38	79.86	22.85	-728.79	8,953.90	8,629.83	8,538.58	91.25	94.570		
2,500.00	2,461.54	2,433.54	2,433.54	13.97	83.27	22.90	-728.79	8,953.90	8,611.42	8,516.28	95.13	90.519		
2,600.00	2,559.54	2,531.54	2,531.54	14.55	86.69	22.95	-728.79	8,953.90	8,593.01	8,493.99	99.02	86.783		
2,700.00	2,657.53	2,629.53	2,629.53	15.14	90.11	23.00	-728.79	8,953.90	8,574.60	8,471.70	102.90	83.328		
2,800.00	2,755.53	2,727.53	2,727.53	15.73	93.53	23.05	-728.79	8,953.90	8,556.20	8,449.42	106.79	80.123		
2,900.00	2,853.52	2,825.52	2,825.52	16.32	96.95	23.11	-728.79	8,953.90	8,537.81	8,427.14	110.68	77.142		
3,000.00	2,951.52	2,923.52	2,923.52	16.91	100.37	23.16	-728.79	8,953.90	8,519.43	8,404.86	114.57	74.362		
3,100.00	3,049.51	3,021.51	3,021.51	17.51	103.79	23.21	-728.79	8,953.90	8,501.06	8,382.60	118.46	71.765		
3,200.00	3,147.50	3,119.50	3,119.50	18.10	107.21	23.26	-728.79	8,953.90	8,482.69	8,360.34	122.35	69.332		
3,300.00	3,245.50	3,217.50	3,217.50	18.70	110.63	23.32	-728.79	8,953.90	8,464.32	8,338.08	126.24	67.048		
3,400.00	3,343.49	3,315.49	3,315.49	19.29	114.05	23.37	-728.79	8,953.90	8,445.97	8,315.83	130.14	64.901		
3,500.00	3,441.49	3,413.49	3,413.49	19.89	117.47	23.42	-728.79	8,953.90	8,427.62	8,293.59	134.03	62.878		
3,600.00	3,539.48	3,511.48	3,511.48	20.48	120.88	23.48	-728.79	8,953.90	8,409.28	8,271.35	137.93	60.968		
3,700.00	3,637.47	3,609.47	3,609.47	21.08	124.30	23.53	-728.79	8,953.90	8,390.95	8,249.12	141.83	59.164		
3,800.00	3,735.47	3,707.47	3,707.47	21.68	127.72	23.59	-728.79	8,953.90	8,372.62	8,226.90	145.72	57.456		
3,900.00	3,833.46	3,805.46	3,805.46	22.27	131.14	23.64	-728.79	8,953.90	8,354.30	8,204.68	149.62	55.836		
4,000.00	3,931.46	3,903.46	3,903.46	22.87	134.56	23.69	-728.79	8,953.90	8,335.99	8,182.47	153.52	54.299		
4,100.00	4,029.45	4,001.45	4,001.45	23.47	137.98	23.75	-728.79	8,953.90	8,317.69	8,160.27	157.42	52.837		
4,200.00	4,127.44	4,100.44	4,100.44	24.07	141.44	23.81	-728.79	8,953.90	8,299.39	8,138.03	161.36	51.434		
4,300.00	4,225.44	4,202.44	4,202.44	24.67	145.00	23.86	-728.79	8,953.90	8,281.10	8,115.70	165.40	50.067		
4,400.00	4,323.43	4,304.43	4,304.43	25.27	148.56	23.92	-728.79	8,953.90	8,262.82	8,093.38	169.44	48.764		
4,507.81	4,429.08	4,401.08	4,401.08	25.92	151.93	23.98	-728.79	8,953.90	8,243.12	8,069.79	173.33	47.557		
4,600.00	4,519.70	4,508.30	4,491.70	26.45	155.67	23.90	-728.79	8,953.90	8,227.61	8,050.10	177.51	46.350		
4,700.00	4,618.56	4,609.44	4,590.56	26.98	159.20	23.83	-728.79	8,953.90	8,213.83	8,032.33	181.50	45.255		
4,800.00	4,717.88	4,689.88	4,689.88	27.46	162.01	23.77	-728.79	8,953.90	8,203.22	8,018.47	184.75	44.401		
4,900.00	4,817.54	4,789.54	4,789.54	27.89	165.49	23.74	-728.79	8,953.90	8,195.80	8,007.14	188.66	43.442		
5,000.00	4,917.43	4,889.43	4,889.43	28.28	168.98	23.71	-728.79	8,953.90	8,191.56	7,999.00	192.56	42.541		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,972.00	4,972.00	28.57	171.86	96.86	-728.79	8,953.90	8,190.47	7,994.71	195.76	41.839		
5,100.00	5,017.42	4,989.42	4,989.42	28.62	172.47	96.86	-728.79	8,953.90	8,190.47	7,994.04	196.43	41.696		
5,200.00	5,117.42	5,089.42	5,089.42	28.95	175.96	96.86	-728.79	8,953.90	8,190.47	7,990.17	200.30	40.890		
5,300.00	5,217.42	5,189.42	5,189.42	29.28	179.45	96.86	-728.79	8,953.90	8,190.47	7,986.30	204.18	40.115		
5,400.00	5,317.42	5,289.42	5,289.42	29.62	182.94	96.86	-728.79	8,953.90	8,190.47	7,982.42	208.05	39.368		
5,500.00	5,417.42	5,389.42	5,389.42	29.96	186.43	96.86	-728.79	8,953.90	8,190.47	7,978.55	211.92	38.648		
5,600.00	5,517.42	5,489.42	5,489.42	30.29	189.92	96.86	-728.79	8,953.90	8,190.47	7,974.67	215.80	37.954		
5,700.00	5,617.42	5,589.42	5,589.42	30.64	193.41	96.86	-728.79	8,953.90	8,190.47	7,970.79	219.68	37.284		
5,800.00	5,717.42	5,689.42	5,689.42	30.98	196.90	96.86	-728.79	8,953.90	8,190.47	7,966.91	223.56	36.637		
5,900.00	5,817.42	5,789.42	5,789.42	31.33	200.39	96.86	-728.79	8,953.90	8,190.47	7,963.03	227.44	36.011		
6,000.00	5,917.42	5,889.42	5,889.42	31.68	203.88	96.86	-728.79	8,953.90	8,190.47	7,959.15	231.32	35.407		
6,100.00	6,017.42	5,989.42	5,989.42	32.03	207.37	96.86	-728.79	8,953.90	8,190.47	7,955.26	235.21	34.822		
6,200.00	6,117.42	6,089.42	6,089.42	32.38	210.86	96.86	-728.79	8,953.90	8,190.47	7,951.38	239.10	34.256		
6,300.00	6,217.42	6,189.42	6,189.42	32.74	214.35	96.86	-728.79	8,953.90	8,190.47	7,947.49	242.98	33.708		
6,400.00	6,317.42	6,289.42	6,289.42	33.09	217.84	96.86	-728.79	8,953.90	8,190.47	7,943.60	246.87	33.177		
6,476.01	6,393.43	6,365.43	6,365.43	33.37	220.50	96.86	-728.79	8,953.90	8,190.47	7,940.64	249.83	32.785 CC		
6,500.00	6,417.42	6,389.42	6,389.42	33.45	221.33	-170.80	-728.79	8,953.90	8,190.92	7,940.16	250.76	32.665 ES		
6,550.00	6,467.25	6,439.25	6,439.25	33.59	223.07	-170.75	-728.79	8,953.90	8,194.71	7,942.04	252.67	32.432		
6,600.00	6,516.64	6,488.64	6,488.64	33.71	224.80	-170.65	-728.79	8,953.90	8,202.35	7,947.79	254.56	32.222		
6,650.00	6,565.26	6,537.26	6,537.26	33.80	226.49	-170.49	-728.79	8,953.90	8,213.80	7,957.39	256.41	32.034		
6,700.00	6,612.83	6,584.83	6,584.83	33.88	228.15	-170.27	-728.79	8,953.90	8,228.97	7,970.77	258.20	31.870		
6,750.00	6,659.04	6,631.04	6,631.04	33.94	229.77	-169.98	-728.79	8,953.90	8,247.79	7,987.85	259.94	31.730		
6,800.00	6,703.62	6,675.62	6,675.62	33.99	231.32	-169.61	-728.79	8,953.90	8,270.13	8,008.53	261.60	31.614		
6,850.00	6,746.28	6,718.28	6,718.28	34.03	232.81	-169.14	-728.79	8,953.90	8,295.85	8,032.67	263.18	31.522		
6,900.00	6,786.76	6,758.76	6,758.76	34.08	234.23	-168.56	-728.79	8,953.90	8,324.80	8,060.14	264.67	31.454		
6,950.00	6,824.83	6,803.17	6,796.83	34.13	235.78	-167.84	-728.79	8,953.90	8,356.80	8,090.53	266.28	31.384		
7,000.00	6,860.23	6,832.23	6,832.23	34.20	236.79	-166.93	-728.79	8,953.90	8,391.66	8,124.32	267.34	31.390		
7,050.00	6,892.75	6,864.75	6,864.75	34.30	237.93	-165.79	-728.79	8,953.90	8,429.16	8,160.65	268.51	31.392		
7,100.00	6,922.20	6,905.80	6,894.20	34.43	239.36	-164.32	-728.79	8,953.90	8,469.06	8,199.10	269.97	31.371 SF		
7,150.00	6,948.38	6,920.38	6,920.38	34.60	239.87	-162.39	-728.79	8,953.90	8,511.14	8,240.64	270.49	31.465		
7,200.00	6,971.15	6,943.15	6,943.15	34.82	240.66	-159.78	-728.79	8,953.90	8,555.11	8,283.82	271.30	31.534		
7,250.00	6,990.35	6,962.35	6,962.35	35.09	241.33	-156.12	-728.79	8,953.90	8,600.72	8,328.75	271.97	31.624		
7,300.00	7,005.87	6,977.87	6,977.87	35.43	241.87	-150.72	-728.79	8,953.90	8,647.69	8,375.18	272.51	31.733		
7,350.00	7,017.62	6,989.62	6,989.62	35.81	242.28	-142.27	-728.79	8,953.90	8,695.72	8,422.81	272.92	31.862		
7,400.00	7,025.52	7,002.48	6,997.52	36.26	242.73	-128.21	-728.79	8,953.90	8,744.52	8,471.16	273.36	31.989		
7,450.00	7,029.52	7,001.52	7,001.52	36.75	242.70	-105.19	-728.79	8,953.90	8,793.79	8,520.47	273.33	32.173		
7,483.86	7,030.00	7,002.00	7,002.00	37.12	242.72	-85.29	-728.79	8,953.90	8,827.27	8,553.93	273.34	32.294		
7,500.00	7,029.80	7,001.80	7,001.80	37.30	242.71	-85.28	-728.79	8,953.90	8,843.23	8,569.89	273.34	32.353		
7,600.00	7,028.57	7,000.57	7,000.57	38.58	242.67	-85.23	-728.79	8,953.90	8,942.14	8,668.83	273.30	32.719		
7,700.00	7,027.34	7,000.67	6,999.34	40.10	242.67	-85.18	-728.79	8,953.90	9,041.06	8,767.74	273.33	33.078		
7,800.00	7,026.10	7,001.90	6,998.10	41.83	242.71	-85.12	-728.79	8,953.90	9,140.02	8,866.62	273.39	33.432		
7,900.00	7,024.87	7,003.13	6,996.87	43.74	242.76	-85.07	-728.79	8,953.90	9,238.99	8,965.52	273.47	33.784		
8,000.00	7,023.63	7,004.37	6,995.63	45.82	242.80	-85.02	-728.79	8,953.90	9,337.99	9,064.44	273.55	34.136		
8,100.00	7,022.40	7,005.60	6,994.40	48.04	242.84	-84.96	-728.79	8,953.90	9,437.00	9,163.36	273.64	34.487		
8,200.00	7,021.17	7,006.83	6,993.17	50.38	242.89	-84.91	-728.79	8,953.90	9,536.04	9,262.31	273.73	34.837		
8,300.00	7,019.93	7,008.07	6,991.93	52.82	242.93	-84.86	-728.79	8,953.90	9,635.10	9,361.27	273.83	35.186		
8,400.00	7,018.70	7,009.30	6,990.70	55.35	242.97	-84.80	-728.79	8,953.90	9,734.17	9,460.24	273.93	35.535		
8,500.00	7,017.47	6,989.47	6,989.47	57.97	242.28	-84.75	-728.79	8,953.90	9,833.27	9,559.96	273.31	35.979		
8,600.00	7,016.23	6,988.23	6,988.23	60.65	242.24	-84.69	-728.79	8,953.90	9,932.38	9,659.04	273.33	36.338		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
2,100.00	2,069.57	2,025.57	2,025.57	11.64	69.05	13.57	710.70	10,270.05	9,981.41	9,902.50	78.90	126.500		
2,200.00	2,167.56	2,123.56	2,123.56	12.22	72.46	13.60	710.70	10,270.05	9,962.01	9,879.25	82.76	120.367		
2,300.00	2,265.56	2,221.56	2,221.56	12.80	75.88	13.62	710.70	10,270.05	9,942.62	9,856.00	86.63	114.777		
2,400.00	2,363.55	2,319.55	2,319.55	13.38	79.30	13.65	710.70	10,270.05	9,923.23	9,832.74	90.49	109.662		
2,500.00	2,461.54	2,417.54	2,417.54	13.97	82.72	13.68	710.70	10,270.05	9,903.85	9,809.49	94.36	104.963		
2,600.00	2,559.54	2,515.54	2,515.54	14.55	86.13	13.70	710.70	10,270.05	9,884.46	9,786.24	98.22	100.632		
2,700.00	2,657.53	2,613.53	2,613.53	15.14	89.55	13.73	710.70	10,270.05	9,865.08	9,762.99	102.09	96.627		
2,800.00	2,755.53	2,711.53	2,711.53	15.73	92.97	13.76	710.70	10,270.05	9,845.70	9,739.73	105.97	92.914		
2,900.00	2,853.52	2,809.52	2,809.52	16.32	96.39	13.79	710.70	10,270.05	9,826.32	9,716.48	109.84	89.461		
3,000.00	2,951.52	2,907.52	2,907.52	16.91	99.81	13.81	710.70	10,270.05	9,806.95	9,693.23	113.71	86.243		
3,100.00	3,049.51	3,005.51	3,005.51	17.51	103.23	13.84	710.70	10,270.05	9,787.57	9,669.98	117.59	83.236		
3,200.00	3,147.50	3,103.50	3,103.50	18.10	106.65	13.87	710.70	10,270.05	9,768.20	9,646.74	121.47	80.420		
3,300.00	3,245.50	3,201.50	3,201.50	18.70	110.07	13.90	710.70	10,270.05	9,748.83	9,623.49	125.34	77.777		
3,400.00	3,343.49	3,300.51	3,299.49	19.29	113.52	13.93	710.70	10,270.05	9,729.47	9,600.21	129.26	75.272		
3,500.00	3,441.49	3,402.51	3,397.49	19.89	117.08	13.95	710.70	10,270.05	9,710.10	9,576.83	133.28	72.857		
3,600.00	3,539.48	3,504.52	3,495.48	20.48	120.64	13.98	710.70	10,270.05	9,690.74	9,553.44	137.30	70.583		
3,700.00	3,637.47	3,606.53	3,593.47	21.08	124.20	14.01	710.70	10,270.05	9,671.38	9,530.06	141.32	68.438		
3,800.00	3,735.47	3,708.53	3,691.47	21.68	127.76	14.04	710.70	10,270.05	9,652.02	9,506.69	145.34	66.411		
3,900.00	3,833.46	3,789.46	3,789.46	22.27	130.59	14.07	710.70	10,270.05	9,632.67	9,484.04	148.62	64.812		
4,000.00	3,931.46	3,887.46	3,887.46	22.87	134.01	14.10	710.70	10,270.05	9,613.32	9,460.81	152.51	63.035		
4,100.00	4,029.45	3,985.45	3,985.45	23.47	137.43	14.13	710.70	10,270.05	9,593.97	9,437.57	156.39	61.346		
4,200.00	4,127.44	4,083.44	4,083.44	24.07	140.85	14.16	710.70	10,270.05	9,574.62	9,414.34	160.27	59.739		
4,300.00	4,225.44	4,181.44	4,181.44	24.67	144.27	14.18	710.70	10,270.05	9,555.27	9,391.11	164.16	58.208		
4,400.00	4,323.43	4,279.43	4,279.43	25.27	147.69	14.21	710.70	10,270.05	9,535.93	9,367.89	168.04	56.747		
4,507.81	4,429.08	4,385.08	4,385.08	25.92	151.37	14.25	710.70	10,270.05	9,515.08	9,342.85	172.23	55.246		
4,600.00	4,519.70	4,475.70	4,475.70	26.45	154.54	14.19	710.70	10,270.05	9,498.66	9,322.84	175.82	54.026		
4,700.00	4,618.56	4,574.56	4,574.56	26.98	157.99	14.14	710.70	10,270.05	9,484.07	9,304.35	179.72	52.772		
4,800.00	4,717.88	4,673.88	4,673.88	27.46	161.45	14.10	710.70	10,270.05	9,472.83	9,289.21	183.62	51.589		
4,900.00	4,817.54	4,773.54	4,773.54	27.89	164.93	14.07	710.70	10,270.05	9,464.96	9,277.44	187.53	50.472		
5,000.00	4,917.43	4,873.43	4,873.43	28.28	168.42	14.06	710.70	10,270.05	9,460.48	9,269.05	191.43	49.420		
5,082.58	5,000.00	4,956.00	4,956.00	28.57	171.30	87.20	710.70	10,270.05	9,459.32	9,264.68	194.64	48.599		
5,100.00	5,017.42	4,973.42	4,973.42	28.62	171.91	87.20	710.70	10,270.05	9,459.32	9,264.01	195.32	48.431		
5,200.00	5,117.42	5,073.42	5,073.42	28.95	175.40	87.20	710.70	10,270.05	9,459.32	9,260.13	199.19	47.488		
5,300.00	5,217.42	5,173.42	5,173.42	29.28	178.89	87.20	710.70	10,270.05	9,459.32	9,256.25	203.07	46.581		
5,400.00	5,317.42	5,273.42	5,273.42	29.62	182.38	87.20	710.70	10,270.05	9,459.32	9,252.37	206.95	45.707		
5,500.00	5,417.42	5,373.42	5,373.42	29.96	185.87	87.20	710.70	10,270.05	9,459.32	9,248.48	210.84	44.866		
5,600.00	5,517.42	5,473.42	5,473.42	30.29	189.36	87.20	710.70	10,270.05	9,459.32	9,244.60	214.72	44.054		
5,700.00	5,617.42	5,573.42	5,573.42	30.64	192.85	87.20	710.70	10,270.05	9,459.32	9,240.71	218.61	43.271		
5,800.00	5,717.42	5,673.42	5,673.42	30.98	196.34	87.20	710.70	10,270.05	9,459.32	9,236.83	222.49	42.515		
5,900.00	5,817.42	5,773.42	5,773.42	31.33	199.83	87.20	710.70	10,270.05	9,459.32	9,232.94	226.38	41.784		
6,000.00	5,917.42	5,873.42	5,873.42	31.68	203.32	87.20	710.70	10,270.05	9,459.32	9,229.05	230.27	41.079		
6,100.00	6,017.42	5,973.42	5,973.42	32.03	206.81	87.20	710.70	10,270.05	9,459.32	9,225.16	234.16	40.396		
6,200.00	6,117.42	6,073.42	6,073.42	32.38	210.30	87.20	710.70	10,270.05	9,459.32	9,221.26	238.06	39.736		
6,300.00	6,217.42	6,173.42	6,173.42	32.74	213.79	87.20	710.70	10,270.05	9,459.32	9,217.37	241.95	39.096		
6,400.00	6,317.42	6,273.42	6,273.42	33.09	217.28	87.20	710.70	10,270.05	9,459.32	9,213.48	245.84	38.477		
6,476.01	6,393.43	6,349.43	6,349.43	33.37	219.94	87.20	710.70	10,270.05	9,459.32	9,210.52	248.81	38.019 CC		
6,500.00	6,417.42	6,373.42	6,373.42	33.45	220.78	179.54	710.70	10,270.05	9,459.77	9,210.04	249.74	37.879 ES		
6,550.00	6,467.25	6,423.25	6,423.25	33.59	222.51	179.53	710.70	10,270.05	9,463.62	9,211.96	251.66	37.605		
6,600.00	6,516.64	6,472.64	6,472.64	33.71	224.24	179.53	710.70	10,270.05	9,471.36	9,217.81	253.55	37.355		
6,650.00	6,565.26	6,521.26	6,521.26	33.80	225.94	179.52	710.70	10,270.05	9,482.95	9,227.55	255.40	37.129		
6,700.00	6,612.83	6,568.83	6,568.83	33.88	227.60	179.51	710.70	10,270.05	9,498.32	9,241.11	257.21	36.929		
6,750.00	6,659.04	6,615.04	6,615.04	33.94	229.21	179.49	710.70	10,270.05	9,517.38	9,258.43	258.95	36.754		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - KELLY #2-3 - OH - OH												Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	(ft)		
6,800.00	6,703.62	6,659.62	6,659.62	33.99	230.77	179.47	710.70	10,270.05	9,540.00	9,279.38	260.62	36.605	
6,850.00	6,746.28	6,702.28	6,702.28	34.03	232.25	179.45	710.70	10,270.05	9,566.05	9,303.84	262.21	36.483	
6,900.00	6,786.76	6,742.76	6,742.76	34.08	233.67	179.42	710.70	10,270.05	9,595.36	9,331.66	263.71	36.387	
6,950.00	6,824.83	6,780.83	6,780.83	34.13	235.00	179.38	710.70	10,270.05	9,627.77	9,362.66	265.11	36.317	
7,000.00	6,860.23	6,816.23	6,816.23	34.20	236.23	179.33	710.70	10,270.05	9,663.06	9,396.66	266.40	36.273	
7,050.00	6,892.75	6,848.75	6,848.75	34.30	237.37	179.27	710.70	10,270.05	9,701.01	9,433.44	267.58	36.255 SF	
7,100.00	6,922.20	6,878.20	6,878.20	34.43	238.40	179.19	710.70	10,270.05	9,741.41	9,472.77	268.64	36.262	
7,150.00	6,948.38	6,904.38	6,904.38	34.60	239.31	179.08	710.70	10,270.05	9,783.99	9,514.41	269.58	36.294	
7,200.00	6,971.15	6,927.15	6,927.15	34.82	240.10	178.94	710.70	10,270.05	9,828.49	9,558.10	270.39	36.350	
7,250.00	6,990.35	6,946.35	6,946.35	35.09	240.77	178.72	710.70	10,270.05	9,874.64	9,603.57	271.07	36.429	
7,300.00	7,005.87	6,961.87	6,961.87	35.43	241.32	178.38	710.70	10,270.05	9,922.15	9,650.54	271.61	36.531	
7,350.00	7,017.62	6,973.62	6,973.62	35.81	241.73	177.76	710.70	10,270.05	9,970.74	9,698.72	272.02	36.654	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 169-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.93	-642.06	5,284.80	5,323.70					
100.00	100.00	95.88	95.88	3.28	3.29	96.93	-642.26	5,284.60	5,323.52	5,316.95	6.57	810.090		
200.00	200.00	231.48	231.47	3.34	3.34	96.94	-642.91	5,283.53	5,322.78	5,316.10	6.68	796.761		
300.00	299.98	314.46	314.45	3.44	3.43	23.82	-643.31	5,282.78	5,320.34	5,313.46	6.88	773.806		
400.00	399.84	445.30	445.28	3.60	3.64	23.91	-643.92	5,281.60	5,314.76	5,307.52	7.25	733.526		
500.00	499.45	560.04	560.01	3.81	3.89	24.03	-644.11	5,279.90	5,305.35	5,297.65	7.70	689.279		
600.00	598.70	626.91	626.87	4.08	4.05	24.17	-644.41	5,279.07	5,293.01	5,284.90	8.11	652.759		
700.00	697.47	711.25	711.20	4.40	4.28	24.37	-645.03	5,278.30	5,277.91	5,269.29	8.62	612.139		
774.77	770.92	771.60	771.55	4.68	4.46	24.53	-645.42	5,277.89	5,264.75	5,255.71	9.03	582.771		
800.00	795.65	791.15	791.11	4.78	4.51	24.55	-645.49	5,277.81	5,260.06	5,250.88	9.18	573.166		
900.00	893.64	885.38	885.33	5.20	4.80	24.64	-645.08	5,277.63	5,241.63	5,231.83	9.80	534.737		
1,000.00	991.63	970.74	970.65	5.66	5.07	24.69	-642.63	5,277.74	5,223.23	5,212.80	10.43	500.790		
1,100.00	1,089.63	1,090.85	1,090.54	6.15	5.46	24.72	-635.55	5,278.63	5,205.09	5,193.89	11.20	464.737		
1,200.00	1,187.62	1,520.96	1,518.56	6.65	7.06	24.70	-596.40	5,268.38	5,183.83	5,170.66	13.16	393.804		
1,300.00	1,285.62	1,633.20	1,630.40	7.17	7.51	24.74	-589.96	5,261.51	5,159.04	5,145.03	14.00	368.373		
1,400.00	1,383.61	1,697.00	1,693.95	7.71	7.77	24.77	-585.95	5,257.47	5,134.03	5,119.36	14.68	349.836		
1,500.00	1,481.60	1,753.00	1,749.81	8.25	8.00	24.79	-583.40	5,254.52	5,110.05	5,094.72	15.33	333.369		
1,600.00	1,579.60	1,789.28	1,786.03	8.80	8.15	24.82	-581.91	5,252.95	5,086.99	5,071.07	15.92	319.615		
1,700.00	1,677.59	1,845.00	1,841.63	9.36	8.38	24.84	-578.97	5,251.06	5,064.84	5,048.26	16.59	305.357		
1,800.00	1,775.59	1,952.36	1,948.79	9.92	8.82	24.88	-573.32	5,247.76	5,043.04	5,025.57	17.47	288.744		
1,900.00	1,873.58	2,017.72	2,014.07	10.49	9.10	24.92	-570.60	5,245.83	5,021.45	5,003.26	18.19	276.092		
2,000.00	1,971.57	2,134.43	2,130.66	11.06	9.58	24.99	-566.60	5,242.37	4,999.99	4,980.88	19.11	261.603		
2,100.00	2,069.57	2,175.78	2,171.99	11.64	9.75	25.02	-565.64	5,241.30	4,978.92	4,959.17	19.75	252.061		
2,200.00	2,167.56	2,232.39	2,228.58	12.22	9.98	25.07	-564.93	5,240.25	4,958.78	4,938.32	20.46	242.416		
2,300.00	2,265.56	2,313.94	2,310.11	12.80	10.32	25.14	-563.72	5,239.18	4,939.19	4,917.94	21.26	232.353		
2,400.00	2,363.55	2,463.10	2,459.23	13.38	10.94	25.27	-561.10	5,236.81	4,919.34	4,897.02	22.32	220.368		
2,500.00	2,461.54	2,570.98	2,567.05	13.97	11.39	25.35	-558.98	5,234.25	4,898.68	4,875.44	23.24	210.827		
2,600.00	2,559.54	2,624.12	2,620.19	14.55	11.61	25.41	-558.56	5,233.10	4,878.42	4,854.48	23.94	203.796		
2,700.00	2,657.53	2,674.00	2,670.05	15.14	11.81	25.46	-559.00	5,232.44	4,859.17	4,834.54	24.63	197.295		
2,800.00	2,755.53	2,707.32	2,703.37	15.73	11.94	25.50	-559.50	5,232.37	4,841.07	4,815.81	25.25	191.695		
2,900.00	2,853.52	2,766.00	2,762.04	16.32	12.17	25.57	-560.07	5,233.29	4,824.42	4,798.44	25.97	185.754		
3,000.00	2,951.52	2,809.09	2,805.12	16.91	12.34	25.62	-560.32	5,234.41	4,808.64	4,782.01	26.63	180.558		
3,100.00	3,049.51	2,923.70	2,919.69	17.51	12.78	25.74	-560.96	5,237.02	4,792.91	4,765.36	27.56	173.926		
3,200.00	3,147.50	3,063.55	3,059.51	18.10	13.33	25.89	-562.05	5,239.47	4,776.75	4,748.17	28.58	167.142		
3,300.00	3,245.50	3,177.26	3,173.21	18.70	13.78	26.02	-562.99	5,240.62	4,759.87	4,730.36	29.51	161.300		
3,400.00	3,343.49	3,287.82	3,283.77	19.29	14.22	26.15	-563.91	5,241.55	4,742.85	4,712.42	30.43	155.849		
3,500.00	3,441.49	3,376.96	3,372.90	19.89	14.59	26.25	-563.83	5,242.29	4,725.71	4,694.42	31.28	151.067		
3,600.00	3,539.48	3,469.76	3,465.69	20.48	14.97	26.33	-562.68	5,243.46	4,708.80	4,676.65	32.15	146.452		
3,700.00	3,637.47	3,620.89	3,616.77	21.08	15.60	26.45	-559.09	5,244.63	4,691.20	4,657.95	33.25	141.095		
3,800.00	3,735.47	3,757.25	3,753.11	21.68	16.18	26.58	-557.14	5,244.53	4,673.06	4,638.77	34.29	136.287		
3,900.00	3,833.46	3,844.00	3,839.86	22.27	16.54	26.68	-557.13	5,243.63	4,654.19	4,619.04	35.15	132.422		
4,000.00	3,931.46	3,893.06	3,888.92	22.87	16.74	26.73	-557.38	5,243.39	4,636.06	4,600.20	35.86	129.266		
4,100.00	4,029.45	3,933.00	3,928.85	23.47	16.91	26.79	-558.05	5,243.71	4,619.25	4,582.70	36.55	126.390		
4,200.00	4,127.44	4,029.57	4,025.39	24.07	17.30	26.92	-560.20	5,245.05	4,603.12	4,565.68	37.43	122.966		
4,300.00	4,225.44	4,103.50	4,099.29	24.67	17.60	27.02	-561.74	5,246.30	4,587.27	4,549.03	38.24	119.961		
4,400.00	4,323.43	4,400.00	4,236.03	25.27	18.82	27.20	-563.81	5,249.05	4,571.83	4,531.89	39.94	114.460		
4,507.81	4,429.08	4,429.71	4,425.43	25.92	18.95	27.43	-564.67	5,249.33	4,552.67	4,512.12	40.56	112.254		
4,600.00	4,519.70	4,531.01	4,526.74	26.45	19.37	27.40	-564.85	5,248.67	4,537.05	4,495.62	41.42	109.527		
4,700.00	4,618.56	4,655.91	4,651.63	26.98	19.90	27.37	-564.63	5,247.58	4,522.78	4,480.38	42.40	106.665		
4,800.00	4,717.88	4,757.46	4,753.17	27.46	20.33	27.33	-564.20	5,246.21	4,511.08	4,467.80	43.28	104.230		
4,900.00	4,817.54	4,825.00	4,820.71	27.89	20.62	27.29	-564.19	5,245.62	4,502.99	4,458.97	44.02	102.293		
5,000.00	4,917.43	4,913.84	4,909.55	28.28	21.00	27.28	-564.30	5,245.25	4,498.48	4,453.67	44.82	100.377		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 169-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,998.05	4,993.76	28.57	21.35	100.42	-564.52	5,244.91	4,497.13	4,451.64	45.49	98.856		
5,100.00	5,017.42	5,015.34	5,011.05	28.62	21.43	100.42	-564.60	5,244.82	4,497.07	4,451.44	45.63	98.554		
5,200.00	5,117.42	5,122.09	5,117.79	28.95	21.88	100.43	-565.19	5,244.31	4,496.70	4,450.24	46.45	96.801		
5,300.00	5,217.42	5,234.67	5,230.36	29.28	22.35	100.45	-566.21	5,243.24	4,495.92	4,448.62	47.30	95.054		
5,400.00	5,317.42	5,334.07	5,329.75	29.62	22.77	100.47	-567.62	5,242.21	4,495.15	4,447.05	48.10	93.453		
5,500.00	5,417.42	5,439.73	5,435.40	29.96	23.22	100.48	-568.20	5,241.20	4,494.31	4,445.38	48.93	91.858		
5,600.00	5,517.42	5,559.49	5,555.15	30.29	23.73	100.48	-568.02	5,239.79	4,493.11	4,443.31	49.80	90.216		
5,700.00	5,617.42	5,627.00	5,622.63	30.64	24.02	100.50	-569.48	5,238.64	4,491.93	4,441.43	50.50	88.945		
5,789.65	5,707.07	5,688.46	5,684.07	30.95	24.27	100.52	-571.02	5,237.98	4,491.47	4,440.35	51.13	87.846 CC		
5,800.00	5,717.42	5,693.98	5,689.59	30.98	24.30	100.52	-571.13	5,237.97	4,491.48	4,440.28	51.20	87.732		
5,900.00	5,817.42	5,789.00	5,784.59	31.33	24.70	100.54	-572.75	5,238.03	4,491.84	4,439.86	51.99	86.402		
6,000.00	5,917.42	5,895.86	5,891.42	31.68	25.15	100.57	-575.01	5,237.73	4,491.96	4,439.13	52.83	85.034		
6,100.00	6,017.42	5,966.52	5,962.08	32.03	25.44	100.58	-575.77	5,237.87	4,492.35	4,438.82	53.53	83.919		
6,200.00	6,117.42	6,108.05	6,103.61	32.38	26.04	100.58	-575.84	5,238.24	4,492.61	4,438.12	54.49	82.442		
6,300.00	6,217.42	6,204.52	6,200.06	32.74	26.45	100.60	-577.32	5,237.79	4,492.45	4,437.15	55.30	81.236		
6,357.13	6,274.56	6,259.53	6,255.07	32.94	26.68	100.60	-577.44	5,237.72	4,492.39	4,436.63	55.76	80.565 ES		
6,400.00	6,317.42	6,253.00	6,248.54	33.09	26.65	100.60	-577.47	5,237.72	4,492.63	4,436.69	55.93	80.322		
6,476.01	6,393.43	6,301.72	6,297.26	33.37	26.85	100.60	-577.32	5,238.13	4,493.37	4,436.91	56.45	79.597		
6,500.00	6,417.42	6,311.02	6,306.55	33.45	26.89	-167.05	-577.29	5,238.30	4,494.24	4,437.65	56.59	79.420		
6,550.00	6,467.25	6,342.00	6,337.53	33.59	27.02	-166.96	-577.22	5,239.10	4,499.16	4,442.26	56.90	79.072		
6,600.00	6,516.64	6,342.00	6,337.53	33.71	27.02	-166.78	-577.22	5,239.10	4,508.15	4,451.07	57.08	78.986 SF		
6,650.00	6,565.26	6,342.00	6,337.53	33.80	27.02	-166.49	-577.22	5,239.10	4,521.38	4,464.15	57.23	79.005		
6,700.00	6,612.83	6,342.00	6,337.53	33.88	27.02	-166.10	-577.22	5,239.10	4,538.75	4,481.39	57.36	79.128		
6,750.00	6,659.04	6,384.08	6,379.56	33.94	27.20	-165.65	-576.84	5,241.03	4,559.36	4,501.71	57.65	79.092		
6,800.00	6,703.62	6,395.38	6,390.83	33.99	27.24	-165.02	-576.63	5,241.75	4,584.05	4,526.26	57.79	79.328		
6,850.00	6,746.28	6,431.00	6,426.33	34.03	27.39	-164.31	-575.71	5,244.60	4,612.51	4,554.49	58.01	79.509		
6,900.00	6,786.76	6,431.00	6,426.33	34.08	27.39	-163.30	-575.71	5,244.60	4,643.83	4,585.76	58.07	79.971		
6,950.00	6,824.83	6,431.00	6,426.33	34.13	27.39	-162.02	-575.71	5,244.60	4,678.29	4,620.18	58.11	80.510		
7,000.00	6,860.23	6,431.00	6,426.33	34.20	27.39	-160.40	-575.71	5,244.60	4,715.60	4,657.47	58.13	81.118		
7,050.00	6,892.75	6,431.00	6,426.33	34.30	27.39	-158.29	-575.71	5,244.60	4,755.47	4,697.33	58.14	81.787		
7,100.00	6,922.20	6,431.00	6,426.33	34.43	27.39	-155.53	-575.71	5,244.60	4,797.59	4,739.45	58.15	82.509		
7,150.00	6,948.38	6,431.00	6,426.33	34.60	27.39	-151.80	-575.71	5,244.60	4,841.66	4,783.52	58.14	83.274		
7,200.00	6,971.15	6,431.00	6,426.33	34.82	27.39	-146.62	-575.71	5,244.60	4,887.34	4,829.21	58.13	84.073		
7,250.00	6,990.35	6,431.00	6,426.33	35.09	27.39	-139.16	-575.71	5,244.60	4,934.32	4,876.20	58.12	84.896		
7,300.00	7,005.87	6,431.00	6,426.33	35.43	27.39	-128.12	-575.71	5,244.60	4,982.27	4,924.16	58.11	85.736		
7,350.00	7,017.62	6,463.39	6,458.53	35.81	27.53	-113.58	-574.81	5,247.90	5,030.44	4,972.17	58.26	86.341		
7,400.00	7,025.52	6,463.93	6,459.06	36.26	27.53	-92.85	-574.79	5,247.97	5,079.37	5,021.10	58.26	87.179		
7,450.00	7,029.52	6,463.54	6,458.68	36.75	27.53	-71.12	-574.80	5,247.92	5,128.36	5,070.09	58.27	88.013		
7,483.86	7,030.00	6,431.00	6,426.33	37.12	27.39	-57.38	-575.71	5,244.60	5,161.84	5,103.72	58.12	88.812		
7,500.00	7,029.80	6,431.00	6,426.33	37.30	27.39	-57.38	-575.71	5,244.60	5,177.54	5,119.41	58.13	89.074		
7,600.00	7,028.57	6,431.00	6,426.33	38.58	27.39	-57.38	-575.71	5,244.60	5,274.90	5,216.73	58.17	90.677		
7,700.00	7,027.34	6,431.00	6,426.33	40.10	27.39	-57.38	-575.71	5,244.60	5,372.36	5,314.14	58.23	92.263		
7,800.00	7,026.10	6,431.00	6,426.33	41.83	27.39	-57.38	-575.71	5,244.60	5,469.92	5,411.62	58.29	93.833		
7,900.00	7,024.87	6,431.00	6,426.33	43.74	27.39	-57.38	-575.71	5,244.60	5,567.55	5,509.19	58.37	95.389		
8,000.00	7,023.63	6,431.00	6,426.33	45.82	27.39	-57.38	-575.71	5,244.60	5,665.28	5,606.83	58.45	96.930		
8,100.00	7,022.40	6,431.00	6,426.33	48.04	27.39	-57.38	-575.71	5,244.60	5,763.07	5,704.54	58.53	98.458		
8,200.00	7,021.17	6,431.00	6,426.33	50.38	27.39	-57.38	-575.71	5,244.60	5,860.95	5,802.32	58.63	99.973		
8,300.00	7,019.93	6,431.00	6,426.33	52.82	27.39	-57.38	-575.71	5,244.60	5,958.89	5,900.17	58.72	101.476		
8,400.00	7,018.70	6,431.00	6,426.33	55.35	27.39	-57.38	-575.71	5,244.60	6,056.90	5,998.08	58.82	102.967		
8,500.00	7,017.47	6,431.00	6,426.33	57.97	27.39	-57.38	-575.71	5,244.60	6,154.98	6,096.05	58.93	104.448		
8,600.00	7,016.23	6,431.00	6,426.33	60.65	27.39	-57.38	-575.71	5,244.60	6,253.12	6,194.08	59.04	105.918		
8,700.00	7,015.00	6,431.00	6,426.33	63.39	27.39	-57.38	-575.71	5,244.60	6,351.31	6,292.16	59.15	107.378		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 169-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,431.00	6,426.33	66.19	27.39	-57.38	-575.71	5,244.60	6,449.56	6,390.30	59.26	108.829		
8,900.00	7,012.53	6,431.00	6,426.33	69.03	27.39	-57.38	-575.71	5,244.60	6,547.86	6,488.48	59.38	110.271		
9,000.00	7,011.30	6,431.00	6,426.33	71.91	27.39	-57.38	-575.71	5,244.60	6,646.22	6,586.72	59.50	111.704		
9,100.00	7,010.06	6,431.00	6,426.33	74.83	27.39	-57.38	-575.71	5,244.60	6,744.62	6,685.00	59.62	113.130		
9,200.00	7,008.83	6,431.00	6,426.33	77.78	27.39	-57.38	-575.71	5,244.60	6,843.07	6,783.33	59.74	114.547		
9,300.00	7,007.60	6,431.00	6,426.33	80.76	27.39	-57.38	-575.71	5,244.60	6,941.56	6,881.70	59.86	115.957		
9,400.00	7,006.36	6,431.00	6,426.33	83.76	27.39	-57.38	-575.71	5,244.60	7,040.09	6,980.11	59.99	117.359		
9,500.00	7,005.13	6,431.00	6,426.33	86.79	27.39	-57.38	-575.71	5,244.60	7,138.67	7,078.56	60.11	118.755		
9,600.00	7,003.90	6,431.00	6,426.33	89.84	27.39	-57.38	-575.71	5,244.60	7,237.28	7,177.05	60.24	120.144		
9,700.00	7,002.66	6,431.00	6,426.33	92.90	27.39	-57.38	-575.71	5,244.60	7,335.94	7,275.57	60.37	121.526		
9,800.00	7,001.43	6,431.00	6,426.33	95.99	27.39	-57.38	-575.71	5,244.60	7,434.63	7,374.13	60.49	122.902		
9,900.00	7,000.19	6,431.00	6,426.33	99.08	27.39	-57.38	-575.71	5,244.60	7,533.35	7,472.73	60.62	124.273		
10,000.00	6,998.96	6,431.00	6,426.33	102.19	27.39	-57.38	-575.71	5,244.60	7,632.10	7,571.36	60.75	125.637		
10,100.00	6,997.73	6,431.00	6,426.33	105.32	27.39	-57.38	-575.71	5,244.60	7,730.89	7,670.02	60.88	126.996		
10,200.00	6,996.49	6,431.00	6,426.33	108.45	27.39	-57.38	-575.71	5,244.60	7,829.71	7,768.71	61.00	128.349		
10,300.00	6,995.26	6,431.00	6,426.33	111.60	27.39	-57.38	-575.71	5,244.60	7,928.56	7,867.43	61.13	129.696		
10,400.00	6,994.03	6,431.00	6,426.33	114.75	27.39	-57.38	-575.71	5,244.60	8,027.44	7,966.18	61.26	131.039		
10,500.00	6,992.79	6,431.00	6,426.33	117.92	27.39	-57.38	-575.71	5,244.60	8,126.34	8,064.95	61.39	132.376		
10,600.00	6,991.56	6,431.00	6,426.33	121.09	27.39	-57.38	-575.71	5,244.60	8,225.27	8,163.76	61.52	133.708		
10,700.00	6,990.33	6,431.00	6,426.33	124.27	27.39	-57.38	-575.71	5,244.60	8,324.23	8,262.59	61.64	135.036		
10,800.00	6,989.09	6,431.00	6,426.33	127.46	27.39	-57.38	-575.71	5,244.60	8,423.21	8,361.44	61.77	136.358		
10,900.00	6,987.86	6,431.00	6,426.33	130.65	27.39	-57.38	-575.71	5,244.60	8,522.22	8,460.32	61.90	137.676		
11,000.00	6,986.62	6,431.00	6,426.33	133.85	27.39	-57.38	-575.71	5,244.60	8,621.24	8,559.22	62.03	138.989		
11,100.00	6,985.39	6,431.00	6,426.33	137.06	27.39	-57.38	-575.71	5,244.60	8,720.29	8,658.14	62.16	140.298		
11,200.00	6,984.16	6,393.34	6,388.79	140.27	27.24	-55.91	-576.67	5,241.61	8,818.82	8,756.65	62.17	141.861		
11,300.00	6,982.92	6,392.18	6,387.64	143.48	27.23	-55.86	-576.70	5,241.54	8,917.88	8,855.59	62.29	143.168		
11,400.00	6,981.69	6,391.05	6,386.51	146.70	27.23	-55.82	-576.72	5,241.46	9,016.96	8,954.54	62.41	144.471		
11,500.00	6,980.46	6,389.94	6,385.40	149.92	27.22	-55.78	-576.74	5,241.39	9,116.05	9,053.52	62.54	145.769		
11,600.00	6,979.22	6,388.85	6,384.32	153.15	27.22	-55.74	-576.76	5,241.32	9,215.17	9,152.51	62.66	147.063		
11,700.00	6,977.99	6,387.78	6,383.25	156.38	27.21	-55.70	-576.78	5,241.26	9,314.30	9,251.52	62.79	148.352		
11,800.00	6,976.75	6,386.74	6,382.21	159.62	27.21	-55.66	-576.79	5,241.19	9,413.46	9,350.55	62.91	149.637		
11,900.00	6,975.52	6,385.71	6,381.19	162.86	27.20	-55.62	-576.81	5,241.13	9,512.63	9,449.59	63.03	150.918		
12,000.00	6,974.29	6,384.70	6,380.18	166.10	27.20	-55.58	-576.83	5,241.07	9,611.81	9,548.66	63.15	152.195		
12,100.00	6,973.05	6,383.72	6,379.19	169.34	27.20	-55.54	-576.84	5,241.01	9,711.01	9,647.73	63.28	153.467		
12,200.00	6,971.82	6,382.75	6,378.23	172.59	27.19	-55.50	-576.86	5,240.95	9,810.23	9,746.83	63.40	154.735		
12,300.00	6,970.59	6,381.79	6,377.28	175.84	27.19	-55.47	-576.88	5,240.89	9,909.46	9,845.94	63.52	155.999		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 80-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	97.06	-650.08	5,245.55	5,285.72					
100.00	100.00	91.45	91.45	3.28	3.29	97.07	-650.95	5,245.32	5,285.58	5,279.01	6.57	804.183		
200.00	200.00	205.72	205.70	3.34	3.36	97.10	-653.02	5,244.48	5,285.06	5,278.36	6.70	789.070		
300.00	299.98	291.32	291.28	3.44	3.46	23.99	-654.38	5,243.98	5,283.08	5,276.17	6.91	765.000		
400.00	399.84	388.17	388.12	3.60	3.62	24.07	-655.83	5,243.57	5,278.06	5,270.84	7.22	730.672		
500.00	499.45	535.14	535.07	3.81	3.94	24.22	-657.95	5,242.65	5,269.77	5,262.02	7.75	679.987		
600.00	598.70	676.96	676.75	4.08	4.32	24.46	-663.10	5,239.54	5,256.86	5,248.48	8.38	627.059		
700.00	697.47	742.00	741.62	4.40	4.52	24.69	-667.46	5,237.86	5,240.95	5,232.09	8.87	591.157		
774.77	770.92	783.12	782.60	4.68	4.66	24.88	-670.79	5,236.98	5,227.50	5,218.26	9.24	566.029		
800.00	795.65	795.26	794.70	4.78	4.70	24.90	-671.79	5,236.78	5,222.79	5,213.43	9.36	557.979		
900.00	893.64	837.00	836.29	5.20	4.84	24.98	-675.29	5,236.31	5,204.72	5,194.88	9.84	528.926		
1,000.00	991.63	883.42	882.53	5.66	5.00	25.07	-679.42	5,236.23	5,187.68	5,177.31	10.37	500.400		
1,100.00	1,089.63	930.00	928.88	6.15	5.16	25.16	-683.90	5,236.67	5,171.77	5,160.85	10.92	473.651		
1,200.00	1,187.62	930.00	928.88	6.65	5.16	25.16	-683.90	5,236.67	5,157.25	5,145.92	11.33	455.348		
1,300.00	1,285.62	987.85	986.41	7.17	5.37	25.28	-689.73	5,238.25	5,143.61	5,131.66	11.95	430.290		
1,400.00	1,383.61	1,025.00	1,023.33	7.71	5.51	25.36	-693.54	5,240.00	5,131.53	5,119.00	12.52	409.825		
1,500.00	1,481.60	1,500.00	1,301.98	8.25	7.35	25.82	-712.04	5,250.73	5,118.18	5,103.41	14.77	346.632		
1,600.00	1,579.60	1,361.18	1,358.55	8.80	6.79	25.90	-714.48	5,252.20	5,103.47	5,088.81	14.66	348.145		
1,700.00	1,677.59	1,418.23	1,415.50	9.36	7.01	25.98	-717.09	5,254.34	5,089.80	5,074.47	15.33	331.933		
1,800.00	1,775.59	1,508.60	1,505.62	9.92	7.38	26.12	-722.74	5,257.89	5,076.65	5,060.50	16.15	314.358		
1,900.00	1,873.58	1,621.93	1,618.67	10.49	7.85	26.31	-729.43	5,262.12	5,063.28	5,046.21	17.07	296.655		
2,000.00	1,971.57	1,781.70	1,778.13	11.06	8.51	26.55	-737.84	5,267.31	5,049.44	5,031.27	18.18	277.772		
2,100.00	2,069.57	1,854.00	1,850.33	11.64	8.81	26.66	-741.02	5,269.46	5,035.17	5,016.22	18.95	265.772		
2,200.00	2,167.56	1,939.24	1,935.43	12.22	9.17	26.79	-745.12	5,272.26	5,021.30	5,001.53	19.77	253.970		
2,300.00	2,265.56	1,992.10	1,988.18	12.80	9.40	26.87	-747.86	5,274.24	5,008.01	4,987.54	20.47	244.631		
2,400.00	2,363.55	2,045.02	2,040.96	13.38	9.62	26.95	-750.71	5,276.74	4,995.69	4,974.51	21.17	235.924		
2,500.00	2,461.54	2,139.99	2,135.69	13.97	10.03	27.09	-755.34	5,281.75	4,983.87	4,961.82	22.05	226.013		
2,600.00	2,559.54	2,253.93	2,249.31	14.55	10.52	27.27	-761.54	5,287.53	4,972.00	4,948.99	23.01	216.040		
2,700.00	2,657.53	2,359.74	2,354.75	15.14	10.99	27.46	-769.05	5,292.17	4,959.78	4,935.82	23.96	207.024		
2,800.00	2,755.53	2,459.19	2,453.87	15.73	11.44	27.64	-775.87	5,296.69	4,947.73	4,922.85	24.88	198.886		
2,900.00	2,853.52	2,569.04	2,563.42	16.32	11.92	27.82	-782.22	5,301.62	4,935.46	4,909.62	25.84	191.010		
3,000.00	2,951.52	2,753.28	2,747.20	16.91	12.75	28.14	-793.78	5,307.26	4,921.66	4,894.54	27.12	181.476		
3,100.00	3,049.51	2,873.85	2,867.35	17.51	13.29	28.38	-803.43	5,309.71	4,907.55	4,879.41	28.15	174.352		
3,200.00	3,147.50	2,993.67	2,986.93	18.10	13.83	28.59	-810.72	5,312.01	4,893.02	4,863.86	29.16	167.787		
3,300.00	3,245.50	3,142.99	3,136.08	18.70	14.48	28.83	-817.38	5,314.18	4,877.78	4,847.49	30.29	161.054		
3,400.00	3,343.49	3,303.66	3,296.72	19.29	15.16	29.05	-820.11	5,314.87	4,860.78	4,829.35	31.43	154.655		
3,500.00	3,441.49	3,414.54	3,407.59	19.89	15.63	29.18	-820.81	5,315.17	4,843.68	4,811.30	32.38	149.591		
3,600.00	3,539.48	3,480.49	3,473.54	20.48	15.90	29.27	-821.17	5,315.50	4,826.78	4,793.62	33.16	145.547		
3,700.00	3,637.47	3,559.84	3,552.88	21.08	16.23	29.36	-821.49	5,316.33	4,810.42	4,776.43	33.99	141.508		
3,800.00	3,735.47	3,668.56	3,661.60	21.68	16.68	29.49	-821.84	5,317.65	4,794.23	4,759.30	34.93	137.253		
3,900.00	3,833.46	3,762.12	3,755.16	22.27	17.06	29.60	-821.82	5,318.70	4,777.89	4,742.08	35.81	133.430		
4,000.00	3,931.46	3,858.47	3,851.49	22.87	17.45	29.71	-821.81	5,319.87	4,761.66	4,724.96	36.70	129.749		
4,100.00	4,029.45	3,977.83	3,970.85	23.47	17.94	29.85	-821.77	5,321.02	4,745.19	4,707.52	37.67	125.957		
4,200.00	4,127.44	4,064.76	4,057.78	24.07	18.30	29.96	-822.10	5,321.62	4,728.59	4,690.05	38.54	122.685		
4,300.00	4,225.44	4,196.75	4,189.75	24.67	18.87	30.14	-824.18	5,322.60	4,712.46	4,672.88	39.59	119.044		
4,400.00	4,323.43	4,306.52	4,299.51	25.27	19.33	30.28	-824.40	5,322.59	4,695.18	4,654.64	40.54	115.811		
4,507.81	4,429.08	4,413.08	4,406.08	25.92	19.76	30.42	-824.46	5,322.58	4,676.55	4,635.04	41.51	112.652		
4,600.00	4,519.70	4,517.77	4,510.77	26.45	20.18	30.39	-824.44	5,322.53	4,661.86	4,619.49	42.38	110.012		
4,700.00	4,618.56	4,641.60	4,634.59	26.98	20.66	30.36	-824.19	5,321.75	4,648.17	4,604.85	43.32	107.299		
4,800.00	4,717.88	4,735.19	4,728.18	27.46	21.03	30.32	-824.01	5,321.02	4,637.36	4,593.21	44.15	105.045		
4,900.00	4,817.54	4,813.50	4,806.48	27.89	21.34	30.28	-823.80	5,320.66	4,629.85	4,584.94	44.90	103.108		
5,000.00	4,917.43	4,899.25	4,892.24	28.28	21.67	30.26	-823.40	5,320.69	4,625.77	4,580.11	45.66	101.309		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 80-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,995.89	4,988.88	28.57	22.06	103.40	-822.67	5,320.83	4,624.73	4,578.38	46.35	99.785		
5,100.00	5,017.42	5,018.68	5,011.66	28.62	22.14	103.40	-822.51	5,320.79	4,624.67	4,578.17	46.50	99.461		
5,200.00	5,117.42	5,127.13	5,120.11	28.95	22.57	103.39	-822.11	5,320.38	4,624.22	4,576.92	47.29	97.774		
5,300.00	5,217.42	5,223.70	5,216.68	29.28	22.97	103.40	-822.12	5,319.78	4,623.62	4,575.55	48.07	96.191		
5,400.00	5,317.42	5,308.03	5,301.01	29.62	23.32	103.40	-822.57	5,319.45	4,623.35	4,574.54	48.81	94.718		
5,500.00	5,417.42	5,418.43	5,411.40	29.96	23.79	103.42	-823.64	5,318.99	4,623.17	4,573.52	49.65	93.109		
5,600.00	5,517.42	5,569.50	5,562.44	30.29	24.40	103.40	-822.19	5,317.85	4,622.20	4,571.59	50.61	91.335		
5,700.00	5,617.42	5,657.94	5,650.85	30.64	24.75	103.38	-819.97	5,317.17	4,620.87	4,569.52	51.35	89.990		
5,800.00	5,717.42	5,748.12	5,741.02	30.98	25.11	103.36	-818.55	5,316.44	4,619.72	4,567.62	52.10	88.669		
5,900.00	5,817.42	5,833.27	5,826.16	31.33	25.45	103.36	-818.01	5,315.87	4,618.92	4,566.07	52.84	87.407		
6,000.00	5,917.42	5,938.98	5,931.87	31.68	25.89	103.36	-818.28	5,314.97	4,618.15	4,564.48	53.67	86.054		
6,100.00	6,017.42	6,032.29	6,025.18	32.03	26.28	103.37	-818.93	5,314.07	4,617.37	4,562.91	54.46	84.790		
6,200.00	6,117.42	6,133.23	6,126.11	32.38	26.71	103.39	-820.12	5,313.18	4,616.79	4,561.51	55.28	83.518		
6,300.00	6,217.42	6,210.44	6,203.30	32.74	27.04	103.41	-821.21	5,312.42	4,616.20	4,560.18	56.02	82.404		
6,320.64	6,238.06	6,222.20	6,215.06	32.81	27.09	103.41	-821.29	5,312.39	4,616.18	4,560.02	56.16	82.201 CC		
6,400.00	6,317.42	6,287.83	6,280.69	33.09	27.36	103.41	-821.35	5,312.63	4,616.44	4,559.69	56.76	81.339		
6,437.49	6,354.91	6,437.49	6,327.07	33.23	27.99	103.41	-821.40	5,312.56	4,616.38	4,558.85	57.52	80.253 ES		
6,476.01	6,393.43	6,349.00	6,341.86	33.37	27.62	103.41	-821.40	5,312.58	4,616.48	4,559.16	57.32	80.537		
6,500.00	6,417.42	6,379.21	6,372.07	33.45	27.75	-164.25	-821.43	5,312.58	4,616.89	4,559.36	57.53	80.246		
6,550.00	6,467.25	6,400.27	6,393.13	33.59	27.83	-164.15	-821.41	5,312.76	4,620.99	4,563.17	57.81	79.928		
6,600.00	6,516.64	6,438.00	6,430.85	33.71	27.99	-163.97	-821.29	5,313.43	4,629.21	4,571.07	58.14	79.625		
6,650.00	6,565.26	6,438.00	6,430.85	33.80	27.99	-163.66	-821.29	5,313.43	4,641.28	4,582.97	58.31	79.601 SF		
6,700.00	6,612.83	6,438.00	6,430.85	33.88	27.99	-163.22	-821.29	5,313.43	4,657.46	4,599.01	58.45	79.680		
6,750.00	6,659.04	6,438.00	6,430.85	33.94	27.99	-162.64	-821.29	5,313.43	4,677.61	4,619.03	58.57	79.858		
6,800.00	6,703.62	6,438.00	6,430.85	33.99	27.99	-161.89	-821.29	5,313.43	4,701.54	4,642.87	58.67	80.130		
6,850.00	6,746.28	6,477.68	6,470.49	34.03	28.16	-161.06	-821.01	5,315.04	4,728.28	4,669.36	58.91	80.256		
6,900.00	6,786.76	6,485.84	6,478.64	34.08	28.19	-159.93	-820.92	5,315.54	4,758.80	4,699.79	59.01	80.641		
6,950.00	6,824.83	6,493.36	6,486.14	34.13	28.22	-158.51	-820.84	5,316.04	4,792.40	4,733.31	59.09	81.103		
7,000.00	6,860.23	6,527.00	6,519.66	34.20	28.36	-156.88	-820.39	5,318.87	4,829.18	4,769.91	59.27	81.484		
7,050.00	6,892.75	6,527.00	6,519.66	34.30	28.36	-154.60	-820.39	5,318.87	4,867.99	4,808.71	59.29	82.109		
7,100.00	6,922.20	6,527.00	6,519.66	34.43	28.36	-151.65	-820.39	5,318.87	4,909.12	4,849.82	59.30	82.787		
7,150.00	6,948.38	6,527.00	6,519.66	34.60	28.36	-147.78	-820.39	5,318.87	4,952.25	4,892.95	59.30	83.509		
7,200.00	6,971.15	6,527.00	6,519.66	34.82	28.36	-142.57	-820.39	5,318.87	4,997.07	4,937.77	59.30	84.267		
7,250.00	6,990.35	6,527.00	6,519.66	35.09	28.36	-135.45	-820.39	5,318.87	5,043.26	4,983.96	59.30	85.052		
7,300.00	7,005.87	6,527.00	6,519.66	35.43	28.36	-125.58	-820.39	5,318.87	5,090.50	5,031.21	59.29	85.854		
7,350.00	7,017.62	6,527.00	6,519.66	35.81	28.36	-112.16	-820.39	5,318.87	5,138.47	5,079.18	59.29	86.664		
7,400.00	7,025.52	6,527.00	6,519.66	36.26	28.36	-95.36	-820.39	5,318.87	5,186.87	5,127.58	59.30	87.475		
7,450.00	7,029.52	6,527.00	6,519.66	36.75	28.36	-77.40	-820.39	5,318.87	5,235.39	5,176.09	59.31	88.278		
7,483.86	7,030.00	6,527.00	6,519.66	37.12	28.36	-66.27	-820.39	5,318.87	5,268.17	5,208.85	59.32	88.813		
7,500.00	7,029.80	6,527.00	6,519.66	37.30	28.36	-66.27	-820.39	5,318.87	5,283.75	5,224.43	59.32	89.066		
7,600.00	7,028.57	6,527.00	6,519.66	38.58	28.36	-66.27	-820.39	5,318.87	5,380.41	5,321.03	59.38	90.612		
7,700.00	7,027.34	6,527.00	6,519.66	40.10	28.36	-66.27	-820.39	5,318.87	5,477.19	5,417.74	59.45	92.135		
7,800.00	7,026.10	6,527.00	6,519.66	41.83	28.36	-66.27	-820.39	5,318.87	5,574.08	5,514.55	59.53	93.635		
7,900.00	7,024.87	6,527.00	6,519.66	43.74	28.36	-66.27	-820.39	5,318.87	5,671.07	5,611.45	59.62	95.114		
8,000.00	7,023.63	6,527.00	6,519.66	45.82	28.36	-66.27	-820.39	5,318.87	5,768.18	5,708.45	59.73	96.573		
8,100.00	7,022.40	6,527.00	6,519.66	48.04	28.36	-66.27	-820.39	5,318.87	5,865.37	5,805.53	59.84	98.014		
8,200.00	7,021.17	6,527.00	6,519.66	50.38	28.36	-66.27	-820.39	5,318.87	5,962.67	5,902.70	59.96	99.437		
8,300.00	7,019.93	6,527.00	6,519.66	52.82	28.36	-66.27	-820.39	5,318.87	6,060.04	5,999.95	60.09	100.844		
8,400.00	7,018.70	6,527.00	6,519.66	55.35	28.36	-66.27	-820.39	5,318.87	6,157.51	6,097.28	60.23	102.235		
8,500.00	7,017.47	6,527.00	6,519.66	57.97	28.36	-66.27	-820.39	5,318.87	6,255.05	6,194.68	60.37	103.612		
8,600.00	7,016.23	6,527.00	6,519.66	60.65	28.36	-66.27	-820.39	5,318.87	6,352.67	6,292.15	60.52	104.976		
8,700.00	7,015.00	6,527.00	6,519.66	63.39	28.36	-66.27	-820.39	5,318.87	6,450.36	6,389.70	60.67	106.327		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 80-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,527.00	6,519.66	66.19	28.36	-66.27	-820.39	5,318.87	6,548.13	6,487.31	60.82	107.666		
8,900.00	7,012.53	6,527.00	6,519.66	69.03	28.36	-66.27	-820.39	5,318.87	6,645.95	6,584.98	60.98	108.993		
9,000.00	7,011.30	6,527.00	6,519.66	71.91	28.36	-66.27	-820.39	5,318.87	6,743.85	6,682.71	61.14	110.310		
9,100.00	7,010.06	6,527.00	6,519.66	74.83	28.36	-66.27	-820.39	5,318.87	6,841.80	6,780.50	61.30	111.617		
9,200.00	7,008.83	6,527.00	6,519.66	77.78	28.36	-66.27	-820.39	5,318.87	6,939.81	6,878.35	61.46	112.915		
9,300.00	7,007.60	6,527.00	6,519.66	80.76	28.36	-66.27	-820.39	5,318.87	7,037.88	6,976.25	61.63	114.204		
9,400.00	7,006.36	6,527.00	6,519.66	83.76	28.36	-66.27	-820.39	5,318.87	7,136.00	7,074.21	61.79	115.485		
9,500.00	7,005.13	6,527.00	6,519.66	86.79	28.36	-66.27	-820.39	5,318.87	7,234.17	7,172.22	61.96	116.757		
9,600.00	7,003.90	6,527.00	6,519.66	89.84	28.36	-66.27	-820.39	5,318.87	7,332.40	7,270.27	62.13	118.023		
9,700.00	7,002.66	6,527.00	6,519.66	92.90	28.36	-66.27	-820.39	5,318.87	7,430.67	7,368.37	62.30	119.281		
9,800.00	7,001.43	6,527.00	6,519.66	95.99	28.36	-66.27	-820.39	5,318.87	7,528.98	7,466.52	62.46	120.532		
9,900.00	7,000.19	6,489.32	6,482.12	99.08	28.21	-64.86	-820.89	5,315.76	7,626.67	7,564.17	62.50	122.021		
10,000.00	6,998.96	6,488.23	6,481.03	102.19	28.20	-64.82	-820.90	5,315.69	7,725.03	7,662.36	62.67	123.266		
10,100.00	6,997.73	6,487.17	6,479.97	105.32	28.20	-64.78	-820.91	5,315.62	7,823.44	7,760.60	62.84	124.506		
10,200.00	6,996.49	6,486.13	6,478.93	108.45	28.19	-64.74	-820.92	5,315.55	7,921.88	7,858.88	63.00	125.739		
10,300.00	6,995.26	6,485.11	6,477.91	111.60	28.19	-64.70	-820.93	5,315.49	8,020.36	7,957.19	63.17	126.968		
10,400.00	6,994.03	6,484.11	6,476.92	114.75	28.18	-64.66	-820.94	5,315.43	8,118.87	8,055.54	63.33	128.190		
10,500.00	6,992.79	6,483.14	6,475.95	117.92	28.18	-64.63	-820.95	5,315.37	8,217.42	8,153.92	63.50	129.408		
10,600.00	6,991.56	6,482.19	6,474.99	121.09	28.18	-64.59	-820.96	5,315.31	8,316.01	8,252.34	63.67	130.621		
10,700.00	6,990.33	6,481.25	6,474.06	124.27	28.17	-64.56	-820.97	5,315.25	8,414.63	8,350.80	63.83	131.829		
10,800.00	6,989.09	6,480.34	6,473.15	127.46	28.17	-64.52	-820.98	5,315.20	8,513.27	8,449.28	63.99	133.033		
10,900.00	6,987.86	6,479.44	6,472.26	130.65	28.17	-64.49	-820.99	5,315.14	8,611.95	8,547.80	64.16	134.232		
11,000.00	6,986.62	6,478.57	6,471.38	133.85	28.16	-64.46	-821.00	5,315.09	8,710.66	8,646.34	64.32	135.427		
11,100.00	6,985.39	6,477.71	6,470.53	137.06	28.16	-64.42	-821.01	5,315.04	8,809.40	8,744.92	64.48	136.618		
11,200.00	6,984.16	6,476.87	6,469.69	140.27	28.15	-64.39	-821.01	5,315.00	8,908.16	8,843.52	64.64	137.804		
11,300.00	6,982.92	6,438.00	6,430.85	143.48	27.99	-62.97	-821.29	5,313.43	9,007.63	8,942.95	64.68	139.262		
11,400.00	6,981.69	6,438.00	6,430.85	146.70	27.99	-62.97	-821.29	5,313.43	9,106.42	9,041.57	64.84	140.434		
11,500.00	6,980.46	6,438.00	6,430.85	149.92	27.99	-62.97	-821.29	5,313.43	9,205.23	9,140.22	65.01	141.604		
11,600.00	6,979.22	6,438.00	6,430.85	153.15	27.99	-62.97	-821.29	5,313.43	9,304.07	9,238.90	65.17	142.770		
11,700.00	6,977.99	6,438.00	6,430.85	156.38	27.99	-62.97	-821.29	5,313.43	9,402.93	9,337.60	65.33	143.932		
11,800.00	6,976.75	6,438.00	6,430.85	159.62	27.99	-62.97	-821.29	5,313.43	9,501.82	9,436.33	65.49	145.091		
11,900.00	6,975.52	6,438.00	6,430.85	162.86	27.99	-62.97	-821.29	5,313.43	9,600.73	9,535.08	65.65	146.246		
12,000.00	6,974.29	6,438.00	6,430.85	166.10	27.99	-62.97	-821.29	5,313.43	9,699.67	9,633.86	65.81	147.398		
12,100.00	6,973.05	6,438.00	6,430.85	169.34	27.99	-62.97	-821.29	5,313.43	9,798.62	9,732.66	65.96	148.547		
12,200.00	6,971.82	6,438.00	6,430.85	172.59	27.99	-62.97	-821.29	5,313.43	9,897.60	9,831.48	66.12	149.693		
12,300.00	6,970.59	6,438.00	6,430.85	175.84	27.99	-62.97	-821.29	5,313.43	9,996.59	9,930.32	66.27	150.835		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 79-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.70	-619.83	5,280.34	5,316.64					
100.00	100.00	87.23	87.23	3.28	3.29	96.69	-619.82	5,280.25	5,316.52	5,309.95	6.57	809.175		
200.00	200.00	187.14	187.13	3.34	3.34	96.69	-619.61	5,280.10	5,316.34	5,309.66	6.68	795.890		
300.00	299.98	287.26	287.26	3.44	3.45	23.56	-619.07	5,279.95	5,314.53	5,307.64	6.90	770.565		
400.00	399.84	389.29	389.29	3.60	3.62	23.62	-618.76	5,279.84	5,309.59	5,302.37	7.22	735.493		
500.00	499.45	506.07	506.06	3.81	3.86	23.74	-618.96	5,279.23	5,301.09	5,293.43	7.66	691.707		
600.00	598.70	588.19	588.19	4.08	4.05	23.88	-619.18	5,278.83	5,289.49	5,281.38	8.11	652.483		
700.00	697.47	648.00	647.99	4.40	4.21	24.03	-618.71	5,278.88	5,275.20	5,266.66	8.55	617.176		
774.77	770.92	705.78	705.76	4.68	4.37	24.17	-617.62	5,279.30	5,262.84	5,253.89	8.94	588.405		
800.00	795.65	721.84	721.82	4.78	4.41	24.18	-617.21	5,279.49	5,258.45	5,249.38	9.07	579.450		
900.00	893.64	825.84	825.72	5.20	4.72	24.22	-613.11	5,281.07	5,241.24	5,231.51	9.73	538.890		
1,000.00	991.63	919.42	919.05	5.66	5.03	24.24	-606.64	5,282.69	5,223.87	5,213.48	10.39	502.697		
1,100.00	1,089.63	1,011.15	1,010.30	6.15	5.34	24.22	-597.45	5,284.75	5,206.64	5,195.55	11.09	469.456		
1,200.00	1,187.62	1,113.70	1,112.03	6.65	5.72	24.17	-584.83	5,287.38	5,189.45	5,177.59	11.87	437.354		
1,300.00	1,285.62	1,201.53	1,199.09	7.17	6.07	24.12	-573.49	5,289.73	5,172.30	5,159.69	12.62	409.963		
1,400.00	1,383.61	1,386.75	1,382.66	7.71	6.83	24.01	-548.98	5,292.81	5,153.87	5,140.08	13.79	373.823		
1,500.00	1,481.60	1,559.21	1,553.94	8.25	7.56	23.94	-528.98	5,292.69	5,133.99	5,119.06	14.93	343.818		
1,600.00	1,579.60	1,638.78	1,632.96	8.80	7.91	23.91	-519.63	5,292.40	5,114.03	5,098.32	15.71	325.444		
1,700.00	1,677.59	1,696.78	1,690.41	9.36	8.17	23.87	-511.64	5,292.62	5,094.60	5,078.18	16.42	310.304		
1,800.00	1,775.59	1,762.00	1,754.99	9.92	8.47	23.82	-502.61	5,293.68	5,076.21	5,059.04	17.16	295.744		
1,900.00	1,873.58	1,795.04	1,787.69	10.49	8.62	23.80	-497.95	5,294.54	5,058.64	5,040.86	17.78	284.532		
2,000.00	1,971.57	2,000.00	1,898.13	11.06	9.60	23.70	-480.65	5,298.03	5,041.71	5,022.50	19.20	262.539		
2,100.00	2,069.57	2,001.35	1,991.42	11.64	9.61	23.62	-466.00	5,300.34	5,024.11	5,004.44	19.66	255.515		
2,200.00	2,167.56	2,038.00	2,027.66	12.22	9.78	23.59	-460.63	5,301.49	5,007.40	4,987.09	20.31	246.545		
2,300.00	2,265.56	2,106.52	2,095.42	12.80	10.11	23.53	-450.90	5,304.23	4,991.53	4,970.43	21.11	236.509		
2,400.00	2,363.55	2,246.89	2,234.39	13.38	10.79	23.44	-431.89	5,309.68	4,975.50	4,953.27	22.23	223.829		
2,500.00	2,461.54	2,286.77	2,273.89	13.97	10.98	23.41	-426.63	5,311.35	4,959.85	4,936.95	22.90	216.601		
2,600.00	2,559.54	2,600.00	2,384.15	14.55	12.51	23.33	-411.60	5,316.59	4,944.72	4,919.83	24.89	198.701		
2,700.00	2,657.53	2,462.25	2,447.52	15.14	11.84	23.28	-402.58	5,319.43	4,929.42	4,904.73	24.69	199.649		
2,800.00	2,755.53	2,525.69	2,510.14	15.73	12.15	23.23	-393.20	5,323.31	4,915.42	4,889.94	25.48	192.903		
2,900.00	2,853.52	2,718.56	2,700.82	16.32	13.12	23.07	-365.69	5,332.52	4,900.01	4,873.13	26.88	182.278		
3,000.00	2,951.52	2,849.33	2,830.31	16.91	13.76	22.98	-348.23	5,337.44	4,884.01	4,856.03	27.98	174.546		
3,100.00	3,049.51	2,952.76	2,933.19	17.51	14.25	22.95	-338.05	5,340.45	4,867.49	4,838.55	28.93	168.237		
3,200.00	3,147.50	3,114.64	3,094.77	18.10	14.94	22.99	-329.00	5,343.05	4,849.97	4,819.89	30.07	161.268		
3,300.00	3,245.50	3,210.60	3,190.73	18.70	15.31	23.07	-328.72	5,343.68	4,832.19	4,801.27	30.92	156.288		
3,400.00	3,343.49	3,359.49	3,339.59	19.29	15.84	23.25	-331.44	5,343.59	4,813.93	4,782.03	31.90	150.885		
3,500.00	3,441.49	3,486.27	3,466.35	19.89	16.31	23.39	-333.02	5,342.55	4,794.90	4,762.07	32.83	146.041		
3,600.00	3,539.48	3,606.00	3,586.07	20.48	16.77	23.51	-332.87	5,340.78	4,775.05	4,741.29	33.76	141.447		
3,700.00	3,637.47	3,653.79	3,633.85	21.08	16.96	23.55	-332.71	5,340.35	4,755.80	4,721.34	34.46	138.022		
3,800.00	3,735.47	3,752.81	3,732.87	21.68	17.35	23.64	-332.21	5,340.22	4,737.30	4,701.96	35.33	134.081		
3,900.00	3,833.46	3,887.48	3,867.54	22.27	17.89	23.77	-331.82	5,339.02	4,718.05	4,681.73	36.32	129.897		
4,000.00	3,931.46	3,981.15	3,961.20	22.87	18.26	23.86	-331.51	5,337.94	4,698.59	4,661.42	37.18	126.385		
4,100.00	4,029.45	4,071.01	4,051.06	23.47	18.61	23.95	-331.30	5,337.02	4,679.29	4,641.27	38.02	123.073		
4,200.00	4,127.44	4,153.75	4,133.80	24.07	18.94	24.04	-331.63	5,336.29	4,660.20	4,621.37	38.84	119.991		
4,300.00	4,225.44	4,231.88	4,211.92	24.67	19.24	24.13	-332.19	5,335.92	4,641.57	4,601.93	39.64	117.098		
4,400.00	4,323.43	4,318.73	4,298.77	25.27	19.57	24.22	-332.49	5,335.80	4,623.23	4,582.76	40.47	114.243		
4,507.81	4,429.08	4,410.57	4,390.61	25.92	19.93	24.32	-332.61	5,335.99	4,603.81	4,562.45	41.36	111.306		
4,600.00	4,519.70	4,501.48	4,481.52	26.45	20.29	24.28	-332.74	5,336.27	4,588.65	4,546.49	42.16	108.836		
4,700.00	4,618.56	4,586.36	4,566.39	26.98	20.63	24.24	-332.77	5,336.59	4,575.29	4,532.32	42.97	106.472		
4,800.00	4,717.88	4,656.00	4,636.03	27.46	20.91	24.19	-332.22	5,337.47	4,565.81	4,522.09	43.72	104.432		
4,900.00	4,817.54	4,742.77	4,722.77	27.89	21.28	24.15	-330.58	5,339.10	4,560.01	4,515.49	44.52	102.427		
5,000.00	4,917.43	4,867.95	4,847.88	28.28	21.81	24.11	-327.00	5,340.77	4,556.65	4,511.21	45.44	100.274		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 79-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,039.07	4,956.49	4,890.39	4,870.32	28.42	21.90	24.11	-326.64	5,341.08	4,556.34	4,510.64	45.70	99.705		
5,082.58	5,000.00	4,923.00	4,902.92	28.57	22.04	97.26	-326.47	5,341.65	4,556.74	4,510.73	46.01	99.037		
5,100.00	5,017.42	4,933.88	4,913.81	28.62	22.08	97.26	-326.50	5,341.85	4,557.05	4,510.93	46.12	98.802		
5,200.00	5,117.42	5,119.52	5,099.38	28.95	22.80	97.31	-330.71	5,342.61	4,557.63	4,510.47	47.17	96.626		
5,300.00	5,217.42	5,232.37	5,212.21	29.28	23.24	97.34	-332.93	5,342.03	4,557.38	4,509.39	47.98	94.981		
5,400.00	5,317.42	5,356.19	5,336.00	29.62	23.73	97.37	-335.34	5,341.01	4,556.82	4,507.98	48.83	93.312		
5,500.00	5,417.42	5,462.35	5,442.15	29.96	24.15	97.39	-336.71	5,339.75	4,555.81	4,506.17	49.64	91.781		
5,600.00	5,517.42	5,548.00	5,527.79	30.29	24.50	97.40	-337.68	5,338.82	4,554.88	4,504.50	50.38	90.410		
5,673.17	5,590.59	5,587.84	5,567.62	30.54	24.65	97.41	-338.30	5,338.57	4,554.59	4,503.74	50.85	89.569		
5,700.00	5,617.42	5,601.62	5,581.40	30.64	24.71	97.41	-338.57	5,338.55	4,554.63	4,503.61	51.02	89.273		
5,800.00	5,717.42	5,667.75	5,647.51	30.98	24.97	97.43	-340.27	5,338.88	4,555.40	4,503.70	51.70	88.119		
5,900.00	5,817.42	5,790.19	5,769.89	31.33	25.46	97.48	-343.83	5,339.54	4,556.34	4,503.78	52.56	86.689		
6,000.00	5,917.42	5,967.10	5,946.73	31.68	26.16	97.54	-348.74	5,338.52	4,556.20	4,502.60	53.60	85.002		
6,100.00	6,017.42	6,083.38	6,062.98	32.03	26.63	97.56	-350.47	5,336.58	4,554.73	4,500.27	54.45	83.646		
6,200.00	6,117.42	6,155.31	6,134.90	32.38	26.93	97.58	-351.32	5,335.60	4,553.53	4,498.36	55.17	82.540		
6,300.00	6,217.42	6,300.00	6,245.86	32.74	27.52	97.59	-352.26	5,334.27	4,552.44	4,496.29	56.15	81.079		
6,400.00	6,317.42	6,322.01	6,301.57	33.09	27.61	97.60	-352.96	5,333.71	4,551.70	4,495.03	56.67	80.315		
6,414.05	6,331.47	6,328.90	6,308.47	33.14	27.64	97.60	-353.03	5,333.70	4,551.69	4,494.93	56.76	80.188 CC		
6,476.01	6,393.43	6,362.03	6,341.59	33.37	27.77	97.60	-353.30	5,333.78	4,551.90	4,494.73	57.17	79.626 ES		
6,500.00	6,417.42	6,377.63	6,357.19	33.45	27.84	-170.05	-353.41	5,333.88	4,552.52	4,495.19	57.33	79.413		
6,550.00	6,467.25	6,410.01	6,389.57	33.59	27.97	-169.99	-353.59	5,334.19	4,556.80	4,499.16	57.65	79.046		
6,600.00	6,516.64	6,441.00	6,420.56	33.71	28.10	-169.87	-353.71	5,334.60	4,565.12	4,507.17	57.95	78.779		
6,650.00	6,565.26	6,441.00	6,420.56	33.80	28.10	-169.66	-353.71	5,334.60	4,577.57	4,519.45	58.12	78.759 SF		
6,700.00	6,612.83	6,441.00	6,420.56	33.88	28.10	-169.37	-353.71	5,334.60	4,594.21	4,535.94	58.27	78.843		
6,750.00	6,659.04	6,479.41	6,458.95	33.94	28.26	-169.03	-353.71	5,335.65	4,614.31	4,555.76	58.55	78.811		
6,800.00	6,703.62	6,491.06	6,470.59	33.99	28.31	-168.56	-353.66	5,336.15	4,638.45	4,579.74	58.71	79.013		
6,850.00	6,746.28	6,530.00	6,509.46	34.03	28.47	-168.03	-353.32	5,338.42	4,666.48	4,607.52	58.95	79.157		
6,900.00	6,786.76	6,530.00	6,509.46	34.08	28.47	-167.27	-353.32	5,338.42	4,697.37	4,638.34	59.03	79.582		
6,950.00	6,824.83	6,530.00	6,509.46	34.13	28.47	-166.31	-353.32	5,338.42	4,731.47	4,672.39	59.08	80.085		
7,000.00	6,860.23	6,530.00	6,509.46	34.20	28.47	-165.09	-353.32	5,338.42	4,768.51	4,709.39	59.12	80.660		
7,050.00	6,892.75	6,530.00	6,509.46	34.30	28.47	-163.49	-353.32	5,338.42	4,808.19	4,749.04	59.14	81.299		
7,100.00	6,922.20	6,530.00	6,509.46	34.43	28.47	-161.39	-353.32	5,338.42	4,850.21	4,791.05	59.15	81.992		
7,150.00	6,948.38	6,530.00	6,509.46	34.60	28.47	-158.51	-353.32	5,338.42	4,894.24	4,835.09	59.16	82.733		
7,200.00	6,971.15	6,530.00	6,509.46	34.82	28.47	-154.43	-353.32	5,338.42	4,939.98	4,880.83	59.15	83.511		
7,250.00	6,990.35	6,530.00	6,509.46	35.09	28.47	-148.36	-353.32	5,338.42	4,987.10	4,927.95	59.15	84.318		
7,300.00	7,005.87	6,530.00	6,509.46	35.43	28.47	-138.75	-353.32	5,338.42	5,035.26	4,976.12	59.14	85.145		
7,350.00	7,017.62	6,530.00	6,509.46	35.81	28.47	-122.86	-353.32	5,338.42	5,084.15	5,025.02	59.13	85.983		
7,400.00	7,025.52	6,530.00	6,509.46	36.26	28.47	-98.10	-353.32	5,338.42	5,133.45	5,074.32	59.13	86.823		
7,450.00	7,029.52	6,530.00	6,509.46	36.75	28.47	-69.84	-353.32	5,338.42	5,182.84	5,123.72	59.13	87.656		
7,483.86	7,030.00	6,530.00	6,509.46	37.12	28.47	-54.48	-353.32	5,338.42	5,216.20	5,157.07	59.13	88.213		
7,500.00	7,029.80	6,530.00	6,509.46	37.30	28.47	-54.48	-353.32	5,338.42	5,232.06	5,172.92	59.14	88.476		
7,600.00	7,028.57	6,530.00	6,509.46	38.58	28.47	-54.48	-353.32	5,338.42	5,330.37	5,271.21	59.16	90.096		
7,700.00	7,027.34	6,530.00	6,509.46	40.10	28.47	-54.48	-353.32	5,338.42	5,428.75	5,369.55	59.20	91.706		
7,800.00	7,026.10	6,530.00	6,509.46	41.83	28.47	-54.48	-353.32	5,338.42	5,527.19	5,467.95	59.24	93.305		
7,900.00	7,024.87	6,530.00	6,509.46	43.74	28.47	-54.48	-353.32	5,338.42	5,625.68	5,566.39	59.28	94.895		
8,000.00	7,023.63	6,530.00	6,509.46	45.82	28.47	-54.48	-353.32	5,338.42	5,724.22	5,664.88	59.33	96.475		
8,100.00	7,022.40	6,530.00	6,509.46	48.04	28.47	-54.48	-353.32	5,338.42	5,822.81	5,763.42	59.39	98.046		
8,200.00	7,021.17	6,530.00	6,509.46	50.38	28.47	-54.48	-353.32	5,338.42	5,921.45	5,862.00	59.45	99.609		
8,300.00	7,019.93	6,530.00	6,509.46	52.82	28.47	-54.48	-353.32	5,338.42	6,020.13	5,960.62	59.51	101.163		
8,400.00	7,018.70	6,530.00	6,509.46	55.35	28.47	-54.48	-353.32	5,338.42	6,118.86	6,059.29	59.57	102.709		
8,500.00	7,017.47	6,530.00	6,509.46	57.97	28.47	-54.48	-353.32	5,338.42	6,217.63	6,157.99	59.64	104.247		
8,600.00	7,016.23	6,530.00	6,509.46	60.65	28.47	-54.48	-353.32	5,338.42	6,316.44	6,256.72	59.71	105.778		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 79-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	7,015.00	6,530.00	6,509.46	63.39	28.47	-54.48	-353.32	5,338.42	6,415.28	6,355.49	59.79	107.302		
8,800.00	7,013.76	6,530.00	6,509.46	66.19	28.47	-54.48	-353.32	5,338.42	6,514.16	6,454.29	59.86	108.818		
8,900.00	7,012.53	6,530.00	6,509.46	69.03	28.47	-54.48	-353.32	5,338.42	6,613.07	6,553.13	59.94	110.328		
9,000.00	7,011.30	6,530.00	6,509.46	71.91	28.47	-54.48	-353.32	5,338.42	6,712.01	6,652.00	60.02	111.831		
9,100.00	7,010.06	6,530.00	6,509.46	74.83	28.47	-54.48	-353.32	5,338.42	6,810.99	6,750.89	60.10	113.327		
9,200.00	7,008.83	6,530.00	6,509.46	77.78	28.47	-54.48	-353.32	5,338.42	6,910.00	6,849.81	60.18	114.817		
9,300.00	7,007.60	6,530.00	6,509.46	80.76	28.47	-54.48	-353.32	5,338.42	7,009.03	6,948.76	60.27	116.301		
9,400.00	7,006.36	6,530.00	6,509.46	83.76	28.47	-54.48	-353.32	5,338.42	7,108.09	7,047.74	60.35	117.779		
9,500.00	7,005.13	6,530.00	6,509.46	86.79	28.47	-54.48	-353.32	5,338.42	7,207.18	7,146.74	60.44	119.251		
9,600.00	7,003.90	6,530.00	6,509.46	89.84	28.47	-54.48	-353.32	5,338.42	7,306.29	7,245.76	60.52	120.717		
9,700.00	7,002.66	6,530.00	6,509.46	92.90	28.47	-54.48	-353.32	5,338.42	7,405.42	7,344.81	60.61	122.178		
9,800.00	7,001.43	6,530.00	6,509.46	95.99	28.47	-54.48	-353.32	5,338.42	7,504.58	7,443.88	60.70	123.633		
9,900.00	7,000.19	6,530.00	6,509.46	99.08	28.47	-54.48	-353.32	5,338.42	7,603.76	7,542.97	60.79	125.082		
10,000.00	6,998.96	6,530.00	6,509.46	102.19	28.47	-54.48	-353.32	5,338.42	7,702.96	7,642.08	60.88	126.527		
10,100.00	6,997.73	6,530.00	6,509.46	105.32	28.47	-54.48	-353.32	5,338.42	7,802.18	7,741.21	60.97	127.965		
10,200.00	6,996.49	6,530.00	6,509.46	108.45	28.47	-54.48	-353.32	5,338.42	7,901.42	7,840.36	61.06	129.399		
10,300.00	6,995.26	6,530.00	6,509.46	111.60	28.47	-54.48	-353.32	5,338.42	8,000.68	7,939.53	61.15	130.827		
10,400.00	6,994.03	6,530.00	6,509.46	114.75	28.47	-54.48	-353.32	5,338.42	8,099.96	8,038.72	61.25	132.251		
10,500.00	6,992.79	6,530.00	6,509.46	117.92	28.47	-54.48	-353.32	5,338.42	8,199.26	8,137.92	61.34	133.669		
10,600.00	6,991.56	6,530.00	6,509.46	121.09	28.47	-54.48	-353.32	5,338.42	8,298.57	8,237.14	61.43	135.082		
10,700.00	6,990.33	6,530.00	6,509.46	124.27	28.47	-54.48	-353.32	5,338.42	8,397.90	8,336.37	61.53	136.490		
10,800.00	6,989.09	6,530.00	6,509.46	127.46	28.47	-54.48	-353.32	5,338.42	8,497.25	8,435.62	61.62	137.894		
10,900.00	6,987.86	6,530.00	6,509.46	130.65	28.47	-54.48	-353.32	5,338.42	8,596.61	8,534.89	61.72	139.292		
11,000.00	6,986.62	6,530.00	6,509.46	133.85	28.47	-54.48	-353.32	5,338.42	8,695.98	8,634.17	61.81	140.686		
11,100.00	6,985.39	6,530.00	6,509.46	137.06	28.47	-54.48	-353.32	5,338.42	8,795.37	8,733.46	61.91	142.075		
11,200.00	6,984.16	6,530.00	6,509.46	140.27	28.47	-54.48	-353.32	5,338.42	8,894.77	8,832.77	62.00	143.459		
11,300.00	6,982.92	6,530.00	6,509.46	143.48	28.47	-54.48	-353.32	5,338.42	8,994.19	8,932.09	62.10	144.838		
11,400.00	6,981.69	6,530.00	6,509.46	146.70	28.47	-54.48	-353.32	5,338.42	9,093.62	9,031.42	62.19	146.213		
11,500.00	6,980.46	6,530.00	6,509.46	149.92	28.47	-54.48	-353.32	5,338.42	9,193.06	9,130.77	62.29	147.583		
11,600.00	6,979.22	6,530.00	6,509.46	153.15	28.47	-54.48	-353.32	5,338.42	9,292.51	9,230.12	62.39	148.948		
11,700.00	6,977.99	6,530.00	6,509.46	156.38	28.47	-54.48	-353.32	5,338.42	9,391.98	9,329.49	62.48	150.308		
11,800.00	6,976.75	6,530.00	6,509.46	159.62	28.47	-54.48	-353.32	5,338.42	9,491.45	9,428.87	62.58	151.664		
11,900.00	6,975.52	6,530.00	6,509.46	162.86	28.47	-54.48	-353.32	5,338.42	9,590.94	9,528.26	62.68	153.015		
12,000.00	6,974.29	6,530.00	6,509.46	166.10	28.47	-54.48	-353.32	5,338.42	9,690.44	9,627.66	62.78	154.362		
12,100.00	6,973.05	6,530.00	6,509.46	169.34	28.47	-54.48	-353.32	5,338.42	9,789.94	9,727.07	62.88	155.704		
12,200.00	6,971.82	6,530.00	6,509.46	172.59	28.47	-54.48	-353.32	5,338.42	9,889.46	9,826.49	62.97	157.041		
12,300.00	6,970.59	6,530.00	6,509.46	175.84	28.47	-54.48	-353.32	5,338.42	9,988.99	9,925.92	63.07	158.374		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 174-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.83	-627.86	5,241.09	5,278.61					
100.00	100.00	130.59	130.59	3.28	3.29	96.84	-628.17	5,240.38	5,278.17	5,271.59	6.58	802.431		
200.00	200.00	228.79	228.78	3.34	3.34	96.84	-628.48	5,239.18	5,277.00	5,270.32	6.68	790.522		
300.00	299.98	297.02	297.01	3.44	3.40	23.71	-627.81	5,238.77	5,274.69	5,267.84	6.85	770.250		
400.00	399.84	364.00	363.96	3.60	3.49	23.75	-626.16	5,238.97	5,269.89	5,262.79	7.09	742.906		
500.00	499.45	434.12	434.01	3.81	3.61	23.80	-623.12	5,239.77	5,262.49	5,255.07	7.41	709.716		
600.00	598.70	514.22	513.93	4.08	3.77	23.87	-618.02	5,241.19	5,252.32	5,244.50	7.82	671.334		
700.00	697.47	617.54	616.93	4.40	4.02	23.96	-610.22	5,243.40	5,239.22	5,230.86	8.36	626.835		
774.77	770.92	686.79	685.94	4.68	4.21	24.05	-604.54	5,244.82	5,227.24	5,218.45	8.79	594.940		
800.00	795.65	706.46	705.52	4.78	4.26	24.05	-602.84	5,245.27	5,222.94	5,214.01	8.93	584.991		
900.00	893.64	797.95	796.60	5.20	4.55	24.04	-594.42	5,247.57	5,206.07	5,196.52	9.55	545.092		
1,000.00	991.63	914.43	912.37	5.66	4.94	24.00	-581.96	5,250.57	5,189.09	5,178.78	10.31	503.312		
1,100.00	1,089.63	1,023.87	1,020.99	6.15	5.35	23.95	-568.89	5,253.19	5,171.80	5,160.70	11.10	466.062		
1,200.00	1,187.62	1,188.18	1,183.99	6.65	6.01	23.87	-548.39	5,256.17	5,153.95	5,141.80	12.14	424.452		
1,300.00	1,285.62	1,253.79	1,249.05	7.17	6.28	23.83	-539.93	5,257.07	5,135.56	5,122.74	12.83	400.376		
1,400.00	1,383.61	1,356.48	1,350.86	7.71	6.72	23.77	-526.69	5,258.96	5,117.63	5,103.95	13.68	374.017		
1,500.00	1,481.60	1,701.62	1,693.54	8.25	8.23	23.64	-486.54	5,254.07	5,095.44	5,079.87	15.57	327.291		
1,600.00	1,579.60	1,761.00	1,752.58	8.80	8.49	23.62	-480.58	5,251.96	5,072.73	5,056.47	16.26	311.936		
1,700.00	1,677.59	1,807.12	1,798.46	9.36	8.69	23.62	-476.01	5,250.73	5,050.94	5,034.03	16.91	298.693		
1,800.00	1,775.59	1,853.00	1,844.13	9.92	8.89	23.61	-471.72	5,250.30	5,030.49	5,012.93	17.56	286.404		
1,900.00	1,873.58	1,900.04	1,890.95	10.49	9.10	23.60	-467.17	5,250.36	5,011.05	4,992.82	18.23	274.837		
2,000.00	1,971.57	2,000.00	2,090.31	11.06	9.56	23.53	-445.33	5,249.85	4,991.70	4,972.60	19.10	261.302		
2,100.00	2,069.57	2,180.65	2,169.81	11.64	10.39	23.50	-436.22	5,248.21	4,970.27	4,949.88	20.39	243.798		
2,200.00	2,167.56	2,222.00	2,210.88	12.22	10.58	23.49	-431.36	5,248.05	4,950.16	4,929.10	21.05	235.139		
2,300.00	2,265.56	2,373.73	2,361.71	12.80	11.28	23.44	-414.95	5,247.14	4,930.15	4,907.96	22.19	222.174		
2,400.00	2,363.55	2,475.80	2,463.11	13.38	11.76	23.40	-403.36	5,245.77	4,909.31	4,886.18	23.12	212.329		
2,500.00	2,461.54	2,538.57	2,525.51	13.97	12.05	23.38	-396.61	5,245.07	4,888.78	4,864.89	23.89	204.643		
2,600.00	2,559.54	2,596.63	2,583.20	14.55	12.33	23.35	-390.00	5,245.02	4,869.12	4,844.48	24.64	197.608		
2,700.00	2,657.53	2,740.37	2,725.91	15.14	13.01	23.28	-372.88	5,244.74	4,849.34	4,823.57	25.77	188.191		
2,800.00	2,755.53	2,876.78	2,861.37	15.73	13.67	23.22	-356.86	5,243.29	4,828.73	4,801.87	26.86	179.758		
2,900.00	2,853.52	2,976.78	2,960.77	16.32	14.14	23.19	-346.02	5,241.62	4,807.62	4,779.82	27.80	172.958		
3,000.00	2,951.52	3,048.00	3,031.51	16.91	14.48	23.16	-337.84	5,240.81	4,786.94	4,758.32	28.62	167.287		
3,100.00	3,049.51	3,139.66	3,122.56	17.51	14.92	23.12	-327.35	5,240.08	4,766.62	4,737.10	29.52	161.455		
3,200.00	3,147.50	3,183.99	3,166.62	18.10	15.13	23.10	-322.44	5,239.95	4,746.82	4,716.59	30.23	157.010		
3,300.00	3,245.50	3,237.60	3,219.86	18.70	15.39	23.08	-316.16	5,240.43	4,728.10	4,697.11	30.98	152.610		
3,400.00	3,343.49	3,362.68	3,344.21	19.29	15.98	23.03	-302.73	5,241.46	4,709.43	4,677.40	32.03	147.027		
3,500.00	3,441.49	3,445.85	3,426.99	19.89	16.37	23.01	-294.73	5,241.86	4,690.58	4,657.68	32.90	142.571		
3,600.00	3,539.48	3,534.96	3,515.62	20.48	16.79	22.98	-285.65	5,242.88	4,672.28	4,638.48	33.80	138.243		
3,700.00	3,637.47	3,688.92	3,668.74	21.08	17.52	22.93	-269.57	5,243.60	4,653.31	4,618.34	34.96	133.086		
3,800.00	3,735.47	3,717.57	3,697.23	21.68	17.66	22.92	-266.59	5,243.91	4,634.62	4,599.00	35.62	130.124		
3,900.00	3,833.46	3,762.00	3,741.38	22.27	17.87	22.90	-261.66	5,244.85	4,617.15	4,580.82	36.33	127.084		
4,000.00	3,931.46	3,856.79	3,835.45	22.87	18.33	22.85	-250.33	5,247.55	4,600.37	4,563.11	37.27	123.435		
4,100.00	4,029.45	3,999.03	3,976.53	23.47	19.03	22.76	-232.48	5,250.81	4,582.98	4,544.56	38.42	119.291		
4,200.00	4,127.44	4,121.19	4,097.87	24.07	19.62	22.70	-218.54	5,252.62	4,564.93	4,525.46	39.47	115.662		
4,300.00	4,225.44	4,236.81	4,212.92	24.67	20.17	22.67	-207.11	5,253.49	4,546.27	4,505.80	40.48	112.322		
4,400.00	4,323.43	4,297.00	4,272.80	25.27	20.45	22.65	-200.98	5,254.05	4,527.88	4,486.62	41.26	109.733		
4,507.81	4,429.08	4,372.18	4,347.54	25.92	20.81	22.62	-192.99	5,255.36	4,508.85	4,466.69	42.16	106.955		
4,600.00	4,519.70	4,511.08	4,485.73	26.45	21.47	22.45	-179.36	5,257.82	4,494.00	4,450.79	43.21	104.009		
4,700.00	4,618.56	4,671.48	4,645.62	26.98	22.20	22.29	-166.64	5,258.31	4,479.64	4,435.30	44.34	101.023		
4,800.00	4,717.88	4,743.00	4,716.94	27.46	22.52	22.18	-161.21	5,258.08	4,467.96	4,422.83	45.13	99.001		
4,900.00	4,817.54	4,810.27	4,783.99	27.89	22.83	22.08	-155.88	5,258.34	4,460.18	4,414.29	45.89	97.196		
5,000.00	4,917.43	4,912.52	4,885.78	28.28	23.31	21.94	-146.31	5,259.61	4,456.30	4,409.53	46.77	95.282		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 174-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,079.82	4,997.24	4,997.35	4,970.26	28.56	23.71	21.84	-138.59	5,260.40	4,455.30	4,407.83	47.47	93.857		
5,082.58	5,000.00	5,000.22	4,973.12	28.57	23.72	94.99	-138.34	5,260.43	4,455.30	4,407.80	47.49	93.810		
5,100.00	5,017.42	5,022.04	4,994.86	28.62	23.82	94.96	-136.47	5,260.60	4,455.31	4,407.65	47.65	93.493		
5,200.00	5,117.42	5,270.42	5,242.97	28.95	24.85	94.86	-128.10	5,256.12	4,452.61	4,403.69	48.92	91.026		
5,300.00	5,217.42	5,350.36	5,322.87	29.28	25.16	94.86	-127.68	5,253.66	4,449.50	4,399.87	49.63	89.658		
5,400.00	5,317.42	5,453.46	5,425.93	29.62	25.55	94.86	-127.46	5,250.72	4,446.63	4,396.23	50.40	88.220		
5,500.00	5,417.42	5,517.84	5,490.28	29.96	25.80	94.86	-127.42	5,249.05	4,444.06	4,392.99	51.07	87.014		
5,600.00	5,517.42	5,593.93	5,566.36	30.29	26.09	94.87	-127.80	5,247.65	4,442.24	4,390.47	51.77	85.803		
5,700.00	5,617.42	5,687.42	5,659.83	30.64	26.44	94.87	-128.18	5,246.19	4,440.73	4,388.20	52.52	84.549		
5,800.00	5,717.42	5,810.93	5,783.33	30.98	26.91	94.88	-128.70	5,244.10	4,439.09	4,385.73	53.36	83.188		
5,900.00	5,817.42	5,920.01	5,892.38	31.33	27.32	94.90	-129.57	5,241.67	4,436.93	4,382.77	54.16	81.923		
6,000.00	5,917.42	5,992.00	5,964.34	31.68	27.59	94.91	-130.67	5,240.07	4,434.90	4,380.05	54.85	80.853		
6,100.00	6,017.42	6,045.04	6,017.37	32.03	27.80	94.92	-131.24	5,239.36	4,433.76	4,378.26	55.49	79.896		
6,135.88	6,053.30	6,061.33	6,033.66	32.15	27.86	94.92	-131.26	5,239.31	4,433.65	4,377.93	55.71	79.578 CC		
6,200.00	6,117.42	6,082.00	6,054.33	32.38	27.94	94.92	-131.18	5,239.36	4,433.87	4,377.79	56.08	79.064 ES		
6,300.00	6,217.42	6,133.35	6,105.67	32.74	28.14	94.92	-131.04	5,240.01	4,435.22	4,378.51	56.71	78.214		
6,400.00	6,317.42	6,193.44	6,165.75	33.09	28.38	94.92	-131.33	5,241.63	4,437.83	4,380.47	57.36	77.372		
6,476.01	6,393.43	6,260.00	6,232.28	33.37	28.63	94.92	-131.56	5,243.34	4,439.84	4,381.91	57.92	76.653		
6,500.00	6,417.42	6,260.00	6,232.28	33.45	28.63	-172.73	-131.56	5,243.34	4,441.09	4,383.07	58.02	76.543		
6,550.00	6,467.25	6,260.00	6,232.28	33.59	28.63	-172.66	-131.56	5,243.34	4,447.00	4,388.79	58.21	76.398		
6,600.00	6,516.64	6,260.00	6,232.28	33.71	28.63	-172.54	-131.56	5,243.34	4,457.29	4,398.92	58.38	76.354 SF		
6,650.00	6,565.26	6,260.00	6,232.28	33.80	28.63	-172.36	-131.56	5,243.34	4,471.88	4,413.36	58.52	76.413		
6,700.00	6,612.83	6,260.00	6,232.28	33.88	28.63	-172.12	-131.56	5,243.34	4,490.63	4,431.99	58.65	76.571		
6,750.00	6,659.04	6,260.00	6,232.28	33.94	28.63	-171.79	-131.56	5,243.34	4,513.38	4,454.63	58.75	76.825		
6,800.00	6,703.62	6,260.00	6,232.28	33.99	28.63	-171.38	-131.56	5,243.34	4,539.92	4,481.09	58.83	77.170		
6,850.00	6,746.28	6,260.00	6,232.28	34.03	28.63	-170.86	-131.56	5,243.34	4,570.03	4,511.14	58.89	77.601		
6,900.00	6,786.76	6,302.71	6,274.89	34.08	28.80	-170.27	-131.77	5,246.08	4,601.48	4,542.35	59.13	77.820		
6,950.00	6,824.83	6,306.12	6,278.28	34.13	28.81	-169.44	-131.79	5,246.46	4,637.61	4,578.44	59.18	78.369		
7,000.00	6,860.23	6,309.19	6,281.33	34.20	28.82	-168.38	-131.82	5,246.81	4,676.51	4,617.30	59.21	78.983		
7,050.00	6,892.75	6,349.00	6,320.63	34.30	28.97	-167.12	-132.30	5,253.06	4,719.36	4,659.96	59.40	79.447		
7,100.00	6,922.20	6,349.00	6,320.63	34.43	28.97	-165.26	-132.30	5,253.06	4,762.68	4,703.28	59.40	80.177		
7,150.00	6,948.38	6,349.00	6,320.63	34.60	28.97	-162.62	-132.30	5,253.06	4,807.88	4,748.48	59.40	80.947		
7,200.00	6,971.15	6,349.00	6,320.63	34.82	28.97	-158.69	-132.30	5,253.06	4,854.62	4,795.23	59.38	81.750		
7,250.00	6,990.35	6,349.00	6,320.63	35.09	28.97	-152.35	-132.30	5,253.06	4,902.57	4,843.20	59.37	82.575		
7,300.00	7,005.87	6,349.00	6,320.63	35.43	28.97	-141.01	-132.30	5,253.06	4,951.42	4,892.06	59.36	83.415		
7,350.00	7,017.62	6,349.00	6,320.63	35.81	28.97	-118.70	-132.30	5,253.06	5,000.83	4,941.48	59.35	84.260		
7,400.00	7,025.52	6,349.00	6,320.63	36.26	28.97	-81.42	-132.30	5,253.06	5,050.49	4,991.14	59.35	85.101		
7,450.00	7,029.52	6,349.00	6,320.63	36.75	28.97	-49.46	-132.30	5,253.06	5,100.09	5,040.74	59.35	85.929		
7,483.86	7,030.00	6,349.00	6,320.63	37.12	28.97	-36.86	-132.30	5,253.06	5,133.50	5,074.14	59.36	86.479		
7,500.00	7,029.80	6,349.00	6,320.63	37.30	28.97	-36.86	-132.30	5,253.06	5,149.37	5,090.00	59.37	86.739		
7,600.00	7,028.57	6,349.00	6,320.63	38.58	28.97	-36.86	-132.30	5,253.06	5,247.73	5,188.33	59.41	88.338		
7,700.00	7,027.34	6,349.00	6,320.63	40.10	28.97	-36.86	-132.30	5,253.06	5,346.16	5,286.71	59.45	89.931		
7,800.00	7,026.10	6,349.00	6,320.63	41.83	28.97	-36.86	-132.30	5,253.06	5,444.64	5,385.15	59.49	91.518		
7,900.00	7,024.87	6,349.00	6,320.63	43.74	28.97	-36.86	-132.30	5,253.06	5,543.18	5,483.64	59.54	93.100		
8,000.00	7,023.63	6,349.00	6,320.63	45.82	28.97	-36.86	-132.30	5,253.06	5,641.77	5,582.18	59.59	94.677		
8,100.00	7,022.40	6,349.00	6,320.63	48.04	28.97	-36.86	-132.30	5,253.06	5,740.41	5,680.77	59.64	96.248		
8,200.00	7,021.17	6,349.00	6,320.63	50.38	28.97	-36.86	-132.30	5,253.06	5,839.10	5,779.40	59.70	97.814		
8,300.00	7,019.93	6,349.00	6,320.63	52.82	28.97	-36.86	-132.30	5,253.06	5,937.83	5,878.07	59.75	99.376		
8,400.00	7,018.70	6,349.00	6,320.63	55.35	28.97	-36.86	-132.30	5,253.06	6,036.60	5,976.79	59.81	100.932		
8,500.00	7,017.47	6,307.97	6,280.12	57.97	28.82	-35.39	-131.81	5,246.67	6,133.62	6,073.92	59.70	102.735		
8,600.00	7,016.23	6,307.00	6,279.16	60.65	28.81	-35.36	-131.80	5,246.56	6,232.39	6,172.63	59.76	104.287		
8,700.00	7,015.00	6,306.06	6,278.22	63.39	28.81	-35.33	-131.79	5,246.45	6,331.19	6,271.37	59.82	105.834		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 174-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,305.15	6,277.32	66.19	28.80	-35.30	-131.79	5,246.35	6,430.03	6,370.14	59.88	107.375		
8,900.00	7,012.53	6,304.26	6,276.43	69.03	28.80	-35.26	-131.78	5,246.25	6,528.90	6,468.95	59.95	108.912		
9,000.00	7,011.30	6,303.40	6,275.57	71.91	28.80	-35.24	-131.77	5,246.16	6,627.80	6,567.79	60.01	110.445		
9,100.00	7,010.06	6,302.56	6,274.74	74.83	28.79	-35.21	-131.76	5,246.07	6,726.74	6,666.66	60.07	111.972		
9,200.00	7,008.83	6,301.74	6,273.93	77.78	28.79	-35.18	-131.76	5,245.98	6,825.70	6,765.56	60.14	113.495		
9,300.00	7,007.60	6,300.95	6,273.14	80.76	28.79	-35.15	-131.75	5,245.90	6,924.70	6,864.49	60.21	115.014		
9,400.00	7,006.36	6,260.00	6,232.28	83.76	28.63	-33.80	-131.56	5,243.34	7,025.41	6,965.28	60.13	116.832		
9,500.00	7,005.13	6,260.00	6,232.28	86.79	28.63	-33.80	-131.56	5,243.34	7,124.39	7,064.19	60.21	118.334		
9,600.00	7,003.90	6,260.00	6,232.28	89.84	28.63	-33.80	-131.56	5,243.34	7,223.40	7,163.12	60.28	119.833		
9,700.00	7,002.66	6,260.00	6,232.28	92.90	28.63	-33.80	-131.56	5,243.34	7,322.44	7,262.08	60.35	121.327		
9,800.00	7,001.43	6,260.00	6,232.28	95.99	28.63	-33.80	-131.56	5,243.34	7,421.50	7,361.07	60.43	122.816		
9,900.00	7,000.19	6,260.00	6,232.28	99.08	28.63	-33.80	-131.56	5,243.34	7,520.59	7,460.08	60.50	124.302		
10,000.00	6,998.96	6,260.00	6,232.28	102.19	28.63	-33.80	-131.56	5,243.34	7,619.70	7,559.12	60.58	125.783		
10,100.00	6,997.73	6,260.00	6,232.28	105.32	28.63	-33.80	-131.56	5,243.34	7,718.83	7,658.18	60.65	127.260		
10,200.00	6,996.49	6,260.00	6,232.28	108.45	28.63	-33.80	-131.56	5,243.34	7,817.99	7,757.26	60.73	128.732		
10,300.00	6,995.26	6,260.00	6,232.28	111.60	28.63	-33.80	-131.56	5,243.34	7,917.17	7,856.36	60.81	130.201		
10,400.00	6,994.03	6,260.00	6,232.28	114.75	28.63	-33.80	-131.56	5,243.34	8,016.36	7,955.48	60.88	131.665		
10,500.00	6,992.79	6,260.00	6,232.28	117.92	28.63	-33.80	-131.56	5,243.34	8,115.58	8,054.62	60.96	133.125		
10,600.00	6,991.56	6,260.00	6,232.28	121.09	28.63	-33.80	-131.56	5,243.34	8,214.82	8,153.78	61.04	134.580		
10,700.00	6,990.33	6,260.00	6,232.28	124.27	28.63	-33.80	-131.56	5,243.34	8,314.07	8,252.95	61.12	136.031		
10,800.00	6,989.09	6,260.00	6,232.28	127.46	28.63	-33.80	-131.56	5,243.34	8,413.34	8,352.15	61.20	137.478		
10,900.00	6,987.86	6,260.00	6,232.28	130.65	28.63	-33.80	-131.56	5,243.34	8,512.63	8,451.36	61.28	138.920		
11,000.00	6,986.62	6,260.00	6,232.28	133.85	28.63	-33.80	-131.56	5,243.34	8,611.94	8,550.58	61.36	140.359		
11,100.00	6,985.39	6,260.00	6,232.28	137.06	28.63	-33.80	-131.56	5,243.34	8,711.26	8,649.82	61.44	141.792		
11,200.00	6,984.16	6,260.00	6,232.28	140.27	28.63	-33.80	-131.56	5,243.34	8,810.60	8,749.08	61.52	143.222		
11,300.00	6,982.92	6,260.00	6,232.28	143.48	28.63	-33.80	-131.56	5,243.34	8,909.95	8,848.35	61.60	144.647		
11,400.00	6,981.69	6,260.00	6,232.28	146.70	28.63	-33.80	-131.56	5,243.34	9,009.32	8,947.64	61.68	146.067		
11,500.00	6,980.46	6,260.00	6,232.28	149.92	28.63	-33.80	-131.56	5,243.34	9,108.70	9,046.93	61.76	147.483		
11,600.00	6,979.22	6,260.00	6,232.28	153.15	28.63	-33.80	-131.56	5,243.34	9,208.09	9,146.25	61.84	148.895		
11,700.00	6,977.99	6,260.00	6,232.28	156.38	28.63	-33.80	-131.56	5,243.34	9,307.50	9,245.57	61.93	150.302		
11,800.00	6,976.75	6,260.00	6,232.28	159.62	28.63	-33.80	-131.56	5,243.34	9,406.91	9,344.91	62.01	151.705		
11,900.00	6,975.52	6,260.00	6,232.28	162.86	28.63	-33.80	-131.56	5,243.34	9,506.35	9,444.25	62.09	153.103		
12,000.00	6,974.29	6,260.00	6,232.28	166.10	28.63	-33.80	-131.56	5,243.34	9,605.79	9,543.61	62.17	154.497		
12,100.00	6,973.05	6,260.00	6,232.28	169.34	28.63	-33.80	-131.56	5,243.34	9,705.24	9,642.98	62.26	155.886		
12,200.00	6,971.82	6,260.00	6,232.28	172.59	28.63	-33.80	-131.56	5,243.34	9,804.71	9,742.37	62.34	157.271		
12,300.00	6,970.59	6,260.00	6,232.28	175.84	28.63	-33.80	-131.56	5,243.34	9,904.19	9,841.76	62.43	158.651		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	33.00	33.00	3.28	3.33	-72.53	1,849.53	-5,875.49	6,159.71					
100.00	100.00	133.00	133.00	3.28	4.38	-72.53	1,849.53	-5,875.49	6,159.71	6,152.05	7.66	804.011		
200.00	200.00	233.00	233.00	3.34	7.18	-72.53	1,849.53	-5,875.49	6,159.71	6,149.20	10.52	585.614		
300.00	299.98	332.98	332.98	3.44	10.41	-145.67	1,849.53	-5,875.49	6,161.16	6,147.30	13.85	444.768		
400.00	399.84	432.84	432.84	3.60	13.76	-145.65	1,849.53	-5,875.49	6,165.48	6,148.12	17.36	355.095		
500.00	499.45	532.45	532.45	3.81	17.16	-145.61	1,849.53	-5,875.49	6,172.68	6,151.71	20.97	294.404		
600.00	598.70	631.70	631.70	4.08	20.57	-145.56	1,849.53	-5,875.49	6,182.76	6,158.13	24.63	251.036		
700.00	697.47	730.47	730.47	4.40	23.98	-145.49	1,849.53	-5,875.49	6,195.71	6,167.38	28.33	218.692		
774.77	770.92	803.92	803.92	4.68	26.52	-145.43	1,849.53	-5,875.49	6,207.26	6,176.14	31.12	199.477		
800.00	795.65	828.65	828.65	4.78	27.38	-145.46	1,849.53	-5,875.49	6,211.42	6,179.36	32.06	193.732		
900.00	893.64	926.64	926.64	5.20	30.78	-145.56	1,849.53	-5,875.49	6,227.96	6,192.14	35.81	173.896		
1,000.00	991.63	1,024.63	1,024.63	5.66	34.18	-145.66	1,849.53	-5,875.49	6,244.51	6,204.91	39.60	157.708		
1,100.00	1,089.63	1,122.63	1,122.63	6.15	37.59	-145.77	1,849.53	-5,875.49	6,261.08	6,217.68	43.40	144.268		
1,200.00	1,187.62	1,220.62	1,220.62	6.65	41.00	-145.87	1,849.53	-5,875.49	6,277.67	6,230.45	47.22	132.944		
1,300.00	1,285.62	1,318.62	1,318.62	7.17	44.41	-145.97	1,849.53	-5,875.49	6,294.28	6,243.22	51.06	123.281		
1,400.00	1,383.61	1,416.61	1,416.61	7.71	47.82	-146.07	1,849.53	-5,875.49	6,310.91	6,256.00	54.90	114.945		
1,500.00	1,481.60	1,514.60	1,514.60	8.25	51.23	-146.17	1,849.53	-5,875.49	6,327.56	6,268.80	58.76	107.684		
1,600.00	1,579.60	1,612.60	1,612.60	8.80	54.65	-146.27	1,849.53	-5,875.49	6,344.22	6,281.60	62.63	101.304		
1,700.00	1,677.59	1,710.59	1,710.59	9.36	58.06	-146.37	1,849.53	-5,875.49	6,360.91	6,294.41	66.50	95.658		
1,800.00	1,775.59	1,808.59	1,808.59	9.92	61.48	-146.47	1,849.53	-5,875.49	6,377.61	6,307.24	70.37	90.625		
1,900.00	1,873.58	1,906.58	1,906.58	10.49	64.90	-146.57	1,849.53	-5,875.49	6,394.34	6,320.08	74.25	86.114		
2,000.00	1,971.57	2,004.57	2,004.57	11.06	68.31	-146.66	1,849.53	-5,875.49	6,411.08	6,332.94	78.14	82.047		
2,100.00	2,069.57	2,102.57	2,102.57	11.64	71.73	-146.76	1,849.53	-5,875.49	6,427.84	6,345.81	82.03	78.362		
2,200.00	2,167.56	2,200.56	2,200.56	12.22	75.15	-146.86	1,849.53	-5,875.49	6,444.62	6,358.70	85.92	75.009		
2,300.00	2,265.56	2,301.44	2,298.56	12.80	78.67	-146.95	1,849.53	-5,875.49	6,461.41	6,371.50	89.91	71.863		
2,400.00	2,363.55	2,403.45	2,396.55	13.38	82.22	-147.05	1,849.53	-5,875.49	6,478.23	6,384.28	93.95	68.956		
2,500.00	2,461.54	2,505.46	2,494.54	13.97	85.78	-147.14	1,849.53	-5,875.49	6,495.06	6,397.07	97.98	66.287		
2,600.00	2,559.54	2,607.46	2,592.54	14.55	89.34	-147.24	1,849.53	-5,875.49	6,511.90	6,409.88	102.02	63.828		
2,700.00	2,657.53	2,709.47	2,690.53	15.14	92.90	-147.33	1,849.53	-5,875.49	6,528.77	6,422.71	106.06	61.556		
2,800.00	2,755.53	2,788.53	2,788.53	15.73	95.66	-147.43	1,849.53	-5,875.49	6,545.65	6,436.35	109.30	59.885		
2,900.00	2,853.52	2,886.52	2,886.52	16.32	99.08	-147.52	1,849.53	-5,875.49	6,562.55	6,449.35	113.20	57.971		
3,000.00	2,951.52	2,984.52	2,984.52	16.91	102.50	-147.61	1,849.53	-5,875.49	6,579.47	6,462.36	117.11	56.183		
3,100.00	3,049.51	3,082.51	3,082.51	17.51	105.92	-147.70	1,849.53	-5,875.49	6,596.40	6,475.39	121.01	54.511		
3,200.00	3,147.50	3,180.50	3,180.50	18.10	109.34	-147.80	1,849.53	-5,875.49	6,613.35	6,488.44	124.91	52.943		
3,300.00	3,245.50	3,278.50	3,278.50	18.70	112.75	-147.89	1,849.53	-5,875.49	6,630.32	6,501.50	128.82	51.470		
3,400.00	3,343.49	3,376.49	3,376.49	19.29	116.17	-147.98	1,849.53	-5,875.49	6,647.31	6,514.58	132.72	50.084		
3,500.00	3,441.49	3,474.49	3,474.49	19.89	119.59	-148.07	1,849.53	-5,875.49	6,664.31	6,527.68	136.63	48.777		
3,600.00	3,539.48	3,572.48	3,572.48	20.48	123.01	-148.16	1,849.53	-5,875.49	6,681.32	6,540.79	140.53	47.542		
3,700.00	3,637.47	3,670.47	3,670.47	21.08	126.43	-148.25	1,849.53	-5,875.49	6,698.35	6,553.91	144.44	46.375		
3,800.00	3,735.47	3,768.47	3,768.47	21.68	129.85	-148.34	1,849.53	-5,875.49	6,715.40	6,567.06	148.35	45.268		
3,900.00	3,833.46	3,866.46	3,866.46	22.27	133.27	-148.43	1,849.53	-5,875.49	6,732.47	6,580.21	152.25	44.219		
4,000.00	3,931.46	3,964.46	3,964.46	22.87	136.69	-148.51	1,849.53	-5,875.49	6,749.55	6,593.39	156.16	43.222		
4,100.00	4,029.45	4,062.45	4,062.45	23.47	140.11	-148.60	1,849.53	-5,875.49	6,766.64	6,606.58	160.07	42.274		
4,200.00	4,127.44	4,160.44	4,160.44	24.07	143.53	-148.69	1,849.53	-5,875.49	6,783.75	6,619.78	163.97	41.371		
4,300.00	4,225.44	4,258.44	4,258.44	24.67	146.95	-148.77	1,849.53	-5,875.49	6,800.88	6,633.00	167.88	40.511		
4,400.00	4,323.43	4,356.43	4,356.43	25.27	150.37	-148.86	1,849.53	-5,875.49	6,818.02	6,646.23	171.78	39.689		
4,507.81	4,429.08	4,462.08	4,462.08	25.92	154.06	-148.95	1,849.53	-5,875.49	6,836.51	6,660.52	176.00	38.845		
4,600.00	4,519.70	4,552.70	4,552.70	26.45	157.22	-149.18	1,849.53	-5,875.49	6,851.09	6,671.49	179.60	38.146		
4,700.00	4,618.56	4,651.56	4,651.56	26.98	160.67	-149.38	1,849.53	-5,875.49	6,864.06	6,680.55	183.51	37.404		
4,800.00	4,717.88	4,750.88	4,750.88	27.46	164.14	-149.53	1,849.53	-5,875.49	6,874.05	6,686.64	187.42	36.678		
4,900.00	4,817.54	4,850.54	4,850.54	27.89	167.62	-149.63	1,849.53	-5,875.49	6,881.05	6,689.73	191.32	35.967		
5,000.00	4,917.43	4,950.43	4,950.43	28.28	171.11	-149.69	1,849.53	-5,875.49	6,885.05	6,689.84	195.21	35.270		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,033.00	5,033.00	28.57	173.99	-76.56	1,849.53	-5,875.49	6,886.07	6,687.67	198.41	34.707		
5,100.00	5,017.42	5,050.42	5,050.42	28.62	174.60	-76.56	1,849.53	-5,875.49	6,886.07	6,686.99	199.08	34.590		
5,200.00	5,117.42	5,150.42	5,150.42	28.95	178.09	-76.56	1,849.53	-5,875.49	6,886.07	6,683.13	202.94	33.931		
5,300.00	5,217.42	5,250.42	5,250.42	29.28	181.58	-76.56	1,849.53	-5,875.49	6,886.07	6,679.27	206.81	33.297		
5,400.00	5,317.42	5,350.42	5,350.42	29.62	185.07	-76.56	1,849.53	-5,875.49	6,886.07	6,675.40	210.67	32.686		
5,500.00	5,417.42	5,450.42	5,450.42	29.96	188.56	-76.56	1,849.53	-5,875.49	6,886.07	6,671.53	214.54	32.097		
5,600.00	5,517.42	5,550.42	5,550.42	30.29	192.05	-76.56	1,849.53	-5,875.49	6,886.07	6,667.66	218.41	31.528		
5,700.00	5,617.42	5,650.42	5,650.42	30.64	195.54	-76.56	1,849.53	-5,875.49	6,886.07	6,663.79	222.28	30.979		
5,800.00	5,717.42	5,750.42	5,750.42	30.98	199.03	-76.56	1,849.53	-5,875.49	6,886.07	6,659.91	226.16	30.448		
5,900.00	5,817.42	5,850.42	5,850.42	31.33	202.52	-76.56	1,849.53	-5,875.49	6,886.07	6,656.04	230.03	29.935		
6,000.00	5,917.42	5,950.42	5,950.42	31.68	206.01	-76.56	1,849.53	-5,875.49	6,886.07	6,652.16	233.91	29.439		
6,100.00	6,017.42	6,050.42	6,050.42	32.03	209.50	-76.56	1,849.53	-5,875.49	6,886.07	6,648.28	237.79	28.959		
6,200.00	6,117.42	6,150.42	6,150.42	32.38	212.99	-76.56	1,849.53	-5,875.49	6,886.07	6,644.40	241.67	28.494		
6,300.00	6,217.42	6,250.42	6,250.42	32.74	216.48	-76.56	1,849.53	-5,875.49	6,886.07	6,640.52	245.55	28.043		
6,400.00	6,317.42	6,350.42	6,350.42	33.09	219.97	-76.56	1,849.53	-5,875.49	6,886.07	6,636.64	249.44	27.607		
6,476.01	6,393.43	6,426.43	6,426.43	33.37	222.63	-76.56	1,849.53	-5,875.49	6,886.07	6,633.68	252.39	27.284		
6,500.00	6,417.42	6,450.42	6,450.42	33.45	223.46	15.79	1,849.53	-5,875.49	6,885.64	6,632.32	253.32	27.182		
6,550.00	6,467.25	6,500.25	6,500.25	33.59	225.20	15.89	1,849.53	-5,875.49	6,881.94	6,626.71	255.23	26.964		
6,600.00	6,516.64	6,549.64	6,549.64	33.71	226.93	16.09	1,849.53	-5,875.49	6,874.49	6,617.38	257.11	26.737		
6,650.00	6,565.26	6,601.74	6,598.26	33.80	228.75	16.41	1,849.53	-5,875.49	6,863.34	6,604.26	259.08	26.491		
6,700.00	6,612.83	6,645.83	6,645.83	33.88	230.28	16.84	1,849.53	-5,875.49	6,848.55	6,587.80	260.75	26.265		
6,750.00	6,659.04	6,707.96	6,692.04	33.94	232.45	17.41	1,849.53	-5,875.49	6,830.22	6,567.18	263.04	25.967		
6,800.00	6,703.62	6,736.62	6,736.62	33.99	233.45	18.13	1,849.53	-5,875.49	6,808.47	6,544.33	264.14	25.776		
6,850.00	6,746.28	6,779.28	6,779.28	34.03	234.94	19.03	1,849.53	-5,875.49	6,783.42	6,517.71	265.72	25.529		
6,900.00	6,786.76	6,819.76	6,819.76	34.08	236.36	20.14	1,849.53	-5,875.49	6,755.25	6,488.04	267.21	25.281		
6,950.00	6,824.83	6,857.83	6,857.83	34.13	237.68	21.51	1,849.53	-5,875.49	6,724.12	6,455.52	268.60	25.034		
7,000.00	6,860.23	6,906.77	6,893.23	34.20	239.39	23.20	1,849.53	-5,875.49	6,690.23	6,419.88	270.36	24.746		
7,050.00	6,892.75	6,925.75	6,925.75	34.30	240.06	25.30	1,849.53	-5,875.49	6,653.80	6,382.74	271.06	24.547		
7,100.00	6,922.20	6,955.20	6,955.20	34.43	241.08	27.91	1,849.53	-5,875.49	6,615.05	6,342.92	272.12	24.309		
7,150.00	6,948.38	6,981.38	6,981.38	34.60	242.00	31.22	1,849.53	-5,875.49	6,574.22	6,301.15	273.07	24.076		
7,200.00	6,971.15	7,004.15	7,004.15	34.82	242.79	35.45	1,849.53	-5,875.49	6,531.57	6,257.68	273.89	23.848		
7,250.00	6,990.35	7,023.35	7,023.35	35.09	243.46	40.92	1,849.53	-5,875.49	6,487.37	6,212.79	274.58	23.627		
7,300.00	7,005.87	7,038.87	7,038.87	35.43	244.00	48.05	1,849.53	-5,875.49	6,441.89	6,166.74	275.15	23.413		
7,350.00	7,017.62	7,050.62	7,050.62	35.81	244.41	57.28	1,849.53	-5,875.49	6,395.41	6,119.83	275.58	23.207		
7,400.00	7,025.52	7,058.52	7,058.52	36.26	244.69	68.89	1,849.53	-5,875.49	6,348.23	6,072.34	275.89	23.010		
7,450.00	7,029.52	7,062.52	7,062.52	36.75	244.83	82.52	1,849.53	-5,875.49	6,300.64	6,024.57	276.07	22.823		
7,483.86	7,030.00	7,063.00	7,063.00	37.12	244.85	92.26	1,849.53	-5,875.49	6,268.32	5,992.20	276.12	22.702		
7,500.00	7,029.80	7,062.80	7,062.80	37.30	244.84	92.25	1,849.53	-5,875.49	6,252.92	5,976.79	276.13	22.645		
7,600.00	7,028.57	7,061.57	7,061.57	38.58	244.80	92.21	1,849.53	-5,875.49	6,157.59	5,881.37	276.21	22.293		
7,700.00	7,027.34	7,060.34	7,060.34	40.10	244.75	92.18	1,849.53	-5,875.49	6,062.40	5,786.06	276.34	21.938		
7,800.00	7,026.10	7,059.10	7,059.10	41.83	244.71	92.14	1,849.53	-5,875.49	5,967.38	5,690.86	276.51	21.581		
7,900.00	7,024.87	7,057.87	7,057.87	43.74	244.67	92.10	1,849.53	-5,875.49	5,872.51	5,595.78	276.73	21.221		
8,000.00	7,023.63	7,056.63	7,056.63	45.82	244.62	92.06	1,849.53	-5,875.49	5,777.83	5,500.82	277.00	20.858		
8,100.00	7,022.40	7,055.40	7,055.40	48.04	244.58	92.03	1,849.53	-5,875.49	5,683.32	5,405.99	277.33	20.493		
8,200.00	7,021.17	7,054.17	7,054.17	50.38	244.54	91.99	1,849.53	-5,875.49	5,589.00	5,311.28	277.72	20.125		
8,300.00	7,019.93	7,052.93	7,052.93	52.82	244.49	91.95	1,849.53	-5,875.49	5,494.89	5,216.72	278.17	19.754		
8,400.00	7,018.70	7,051.70	7,051.70	55.35	244.45	91.91	1,849.53	-5,875.49	5,400.98	5,122.30	278.68	19.380		
8,500.00	7,017.47	7,050.47	7,050.47	57.97	244.41	91.87	1,849.53	-5,875.49	5,307.30	5,028.03	279.27	19.004		
8,600.00	7,016.23	7,049.23	7,049.23	60.65	244.37	91.84	1,849.53	-5,875.49	5,213.86	4,933.93	279.92	18.626		
8,700.00	7,015.00	7,048.00	7,048.00	63.39	244.32	91.80	1,849.53	-5,875.49	5,120.66	4,840.00	280.66	18.245		
8,800.00	7,013.76	7,046.76	7,046.76	66.19	244.28	91.76	1,849.53	-5,875.49	5,027.72	4,746.25	281.47	17.863		
8,900.00	7,012.53	7,045.53	7,045.53	69.03	244.24	91.72	1,849.53	-5,875.49	4,935.05	4,652.69	282.36	17.478		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,044.30	7,044.30	71.91	244.19	91.69	1,849.53	-5,875.49	4,842.68	4,559.34	283.34	17.092		
9,100.00	7,010.06	7,043.06	7,043.06	74.83	244.15	91.65	1,849.53	-5,875.49	4,750.62	4,466.21	284.41	16.704		
9,200.00	7,008.83	7,041.83	7,041.83	77.78	244.11	91.61	1,849.53	-5,875.49	4,658.88	4,373.32	285.57	16.315		
9,300.00	7,007.60	7,040.60	7,040.60	80.76	244.06	91.57	1,849.53	-5,875.49	4,567.49	4,280.67	286.82	15.924		
9,400.00	7,006.36	7,039.36	7,039.36	83.76	244.02	91.54	1,849.53	-5,875.49	4,476.47	4,188.29	288.18	15.534		
9,500.00	7,005.13	7,038.13	7,038.13	86.79	243.98	91.50	1,849.53	-5,875.49	4,385.84	4,096.20	289.64	15.142		
9,600.00	7,003.90	7,036.90	7,036.90	89.84	243.94	91.46	1,849.53	-5,875.49	4,295.63	4,004.42	291.21	14.751		
9,700.00	7,002.66	7,035.66	7,035.66	92.90	243.89	91.42	1,849.53	-5,875.49	4,205.85	3,912.97	292.89	14.360		
9,800.00	7,001.43	7,034.43	7,034.43	95.99	243.85	91.38	1,849.53	-5,875.49	4,116.55	3,821.87	294.68	13.970		
9,900.00	7,000.19	7,033.19	7,033.19	99.08	243.81	91.35	1,849.53	-5,875.49	4,027.75	3,731.16	296.60	13.580		
10,000.00	6,998.96	7,031.96	7,031.96	102.19	243.76	91.31	1,849.53	-5,875.49	3,939.49	3,640.85	298.63	13.192		
10,100.00	6,997.73	7,030.73	7,030.73	105.32	243.72	91.27	1,849.53	-5,875.49	3,851.80	3,550.99	300.80	12.805		
10,200.00	6,996.49	7,029.49	7,029.49	108.45	243.68	91.23	1,849.53	-5,875.49	3,764.72	3,461.61	303.11	12.420		
10,300.00	6,995.26	7,028.26	7,028.26	111.60	243.63	91.20	1,849.53	-5,875.49	3,678.30	3,372.75	305.56	12.038		
10,400.00	6,994.03	7,027.03	7,027.03	114.75	243.59	91.16	1,849.53	-5,875.49	3,592.59	3,284.44	308.15	11.659		
10,500.00	6,992.79	7,025.79	7,025.79	117.92	243.55	91.12	1,849.53	-5,875.49	3,507.63	3,196.73	310.89	11.282		
10,600.00	6,991.56	7,024.56	7,024.56	121.09	243.50	91.08	1,849.53	-5,875.49	3,423.48	3,109.68	313.80	10.910		
10,700.00	6,990.33	7,023.33	7,023.33	124.27	243.46	91.04	1,849.53	-5,875.49	3,340.21	3,023.34	316.86	10.541		
10,800.00	6,989.09	7,022.09	7,022.09	127.46	243.42	91.01	1,849.53	-5,875.49	3,257.87	2,937.77	320.11	10.178		
10,900.00	6,987.86	7,020.86	7,020.86	130.65	243.38	90.97	1,849.53	-5,875.49	3,176.56	2,853.03	323.52	9.819		
11,000.00	6,986.62	7,019.62	7,019.62	133.85	243.33	90.93	1,849.53	-5,875.49	3,096.33	2,769.20	327.13	9.465		
11,100.00	6,985.39	7,018.39	7,018.39	137.06	243.29	90.89	1,849.53	-5,875.49	3,017.29	2,686.36	330.92	9.118		
11,200.00	6,984.16	7,017.16	7,017.16	140.27	243.25	90.86	1,849.53	-5,875.49	2,939.52	2,604.60	334.92	8.777		
11,300.00	6,982.92	7,015.92	7,015.92	143.48	243.20	90.82	1,849.53	-5,875.49	2,863.13	2,524.01	339.11	8.443		
11,400.00	6,981.69	7,014.69	7,014.69	146.70	243.16	90.78	1,849.53	-5,875.49	2,788.23	2,444.72	343.52	8.117		
11,500.00	6,980.46	7,013.46	7,013.46	149.92	243.12	90.74	1,849.53	-5,875.49	2,714.96	2,366.82	348.13	7.799		
11,600.00	6,979.22	7,012.22	7,012.22	153.15	243.07	90.70	1,849.53	-5,875.49	2,643.43	2,290.47	352.96	7.489		
11,700.00	6,977.99	7,010.99	7,010.99	156.38	243.03	90.67	1,849.53	-5,875.49	2,573.80	2,215.80	358.01	7.189		
11,800.00	6,976.75	7,009.75	7,009.75	159.62	242.99	90.63	1,849.53	-5,875.49	2,506.23	2,142.97	363.26	6.899		
11,900.00	6,975.52	7,008.52	7,008.52	162.86	242.94	90.59	1,849.53	-5,875.49	2,440.89	2,072.17	368.71	6.620		
12,000.00	6,974.29	7,007.29	7,007.29	166.10	242.90	90.55	1,849.53	-5,875.49	2,377.95	2,003.59	374.37	6.352		
12,100.00	6,973.05	7,006.05	7,006.05	169.34	242.86	90.52	1,849.53	-5,875.49	2,317.62	1,937.43	380.20	6.096		
12,200.00	6,971.82	7,004.82	7,004.82	172.59	242.82	90.48	1,849.53	-5,875.49	2,260.11	1,873.92	386.18	5.852		
12,300.00	6,970.59	7,003.59	7,003.59	175.84	242.77	90.44	1,849.53	-5,875.49	2,205.63	1,813.33	392.31	5.622		
12,400.00	6,969.35	7,002.35	7,002.35	179.09	242.73	90.40	1,849.53	-5,875.49	2,154.42	1,755.89	398.52	5.406		
12,500.00	6,968.12	7,001.12	7,001.12	182.35	242.69	90.36	1,849.53	-5,875.49	2,106.71	1,701.91	404.80	5.204		
12,600.00	6,966.89	7,000.11	6,999.89	185.60	242.65	90.33	1,849.53	-5,875.49	2,062.75	1,651.66	411.09	5.018		
12,700.00	6,965.65	7,001.35	6,998.65	188.86	242.69	90.29	1,849.53	-5,875.49	2,022.78	1,605.37	417.41	4.846		
12,800.00	6,964.42	7,002.58	6,997.42	192.12	242.74	90.25	1,849.53	-5,875.49	1,987.04	1,563.42	423.62	4.691		
12,900.00	6,963.18	7,003.82	6,996.18	195.38	242.78	90.21	1,849.53	-5,875.49	1,955.77	1,526.12	429.65	4.552		
13,000.00	6,961.95	7,005.05	6,994.95	198.65	242.82	90.18	1,849.53	-5,875.49	1,929.18	1,493.76	435.42	4.431		
13,100.00	6,960.72	7,006.28	6,993.72	201.91	242.87	90.14	1,849.53	-5,875.49	1,907.47	1,466.60	440.87	4.327		
13,200.00	6,959.48	7,007.52	6,992.48	205.18	242.91	90.10	1,849.53	-5,875.49	1,890.80	1,444.89	445.91	4.240		
13,300.00	6,958.25	7,008.75	6,991.25	208.45	242.95	90.06	1,849.53	-5,875.49	1,879.31	1,428.82	450.49	4.172		
13,400.00	6,957.02	7,009.98	6,990.02	211.72	243.00	90.03	1,849.53	-5,875.49	1,873.09	1,418.56	454.54	4.121		
13,466.60	6,956.19	6,989.19	6,989.19	213.90	242.27	90.00	1,849.53	-5,875.49	1,871.91	1,415.74	456.17	4.104 CC		
13,500.00	6,955.78	6,988.78	6,988.78	214.99	242.26	89.99	1,849.53	-5,875.49	1,872.21	1,414.97	457.24	4.095 ES		
13,600.00	6,954.55	6,987.55	6,987.55	218.27	242.21	89.95	1,849.53	-5,875.49	1,876.66	1,416.63	460.03	4.079 SF		
13,700.00	6,953.32	6,986.32	6,986.32	221.54	242.17	89.91	1,849.53	-5,875.49	1,886.40	1,424.20	462.20	4.081		
13,800.00	6,952.08	6,985.08	6,985.08	224.82	242.13	89.87	1,849.53	-5,875.49	1,901.36	1,437.60	463.76	4.100		
13,900.00	6,950.85	6,983.85	6,983.85	228.10	242.08	89.84	1,849.53	-5,875.49	1,921.42	1,456.70	464.72	4.135		
14,000.00	6,949.61	6,982.61	6,982.61	231.37	242.04	89.80	1,849.53	-5,875.49	1,946.41	1,481.31	465.10	4.185		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - LA POUDRE SOUTH #4 - OH - OH												Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,100.00	6,948.38	6,981.38	6,981.38	234.65	242.00	89.76	1,849.53	-5,875.49	1,976.15	1,511.21	464.94	4.250	
14,200.00	6,947.15	6,980.15	6,980.15	237.93	241.95	89.72	1,849.53	-5,875.49	2,010.43	1,546.13	464.30	4.330	
14,300.00	6,945.91	6,978.91	6,978.91	241.22	241.91	89.69	1,849.53	-5,875.49	2,049.02	1,585.80	463.22	4.423	
14,400.00	6,944.68	6,977.68	6,977.68	244.50	241.87	89.65	1,849.53	-5,875.49	2,091.68	1,629.92	461.77	4.530	
14,500.00	6,943.45	6,976.45	6,976.45	247.78	241.82	89.61	1,849.53	-5,875.49	2,138.17	1,678.19	459.98	4.648	
14,600.00	6,942.21	6,975.21	6,975.21	251.07	241.78	89.57	1,849.53	-5,875.49	2,188.25	1,730.32	457.93	4.779	
14,700.00	6,940.98	6,973.98	6,973.98	254.35	241.74	89.53	1,849.53	-5,875.49	2,241.67	1,786.01	455.66	4.920	
14,800.00	6,939.74	6,972.74	6,972.74	257.64	241.70	89.50	1,849.53	-5,875.49	2,298.20	1,844.99	453.21	5.071	
14,900.00	6,938.51	6,971.51	6,971.51	260.92	241.65	89.46	1,849.53	-5,875.49	2,357.62	1,906.98	450.64	5.232	
15,000.00	6,937.28	6,970.28	6,970.28	264.21	241.61	89.42	1,849.53	-5,875.49	2,419.71	1,971.75	447.96	5.402	
15,100.00	6,936.04	6,969.04	6,969.04	267.50	241.57	89.38	1,849.53	-5,875.49	2,484.28	2,039.05	445.23	5.580	
15,200.00	6,934.81	6,967.81	6,967.81	270.79	241.52	89.35	1,849.53	-5,875.49	2,551.13	2,108.67	442.45	5.766	
15,300.00	6,933.58	6,966.58	6,966.58	274.08	241.48	89.31	1,849.53	-5,875.49	2,620.09	2,180.42	439.67	5.959	
15,400.00	6,932.34	6,965.34	6,965.34	277.37	241.44	89.27	1,849.53	-5,875.49	2,691.00	2,254.12	436.89	6.160	
15,500.00	6,931.11	6,964.11	6,964.11	280.66	241.39	89.23	1,849.53	-5,875.49	2,763.71	2,329.59	434.13	6.366	
15,589.88	6,930.00	6,963.00	6,963.00	283.62	241.36	89.20	1,849.53	-5,875.49	2,830.49	2,398.81	431.68	6.557	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	15,759.97	7,060.91	3.28	285.54	-1.35	1,542.19	-36.45	7,272.40					
100.00	100.00	15,759.93	7,060.91	3.28	285.53	-1.36	1,542.18	-36.49	7,174.71	7,058.15	116.56	61.555		
200.00	200.00	15,759.88	7,060.91	3.34	285.53	-1.36	1,542.18	-36.53	7,077.08	6,960.18	116.91	60.536		
300.00	299.98	15,761.16	7,060.91	3.44	285.57	-83.33	1,542.22	-35.26	6,979.44	6,862.16	117.28	59.511		
400.00	399.84	15,765.07	7,060.91	3.60	285.70	-92.26	1,542.32	-31.35	6,881.77	6,764.09	117.68	58.478		
500.00	499.45	15,771.61	7,060.91	3.81	285.92	-100.88	1,542.50	-24.81	6,784.20	6,666.09	118.11	57.439		
600.00	598.70	15,780.78	7,060.90	4.08	286.22	-108.84	1,542.77	-15.65	6,686.83	6,568.26	118.57	56.397		
700.00	697.47	15,792.57	7,060.89	4.40	286.61	-115.94	1,543.13	-3.86	6,589.79	6,470.74	119.05	55.353		
774.77	770.92	15,803.10	7,060.89	4.68	286.95	-120.65	1,543.48	6.67	6,517.51	6,398.08	119.43	54.572		
800.00	795.65	15,806.91	7,060.89	4.78	287.08	-120.56	1,543.61	10.46	6,493.17	6,373.61	119.56	54.308		
900.00	893.64	15,824.81	7,060.88	5.20	287.67	-120.15	1,544.24	28.36	6,396.74	6,276.60	120.14	53.243		
1,000.00	991.63	15,845.28	7,060.88	5.66	288.34	-119.67	1,544.92	48.82	6,300.36	6,179.58	120.79	52.161		
1,100.00	1,089.63	15,865.79	7,060.88	6.15	289.01	-119.18	1,545.56	69.32	6,204.03	6,082.58	121.46	51.081		
1,200.00	1,187.62	15,886.36	7,060.89	6.65	289.69	-118.69	1,546.16	89.87	6,107.76	5,985.60	122.15	50.001		
1,300.00	1,285.62	15,906.96	7,060.91	7.17	290.36	-118.18	1,546.72	110.47	6,011.54	5,888.66	122.88	48.922		
1,400.00	1,383.61	15,927.62	7,060.93	7.71	291.04	-117.67	1,547.23	131.12	5,915.37	5,791.73	123.64	47.844		
1,500.00	1,481.60	15,948.33	7,060.96	8.25	291.72	-117.15	1,547.69	151.82	5,819.27	5,694.84	124.43	46.767		
1,600.00	1,579.60	15,964.42	7,060.99	8.80	292.25	-116.73	1,548.09	167.92	5,723.24	5,598.05	125.19	45.715		
1,700.00	1,677.59	15,981.94	7,061.01	9.36	292.83	-116.28	1,548.55	185.42	5,627.29	5,501.28	126.01	44.656		
1,800.00	1,775.59	15,999.43	7,061.02	9.92	293.40	-115.81	1,549.04	202.91	5,531.42	5,404.55	126.87	43.598		
1,900.00	1,873.58	16,016.91	7,061.04	10.49	293.98	-115.34	1,549.57	220.38	5,435.64	5,307.87	127.78	42.540		
2,000.00	1,971.57	16,034.72	7,061.05	11.06	294.56	-114.86	1,550.14	238.19	5,339.95	5,211.22	128.73	41.482		
2,100.00	2,069.57	16,056.56	7,061.06	11.64	295.28	-114.25	1,550.83	260.01	5,244.35	5,114.56	129.79	40.406		
2,200.00	2,167.56	16,078.36	7,061.07	12.22	295.99	-113.63	1,551.50	281.80	5,148.83	5,017.93	130.90	39.334		
2,300.00	2,265.56	16,100.12	7,061.07	12.80	296.71	-113.01	1,552.14	303.55	5,053.41	4,921.34	132.06	38.266		
2,400.00	2,363.55	16,121.84	7,061.08	13.38	297.42	-112.37	1,552.74	325.27	4,958.07	4,824.80	133.27	37.202		
2,500.00	2,461.54	16,143.53	7,061.08	13.97	298.14	-111.73	1,553.31	346.95	4,862.84	4,728.30	134.55	36.143		
2,600.00	2,559.54	16,165.18	7,061.08	14.55	298.85	-111.08	1,553.86	368.59	4,767.72	4,631.85	135.88	35.089		
2,700.00	2,657.53	16,175.00	7,061.08	15.14	299.17	-110.77	1,554.11	378.41	4,672.74	4,535.65	137.09	34.085		
2,800.00	2,755.53	16,175.00	7,061.08	15.73	299.17	-110.77	1,554.11	378.41	4,577.95	4,439.73	138.21	33.123		
2,900.00	2,853.52	16,175.00	7,061.08	16.32	299.17	-110.77	1,554.11	378.41	4,483.38	4,343.98	139.40	32.162		
3,000.00	2,951.52	16,175.00	7,061.08	16.91	299.17	-110.77	1,554.11	378.41	4,389.06	4,248.41	140.66	31.204		
3,100.00	3,049.51	16,175.00	7,061.08	17.51	299.17	-110.77	1,554.11	378.41	4,295.00	4,153.01	141.98	30.250		
3,200.00	3,147.50	16,175.00	7,061.08	18.10	299.17	-110.77	1,554.11	378.41	4,201.21	4,057.82	143.38	29.301		
3,300.00	3,245.50	16,175.00	7,061.08	18.70	299.17	-110.77	1,554.11	378.41	4,107.71	3,962.84	144.86	28.356		
3,400.00	3,343.49	16,175.00	7,061.08	19.29	299.17	-110.77	1,554.11	378.41	4,014.52	3,868.10	146.42	27.417		
3,500.00	3,441.49	16,175.00	7,061.08	19.89	299.17	-110.77	1,554.11	378.41	3,921.67	3,773.60	148.07	26.485		
3,600.00	3,539.48	16,175.00	7,061.08	20.48	299.17	-110.77	1,554.11	378.41	3,829.19	3,679.37	149.81	25.560		
3,700.00	3,637.47	16,175.00	7,061.08	21.08	299.17	-110.77	1,554.11	378.41	3,737.08	3,585.44	151.65	24.643		
3,800.00	3,735.47	16,175.00	7,061.08	21.68	299.17	-110.77	1,554.11	378.41	3,645.40	3,491.81	153.58	23.736		
3,900.00	3,833.46	16,175.00	7,061.08	22.27	299.17	-110.77	1,554.11	378.41	3,554.16	3,398.53	155.63	22.838		
4,000.00	3,931.46	16,175.00	7,061.08	22.87	299.17	-110.77	1,554.11	378.41	3,463.41	3,305.62	157.78	21.950		
4,100.00	4,029.45	16,175.00	7,061.08	23.47	299.17	-110.77	1,554.11	378.41	3,373.18	3,213.12	160.06	21.075		
4,200.00	4,127.44	16,175.00	7,061.08	24.07	299.17	-110.77	1,554.11	378.41	3,283.51	3,121.05	162.46	20.211		
4,300.00	4,225.44	16,175.00	7,061.08	24.67	299.17	-110.77	1,554.11	378.41	3,194.46	3,029.47	164.99	19.361		
4,400.00	4,323.43	16,175.00	7,061.08	25.27	299.17	-110.77	1,554.11	378.41	3,106.08	2,938.41	167.67	18.525		
4,507.81	4,429.08	16,175.00	7,061.08	25.92	299.17	-110.77	1,554.11	378.41	3,011.61	2,840.89	170.72	17.641		
4,600.00	4,519.70	16,175.00	7,061.08	26.45	299.17	-107.69	1,554.11	378.41	2,931.30	2,757.79	173.51	16.894		
4,700.00	4,618.56	16,175.00	7,061.08	26.98	299.17	-104.33	1,554.11	378.41	2,844.49	2,667.70	176.79	16.090		
4,800.00	4,717.88	16,175.00	7,061.08	27.46	299.17	-100.98	1,554.11	378.41	2,758.13	2,577.78	180.35	15.293		
4,900.00	4,817.54	16,175.00	7,061.08	27.89	299.17	-97.69	1,554.11	378.41	2,672.37	2,488.16	184.21	14.507		
5,000.00	4,917.43	16,175.00	7,061.08	28.28	299.17	-94.49	1,554.11	378.41	2,587.38	2,398.98	188.40	13.733		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	16,175.00	7,061.08	28.57	299.17	-18.77	1,554.11	378.41	2,517.91	2,325.78	192.12	13.106		
5,100.00	5,017.42	16,175.00	7,061.08	28.62	299.17	-18.77	1,554.11	378.41	2,503.35	2,310.41	192.94	12.975		
5,200.00	5,117.42	16,175.00	7,061.08	28.95	299.17	-18.77	1,554.11	378.41	2,420.50	2,222.71	197.79	12.238		
5,300.00	5,217.42	16,175.00	7,061.08	29.28	299.17	-18.77	1,554.11	378.41	2,338.99	2,136.05	202.94	11.525		
5,400.00	5,317.42	16,175.00	7,061.08	29.62	299.17	-18.77	1,554.11	378.41	2,258.97	2,050.57	208.40	10.839		
5,500.00	5,417.42	16,175.00	7,061.08	29.96	299.17	-18.77	1,554.11	378.41	2,180.60	1,966.42	214.18	10.181		
5,600.00	5,517.42	16,175.00	7,061.08	30.29	299.17	-18.77	1,554.11	378.41	2,104.07	1,883.79	220.28	9.552		
5,700.00	5,617.42	16,175.00	7,061.08	30.64	299.17	-18.77	1,554.11	378.41	2,029.57	1,802.87	226.70	8.953		
5,800.00	5,717.42	16,175.00	7,061.08	30.98	299.17	-18.77	1,554.11	378.41	1,957.35	1,723.92	233.43	8.385		
5,900.00	5,817.42	16,175.00	7,061.08	31.33	299.17	-18.77	1,554.11	378.41	1,887.67	1,647.22	240.46	7.850		
6,000.00	5,917.42	16,175.00	7,061.08	31.68	299.17	-18.77	1,554.11	378.41	1,820.82	1,573.08	247.74	7.350		
6,100.00	6,017.42	16,175.00	7,061.08	32.03	299.17	-18.77	1,554.11	378.41	1,757.11	1,501.88	255.23	6.884		
6,200.00	6,117.42	16,175.00	7,061.08	32.38	299.17	-18.77	1,554.11	378.41	1,696.91	1,434.05	262.86	6.456		
6,300.00	6,217.42	16,175.00	7,061.08	32.74	299.17	-18.77	1,554.11	378.41	1,640.60	1,370.07	270.53	6.064		
6,400.00	6,317.42	16,175.00	7,061.08	33.09	299.17	-18.77	1,554.11	378.41	1,588.60	1,310.48	278.12	5.712		
6,476.01	6,393.43	16,175.00	7,061.08	33.37	299.17	-18.77	1,554.11	378.41	1,552.22	1,268.47	283.75	5.470		
6,500.00	6,417.42	16,175.00	7,061.08	33.45	299.17	74.63	1,554.11	378.41	1,541.22	1,255.72	285.51	5.398		
6,550.00	6,467.25	16,175.00	7,061.08	33.59	299.17	76.85	1,554.11	378.41	1,518.60	1,229.37	289.22	5.251		
6,600.00	6,516.64	16,175.00	7,061.08	33.71	299.17	79.02	1,554.11	378.41	1,496.48	1,203.48	293.00	5.107		
6,650.00	6,565.26	16,175.00	7,061.08	33.80	299.17	81.12	1,554.11	378.41	1,475.05	1,178.23	296.82	4.970		
6,700.00	6,612.83	16,175.00	7,061.08	33.88	299.17	83.13	1,554.11	378.41	1,454.46	1,153.82	300.64	4.838		
6,750.00	6,659.04	16,175.00	7,061.08	33.94	299.17	85.04	1,554.11	378.41	1,434.89	1,130.45	304.44	4.713		
6,800.00	6,703.62	16,175.00	7,061.08	33.99	299.17	86.81	1,554.11	378.41	1,416.49	1,108.31	308.18	4.596		
6,850.00	6,746.28	16,175.00	7,061.08	34.03	299.17	88.45	1,554.11	378.41	1,399.43	1,087.61	311.82	4.488		
6,900.00	6,786.76	16,175.00	7,061.08	34.08	299.17	89.92	1,554.11	378.41	1,383.86	1,068.54	315.31	4.389		
6,950.00	6,824.83	16,175.00	7,061.08	34.13	299.17	91.23	1,554.11	378.41	1,369.93	1,051.30	318.63	4.299		
7,000.00	6,860.23	16,175.00	7,061.08	34.20	299.17	92.35	1,554.11	378.41	1,357.79	1,036.06	321.73	4.220		
7,050.00	6,892.75	16,175.00	7,061.08	34.30	299.17	93.29	1,554.11	378.41	1,347.55	1,022.98	324.57	4.152		
7,100.00	6,922.20	16,175.00	7,061.08	34.43	299.17	94.04	1,554.11	378.41	1,339.32	1,012.21	327.11	4.094		
7,150.00	6,948.38	16,175.00	7,061.08	34.60	299.17	94.60	1,554.11	378.41	1,333.19	1,003.87	329.32	4.048		
7,200.00	6,971.15	16,175.00	7,061.08	34.82	299.17	94.95	1,554.11	378.41	1,329.23	998.05	331.17	4.014		
7,250.00	6,990.35	16,170.15	7,061.08	35.09	299.01	95.04	1,553.99	373.55	1,327.47	995.05	332.41	3.993 ES, SF		
7,300.00	7,005.87	16,120.08	7,061.08	35.43	297.37	94.42	1,552.69	323.51	1,326.90	995.59	331.31	4.005		
7,350.00	7,017.62	16,066.97	7,061.06	35.81	295.62	93.90	1,551.16	270.42	1,326.62	996.59	330.04	4.020		
7,389.09	7,024.13	16,026.49	7,061.04	36.16	294.29	93.62	1,549.87	229.96	1,326.54	997.44	329.10	4.031		
7,400.00	7,025.52	16,017.06	7,061.04	36.26	293.98	93.56	1,549.57	220.53	1,326.55	997.63	328.93	4.033		
7,450.00	7,029.52	15,973.61	7,061.00	36.75	292.55	93.38	1,548.33	177.10	1,326.91	998.76	328.15	4.044		
7,483.86	7,030.00	15,945.80	7,060.96	37.12	291.64	93.31	1,547.64	149.30	1,327.42	999.73	327.70	4.051		
7,500.00	7,029.80	15,927.01	7,060.93	37.30	291.02	93.32	1,547.21	130.51	1,327.73	1,000.50	327.22	4.058		
7,600.00	7,028.57	15,811.63	7,060.88	38.58	287.23	93.37	1,543.77	15.18	1,328.88	1,004.42	324.45	4.096		
7,700.00	7,027.34	15,734.24	7,060.93	40.10	284.69	93.42	1,541.55	-62.18	1,330.20	1,006.41	323.79	4.108		
7,800.00	7,026.10	15,626.84	7,060.98	41.83	281.16	93.47	1,539.28	-169.55	1,332.23	1,010.36	321.87	4.139		
7,900.00	7,024.87	15,525.60	7,061.03	43.74	277.84	93.52	1,536.84	-270.76	1,333.97	1,013.54	320.43	4.163		
8,000.00	7,023.63	15,416.02	7,060.95	45.82	274.24	93.57	1,533.70	-380.29	1,335.25	1,016.51	318.73	4.189		
8,100.00	7,022.40	15,321.13	7,060.91	48.04	271.13	93.62	1,530.57	-475.13	1,336.10	1,018.19	317.91	4.203		
8,200.00	7,021.17	15,254.00	7,060.53	50.38	268.93	93.63	1,529.29	-542.25	1,338.42	1,019.93	318.49	4.202		
8,300.00	7,019.93	15,184.82	7,060.17	52.82	266.65	93.65	1,529.61	-611.42	1,343.10	1,024.19	318.91	4.211		
8,400.00	7,018.70	14,974.01	7,055.15	55.35	259.75	93.53	1,524.37	-821.98	1,344.12	1,031.23	312.89	4.296		
8,500.00	7,017.47	14,870.02	7,051.51	57.97	256.37	93.44	1,517.79	-925.70	1,341.73	1,029.70	312.02	4.300		
8,600.00	7,016.23	14,784.24	7,048.50	60.65	253.58	93.36	1,512.76	-1,011.27	1,339.79	1,027.55	312.25	4.291		
8,700.00	7,015.00	14,696.84	7,046.07	63.39	250.73	93.30	1,508.46	-1,098.54	1,338.85	1,026.45	312.41	4.286		
8,788.40	7,013.91	14,614.62	7,044.36	65.86	248.05	93.27	1,504.96	-1,180.66	1,338.65	1,026.34	312.31	4.286		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	14,603.84	7,044.13	66.19	247.70	93.27	1,504.53	-1,191.43	1,338.65	1,026.35	312.30	4.286		
8,900.00	7,012.53	14,513.01	7,043.14	69.03	244.73	93.28	1,501.11	-1,282.19	1,338.97	1,026.64	312.33	4.287		
9,000.00	7,011.30	14,384.69	7,043.63	71.91	240.55	93.37	1,495.25	-1,410.37	1,338.55	1,028.13	310.42	4.312		
9,100.00	7,010.06	14,265.08	7,044.06	74.83	236.68	93.45	1,487.83	-1,529.75	1,336.53	1,027.60	308.93	4.326		
9,200.00	7,008.83	14,140.89	7,044.23	77.78	232.67	93.54	1,478.02	-1,653.55	1,332.78	1,025.65	307.14	4.339		
9,300.00	7,007.60	14,040.60	7,044.39	80.76	229.45	93.61	1,469.12	-1,753.45	1,328.07	1,021.25	306.82	4.329		
9,400.00	7,006.36	13,946.00	7,044.56	83.76	226.41	93.68	1,460.89	-1,847.68	1,323.53	1,016.65	306.88	4.313		
9,500.00	7,005.13	13,864.82	7,044.75	86.79	223.80	93.74	1,454.55	-1,928.61	1,319.90	1,012.13	307.78	4.289		
9,600.00	7,003.90	13,777.88	7,045.01	89.84	220.99	93.81	1,448.91	-2,015.37	1,317.58	1,009.28	308.31	4.274		
9,700.00	7,002.66	13,700.00	7,045.30	92.90	218.47	93.86	1,444.77	-2,093.14	1,316.47	1,007.15	309.32	4.256		
9,710.02	7,002.54	13,692.47	7,045.32	93.21	218.23	93.87	1,444.45	-2,100.66	1,316.46	1,007.02	309.44	4.254		
9,800.00	7,001.43	13,616.02	7,045.61	95.99	215.75	93.92	1,441.77	-2,177.06	1,317.04	1,007.08	309.96	4.249		
9,900.00	7,000.19	13,534.17	7,046.06	99.08	213.08	93.98	1,439.57	-2,258.89	1,318.59	1,007.92	310.67	4.244		
10,000.00	6,998.96	13,446.03	7,046.20	102.19	210.21	94.02	1,438.83	-2,347.02	1,321.85	1,010.80	311.06	4.250		
10,100.00	6,997.73	13,348.97	7,046.27	105.32	207.05	94.07	1,437.53	-2,444.08	1,324.69	1,013.66	311.03	4.259		
10,200.00	6,996.49	13,275.87	7,046.45	108.45	204.66	94.11	1,437.92	-2,517.17	1,329.35	1,017.32	312.03	4.260		
10,300.00	6,995.26	13,176.29	7,046.66	111.60	201.41	94.15	1,439.55	-2,616.74	1,335.14	1,023.24	311.90	4.281		
10,400.00	6,994.03	13,006.87	7,047.19	114.75	195.89	94.25	1,438.02	-2,786.13	1,338.63	1,030.07	308.56	4.338		
10,500.00	6,992.79	12,884.35	7,047.42	117.92	191.95	94.32	1,431.82	-2,908.48	1,337.66	1,030.41	307.25	4.354		
10,600.00	6,991.56	12,792.03	7,047.45	121.09	188.98	94.38	1,427.13	-3,000.69	1,336.74	1,029.17	307.58	4.346		
10,700.00	6,990.33	12,671.04	7,047.51	124.27	185.11	94.45	1,420.67	-3,121.50	1,335.65	1,029.33	306.32	4.360		
10,800.00	6,989.09	12,560.70	7,047.62	127.46	181.59	94.52	1,412.74	-3,231.56	1,332.61	1,026.97	305.65	4.360		
10,900.00	6,987.86	12,437.10	7,047.82	130.65	177.67	94.61	1,402.74	-3,354.75	1,328.72	1,024.58	304.15	4.369		
11,000.00	6,986.62	12,358.00	7,048.01	133.85	175.17	94.68	1,395.38	-3,433.51	1,323.84	1,018.46	305.38	4.335		
11,100.00	6,985.39	12,290.98	7,047.74	137.06	173.04	94.71	1,390.55	-3,500.34	1,321.10	1,013.88	307.23	4.300		
11,116.80	6,985.18	12,282.11	7,047.64	137.59	172.76	94.71	1,390.14	-3,509.21	1,321.02	1,013.37	307.65	4.294		
11,200.00	6,984.16	12,228.15	7,046.75	140.27	171.03	94.70	1,388.58	-3,563.14	1,321.89	1,012.78	309.11	4.276		
11,300.00	6,982.92	12,124.02	7,044.21	143.48	167.69	94.63	1,387.32	-3,667.22	1,324.69	1,015.79	308.90	4.288		
11,400.00	6,981.69	11,961.58	7,040.21	146.70	162.52	94.55	1,379.01	-3,829.39	1,323.24	1,017.70	305.54	4.331		
11,500.00	6,980.46	11,870.37	7,038.21	149.92	159.64	94.53	1,372.71	-3,920.35	1,320.36	1,014.30	306.07	4.314		
11,600.00	6,979.22	11,797.00	7,037.44	153.15	157.32	94.53	1,368.75	-3,993.61	1,319.04	1,011.49	307.55	4.289		
11,604.44	6,979.17	11,797.00	7,037.44	153.30	157.32	94.53	1,368.75	-3,993.61	1,319.03	1,011.25	307.78	4.286		
11,700.00	6,977.99	11,730.25	7,037.15	156.38	155.20	94.56	1,366.63	-4,060.32	1,319.99	1,010.75	309.23	4.269		
11,800.00	6,976.75	11,646.82	7,036.69	159.62	152.54	94.57	1,365.79	-4,143.75	1,323.04	1,013.04	310.00	4.268		
11,900.00	6,975.52	11,554.00	7,036.51	162.86	149.57	94.60	1,365.35	-4,236.57	1,326.72	1,016.40	310.32	4.275		
12,000.00	6,974.29	11,436.88	7,036.53	166.10	145.84	94.65	1,364.78	-4,353.69	1,330.45	1,020.90	309.55	4.298		
12,100.00	6,973.05	11,335.36	7,036.69	169.34	142.63	94.70	1,363.06	-4,455.19	1,332.94	1,023.44	309.49	4.307		
12,200.00	6,971.82	11,243.53	7,036.49	172.59	139.72	94.73	1,361.87	-4,547.01	1,335.79	1,025.90	309.89	4.310		
12,300.00	6,970.59	11,153.24	7,035.37	175.84	136.86	94.72	1,361.40	-4,637.29	1,339.32	1,028.96	310.36	4.315		
12,400.00	6,969.35	11,024.43	7,033.23	179.09	132.81	94.68	1,359.85	-4,766.07	1,342.15	1,033.03	309.12	4.342		
12,500.00	6,968.12	10,919.74	7,031.56	182.35	129.53	94.66	1,357.19	-4,870.72	1,343.65	1,034.68	308.96	4.349		
12,600.00	6,966.89	10,826.57	7,030.15	185.60	126.63	94.65	1,354.82	-4,963.85	1,345.16	1,035.79	309.37	4.348		
12,700.00	6,965.65	10,677.36	7,027.26	188.86	122.01	94.60	1,350.63	-5,112.96	1,346.91	1,039.93	306.98	4.388		
12,800.00	6,964.42	10,455.12	7,022.33	192.12	115.47	94.56	1,323.38	-5,333.34	1,336.22	1,036.83	299.40	4.463		
12,900.00	6,963.18	10,388.29	7,021.63	195.38	113.54	94.59	1,314.29	-5,399.54	1,326.67	1,024.80	301.87	4.395		
13,000.00	6,961.95	10,304.00	7,021.01	198.65	111.10	94.63	1,304.01	-5,483.20	1,318.63	1,015.57	303.06	4.351		
13,100.00	6,960.72	10,241.61	7,020.97	201.91	109.27	94.68	1,297.62	-5,545.27	1,312.65	1,007.06	305.59	4.295		
13,200.00	6,959.48	10,172.81	7,021.79	205.18	107.25	94.76	1,292.67	-5,613.88	1,309.64	1,002.10	307.54	4.258		
13,300.00	6,958.25	10,087.80	7,023.15	208.45	104.75	94.87	1,287.90	-5,698.75	1,308.32	999.83	308.50	4.241		
13,398.12	6,957.04	10,001.13	7,024.80	211.66	102.21	94.99	1,283.55	-5,785.29	1,307.68	998.45	309.23	4.229 CC		
13,400.00	6,957.02	9,999.78	7,024.83	211.72	102.17	94.99	1,283.49	-5,786.63	1,307.68	998.42	309.26	4.228		
13,500.00	6,955.78	9,932.00	7,026.16	214.99	100.19	95.09	1,281.27	-5,854.36	1,308.82	997.85	310.97	4.209		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,600.00	6,954.55	9,862.38	7,027.50	218.27	98.14	95.17	1,280.65	-5,923.97	1,312.34	999.91	312.43	4.200		
13,700.00	6,953.32	9,792.75	7,028.84	221.54	96.08	95.25	1,281.84	-5,993.57	1,318.36	1,004.62	313.74	4.202		
13,800.00	6,952.08	9,716.18	7,030.19	224.82	93.82	95.33	1,284.78	-6,070.07	1,326.47	1,011.79	314.68	4.215		
13,900.00	6,950.85	9,631.97	7,030.73	228.10	91.34	95.36	1,289.12	-6,154.17	1,335.83	1,020.50	315.33	4.236		
14,000.00	6,949.61	9,555.15	7,030.84	231.37	89.09	95.38	1,294.28	-6,230.81	1,346.69	1,030.54	316.14	4.260		
14,100.00	6,948.38	9,416.36	7,030.94	234.65	85.08	95.40	1,302.85	-6,369.33	1,357.03	1,041.68	315.35	4.303		
14,200.00	6,947.15	9,285.64	7,030.62	237.93	81.42	95.41	1,307.23	-6,499.98	1,364.45	1,049.78	314.68	4.336		
14,300.00	6,945.91	9,204.31	7,029.77	241.22	79.20	95.39	1,309.62	-6,581.26	1,371.49	1,055.89	315.60	4.346		
14,400.00	6,944.68	9,073.59	7,028.86	244.50	75.71	95.39	1,313.75	-6,711.91	1,378.89	1,063.90	314.99	4.378		
14,500.00	6,943.45	8,908.71	7,027.18	247.78	71.60	95.38	1,312.53	-6,876.76	1,382.28	1,069.27	313.01	4.416		
14,600.00	6,942.21	8,750.83	7,025.64	251.07	68.10	95.41	1,303.21	-7,034.35	1,380.12	1,069.12	310.99	4.438		
14,700.00	6,940.98	8,655.65	7,025.66	254.35	66.18	95.47	1,296.13	-7,129.26	1,376.88	1,065.02	311.85	4.415		
14,800.00	6,939.74	8,525.88	7,026.67	257.64	63.81	95.60	1,285.97	-7,258.62	1,373.47	1,062.33	311.14	4.414		
14,900.00	6,938.51	8,402.75	7,027.79	260.92	61.92	95.74	1,273.18	-7,381.09	1,367.34	1,056.52	310.83	4.399		
15,000.00	6,937.28	8,300.87	7,028.71	264.21	60.60	95.86	1,261.72	-7,482.31	1,360.40	1,048.71	311.69	4.365		
15,100.00	6,936.04	8,208.43	7,029.49	267.50	59.57	95.97	1,251.50	-7,574.18	1,353.65	1,040.54	313.11	4.323		
15,200.00	6,934.81	8,122.83	7,030.20	270.79	58.76	96.07	1,242.75	-7,659.33	1,347.74	1,032.82	314.91	4.280		
15,300.00	6,933.58	8,028.53	7,030.89	274.08	58.00	96.17	1,234.22	-7,753.24	1,342.97	1,026.52	316.45	4.244		
15,400.00	6,932.34	7,894.98	7,030.96	277.37	57.20	96.28	1,219.97	-7,886.02	1,336.45	1,019.82	316.62	4.221		
15,500.00	6,931.11	7,774.93	7,026.66	280.66	56.72	96.21	1,205.53	-8,005.10	1,328.26	1,010.60	317.66	4.181		
15,589.88	6,930.00	7,734.01	7,023.00	283.62	56.56	96.08	1,201.27	-8,045.63	1,321.84	1,000.65	321.18	4.116		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	2,239.00	2,159.58	3.28	14.67	-71.54	2,701.41	-8,091.18	8,809.50					
100.00	100.00	2,281.90	2,199.79	3.28	15.03	-71.61	2,687.85	-8,084.84	8,784.76	8,767.89	16.88	520.437		
200.00	200.00	2,328.00	2,242.99	3.34	15.41	-71.69	2,673.03	-8,078.56	8,760.78	8,743.55	17.23	508.560		
300.00	299.98	2,355.63	2,268.87	3.44	15.64	-145.15	2,664.04	-8,075.03	8,738.83	8,721.34	17.49	499.569		
400.00	399.84	2,418.00	2,327.31	3.60	16.16	-145.49	2,643.59	-8,067.50	8,720.39	8,702.33	18.06	482.883		
500.00	499.45	2,455.16	2,362.13	3.81	16.47	-145.75	2,631.32	-8,063.25	8,705.31	8,686.80	18.50	470.515		
600.00	598.70	2,557.25	2,457.78	4.08	17.32	-146.11	2,597.53	-8,051.82	8,693.54	8,674.07	19.47	446.470		
700.00	697.47	2,715.42	2,606.11	4.40	18.64	-146.59	2,546.22	-8,032.23	8,683.77	8,662.87	20.89	415.606		
774.77	770.92	2,741.75	2,630.82	4.68	18.86	-146.71	2,537.71	-8,029.00	8,678.72	8,657.39	21.32	407.014		
800.00	795.65	2,750.61	2,639.14	4.78	18.93	-146.73	2,534.84	-8,027.95	8,677.39	8,655.91	21.47	404.109		
900.00	893.64	2,775.00	2,662.03	5.20	19.14	-146.80	2,526.94	-8,025.13	8,672.61	8,650.60	22.01	393.954		
1,000.00	991.63	2,829.72	2,713.40	5.66	19.59	-146.94	2,509.04	-8,019.22	8,668.52	8,645.71	22.81	380.045		
1,100.00	1,089.63	2,879.55	2,760.15	6.15	20.01	-147.06	2,492.49	-8,014.29	8,665.14	8,641.55	23.59	367.287		
1,200.00	1,187.62	2,975.56	2,850.20	6.65	20.81	-147.32	2,460.51	-8,004.98	8,662.12	8,637.38	24.74	350.105		
1,300.00	1,285.62	3,069.58	2,938.37	7.17	21.60	-147.56	2,429.21	-7,995.79	8,659.21	8,633.32	25.89	334.422		
1,400.00	1,383.61	3,165.49	3,028.33	7.71	22.40	-147.81	2,397.30	-7,986.48	8,656.55	8,629.48	27.07	319.748		
1,500.00	1,481.60	3,269.72	3,128.33	8.25	23.20	-148.06	2,365.49	-7,977.17	8,653.49	8,626.37	28.25	305.074		
1,600.00	1,579.60	3,373.81	3,223.73	8.80	24.16	-148.35	2,328.36	-7,964.82	8,650.56	8,620.98	29.59	292.378		
1,700.00	1,677.59	3,482.00	3,327.19	9.36	25.17	-148.64	2,292.41	-7,952.47	8,647.29	8,617.55	30.97	279.683		
1,800.00	1,775.59	3,595.49	3,431.19	9.92	26.23	-148.94	2,257.81	-7,940.11	8,643.29	8,613.53	32.39	267.038		
1,900.00	1,873.58	3,714.24	3,547.42	10.49	27.34	-149.24	2,224.61	-7,927.75	8,638.83	8,609.15	33.85	254.453		
2,000.00	1,971.57	3,838.72	3,665.42	11.06	28.50	-149.54	2,192.81	-7,915.39	8,634.01	8,604.37	35.35	241.928		
2,100.00	2,069.57	3,968.99	3,786.42	11.64	29.71	-149.84	2,162.41	-7,903.03	8,628.83	8,599.19	36.89	229.463		
2,200.00	2,167.56	4,104.08	3,909.42	12.22	30.97	-150.14	2,133.41	-7,890.67	8,623.37	8,593.73	38.47	217.058		
2,300.00	2,265.56	4,243.58	4,034.42	12.80	32.28	-150.44	2,105.41	-7,878.31	8,617.55	8,587.91	40.09	204.703		
2,400.00	2,363.55	4,387.07	4,161.92	13.38	33.64	-150.74	2,078.41	-7,865.95	8,611.37	8,581.73	41.75	192.398		
2,500.00	2,461.54	4,534.56	4,291.42	13.97	35.05	-151.03	2,052.41	-7,853.59	8,604.83	8,575.19	43.45	180.143		
2,600.00	2,559.54	4,687.05	4,421.92	14.55	36.51	-151.33	2,027.41	-7,841.23	8,597.93	8,568.23	45.19	167.938		
2,700.00	2,657.53	4,843.54	4,553.42	15.14	38.02	-151.62	2,003.41	-7,828.87	8,590.43	8,560.73	46.97	155.783		
2,800.00	2,755.53	4,995.03	4,685.92	15.73	39.58	-151.92	1,980.41	-7,816.51	8,582.83	8,552.83	48.79	143.678		
2,900.00	2,853.52	5,151.52	4,818.42	16.32	41.19	-152.22	1,958.41	-7,804.15	8,575.33	8,545.33	50.65	131.623		
3,000.00	2,951.52	5,313.01	4,951.92	16.91	42.85	-152.52	1,937.41	-7,791.79	8,567.83	8,537.83	52.55	119.618		
3,100.00	3,049.51	5,479.50	5,086.42	17.51	44.56	-152.82	1,917.41	-7,779.43	8,559.83	8,529.83	54.49	107.663		
3,200.00	3,147.50	5,651.00	5,221.92	18.10	46.32	-153.12	1,898.41	-7,767.07	8,551.83	8,521.83	56.47	95.758		
3,300.00	3,245.50	5,827.50	5,357.42	18.70	48.13	-153.42	1,880.41	-7,754.71	8,543.83	8,513.83	58.49	83.903		
3,400.00	3,343.49	6,009.00	5,492.92	19.29	50.00	-153.72	1,863.41	-7,742.35	8,535.83	8,505.83	60.55	72.108		
3,500.00	3,441.49	6,195.50	5,628.42	19.89	51.92	-154.02	1,847.41	-7,730.00	8,527.83	8,497.83	62.65	60.463		
3,600.00	3,539.48	6,387.00	5,763.92	20.48	53.90	-154.32	1,832.41	-7,717.64	8,519.83	8,489.83	64.79	48.968		
3,700.00	3,637.47	6,582.50	5,900.42	21.08	55.93	-154.62	1,818.41	-7,705.29	8,511.83	8,481.83	66.97	37.623		
3,800.00	3,735.47	6,782.00	6,037.92	21.68	58.01	-154.92	1,805.41	-7,692.93	8,503.83	8,473.83	69.19	26.428		
3,900.00	3,833.46	6,986.50	6,175.42	22.27	60.14	-155.22	1,793.41	-7,680.58	8,495.83	8,465.83	71.45	15.383		
3,929.42	3,862.29	6,995.00	6,184.92	22.45	60.32	-155.22	1,791.41	-7,678.22	8,493.83	8,463.83	71.63	14.983		
4,000.00	3,931.46	7,195.00	6,322.42	22.87	62.50	-155.52	1,780.41	-7,665.87	8,485.83	8,455.83	73.95	4.238		
4,100.00	4,029.45	7,399.50	6,460.92	23.47	64.83	-155.82	1,770.41	-7,653.52	8,477.83	8,447.83	76.33			
4,200.00	4,127.44	7,609.00	6,600.42	24.07	67.31	-156.12	1,761.41	-7,641.17	8,469.83	8,439.83	78.75			
4,296.03	4,221.54	7,823.50	6,740.92	24.65	70.00	-156.42	1,753.41	-7,628.82	8,461.83	8,431.83	81.21			
4,300.00	4,225.44	7,823.50	6,740.92	24.67	70.01	-156.42	1,753.41	-7,628.82	8,461.83	8,431.83	81.21			
4,400.00	4,323.43	8,038.00	6,880.42	25.27	72.83	-156.72	1,746.41	-7,616.47	8,453.83	8,423.83	83.71			
4,507.81	4,429.08	8,257.50	7,020.92	25.92	75.81	-157.02	1,740.41	-7,604.12	8,445.83	8,415.83	86.21			
4,600.00	4,519.70	8,482.00	7,162.42	26.45	78.95	-157.32	1,735.41	-7,591.77	8,437.83	8,407.83	88.75			
4,700.00	4,618.56	8,717.50	7,307.92	26.98	82.25	-157.62	1,731.41	-7,579.42	8,429.83	8,399.83	91.33			
4,800.00	4,717.88	8,957.00	7,457.42	27.46	85.71	-157.92	1,728.41	-7,567.07	8,421.83	8,391.83	93.95			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,900.00	4,817.54	6,445.00	6,105.23	27.89	50.47	-155.80	1,353.76	-7,547.67	8,540.95	8,471.02	69.93	122.131		
5,000.00	4,917.43	6,445.00	6,105.23	28.28	50.47	-155.71	1,353.76	-7,547.67	8,530.15	8,459.77	70.38	121.198		
5,082.58	5,000.00	6,482.64	6,140.59	28.57	50.78	-82.56	1,341.33	-7,544.17	8,519.52	8,448.49	71.03	119.941		
5,100.00	5,017.42	6,489.31	6,146.86	28.62	50.84	-82.58	1,339.15	-7,543.58	8,517.11	8,445.96	71.16	119.698		
5,200.00	5,117.42	6,534.00	6,188.96	28.95	51.21	-82.67	1,324.65	-7,539.75	8,503.74	8,431.82	71.92	118.242		
5,300.00	5,217.42	6,534.00	6,188.96	29.28	51.21	-82.67	1,324.65	-7,539.75	8,491.24	8,418.92	72.32	117.419		
5,400.00	5,317.42	6,534.00	6,188.96	29.62	51.21	-82.67	1,324.65	-7,539.75	8,479.90	8,407.19	72.71	116.631		
5,500.00	5,417.42	6,534.00	6,188.96	29.96	51.21	-82.67	1,324.65	-7,539.75	8,469.72	8,396.63	73.09	115.878		
5,600.00	5,517.42	6,578.37	6,230.86	30.29	51.56	-82.76	1,310.32	-7,536.95	8,459.76	8,385.92	73.84	114.570		
5,700.00	5,617.42	6,624.00	6,273.97	30.64	51.92	-82.86	1,295.43	-7,535.84	8,451.92	8,377.33	74.60	113.301		
5,800.00	5,717.42	6,624.00	6,273.97	30.98	51.92	-82.86	1,295.43	-7,535.84	8,444.26	8,369.29	74.97	112.637		
5,900.00	5,817.42	6,624.00	6,273.97	31.33	51.92	-82.86	1,295.43	-7,535.84	8,437.77	8,362.44	75.33	112.007		
6,000.00	5,917.42	6,624.00	6,273.97	31.68	51.92	-82.86	1,295.43	-7,535.84	8,432.47	8,356.78	75.69	111.411		
6,100.00	6,017.42	6,624.00	6,273.97	32.03	51.92	-82.86	1,295.43	-7,535.84	8,428.34	8,352.31	76.04	110.848		
6,200.00	6,117.42	6,624.00	6,273.97	32.38	51.92	-82.86	1,295.43	-7,535.84	8,425.41	8,349.03	76.37	110.318		
6,300.00	6,217.42	6,624.00	6,273.97	32.74	51.92	-82.86	1,295.43	-7,535.84	8,423.65	8,346.95	76.70	109.821		
6,397.55	6,314.97	6,624.00	6,273.97	33.09	51.92	-82.86	1,295.43	-7,535.84	8,423.09	8,346.07	77.02	109.368		
6,400.00	6,317.42	6,624.00	6,273.97	33.09	51.92	-82.86	1,295.43	-7,535.84	8,423.09	8,346.07	77.02	109.357		
6,476.01	6,393.43	6,624.00	6,273.97	33.37	51.92	-82.86	1,295.43	-7,535.84	8,423.45	8,346.19	77.26	109.025		
6,500.00	6,417.42	6,624.00	6,273.97	33.45	51.92	9.47	1,295.43	-7,535.84	8,423.27	8,345.94	77.33	108.924		
6,550.00	6,467.25	6,624.00	6,273.97	33.59	51.92	9.52	1,295.43	-7,535.84	8,420.23	8,342.77	77.46	108.704		
6,600.00	6,516.64	6,668.36	6,315.88	33.71	52.23	9.53	1,280.93	-7,537.03	8,412.13	8,334.15	77.97	107.887		
6,650.00	6,565.26	6,671.99	6,319.30	33.80	52.25	9.68	1,279.75	-7,537.25	8,401.75	8,323.64	78.10	107.572		
6,700.00	6,612.83	6,714.00	6,358.83	33.88	52.54	9.82	1,266.12	-7,541.17	8,389.01	8,310.44	78.57	106.777		
6,750.00	6,659.04	6,714.00	6,358.83	33.94	52.54	10.11	1,266.12	-7,541.17	8,371.51	8,292.88	78.63	106.462		
6,800.00	6,703.62	6,714.00	6,358.83	33.99	52.54	10.47	1,266.12	-7,541.17	8,350.70	8,272.02	78.69	106.127		
6,850.00	6,746.28	6,714.00	6,358.83	34.03	52.54	10.93	1,266.12	-7,541.17	8,326.68	8,247.96	78.72	105.773		
6,900.00	6,786.76	6,714.00	6,358.83	34.08	52.54	11.50	1,266.12	-7,541.17	8,299.57	8,220.83	78.74	105.400		
6,950.00	6,824.83	6,714.00	6,358.83	34.13	52.54	12.19	1,266.12	-7,541.17	8,269.51	8,190.76	78.75	105.007		
7,000.00	6,860.23	6,714.00	6,358.83	34.20	52.54	13.05	1,266.12	-7,541.17	8,236.65	8,157.90	78.75	104.595		
7,050.00	6,892.75	6,714.00	6,358.83	34.30	52.54	14.12	1,266.12	-7,541.17	8,201.16	8,122.43	78.73	104.163		
7,100.00	6,922.20	6,714.00	6,358.83	34.43	52.54	15.46	1,266.12	-7,541.17	8,163.24	8,084.52	78.71	103.711		
7,150.00	6,948.38	6,714.00	6,358.83	34.60	52.54	17.16	1,266.12	-7,541.17	8,123.07	8,044.38	78.68	103.239		
7,200.00	6,971.15	6,714.00	6,358.83	34.82	52.54	19.38	1,266.12	-7,541.17	8,080.87	8,002.23	78.65	102.747		
7,250.00	6,990.35	6,714.00	6,358.83	35.09	52.54	22.35	1,266.12	-7,541.17	8,036.89	7,958.28	78.61	102.236		
7,300.00	7,005.87	6,714.00	6,358.83	35.43	52.54	26.46	1,266.12	-7,541.17	7,991.35	7,912.78	78.57	101.704		
7,350.00	7,017.62	6,714.00	6,358.83	35.81	52.54	32.37	1,266.12	-7,541.17	7,944.52	7,865.98	78.54	101.154		
7,400.00	7,025.52	6,714.00	6,358.83	36.26	52.54	41.29	1,266.12	-7,541.17	7,896.66	7,818.16	78.51	100.584		
7,450.00	7,029.52	6,714.00	6,358.83	36.75	52.54	55.18	1,266.12	-7,541.17	7,848.06	7,769.58	78.48	99.996		
7,483.86	7,030.00	6,714.00	6,358.83	37.12	52.54	68.46	1,266.12	-7,541.17	7,814.87	7,736.40	78.47	99.588		
7,500.00	7,029.80	6,714.00	6,358.83	37.30	52.54	68.46	1,266.12	-7,541.17	7,799.02	7,720.55	78.47	99.391		
7,600.00	7,028.57	6,714.00	6,358.83	38.58	52.54	68.46	1,266.12	-7,541.17	7,700.80	7,622.36	78.44	98.169		
7,700.00	7,027.34	6,714.00	6,358.83	40.10	52.54	68.46	1,266.12	-7,541.17	7,602.64	7,524.20	78.43	96.929		
7,800.00	7,026.10	6,714.00	6,358.83	41.83	52.54	68.46	1,266.12	-7,541.17	7,504.52	7,426.08	78.44	95.673		
7,900.00	7,024.87	6,714.00	6,358.83	43.74	52.54	68.46	1,266.12	-7,541.17	7,406.45	7,327.99	78.46	94.398		
8,000.00	7,023.63	6,714.00	6,358.83	45.82	52.54	68.46	1,266.12	-7,541.17	7,308.44	7,229.94	78.50	93.106		
8,100.00	7,022.40	6,714.00	6,358.83	48.04	52.54	68.46	1,266.12	-7,541.17	7,210.48	7,131.93	78.55	91.795		
8,200.00	7,021.17	6,714.00	6,358.83	50.38	52.54	68.46	1,266.12	-7,541.17	7,112.57	7,033.95	78.62	90.465		
8,300.00	7,019.93	6,714.00	6,358.83	52.82	52.54	68.46	1,266.12	-7,541.17	7,014.73	6,936.02	78.71	89.116		
8,400.00	7,018.70	6,714.00	6,358.83	55.35	52.54	68.46	1,266.12	-7,541.17	6,916.95	6,838.12	78.83	87.748		
8,500.00	7,017.47	6,714.00	6,358.83	57.97	52.54	68.46	1,266.12	-7,541.17	6,819.23	6,740.27	78.96	86.360		
8,600.00	7,016.23	6,714.00	6,358.83	60.65	52.54	68.46	1,266.12	-7,541.17	6,721.58	6,642.45	79.12	84.951		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 20-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	7,015.00	6,714.00	6,358.83	63.39	52.54	68.46	1,266.12	-7,541.17	6,624.00	6,544.69	79.31	83.523		
8,800.00	7,013.76	6,714.00	6,358.83	66.19	52.54	68.46	1,266.12	-7,541.17	6,526.49	6,446.97	79.52	82.075		
8,900.00	7,012.53	6,714.00	6,358.83	69.03	52.54	68.46	1,266.12	-7,541.17	6,429.06	6,349.30	79.76	80.608		
9,000.00	7,011.30	6,714.00	6,358.83	71.91	52.54	68.46	1,266.12	-7,541.17	6,331.70	6,251.68	80.03	79.120		
9,100.00	7,010.06	6,714.00	6,358.83	74.83	52.54	68.46	1,266.12	-7,541.17	6,234.44	6,154.11	80.33	77.614		
9,200.00	7,008.83	6,714.00	6,358.83	77.78	52.54	68.46	1,266.12	-7,541.17	6,137.26	6,056.60	80.66	76.088		
9,300.00	7,007.60	6,714.00	6,358.83	80.76	52.54	68.46	1,266.12	-7,541.17	6,040.17	5,959.14	81.03	74.545		
9,400.00	7,006.36	6,714.00	6,358.83	83.76	52.54	68.46	1,266.12	-7,541.17	5,943.18	5,861.75	81.43	72.983		
9,500.00	7,005.13	6,714.00	6,358.83	86.79	52.54	68.46	1,266.12	-7,541.17	5,846.29	5,764.41	81.87	71.405		
9,600.00	7,003.90	6,714.00	6,358.83	89.84	52.54	68.46	1,266.12	-7,541.17	5,749.50	5,667.15	82.36	69.812		
9,700.00	7,002.66	6,714.00	6,358.83	92.90	52.54	68.46	1,266.12	-7,541.17	5,652.83	5,569.95	82.88	68.203		
9,800.00	7,001.43	6,714.00	6,358.83	95.99	52.54	68.46	1,266.12	-7,541.17	5,556.28	5,472.83	83.45	66.581		
9,900.00	7,000.19	6,714.00	6,358.83	99.08	52.54	68.46	1,266.12	-7,541.17	5,459.85	5,375.78	84.07	64.946		
10,000.00	6,998.96	6,714.00	6,358.83	102.19	52.54	68.46	1,266.12	-7,541.17	5,363.55	5,278.82	84.73	63.300		
10,100.00	6,997.73	6,752.02	6,394.42	105.32	52.76	69.61	1,254.00	-7,546.79	5,266.29	5,180.58	85.71	61.444		
10,200.00	6,996.49	6,754.22	6,396.48	108.45	52.77	69.68	1,253.31	-7,547.17	5,170.14	5,083.66	86.48	59.783		
10,300.00	6,995.26	6,756.49	6,398.60	111.60	52.78	69.75	1,252.60	-7,547.57	5,074.13	4,986.82	87.31	58.116		
10,400.00	6,994.03	6,758.85	6,400.80	114.75	52.79	69.82	1,251.86	-7,548.00	4,978.28	4,890.08	88.20	56.445		
10,500.00	6,992.79	6,761.28	6,403.07	117.92	52.81	69.90	1,251.10	-7,548.44	4,882.57	4,793.43	89.14	54.773		
10,600.00	6,991.56	6,763.80	6,405.41	121.09	52.82	69.98	1,250.32	-7,548.91	4,787.04	4,696.89	90.15	53.101		
10,700.00	6,990.33	6,803.00	6,441.77	124.27	53.04	71.21	1,238.31	-7,557.28	4,692.71	4,601.30	91.41	51.337		
10,800.00	6,989.09	6,803.00	6,441.77	127.46	53.04	71.21	1,238.31	-7,557.28	4,597.39	4,504.87	92.53	49.687		
10,900.00	6,987.86	6,803.00	6,441.77	130.65	53.04	71.21	1,238.31	-7,557.28	4,502.28	4,408.56	93.72	48.041		
11,000.00	6,986.62	6,803.00	6,441.77	133.85	53.04	71.21	1,238.31	-7,557.28	4,407.38	4,312.40	94.98	46.402		
11,100.00	6,985.39	6,803.00	6,441.77	137.06	53.04	71.21	1,238.31	-7,557.28	4,312.71	4,216.38	96.33	44.771		
11,200.00	6,984.16	6,803.00	6,441.77	140.27	53.04	71.21	1,238.31	-7,557.28	4,218.29	4,120.53	97.76	43.150		
11,300.00	6,982.92	6,803.00	6,441.77	143.48	53.04	71.21	1,238.31	-7,557.28	4,124.13	4,024.85	99.28	41.541		
11,400.00	6,981.69	6,803.00	6,441.77	146.70	53.04	71.21	1,238.31	-7,557.28	4,030.25	3,929.36	100.89	39.946		
11,500.00	6,980.46	6,803.00	6,441.77	149.92	53.04	71.21	1,238.31	-7,557.28	3,936.67	3,834.07	102.60	38.368		
11,600.00	6,979.22	6,803.00	6,441.77	153.15	53.04	71.21	1,238.31	-7,557.28	3,843.42	3,739.00	104.42	36.808		
11,700.00	6,977.99	6,803.00	6,441.77	156.38	53.04	71.21	1,238.31	-7,557.28	3,750.51	3,644.17	106.35	35.267		
11,800.00	6,976.75	6,803.00	6,441.77	159.62	53.04	71.21	1,238.31	-7,557.28	3,657.98	3,549.59	108.39	33.749		
11,900.00	6,975.52	6,803.00	6,441.77	162.86	53.04	71.21	1,238.31	-7,557.28	3,565.85	3,455.30	110.55	32.254		
12,000.00	6,974.29	6,803.00	6,441.77	166.10	53.04	71.21	1,238.31	-7,557.28	3,474.16	3,361.31	112.85	30.785		
12,100.00	6,973.05	6,803.00	6,441.77	169.34	53.04	71.21	1,238.31	-7,557.28	3,382.94	3,267.65	115.29	29.344		
12,200.00	6,971.82	6,803.00	6,441.77	172.59	53.04	71.21	1,238.31	-7,557.28	3,292.23	3,174.35	117.87	27.931		
12,300.00	6,970.59	6,803.00	6,441.77	175.84	53.04	71.21	1,238.31	-7,557.28	3,202.07	3,081.46	120.61	26.549		
12,400.00	6,969.35	6,803.00	6,441.77	179.09	53.04	71.21	1,238.31	-7,557.28	3,112.51	2,988.99	123.52	25.199		
12,500.00	6,968.12	6,841.17	6,476.80	182.35	53.21	72.44	1,226.87	-7,567.21	3,022.56	2,896.06	126.50	23.894		
12,600.00	6,966.89	6,847.85	6,482.89	185.60	53.24	72.66	1,224.88	-7,569.12	2,933.97	2,804.24	129.73	22.616		
12,700.00	6,965.65	6,854.90	6,489.29	188.86	53.27	72.89	1,222.78	-7,571.19	2,846.06	2,712.91	133.15	21.374		
12,800.00	6,964.42	6,892.00	6,522.72	192.12	53.44	74.12	1,211.84	-7,583.00	2,759.54	2,622.92	136.62	20.199		
12,900.00	6,963.18	6,892.00	6,522.72	195.38	53.44	74.12	1,211.84	-7,583.00	2,672.90	2,532.40	140.49	19.025		
13,000.00	6,961.95	6,892.00	6,522.72	198.65	53.44	74.12	1,211.84	-7,583.00	2,587.22	2,442.60	144.62	17.890		
13,100.00	6,960.72	6,892.00	6,522.72	201.91	53.44	74.12	1,211.84	-7,583.00	2,502.60	2,353.61	149.00	16.796		
13,200.00	6,959.48	6,892.00	6,522.72	205.18	53.44	74.12	1,211.84	-7,583.00	2,419.16	2,265.51	153.65	15.744		
13,300.00	6,958.25	6,892.00	6,522.72	208.45	53.44	74.12	1,211.84	-7,583.00	2,337.02	2,178.42	158.60	14.735		
13,400.00	6,957.02	6,892.00	6,522.72	211.72	53.44	74.12	1,211.84	-7,583.00	2,256.33	2,092.47	163.85	13.771		
13,500.00	6,955.78	6,923.80	6,550.88	214.99	53.55	75.18	1,202.58	-7,594.47	2,176.36	2,007.24	169.12	12.868		
13,600.00	6,954.55	6,934.43	6,560.18	218.27	53.59	75.54	1,199.50	-7,598.61	2,098.37	1,923.46	174.91	11.997		
13,700.00	6,953.32	6,945.89	6,570.13	221.54	53.63	75.92	1,196.21	-7,603.25	2,022.11	1,841.07	181.04	11.170		
13,800.00	6,952.08	6,982.00	6,600.94	224.82	53.76	77.13	1,185.93	-7,619.01	1,948.21	1,761.07	187.15	10.410		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 20-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
13,900.00	6,950.85	6,982.00	6,600.94	228.10	53.76	77.13	1,185.93	-7,619.01	1,875.54	1,681.39	194.15	9.660	
14,000.00	6,949.61	6,982.00	6,600.94	231.37	53.76	77.13	1,185.93	-7,619.01	1,805.48	1,603.96	201.52	8.959	
14,100.00	6,948.38	6,982.00	6,600.94	234.65	53.76	77.13	1,185.93	-7,619.01	1,738.35	1,529.09	209.26	8.307	
14,200.00	6,947.15	7,012.19	6,625.98	237.93	53.83	78.14	1,177.58	-7,633.66	1,673.56	1,456.67	216.89	7.716	
14,300.00	6,945.91	7,027.49	6,638.38	241.22	53.87	78.65	1,173.49	-7,641.64	1,612.20	1,387.15	225.06	7.164	
14,400.00	6,944.68	7,071.00	6,672.42	244.50	53.98	80.07	1,162.38	-7,666.33	1,555.04	1,322.12	232.92	6.676	
14,500.00	6,943.45	7,071.00	6,672.42	247.78	53.98	80.07	1,162.38	-7,666.33	1,500.26	1,258.32	241.94	6.201	
14,600.00	6,942.21	7,071.00	6,672.42	251.07	53.98	80.07	1,162.38	-7,666.33	1,450.32	1,199.23	251.09	5.776	
14,700.00	6,940.98	7,104.58	6,697.46	254.35	54.02	81.14	1,154.47	-7,687.25	1,404.59	1,144.93	259.66	5.409	
14,800.00	6,939.74	7,128.37	6,714.54	257.64	54.05	81.89	1,149.30	-7,702.99	1,363.74	1,095.37	268.37	5.082	
14,900.00	6,938.51	7,161.00	6,737.02	260.92	54.09	82.88	1,142.82	-7,725.72	1,327.95	1,051.22	276.73	4.799	
15,000.00	6,937.28	7,184.41	6,752.48	264.21	54.10	83.58	1,138.59	-7,742.79	1,297.28	1,012.28	285.00	4.552	
15,100.00	6,936.04	7,217.52	6,773.38	267.50	54.11	84.53	1,133.19	-7,767.89	1,271.95	979.30	292.65	4.346	
15,200.00	6,934.81	7,250.00	6,792.75	270.79	54.12	85.42	1,128.58	-7,793.54	1,251.98	952.24	299.74	4.177	
15,300.00	6,933.58	7,289.20	6,814.56	274.08	54.09	86.44	1,124.04	-7,825.79	1,237.44	931.32	306.11	4.042	
15,400.00	6,932.34	7,340.00	6,840.15	277.37	54.06	87.66	1,120.01	-7,869.47	1,228.48	916.81	311.66	3.942	
15,500.00	6,931.11	7,374.44	6,855.65	280.66	54.01	88.40	1,118.33	-7,900.18	1,224.40	907.75	316.65	3.867	
15,537.22	6,930.65	7,393.55	6,863.56	281.88	53.98	88.78	1,117.68	-7,917.56	1,224.10	905.80	318.30	3.846 CC	
15,589.88	6,930.00	7,429.00	6,876.89	283.62	53.94	89.42	1,117.02	-7,950.39	1,224.72	904.22	320.51	3.821 ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-86.55	448.85	-7,438.86	7,452.40					
100.00	100.00	87.00	87.00	3.28	3.61	-86.55	448.85	-7,438.86	7,452.39	7,445.49	6.90	1,080.183		
200.00	200.00	187.00	187.00	3.34	5.80	-86.55	448.85	-7,438.86	7,452.39	7,443.25	9.14	815.684		
300.00	299.98	286.98	286.98	3.44	8.90	-159.69	448.85	-7,438.86	7,454.03	7,441.68	12.34	603.909		
400.00	399.84	386.84	386.84	3.60	12.21	-159.67	448.85	-7,438.86	7,458.94	7,443.13	15.81	471.793		
500.00	499.45	486.45	486.45	3.81	15.59	-159.63	448.85	-7,438.86	7,467.11	7,447.72	19.39	385.035		
600.00	598.70	585.70	585.70	4.08	18.99	-159.59	448.85	-7,438.86	7,478.54	7,455.50	23.04	324.556		
700.00	697.47	684.47	684.47	4.40	22.39	-159.52	448.85	-7,438.86	7,493.22	7,466.49	26.73	280.317		
774.77	770.92	757.92	757.92	4.68	24.93	-159.47	448.85	-7,438.86	7,506.31	7,476.81	29.51	254.394		
800.00	795.65	782.65	782.65	4.78	25.79	-159.48	448.85	-7,438.86	7,511.03	7,480.59	30.45	246.695		
900.00	893.64	880.64	880.64	5.20	29.18	-159.53	448.85	-7,438.86	7,529.75	7,495.57	34.18	220.313		
1,000.00	991.63	978.63	978.63	5.66	32.58	-159.59	448.85	-7,438.86	7,548.47	7,510.53	37.94	198.982		
1,100.00	1,089.63	1,076.63	1,076.63	6.15	35.99	-159.64	448.85	-7,438.86	7,567.19	7,525.48	41.71	181.403		
1,200.00	1,187.62	1,174.62	1,174.62	6.65	39.40	-159.69	448.85	-7,438.86	7,585.92	7,540.41	45.51	166.682		
1,300.00	1,285.62	1,272.62	1,272.62	7.17	42.81	-159.74	448.85	-7,438.86	7,604.66	7,555.34	49.32	154.184		
1,400.00	1,383.61	1,370.61	1,370.61	7.71	46.22	-159.80	448.85	-7,438.86	7,623.41	7,570.26	53.14	143.449		
1,500.00	1,481.60	1,468.60	1,468.60	8.25	49.63	-159.85	448.85	-7,438.86	7,642.16	7,585.18	56.98	134.132		
1,600.00	1,579.60	1,566.60	1,566.60	8.80	53.05	-159.90	448.85	-7,438.86	7,660.91	7,600.10	60.81	125.973		
1,700.00	1,677.59	1,664.59	1,664.59	9.36	56.46	-159.95	448.85	-7,438.86	7,679.67	7,615.01	64.66	118.771		
1,800.00	1,775.59	1,762.59	1,762.59	9.92	59.88	-160.00	448.85	-7,438.86	7,698.44	7,629.93	68.51	112.369		
1,900.00	1,873.58	1,860.58	1,860.58	10.49	63.29	-160.05	448.85	-7,438.86	7,717.22	7,644.85	72.37	106.641		
2,000.00	1,971.57	1,958.57	1,958.57	11.06	66.71	-160.10	448.85	-7,438.86	7,735.99	7,659.77	76.23	101.488		
2,100.00	2,069.57	2,056.57	2,056.57	11.64	70.13	-160.15	448.85	-7,438.86	7,754.78	7,674.69	80.09	96.827		
2,200.00	2,167.56	2,154.56	2,154.56	12.22	73.54	-160.20	448.85	-7,438.86	7,773.57	7,689.62	83.96	92.592		
2,300.00	2,265.56	2,252.56	2,252.56	12.80	76.96	-160.25	448.85	-7,438.86	7,792.37	7,704.54	87.82	88.727		
2,400.00	2,363.55	2,350.55	2,350.55	13.38	80.38	-160.30	448.85	-7,438.86	7,811.17	7,719.47	91.69	85.187		
2,500.00	2,461.54	2,448.54	2,448.54	13.97	83.80	-160.35	448.85	-7,438.86	7,829.98	7,734.41	95.57	81.931		
2,600.00	2,559.54	2,546.54	2,546.54	14.55	87.22	-160.40	448.85	-7,438.86	7,848.79	7,749.35	99.44	78.928		
2,700.00	2,657.53	2,644.53	2,644.53	15.14	90.63	-160.45	448.85	-7,438.86	7,867.61	7,764.29	103.32	76.149		
2,800.00	2,755.53	2,742.53	2,742.53	15.73	94.05	-160.49	448.85	-7,438.86	7,886.43	7,779.24	107.20	73.570		
2,900.00	2,853.52	2,840.52	2,840.52	16.32	97.47	-160.54	448.85	-7,438.86	7,905.26	7,794.19	111.07	71.171		
3,000.00	2,951.52	2,938.52	2,938.52	16.91	100.89	-160.59	448.85	-7,438.86	7,924.10	7,809.14	114.95	68.933		
3,100.00	3,049.51	3,036.51	3,036.51	17.51	104.31	-160.64	448.85	-7,438.86	7,942.94	7,824.10	118.84	66.840		
3,200.00	3,147.50	3,134.50	3,134.50	18.10	107.73	-160.69	448.85	-7,438.86	7,961.78	7,839.07	122.72	64.879		
3,300.00	3,245.50	3,232.50	3,232.50	18.70	111.15	-160.73	448.85	-7,438.86	7,980.64	7,854.04	126.60	63.039		
3,400.00	3,343.49	3,330.49	3,330.49	19.29	114.57	-160.78	448.85	-7,438.86	7,999.49	7,869.01	130.48	61.307		
3,500.00	3,441.49	3,428.49	3,428.49	19.89	117.99	-160.83	448.85	-7,438.86	8,018.35	7,883.99	134.37	59.676		
3,600.00	3,539.48	3,526.48	3,526.48	20.48	121.41	-160.87	448.85	-7,438.86	8,037.22	7,898.97	138.25	58.135		
3,700.00	3,637.47	3,624.47	3,624.47	21.08	124.83	-160.92	448.85	-7,438.86	8,056.09	7,913.96	142.13	56.679		
3,800.00	3,735.47	3,722.47	3,722.47	21.68	128.25	-160.97	448.85	-7,438.86	8,074.97	7,928.95	146.02	55.300		
3,900.00	3,833.46	3,820.46	3,820.46	22.27	131.67	-161.01	448.85	-7,438.86	8,093.85	7,943.94	149.91	53.993		
4,000.00	3,931.46	3,918.46	3,918.46	22.87	135.09	-161.06	448.85	-7,438.86	8,112.74	7,958.94	153.79	52.751		
4,100.00	4,029.45	4,016.45	4,016.45	23.47	138.51	-161.10	448.85	-7,438.86	8,131.63	7,973.95	157.68	51.571		
4,200.00	4,127.44	4,114.44	4,114.44	24.07	141.93	-161.15	448.85	-7,438.86	8,150.52	7,988.96	161.56	50.447		
4,300.00	4,225.44	4,212.44	4,212.44	24.67	145.35	-161.19	448.85	-7,438.86	8,169.43	8,003.97	165.45	49.376		
4,400.00	4,323.43	4,310.43	4,310.43	25.27	148.77	-161.24	448.85	-7,438.86	8,188.33	8,018.99	169.34	48.355		
4,507.81	4,429.08	4,416.08	4,416.08	25.92	152.46	-161.29	448.85	-7,438.86	8,208.72	8,035.19	173.53	47.304		
4,600.00	4,519.70	4,506.70	4,506.70	26.45	155.62	-161.43	448.85	-7,438.86	8,224.78	8,047.66	177.12	46.437		
4,700.00	4,618.56	4,605.56	4,605.56	26.98	159.07	-161.55	448.85	-7,438.86	8,239.06	8,058.04	181.02	45.515		
4,800.00	4,717.88	4,704.88	4,704.88	27.46	162.54	-161.65	448.85	-7,438.86	8,250.05	8,065.13	184.92	44.614		
4,900.00	4,817.54	4,804.54	4,804.54	27.89	166.01	-161.71	448.85	-7,438.86	8,257.76	8,068.93	188.83	43.732		
5,000.00	4,917.43	4,904.43	4,904.43	28.28	169.50	-161.75	448.85	-7,438.86	8,262.15	8,069.42	192.72	42.870		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,987.00	4,987.00	28.57	172.38	-88.61	448.85	-7,438.86	8,263.28	8,067.35	195.93	42.174		
5,100.00	5,017.42	5,004.42	5,004.42	28.62	172.99	-88.61	448.85	-7,438.86	8,263.28	8,066.67	196.61	42.029		
5,200.00	5,117.42	5,104.42	5,104.42	28.95	176.48	-88.61	448.85	-7,438.86	8,263.28	8,062.80	200.48	41.217		
5,300.00	5,217.42	5,204.42	5,204.42	29.28	179.97	-88.61	448.85	-7,438.86	8,263.28	8,058.92	204.36	40.435		
5,400.00	5,317.42	5,304.42	5,304.42	29.62	183.46	-88.61	448.85	-7,438.86	8,263.28	8,055.04	208.24	39.682		
5,500.00	5,417.42	5,404.42	5,404.42	29.96	186.95	-88.61	448.85	-7,438.86	8,263.28	8,051.16	212.12	38.956		
5,600.00	5,517.42	5,504.42	5,504.42	30.29	190.44	-88.61	448.85	-7,438.86	8,263.28	8,047.28	216.00	38.256		
5,700.00	5,617.42	5,604.42	5,604.42	30.64	193.93	-88.61	448.85	-7,438.86	8,263.28	8,043.40	219.88	37.581		
5,800.00	5,717.42	5,704.42	5,704.42	30.98	197.42	-88.61	448.85	-7,438.86	8,263.28	8,039.51	223.77	36.928		
5,900.00	5,817.42	5,804.42	5,804.42	31.33	200.91	-88.61	448.85	-7,438.86	8,263.28	8,035.63	227.65	36.298		
6,000.00	5,917.42	5,904.42	5,904.42	31.68	204.40	-88.61	448.85	-7,438.86	8,263.28	8,031.74	231.54	35.688		
6,100.00	6,017.42	6,004.42	6,004.42	32.03	207.90	-88.61	448.85	-7,438.86	8,263.28	8,027.85	235.43	35.099		
6,200.00	6,117.42	6,104.42	6,104.42	32.38	211.39	-88.61	448.85	-7,438.86	8,263.28	8,023.96	239.32	34.528		
6,300.00	6,217.42	6,204.42	6,204.42	32.74	214.88	-88.61	448.85	-7,438.86	8,263.28	8,020.07	243.21	33.976		
6,400.00	6,317.42	6,304.42	6,304.42	33.09	218.37	-88.61	448.85	-7,438.86	8,263.28	8,016.18	247.10	33.441		
6,476.01	6,393.43	6,380.43	6,380.43	33.37	221.02	-88.61	448.85	-7,438.86	8,263.28	8,013.22	250.06	33.045		
6,500.00	6,417.42	6,404.42	6,404.42	33.45	221.86	3.72	448.85	-7,438.86	8,262.83	8,011.84	250.99	32.921		
6,550.00	6,467.25	6,454.25	6,454.25	33.59	223.60	3.75	448.85	-7,438.86	8,258.99	8,006.08	252.91	32.656		
6,600.00	6,516.64	6,503.64	6,503.64	33.71	225.32	3.80	448.85	-7,438.86	8,251.27	7,996.47	254.80	32.383		
6,650.00	6,565.26	6,552.26	6,552.26	33.80	227.02	3.87	448.85	-7,438.86	8,239.70	7,983.05	256.65	32.104		
6,700.00	6,612.83	6,600.17	6,599.83	33.88	228.69	3.98	448.85	-7,438.86	8,224.36	7,965.89	258.47	31.820		
6,750.00	6,659.04	6,646.04	6,646.04	33.94	230.29	4.12	448.85	-7,438.86	8,205.35	7,945.15	260.19	31.535		
6,800.00	6,703.62	6,690.38	6,690.62	33.99	232.50	4.30	448.85	-7,438.86	8,182.77	7,920.25	262.52	31.170		
6,850.00	6,746.28	6,733.28	6,733.28	34.03	233.34	4.52	448.85	-7,438.86	8,156.78	7,893.33	263.45	30.962		
6,900.00	6,786.76	6,773.76	6,773.76	34.08	234.75	4.81	448.85	-7,438.86	8,127.52	7,862.58	264.94	30.677		
6,950.00	6,824.83	6,811.83	6,811.83	34.13	236.08	5.16	448.85	-7,438.86	8,095.19	7,828.85	266.34	30.394		
7,000.00	6,860.23	6,847.23	6,847.23	34.20	237.31	5.60	448.85	-7,438.86	8,059.98	7,792.35	267.63	30.116		
7,050.00	6,892.75	6,879.75	6,879.75	34.30	238.45	6.16	448.85	-7,438.86	8,022.10	7,753.30	268.81	29.843		
7,100.00	6,922.20	6,909.20	6,909.20	34.43	239.48	6.89	448.85	-7,438.86	7,981.80	7,711.94	269.86	29.577		
7,150.00	6,948.38	6,935.38	6,935.38	34.60	240.39	7.86	448.85	-7,438.86	7,939.32	7,668.52	270.80	29.318		
7,200.00	6,971.15	6,958.15	6,958.15	34.82	241.19	9.20	448.85	-7,438.86	7,894.92	7,623.31	271.61	29.068		
7,250.00	6,990.35	6,977.35	6,977.35	35.09	241.86	11.14	448.85	-7,438.86	7,848.87	7,576.59	272.28	28.826		
7,300.00	7,005.87	7,007.13	6,992.87	35.43	242.90	14.16	448.85	-7,438.86	7,801.47	7,528.15	273.32	28.543		
7,350.00	7,017.62	7,004.62	7,004.62	35.81	242.81	19.41	448.85	-7,438.86	7,753.00	7,479.76	273.23	28.375		
7,400.00	7,025.52	7,012.52	7,012.52	36.26	243.08	30.35	448.85	-7,438.86	7,703.75	7,430.25	273.50	28.167		
7,450.00	7,029.52	7,016.52	7,016.52	36.75	243.22	59.81	448.85	-7,438.86	7,654.05	7,380.41	273.64	27.971		
7,483.86	7,030.00	7,017.00	7,017.00	37.12	243.24	99.92	448.85	-7,438.86	7,620.28	7,346.62	273.66	27.846		
7,500.00	7,029.80	7,016.80	7,016.80	37.30	243.23	99.90	448.85	-7,438.86	7,604.18	7,330.53	273.65	27.788		
7,600.00	7,028.57	7,015.57	7,015.57	38.58	243.19	99.77	448.85	-7,438.86	7,504.44	7,230.83	273.61	27.427		
7,700.00	7,027.34	7,014.34	7,014.34	40.10	243.15	99.65	448.85	-7,438.86	7,404.71	7,131.13	273.57	27.067		
7,800.00	7,026.10	7,013.10	7,013.10	41.83	243.10	99.52	448.85	-7,438.86	7,304.98	7,031.44	273.54	26.705		
7,900.00	7,024.87	7,011.87	7,011.87	43.74	243.06	99.39	448.85	-7,438.86	7,205.26	6,931.75	273.51	26.344		
8,000.00	7,023.63	7,010.63	7,010.63	45.82	243.02	99.26	448.85	-7,438.86	7,105.55	6,832.07	273.49	25.981		
8,100.00	7,022.40	7,009.40	7,009.40	48.04	242.98	99.13	448.85	-7,438.86	7,005.85	6,732.38	273.46	25.619		
8,200.00	7,021.17	7,008.17	7,008.17	50.38	242.93	99.00	448.85	-7,438.86	6,906.15	6,632.71	273.45	25.256		
8,300.00	7,019.93	7,006.93	7,006.93	52.82	242.89	98.88	448.85	-7,438.86	6,806.47	6,533.03	273.43	24.893		
8,400.00	7,018.70	7,005.70	7,005.70	55.35	242.85	98.75	448.85	-7,438.86	6,706.79	6,433.36	273.43	24.529		
8,500.00	7,017.47	7,004.47	7,004.47	57.97	242.80	98.62	448.85	-7,438.86	6,607.12	6,333.70	273.42	24.164		
8,600.00	7,016.23	7,003.23	7,003.23	60.65	242.76	98.49	448.85	-7,438.86	6,507.46	6,234.04	273.43	23.800		
8,700.00	7,015.00	7,002.00	7,002.00	63.39	242.72	98.36	448.85	-7,438.86	6,407.82	6,134.38	273.43	23.435		
8,800.00	7,013.76	7,000.76	7,000.76	66.19	242.67	98.23	448.85	-7,438.86	6,308.18	6,034.73	273.45	23.069		
8,900.00	7,012.53	7,000.47	6,999.53	69.03	242.66	98.10	448.85	-7,438.86	6,208.56	5,935.05	273.50	22.700		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,001.70	6,998.30	71.91	242.71	97.97	448.85	-7,438.86	6,108.94	5,835.33	273.62	22.327		
9,100.00	7,010.06	7,002.94	6,997.06	74.83	242.75	97.84	448.85	-7,438.86	6,009.34	5,735.61	273.74	21.953		
9,200.00	7,008.83	7,004.17	6,995.83	77.78	242.79	97.71	448.85	-7,438.86	5,909.76	5,635.89	273.87	21.579		
9,300.00	7,007.60	7,005.40	6,994.60	80.76	242.84	97.58	448.85	-7,438.86	5,810.18	5,536.18	274.00	21.205		
9,400.00	7,006.36	7,006.64	6,993.36	83.76	242.88	97.45	448.85	-7,438.86	5,710.62	5,436.47	274.15	20.830		
9,500.00	7,005.13	7,007.87	6,992.13	86.79	242.92	97.32	448.85	-7,438.86	5,611.08	5,336.78	274.31	20.456		
9,600.00	7,003.90	7,009.10	6,990.90	89.84	242.96	97.20	448.85	-7,438.86	5,511.55	5,237.08	274.47	20.081		
9,700.00	7,002.66	6,989.66	6,989.66	92.90	242.29	97.07	448.85	-7,438.86	5,412.04	5,138.12	273.93	19.757		
9,800.00	7,001.43	6,988.43	6,988.43	95.99	242.24	96.94	448.85	-7,438.86	5,312.55	5,038.52	274.03	19.387		
9,900.00	7,000.19	6,987.19	6,987.19	99.08	242.20	96.81	448.85	-7,438.86	5,213.08	4,938.93	274.15	19.016		
10,000.00	6,998.96	6,985.96	6,985.96	102.19	242.16	96.68	448.85	-7,438.86	5,113.63	4,839.35	274.28	18.644		
10,100.00	6,997.73	6,984.73	6,984.73	105.32	242.11	96.55	448.85	-7,438.86	5,014.20	4,739.77	274.43	18.272		
10,200.00	6,996.49	6,983.49	6,983.49	108.45	242.07	96.42	448.85	-7,438.86	4,914.79	4,640.20	274.59	17.899		
10,300.00	6,995.26	6,982.26	6,982.26	111.60	242.03	96.28	448.85	-7,438.86	4,815.41	4,540.64	274.77	17.525		
10,400.00	6,994.03	6,981.03	6,981.03	114.75	241.98	96.15	448.85	-7,438.86	4,716.05	4,441.08	274.97	17.151		
10,500.00	6,992.79	6,979.79	6,979.79	117.92	241.94	96.02	448.85	-7,438.86	4,616.72	4,341.53	275.19	16.777		
10,600.00	6,991.56	6,978.56	6,978.56	121.09	241.90	95.89	448.85	-7,438.86	4,517.42	4,241.99	275.43	16.402		
10,700.00	6,990.33	6,977.33	6,977.33	124.27	241.86	95.76	448.85	-7,438.86	4,418.15	4,142.45	275.69	16.026		
10,800.00	6,989.09	6,976.09	6,976.09	127.46	241.81	95.63	448.85	-7,438.86	4,318.91	4,042.93	275.99	15.649		
10,900.00	6,987.86	6,974.86	6,974.86	130.65	241.77	95.50	448.85	-7,438.86	4,219.71	3,943.40	276.31	15.272		
11,000.00	6,986.62	6,973.62	6,973.62	133.85	241.73	95.37	448.85	-7,438.86	4,120.55	3,843.89	276.66	14.894		
11,100.00	6,985.39	6,972.39	6,972.39	137.06	241.68	95.24	448.85	-7,438.86	4,021.43	3,744.38	277.05	14.515		
11,200.00	6,984.16	6,971.16	6,971.16	140.27	241.64	95.11	448.85	-7,438.86	3,922.35	3,644.88	277.47	14.136		
11,300.00	6,982.92	6,969.92	6,969.92	143.48	241.60	94.98	448.85	-7,438.86	3,823.32	3,545.38	277.93	13.756		
11,400.00	6,981.69	6,968.69	6,968.69	146.70	241.55	94.85	448.85	-7,438.86	3,724.34	3,445.90	278.44	13.376		
11,500.00	6,980.46	6,967.46	6,967.46	149.92	241.51	94.72	448.85	-7,438.86	3,625.42	3,346.42	279.00	12.994		
11,600.00	6,979.22	6,966.22	6,966.22	153.15	241.47	94.59	448.85	-7,438.86	3,526.56	3,246.94	279.61	12.612		
11,700.00	6,977.99	6,964.99	6,964.99	156.38	241.43	94.46	448.85	-7,438.86	3,427.76	3,147.48	280.28	12.230		
11,800.00	6,976.75	6,963.75	6,963.75	159.62	241.38	94.32	448.85	-7,438.86	3,329.03	3,048.02	281.01	11.847		
11,900.00	6,975.52	6,962.52	6,962.52	162.86	241.34	94.19	448.85	-7,438.86	3,230.39	2,948.57	281.82	11.463		
12,000.00	6,974.29	6,961.29	6,961.29	166.10	241.30	94.06	448.85	-7,438.86	3,131.82	2,849.12	282.70	11.078		
12,100.00	6,973.05	6,960.05	6,960.05	169.34	241.25	93.93	448.85	-7,438.86	3,033.35	2,749.68	283.67	10.693		
12,200.00	6,971.82	6,958.82	6,958.82	172.59	241.21	93.80	448.85	-7,438.86	2,934.99	2,650.25	284.74	10.308		
12,300.00	6,970.59	6,957.59	6,957.59	175.84	241.17	93.67	448.85	-7,438.86	2,836.74	2,550.83	285.91	9.922		
12,400.00	6,969.35	6,956.35	6,956.35	179.09	241.12	93.54	448.85	-7,438.86	2,738.61	2,451.42	287.20	9.536		
12,500.00	6,968.12	6,955.12	6,955.12	182.35	241.08	93.41	448.85	-7,438.86	2,640.63	2,352.01	288.62	9.149		
12,600.00	6,966.89	6,953.89	6,953.89	185.60	241.04	93.27	448.85	-7,438.86	2,542.80	2,252.61	290.18	8.763		
12,700.00	6,965.65	6,952.65	6,952.65	188.86	240.99	93.14	448.85	-7,438.86	2,445.14	2,153.23	291.91	8.376		
12,800.00	6,964.42	6,951.42	6,951.42	192.12	240.95	93.01	448.85	-7,438.86	2,347.69	2,053.85	293.83	7.990		
12,900.00	6,963.18	6,950.18	6,950.18	195.38	240.91	92.88	448.85	-7,438.86	2,250.45	1,954.50	295.95	7.604		
13,000.00	6,961.95	6,948.95	6,948.95	198.65	240.87	92.75	448.85	-7,438.86	2,153.47	1,855.15	298.32	7.219		
13,100.00	6,960.72	6,947.72	6,947.72	201.91	240.82	92.62	448.85	-7,438.86	2,056.77	1,755.83	300.94	6.834		
13,200.00	6,959.48	6,946.48	6,946.48	205.18	240.78	92.48	448.85	-7,438.86	1,960.41	1,656.53	303.88	6.451		
13,300.00	6,958.25	6,945.25	6,945.25	208.45	240.74	92.35	448.85	-7,438.86	1,864.43	1,557.27	307.16	6.070		
13,400.00	6,957.02	6,944.02	6,944.02	211.72	240.69	92.22	448.85	-7,438.86	1,768.89	1,458.05	310.84	5.691		
13,500.00	6,955.78	6,942.78	6,942.78	214.99	240.65	92.09	448.85	-7,438.86	1,673.88	1,358.89	314.99	5.314		
13,600.00	6,954.55	6,941.55	6,941.55	218.27	240.61	91.96	448.85	-7,438.86	1,579.47	1,259.80	319.67	4.941		
13,700.00	6,953.32	6,940.32	6,940.32	221.54	240.56	91.83	448.85	-7,438.86	1,485.80	1,160.82	324.99	4.572		
13,800.00	6,952.08	6,939.08	6,939.08	224.82	240.52	91.69	448.85	-7,438.86	1,393.01	1,061.97	331.04	4.208		
13,900.00	6,950.85	6,937.85	6,937.85	228.10	240.48	91.56	448.85	-7,438.86	1,301.29	963.33	337.96	3.850		
14,000.00	6,949.61	6,936.61	6,936.61	231.37	240.43	91.43	448.85	-7,438.86	1,210.88	864.97	345.91	3.501		
14,100.00	6,948.38	6,935.38	6,935.38	234.65	240.39	91.30	448.85	-7,438.86	1,122.09	767.03	355.06	3.160		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Boomerang 21-5 - PEANUT #1 - OH - OH													Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma														
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
14,200.00	6,947.15	6,934.15	6,934.15	237.93	240.35	91.17	448.85	-7,438.86	1,035.35	669.70	365.65	2.832		
14,300.00	6,945.91	6,932.91	6,932.91	241.22	240.31	91.04	448.85	-7,438.86	951.21	573.31	377.90	2.517		
14,400.00	6,944.68	6,931.68	6,931.68	244.50	240.26	90.90	448.85	-7,438.86	870.44	478.37	392.07	2.220		
14,500.00	6,943.45	6,930.45	6,930.45	247.78	240.22	90.77	448.85	-7,438.86	794.05	385.73	408.32	1.945		
14,600.00	6,942.21	6,929.21	6,929.21	251.07	240.18	90.64	448.85	-7,438.86	723.43	296.77	426.67	1.696		
14,700.00	6,940.98	6,927.98	6,927.98	254.35	240.13	90.51	448.85	-7,438.86	660.46	213.74	446.72	1.478	Level 3	
14,800.00	6,939.74	6,926.74	6,926.74	257.64	240.09	90.38	448.85	-7,438.86	607.49	140.14	467.35	1.300	Level 3	
14,900.00	6,938.51	6,925.51	6,925.51	260.92	240.05	90.25	448.85	-7,438.86	567.35	80.96	486.38	1.166	Level 2	
15,000.00	6,937.28	6,924.28	6,924.28	264.21	240.00	90.11	448.85	-7,438.86	542.88	42.15	500.73	1.084	Level 2	
15,085.84	6,936.22	6,923.22	6,923.22	267.03	239.97	90.00	448.85	-7,438.86	536.05	29.05	507.00	1.057	Level 2, CC	
15,100.00	6,936.04	6,923.04	6,923.04	267.50	239.96	89.98	448.85	-7,438.86	536.24	28.84	507.40	1.057	Level 2, ES, SF	
15,200.00	6,934.81	6,921.81	6,921.81	270.79	239.92	89.85	448.85	-7,438.86	548.07	42.93	505.14	1.085	Level 2	
15,300.00	6,933.58	6,920.58	6,920.58	274.08	239.87	89.72	448.85	-7,438.86	577.24	82.04	495.20	1.166	Level 2	
15,400.00	6,932.34	6,919.34	6,919.34	277.37	239.83	89.59	448.85	-7,438.86	621.31	140.88	480.43	1.293	Level 3	
15,500.00	6,931.11	6,918.11	6,918.11	280.66	239.79	89.45	448.85	-7,438.86	677.39	213.70	463.69	1.461	Level 3	
15,589.88	6,930.00	6,917.00	6,917.00	283.62	239.75	89.34	448.85	-7,438.86	735.78	287.15	448.63	1.640		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	35.00	35.00	3.28	3.34	-85.41	479.77	-5,973.24	5,992.48					
100.00	100.00	135.00	135.00	3.28	4.42	-85.41	479.77	-5,973.24	5,992.48	5,984.77	7.71	777.459		
200.00	200.00	235.00	235.00	3.34	7.24	-85.41	479.77	-5,973.24	5,992.48	5,981.90	10.58	566.367		
300.00	299.98	334.98	334.98	3.44	10.48	-158.55	479.77	-5,973.24	5,994.10	5,980.18	13.92	430.645		
400.00	399.84	434.84	434.84	3.60	13.83	-158.53	479.77	-5,973.24	5,998.97	5,981.54	17.43	344.153		
500.00	499.45	534.45	534.45	3.81	17.23	-158.50	479.77	-5,973.24	6,007.09	5,986.05	21.04	285.574		
600.00	598.70	633.70	633.70	4.08	20.64	-158.46	479.77	-5,973.24	6,018.44	5,993.74	24.70	243.710		
700.00	697.47	732.47	732.47	4.40	24.05	-158.41	479.77	-5,973.24	6,033.01	6,004.62	28.39	212.500		
774.77	770.92	805.92	805.92	4.68	26.59	-158.36	479.77	-5,973.24	6,046.00	6,014.83	31.17	193.970		
800.00	795.65	830.65	830.65	4.78	27.45	-158.38	479.77	-5,973.24	6,050.69	6,018.58	32.11	188.431		
900.00	893.64	928.64	928.64	5.20	30.85	-158.45	479.77	-5,973.24	6,069.27	6,033.42	35.85	169.317		
1,000.00	991.63	1,026.63	1,026.63	5.66	34.25	-158.51	479.77	-5,973.24	6,087.86	6,048.25	39.61	153.707		
1,100.00	1,089.63	1,124.63	1,124.63	6.15	37.66	-158.58	479.77	-5,973.24	6,106.46	6,063.07	43.39	140.738		
1,200.00	1,187.62	1,222.62	1,222.62	6.65	41.07	-158.65	479.77	-5,973.24	6,125.06	6,077.87	47.19	129.801		
1,300.00	1,285.62	1,320.62	1,320.62	7.17	44.48	-158.72	479.77	-5,973.24	6,143.68	6,092.68	51.00	120.463		
1,400.00	1,383.61	1,418.61	1,418.61	7.71	47.89	-158.79	479.77	-5,973.24	6,162.30	6,107.47	54.82	112.400		
1,500.00	1,481.60	1,516.60	1,516.60	8.25	51.30	-158.85	479.77	-5,973.24	6,180.93	6,122.27	58.66	105.373		
1,600.00	1,579.60	1,614.60	1,614.60	8.80	54.72	-158.92	479.77	-5,973.24	6,199.57	6,137.07	62.50	99.195		
1,700.00	1,677.59	1,712.59	1,712.59	9.36	58.13	-158.98	479.77	-5,973.24	6,218.22	6,151.87	66.35	93.724		
1,800.00	1,775.59	1,810.59	1,810.59	9.92	61.55	-159.05	479.77	-5,973.24	6,236.87	6,166.67	70.20	88.846		
1,900.00	1,873.58	1,908.58	1,908.58	10.49	64.97	-159.11	479.77	-5,973.24	6,255.53	6,181.48	74.06	84.471		
2,000.00	1,971.57	2,006.57	2,006.57	11.06	68.38	-159.18	479.77	-5,973.24	6,274.20	6,196.29	77.92	80.525		
2,100.00	2,069.57	2,104.57	2,104.57	11.64	71.80	-159.24	479.77	-5,973.24	6,292.88	6,211.10	81.78	76.948		
2,200.00	2,167.56	2,202.56	2,202.56	12.22	75.22	-159.31	479.77	-5,973.24	6,311.57	6,225.92	85.65	73.692		
2,300.00	2,265.56	2,300.56	2,300.56	12.80	78.64	-159.37	479.77	-5,973.24	6,330.26	6,240.74	89.52	70.715		
2,400.00	2,363.55	2,401.45	2,398.55	13.38	82.15	-159.43	479.77	-5,973.24	6,348.96	6,255.47	93.49	67.910		
2,500.00	2,461.54	2,503.46	2,496.54	13.97	85.71	-159.50	479.77	-5,973.24	6,367.67	6,270.17	97.51	65.306		
2,600.00	2,559.54	2,605.46	2,594.54	14.55	89.27	-159.56	479.77	-5,973.24	6,386.39	6,284.87	101.52	62.907		
2,700.00	2,657.53	2,707.47	2,692.53	15.14	92.83	-159.62	479.77	-5,973.24	6,405.11	6,299.57	105.54	60.690		
2,800.00	2,755.53	2,809.47	2,790.53	15.73	96.39	-159.68	479.77	-5,973.24	6,423.84	6,314.29	109.56	58.635		
2,900.00	2,853.52	2,888.52	2,888.52	16.32	99.15	-159.75	479.77	-5,973.24	6,442.58	6,329.80	112.78	57.128		
3,000.00	2,951.52	2,986.52	2,986.52	16.91	102.57	-159.81	479.77	-5,973.24	6,461.32	6,344.67	116.66	55.388		
3,100.00	3,049.51	3,084.51	3,084.51	17.51	105.99	-159.87	479.77	-5,973.24	6,480.08	6,359.54	120.54	53.760		
3,200.00	3,147.50	3,182.50	3,182.50	18.10	109.41	-159.93	479.77	-5,973.24	6,498.83	6,374.42	124.42	52.233		
3,300.00	3,245.50	3,280.50	3,280.50	18.70	112.82	-159.99	479.77	-5,973.24	6,517.60	6,389.30	128.30	50.799		
3,400.00	3,343.49	3,378.49	3,378.49	19.29	116.24	-160.05	479.77	-5,973.24	6,536.37	6,404.19	132.19	49.448		
3,500.00	3,441.49	3,476.49	3,476.49	19.89	119.66	-160.11	479.77	-5,973.24	6,555.15	6,419.08	136.07	48.175		
3,600.00	3,539.48	3,574.48	3,574.48	20.48	123.08	-160.17	479.77	-5,973.24	6,573.94	6,433.98	139.96	46.972		
3,700.00	3,637.47	3,672.47	3,672.47	21.08	126.50	-160.22	479.77	-5,973.24	6,592.73	6,448.89	143.84	45.834		
3,800.00	3,735.47	3,770.47	3,770.47	21.68	129.92	-160.28	479.77	-5,973.24	6,611.53	6,463.81	147.73	44.755		
3,900.00	3,833.46	3,868.46	3,868.46	22.27	133.34	-160.34	479.77	-5,973.24	6,630.34	6,478.73	151.61	43.732		
4,000.00	3,931.46	3,966.46	3,966.46	22.87	136.76	-160.40	479.77	-5,973.24	6,649.15	6,493.65	155.50	42.760		
4,100.00	4,029.45	4,064.45	4,064.45	23.47	140.18	-160.46	479.77	-5,973.24	6,667.97	6,508.58	159.39	41.835		
4,200.00	4,127.44	4,162.44	4,162.44	24.07	143.60	-160.51	479.77	-5,973.24	6,686.80	6,523.52	163.27	40.955		
4,300.00	4,225.44	4,260.44	4,260.44	24.67	147.02	-160.57	479.77	-5,973.24	6,705.63	6,538.47	167.16	40.115		
4,400.00	4,323.43	4,358.43	4,358.43	25.27	150.44	-160.63	479.77	-5,973.24	6,724.47	6,553.42	171.05	39.313		
4,507.81	4,429.08	4,464.08	4,464.08	25.92	154.13	-160.69	479.77	-5,973.24	6,744.78	6,569.54	175.24	38.489		
4,600.00	4,519.70	4,554.70	4,554.70	26.45	157.29	-160.84	479.77	-5,973.24	6,760.78	6,581.96	178.83	37.806		
4,700.00	4,618.56	4,653.56	4,653.56	26.98	160.74	-160.98	479.77	-5,973.24	6,775.02	6,592.29	182.73	37.077		
4,800.00	4,717.88	4,752.88	4,752.88	27.46	164.21	-161.08	479.77	-5,973.24	6,785.98	6,599.35	186.63	36.360		
4,900.00	4,817.54	4,852.54	4,852.54	27.89	167.69	-161.15	479.77	-5,973.24	6,793.65	6,603.12	190.53	35.656		
5,000.00	4,917.43	4,952.43	4,952.43	28.28	171.18	-161.19	479.77	-5,973.24	6,798.03	6,603.60	194.43	34.963		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,035.00	5,035.00	28.57	174.06	-88.05	479.77	-5,973.24	6,799.16	6,601.52	197.64	34.402		
5,100.00	5,017.42	5,052.42	5,052.42	28.62	174.67	-88.05	479.77	-5,973.24	6,799.16	6,600.84	198.31	34.285		
5,200.00	5,117.42	5,152.42	5,152.42	28.95	178.16	-88.05	479.77	-5,973.24	6,799.16	6,596.97	202.19	33.628		
5,300.00	5,217.42	5,252.42	5,252.42	29.28	181.65	-88.05	479.77	-5,973.24	6,799.16	6,593.09	206.06	32.995		
5,400.00	5,317.42	5,352.42	5,352.42	29.62	185.14	-88.05	479.77	-5,973.24	6,799.16	6,589.22	209.94	32.386		
5,500.00	5,417.42	5,452.42	5,452.42	29.96	188.63	-88.05	479.77	-5,973.24	6,799.16	6,585.34	213.82	31.798		
5,600.00	5,517.42	5,552.42	5,552.42	30.29	192.12	-88.05	479.77	-5,973.24	6,799.16	6,581.45	217.70	31.231		
5,700.00	5,617.42	5,652.42	5,652.42	30.64	195.61	-88.05	479.77	-5,973.24	6,799.16	6,577.57	221.59	30.684		
5,800.00	5,717.42	5,752.42	5,752.42	30.98	199.10	-88.05	479.77	-5,973.24	6,799.16	6,573.69	225.47	30.155		
5,900.00	5,817.42	5,852.42	5,852.42	31.33	202.59	-88.05	479.77	-5,973.24	6,799.16	6,569.80	229.36	29.645		
6,000.00	5,917.42	5,952.42	5,952.42	31.68	206.08	-88.05	479.77	-5,973.24	6,799.16	6,565.92	233.24	29.151		
6,100.00	6,017.42	6,052.42	6,052.42	32.03	209.57	-88.05	479.77	-5,973.24	6,799.16	6,562.03	237.13	28.673		
6,200.00	6,117.42	6,152.42	6,152.42	32.38	213.06	-88.05	479.77	-5,973.24	6,799.16	6,558.14	241.02	28.210		
6,300.00	6,217.42	6,252.42	6,252.42	32.74	216.55	-88.05	479.77	-5,973.24	6,799.16	6,554.25	244.91	27.762		
6,400.00	6,317.42	6,352.42	6,352.42	33.09	220.04	-88.05	479.77	-5,973.24	6,799.16	6,550.35	248.80	27.327		
6,476.01	6,393.43	6,428.43	6,428.43	33.37	222.70	-88.05	479.77	-5,973.24	6,799.16	6,547.40	251.76	27.006		
6,500.00	6,417.42	6,452.42	6,452.42	33.45	223.53	4.28	479.77	-5,973.24	6,798.71	6,546.02	252.69	26.905		
6,550.00	6,467.25	6,502.25	6,502.25	33.59	225.27	4.31	479.77	-5,973.24	6,794.87	6,540.26	254.61	26.687		
6,600.00	6,516.64	6,551.64	6,551.64	33.71	227.00	4.37	479.77	-5,973.24	6,787.15	6,530.65	256.50	26.460		
6,650.00	6,565.26	6,600.26	6,600.26	33.80	228.69	4.46	479.77	-5,973.24	6,775.60	6,517.24	258.35	26.226		
6,700.00	6,612.83	6,647.83	6,647.83	33.88	230.35	4.58	479.77	-5,973.24	6,760.27	6,500.11	260.16	25.985		
6,750.00	6,659.04	6,705.96	6,694.04	33.94	232.38	4.75	479.77	-5,973.24	6,741.26	6,478.95	262.31	25.700		
6,800.00	6,703.62	6,738.62	6,738.62	33.99	233.52	4.96	479.77	-5,973.24	6,718.71	6,455.14	263.56	25.492		
6,850.00	6,746.28	6,781.28	6,781.28	34.03	235.01	5.22	479.77	-5,973.24	6,692.73	6,427.58	265.15	25.242		
6,900.00	6,786.76	6,821.76	6,821.76	34.08	236.43	5.55	479.77	-5,973.24	6,663.50	6,396.86	266.64	24.990		
6,950.00	6,824.83	6,859.83	6,859.83	34.13	237.75	5.96	479.77	-5,973.24	6,631.19	6,363.15	268.04	24.740		
7,000.00	6,860.23	6,904.77	6,895.23	34.20	239.32	6.47	479.77	-5,973.24	6,596.00	6,326.34	269.66	24.460		
7,050.00	6,892.75	6,927.75	6,927.75	34.30	240.13	7.13	479.77	-5,973.24	6,558.16	6,287.65	270.51	24.244		
7,100.00	6,922.20	6,957.20	6,957.20	34.43	241.15	7.98	479.77	-5,973.24	6,517.88	6,246.32	271.56	24.001		
7,150.00	6,948.38	6,983.38	6,983.38	34.60	242.07	9.11	479.77	-5,973.24	6,475.43	6,202.94	272.50	23.763		
7,200.00	6,971.15	7,006.15	7,006.15	34.82	242.86	10.67	479.77	-5,973.24	6,431.07	6,157.76	273.31	23.531		
7,250.00	6,990.35	7,025.35	7,025.35	35.09	243.53	12.91	479.77	-5,973.24	6,385.06	6,111.08	273.98	23.305		
7,300.00	7,005.87	7,040.87	7,040.87	35.43	244.07	16.39	479.77	-5,973.24	6,337.70	6,063.17	274.52	23.086		
7,350.00	7,017.62	7,052.62	7,052.62	35.81	244.48	22.37	479.77	-5,973.24	6,289.27	6,014.33	274.93	22.876		
7,400.00	7,025.52	7,060.52	7,060.52	36.26	244.76	34.40	479.77	-5,973.24	6,240.07	5,964.87	275.20	22.674		
7,450.00	7,029.52	7,064.52	7,064.52	36.75	244.90	63.58	479.77	-5,973.24	6,190.41	5,915.07	275.34	22.483		
7,483.86	7,030.00	7,065.00	7,065.00	37.12	244.92	98.49	479.77	-5,973.24	6,156.67	5,881.31	275.36	22.359		
7,500.00	7,029.80	7,064.80	7,064.80	37.30	244.91	98.47	479.77	-5,973.24	6,140.59	5,865.23	275.35	22.301		
7,600.00	7,028.57	7,063.57	7,063.57	38.58	244.87	98.33	479.77	-5,973.24	6,040.94	5,765.63	275.32	21.942		
7,700.00	7,027.34	7,062.34	7,062.34	40.10	244.82	98.19	479.77	-5,973.24	5,941.31	5,666.03	275.28	21.583		
7,800.00	7,026.10	7,061.10	7,061.10	41.83	244.78	98.06	479.77	-5,973.24	5,841.69	5,566.43	275.25	21.223		
7,900.00	7,024.87	7,059.87	7,059.87	43.74	244.74	97.92	479.77	-5,973.24	5,742.08	5,466.85	275.23	20.863		
8,000.00	7,023.63	7,058.63	7,058.63	45.82	244.69	97.78	479.77	-5,973.24	5,642.49	5,367.27	275.21	20.502		
8,100.00	7,022.40	7,057.40	7,057.40	48.04	244.65	97.65	479.77	-5,973.24	5,542.91	5,267.71	275.20	20.142		
8,200.00	7,021.17	7,056.17	7,056.17	50.38	244.61	97.51	479.77	-5,973.24	5,443.34	5,168.15	275.19	19.780		
8,300.00	7,019.93	7,054.93	7,054.93	52.82	244.56	97.37	479.77	-5,973.24	5,343.79	5,068.60	275.19	19.418		
8,400.00	7,018.70	7,053.70	7,053.70	55.35	244.52	97.23	479.77	-5,973.24	5,244.26	4,969.06	275.20	19.056		
8,500.00	7,017.47	7,052.47	7,052.47	57.97	244.48	97.10	479.77	-5,973.24	5,144.74	4,869.53	275.21	18.694		
8,600.00	7,016.23	7,051.23	7,051.23	60.65	244.44	96.96	479.77	-5,973.24	5,045.25	4,770.01	275.24	18.331		
8,700.00	7,015.00	7,050.00	7,050.00	63.39	244.39	96.82	479.77	-5,973.24	4,945.77	4,670.50	275.27	17.967		
8,800.00	7,013.76	7,048.76	7,048.76	66.19	244.35	96.69	479.77	-5,973.24	4,846.32	4,571.01	275.31	17.603		
8,900.00	7,012.53	7,047.53	7,047.53	69.03	244.31	96.55	479.77	-5,973.24	4,746.89	4,471.52	275.36	17.239		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,046.30	7,046.30	71.91	244.26	96.41	479.77	-5,973.24	4,647.48	4,372.05	275.43	16.874		
9,100.00	7,010.06	7,045.06	7,045.06	74.83	244.22	96.27	479.77	-5,973.24	4,548.10	4,272.59	275.51	16.508		
9,200.00	7,008.83	7,043.83	7,043.83	77.78	244.18	96.13	479.77	-5,973.24	4,448.74	4,173.14	275.60	16.142		
9,300.00	7,007.60	7,042.60	7,042.60	80.76	244.13	96.00	479.77	-5,973.24	4,349.42	4,073.71	275.71	15.775		
9,400.00	7,006.36	7,041.36	7,041.36	83.76	244.09	95.86	479.77	-5,973.24	4,250.12	3,974.29	275.83	15.408		
9,500.00	7,005.13	7,040.13	7,040.13	86.79	244.05	95.72	479.77	-5,973.24	4,150.86	3,874.89	275.98	15.041		
9,600.00	7,003.90	7,038.90	7,038.90	89.84	244.00	95.58	479.77	-5,973.24	4,051.64	3,775.50	276.14	14.672		
9,700.00	7,002.66	7,037.66	7,037.66	92.90	243.96	95.45	479.77	-5,973.24	3,952.45	3,676.12	276.33	14.303		
9,800.00	7,001.43	7,036.43	7,036.43	95.99	243.92	95.31	479.77	-5,973.24	3,853.31	3,576.76	276.54	13.934		
9,900.00	7,000.19	7,035.19	7,035.19	99.08	243.88	95.17	479.77	-5,973.24	3,754.21	3,477.42	276.79	13.564		
10,000.00	6,998.96	7,033.96	7,033.96	102.19	243.83	95.03	479.77	-5,973.24	3,655.16	3,378.10	277.06	13.193		
10,100.00	6,997.73	7,032.73	7,032.73	105.32	243.79	94.89	479.77	-5,973.24	3,556.16	3,278.80	277.37	12.821		
10,200.00	6,996.49	7,031.49	7,031.49	108.45	243.75	94.75	479.77	-5,973.24	3,457.22	3,179.51	277.71	12.449		
10,300.00	6,995.26	7,030.26	7,030.26	111.60	243.70	94.62	479.77	-5,973.24	3,358.34	3,080.24	278.10	12.076		
10,400.00	6,994.03	7,029.03	7,029.03	114.75	243.66	94.48	479.77	-5,973.24	3,259.53	2,981.00	278.53	11.702		
10,500.00	6,992.79	7,027.79	7,027.79	117.92	243.62	94.34	479.77	-5,973.24	3,160.80	2,881.78	279.02	11.328		
10,600.00	6,991.56	7,026.56	7,026.56	121.09	243.57	94.20	479.77	-5,973.24	3,062.14	2,782.57	279.57	10.953		
10,700.00	6,990.33	7,025.33	7,025.33	124.27	243.53	94.06	479.77	-5,973.24	2,963.58	2,683.40	280.18	10.577		
10,800.00	6,989.09	7,024.09	7,024.09	127.46	243.49	93.92	479.77	-5,973.24	2,865.11	2,584.25	280.87	10.201		
10,900.00	6,987.86	7,022.86	7,022.86	130.65	243.45	93.78	479.77	-5,973.24	2,766.76	2,485.12	281.64	9.824		
11,000.00	6,986.62	7,021.62	7,021.62	133.85	243.40	93.65	479.77	-5,973.24	2,668.52	2,386.02	282.50	9.446		
11,100.00	6,985.39	7,020.39	7,020.39	137.06	243.36	93.51	479.77	-5,973.24	2,570.42	2,286.95	283.47	9.068		
11,200.00	6,984.16	7,019.16	7,019.16	140.27	243.32	93.37	479.77	-5,973.24	2,472.48	2,187.92	284.56	8.689		
11,300.00	6,982.92	7,017.92	7,017.92	143.48	243.27	93.23	479.77	-5,973.24	2,374.70	2,088.92	285.78	8.310		
11,400.00	6,981.69	7,016.69	7,016.69	146.70	243.23	93.09	479.77	-5,973.24	2,277.12	1,989.96	287.15	7.930		
11,500.00	6,980.46	7,015.46	7,015.46	149.92	243.19	92.95	479.77	-5,973.24	2,179.75	1,891.05	288.70	7.550		
11,600.00	6,979.22	7,014.22	7,014.22	153.15	243.14	92.81	479.77	-5,973.24	2,082.63	1,792.18	290.45	7.170		
11,700.00	6,977.99	7,012.99	7,012.99	156.38	243.10	92.67	479.77	-5,973.24	1,985.80	1,693.38	292.42	6.791		
11,800.00	6,976.75	7,011.75	7,011.75	159.62	243.06	92.53	479.77	-5,973.24	1,889.30	1,594.64	294.66	6.412		
11,900.00	6,975.52	7,010.52	7,010.52	162.86	243.01	92.40	479.77	-5,973.24	1,793.18	1,495.98	297.20	6.034		
12,000.00	6,974.29	7,009.29	7,009.29	166.10	242.97	92.26	479.77	-5,973.24	1,697.51	1,397.41	300.09	5.657		
12,100.00	6,973.05	7,008.05	7,008.05	169.34	242.93	92.12	479.77	-5,973.24	1,602.36	1,298.97	303.40	5.281		
12,200.00	6,971.82	7,006.82	7,006.82	172.59	242.89	91.98	479.77	-5,973.24	1,507.85	1,200.67	307.18	4.909		
12,300.00	6,970.59	7,005.59	7,005.59	175.84	242.84	91.84	479.77	-5,973.24	1,414.08	1,102.55	311.53	4.539		
12,400.00	6,969.35	7,004.35	7,004.35	179.09	242.80	91.70	479.77	-5,973.24	1,321.23	1,004.68	316.55	4.174		
12,500.00	6,968.12	7,003.12	7,003.12	182.35	242.76	91.56	479.77	-5,973.24	1,229.50	907.14	322.37	3.814		
12,600.00	6,966.89	7,001.89	7,001.89	185.60	242.71	91.42	479.77	-5,973.24	1,139.17	810.03	329.13	3.461		
12,700.00	6,965.65	7,000.65	7,000.65	188.86	242.67	91.28	479.77	-5,973.24	1,050.58	713.54	337.04	3.117		
12,800.00	6,964.42	7,000.58	6,999.42	192.12	242.67	91.14	479.77	-5,973.24	964.22	617.89	346.34	2.784		
12,900.00	6,963.18	7,001.82	6,998.18	195.38	242.71	91.00	479.77	-5,973.24	880.76	523.49	357.27	2.465		
13,000.00	6,961.95	7,003.05	6,996.95	198.65	242.75	90.86	479.77	-5,973.24	801.09	431.06	370.03	2.165		
13,100.00	6,960.72	7,004.28	6,995.72	201.91	242.80	90.72	479.77	-5,973.24	726.46	341.69	384.77	1.888		
13,200.00	6,959.48	7,005.52	6,994.48	205.18	242.84	90.59	479.77	-5,973.24	658.60	257.19	401.41	1.641		
13,300.00	6,958.25	7,006.75	6,993.25	208.45	242.88	90.45	479.77	-5,973.24	599.79	180.45	419.35	1.430 Level 3		
13,400.00	6,957.02	7,007.98	6,992.02	211.72	242.93	90.31	479.77	-5,973.24	552.94	115.86	437.08	1.265 Level 3		
13,500.00	6,955.78	7,009.22	6,990.78	214.99	242.97	90.17	479.77	-5,973.24	521.28	69.27	452.02	1.153 Level 2		
13,600.00	6,954.55	6,989.55	6,989.55	218.27	242.28	90.03	479.77	-5,973.24	507.67	47.34	460.33	1.103 Level 2		
13,620.06	6,954.30	6,989.30	6,989.30	218.93	242.27	90.00	479.77	-5,973.24	507.27	46.08	461.20	1.100 Level 2, CC, ES, SF		
13,700.00	6,953.32	6,988.32	6,988.32	221.54	242.24	89.89	479.77	-5,973.24	513.53	52.19	461.34	1.113 Level 2		
13,800.00	6,952.08	6,987.08	6,987.08	224.82	242.20	89.75	479.77	-5,973.24	538.23	83.44	454.80	1.183 Level 2		
13,900.00	6,950.85	6,985.85	6,985.85	228.10	242.15	89.61	479.77	-5,973.24	579.38	136.26	443.12	1.307 Level 3		
14,000.00	6,949.61	6,984.61	6,984.61	231.37	242.11	89.47	479.77	-5,973.24	633.76	204.63	429.13	1.477 Level 3		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	6,983.38	6,983.38	234.65	242.07	89.33	479.77	-5,973.24	698.30	283.38	414.92	1.683		
14,200.00	6,947.15	6,982.15	6,982.15	237.93	242.02	89.19	479.77	-5,973.24	770.45	368.83	401.62	1.918		
14,300.00	6,945.91	6,980.91	6,980.91	241.22	241.98	89.05	479.77	-5,973.24	848.27	458.58	389.70	2.177		
14,400.00	6,944.68	6,979.68	6,979.68	244.50	241.94	88.91	479.77	-5,973.24	930.34	551.12	379.22	2.453		
14,500.00	6,943.45	6,978.45	6,978.45	247.78	241.89	88.77	479.77	-5,973.24	1,015.62	645.53	370.09	2.744		
14,600.00	6,942.21	6,977.21	6,977.21	251.07	241.85	88.63	479.77	-5,973.24	1,103.38	741.21	362.17	3.047		
14,700.00	6,940.98	6,975.98	6,975.98	254.35	241.81	88.50	479.77	-5,973.24	1,193.07	837.79	355.28	3.358		
14,800.00	6,939.74	6,974.74	6,974.74	257.64	241.77	88.36	479.77	-5,973.24	1,284.27	935.01	349.27	3.677		
14,900.00	6,938.51	6,973.51	6,973.51	260.92	241.72	88.22	479.77	-5,973.24	1,376.70	1,032.70	344.00	4.002		
15,000.00	6,937.28	6,972.28	6,972.28	264.21	241.68	88.08	479.77	-5,973.24	1,470.12	1,130.75	339.37	4.332		
15,100.00	6,936.04	6,971.04	6,971.04	267.50	241.64	87.94	479.77	-5,973.24	1,564.35	1,229.08	335.28	4.666		
15,200.00	6,934.81	6,969.81	6,969.81	270.79	241.59	87.80	479.77	-5,973.24	1,659.26	1,327.62	331.64	5.003		
15,300.00	6,933.58	6,968.58	6,968.58	274.08	241.55	87.66	479.77	-5,973.24	1,754.73	1,426.34	328.39	5.343		
15,400.00	6,932.34	6,967.34	6,967.34	277.37	241.51	87.52	479.77	-5,973.24	1,850.68	1,525.20	325.48	5.686		
15,500.00	6,931.11	6,966.11	6,966.11	280.66	241.46	87.38	479.77	-5,973.24	1,947.04	1,624.17	322.86	6.031		
15,589.88	6,930.00	6,965.00	6,965.00	283.62	241.43	87.26	479.77	-5,973.24	2,033.94	1,713.21	320.73	6.342		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	33.00	33.00	3.28	3.33	-97.15	-1,076.47	-8,583.49	8,650.73					
100.00	100.00	133.00	133.00	3.28	4.38	-97.15	-1,076.47	-8,583.49	8,650.73	8,643.07	7.66	1,129.156		
200.00	200.00	233.00	233.00	3.34	7.18	-97.15	-1,076.47	-8,583.49	8,650.73	8,640.21	10.52	822.439		
300.00	299.98	332.98	332.98	3.44	10.41	-170.29	-1,076.47	-8,583.49	8,652.45	8,638.60	13.85	624.604		
400.00	399.84	432.84	432.84	3.60	13.76	-170.28	-1,076.47	-8,583.49	8,657.61	8,640.24	17.36	498.605		
500.00	499.45	532.45	532.45	3.81	17.16	-170.26	-1,076.47	-8,583.49	8,666.20	8,645.23	20.97	413.329		
600.00	598.70	631.70	631.70	4.08	20.57	-170.23	-1,076.47	-8,583.49	8,678.21	8,653.58	24.63	352.411		
700.00	697.47	730.47	730.47	4.40	23.98	-170.20	-1,076.47	-8,583.49	8,693.63	8,665.31	28.32	307.006		
774.77	770.92	803.92	803.92	4.68	26.52	-170.17	-1,076.47	-8,583.49	8,707.38	8,676.28	31.09	280.047		
800.00	795.65	828.65	828.65	4.78	27.38	-170.17	-1,076.47	-8,583.49	8,712.33	8,680.30	32.03	271.988		
900.00	893.64	926.64	926.64	5.20	30.78	-170.19	-1,076.47	-8,583.49	8,731.98	8,696.22	35.76	244.201		
1,000.00	991.63	1,024.63	1,024.63	5.66	34.18	-170.22	-1,076.47	-8,583.49	8,751.63	8,712.12	39.51	221.516		
1,100.00	1,089.63	1,122.63	1,122.63	6.15	37.59	-170.24	-1,076.47	-8,583.49	8,771.28	8,728.00	43.28	202.670		
1,200.00	1,187.62	1,220.62	1,220.62	6.65	41.00	-170.26	-1,076.47	-8,583.49	8,790.93	8,743.87	47.07	186.780		
1,300.00	1,285.62	1,318.62	1,318.62	7.17	44.41	-170.28	-1,076.47	-8,583.49	8,810.59	8,759.72	50.87	173.211		
1,400.00	1,383.61	1,416.61	1,416.61	7.71	47.82	-170.30	-1,076.47	-8,583.49	8,830.24	8,775.57	54.68	161.497		
1,500.00	1,481.60	1,514.60	1,514.60	8.25	51.23	-170.33	-1,076.47	-8,583.49	8,849.90	8,791.40	58.50	151.286		
1,600.00	1,579.60	1,612.60	1,612.60	8.80	54.65	-170.35	-1,076.47	-8,583.49	8,869.56	8,807.23	62.33	142.309		
1,700.00	1,677.59	1,710.59	1,710.59	9.36	58.06	-170.37	-1,076.47	-8,583.49	8,889.21	8,823.05	66.16	134.359		
1,800.00	1,775.59	1,808.59	1,808.59	9.92	61.48	-170.39	-1,076.47	-8,583.49	8,908.87	8,838.87	70.00	127.269		
1,900.00	1,873.58	1,906.58	1,906.58	10.49	64.90	-170.41	-1,076.47	-8,583.49	8,928.53	8,854.69	73.84	120.909		
2,000.00	1,971.57	2,004.57	2,004.57	11.06	68.31	-170.43	-1,076.47	-8,583.49	8,948.20	8,870.50	77.69	115.173		
2,100.00	2,069.57	2,102.57	2,102.57	11.64	71.73	-170.45	-1,076.47	-8,583.49	8,967.86	8,886.31	81.55	109.974		
2,200.00	2,167.56	2,200.56	2,200.56	12.22	75.15	-170.47	-1,076.47	-8,583.49	8,987.52	8,902.12	85.40	105.240		
2,300.00	2,265.56	2,301.44	2,298.56	12.80	78.67	-170.50	-1,076.47	-8,583.49	9,007.19	8,917.83	89.36	100.798		
2,400.00	2,363.55	2,403.45	2,396.55	13.38	82.22	-170.52	-1,076.47	-8,583.49	9,026.86	8,933.50	93.36	96.690		
2,500.00	2,461.54	2,505.46	2,494.54	13.97	85.78	-170.54	-1,076.47	-8,583.49	9,046.52	8,949.16	97.36	92.918		
2,600.00	2,559.54	2,607.46	2,592.54	14.55	89.34	-170.56	-1,076.47	-8,583.49	9,066.19	8,964.83	101.36	89.441		
2,700.00	2,657.53	2,709.47	2,690.53	15.14	92.90	-170.58	-1,076.47	-8,583.49	9,085.86	8,980.49	105.37	86.228		
2,800.00	2,755.53	2,788.53	2,788.53	15.73	95.66	-170.60	-1,076.47	-8,583.49	9,105.53	8,996.96	108.58	83.863		
2,900.00	2,853.52	2,886.52	2,886.52	16.32	99.08	-170.62	-1,076.47	-8,583.49	9,125.21	9,012.76	112.44	81.153		
3,000.00	2,951.52	2,984.52	2,984.52	16.91	102.50	-170.64	-1,076.47	-8,583.49	9,144.88	9,028.57	116.31	78.622		
3,100.00	3,049.51	3,082.51	3,082.51	17.51	105.92	-170.66	-1,076.47	-8,583.49	9,164.55	9,044.37	120.18	76.254		
3,200.00	3,147.50	3,180.50	3,180.50	18.10	109.34	-170.68	-1,076.47	-8,583.49	9,184.23	9,060.17	124.06	74.033		
3,300.00	3,245.50	3,278.50	3,278.50	18.70	112.75	-170.70	-1,076.47	-8,583.49	9,203.91	9,075.98	127.93	71.946		
3,400.00	3,343.49	3,376.49	3,376.49	19.29	116.17	-170.72	-1,076.47	-8,583.49	9,223.58	9,091.78	131.80	69.981		
3,500.00	3,441.49	3,474.49	3,474.49	19.89	119.59	-170.74	-1,076.47	-8,583.49	9,243.26	9,107.59	135.68	68.128		
3,600.00	3,539.48	3,572.48	3,572.48	20.48	123.01	-170.76	-1,076.47	-8,583.49	9,262.94	9,123.39	139.55	66.377		
3,700.00	3,637.47	3,670.47	3,670.47	21.08	126.43	-170.78	-1,076.47	-8,583.49	9,282.62	9,139.20	143.42	64.721		
3,800.00	3,735.47	3,768.47	3,768.47	21.68	129.85	-170.80	-1,076.47	-8,583.49	9,302.31	9,155.01	147.30	63.152		
3,900.00	3,833.46	3,866.46	3,866.46	22.27	133.27	-170.82	-1,076.47	-8,583.49	9,321.99	9,170.81	151.18	61.663		
4,000.00	3,931.46	3,964.46	3,964.46	22.87	136.69	-170.84	-1,076.47	-8,583.49	9,341.67	9,186.62	155.05	60.248		
4,100.00	4,029.45	4,062.45	4,062.45	23.47	140.11	-170.86	-1,076.47	-8,583.49	9,361.36	9,202.43	158.93	58.902		
4,200.00	4,127.44	4,160.44	4,160.44	24.07	143.53	-170.88	-1,076.47	-8,583.49	9,381.04	9,218.24	162.81	57.620		
4,300.00	4,225.44	4,258.44	4,258.44	24.67	146.95	-170.90	-1,076.47	-8,583.49	9,400.73	9,234.05	166.69	56.398		
4,400.00	4,323.43	4,356.43	4,356.43	25.27	150.37	-170.92	-1,076.47	-8,583.49	9,420.42	9,249.86	170.56	55.231		
4,507.81	4,429.08	4,462.08	4,462.08	25.92	154.06	-170.94	-1,076.47	-8,583.49	9,441.65	9,266.90	174.75	54.031		
4,600.00	4,519.70	4,552.70	4,552.70	26.45	157.22	-171.01	-1,076.47	-8,583.49	9,458.36	9,280.03	178.33	53.040		
4,700.00	4,618.56	4,651.56	4,651.56	26.98	160.67	-171.07	-1,076.47	-8,583.49	9,473.22	9,291.00	182.22	51.987		
4,800.00	4,717.88	4,750.88	4,750.88	27.46	164.14	-171.11	-1,076.47	-8,583.49	9,484.67	9,298.54	186.13	50.958		
4,900.00	4,817.54	4,850.54	4,850.54	27.89	167.62	-171.15	-1,076.47	-8,583.49	9,492.68	9,302.65	190.03	49.953		
5,000.00	4,917.43	4,950.43	4,950.43	28.28	171.11	-171.16	-1,076.47	-8,583.49	9,497.25	9,303.32	193.93	48.971		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,033.00	5,033.00	28.57	173.99	-98.02	-1,076.47	-8,583.49	9,498.43	9,301.28	197.15	48.180		
5,100.00	5,017.42	5,050.42	5,050.42	28.62	174.60	-98.02	-1,076.47	-8,583.49	9,498.43	9,300.60	197.82	48.015		
5,200.00	5,117.42	5,150.42	5,150.42	28.95	178.09	-98.02	-1,076.47	-8,583.49	9,498.43	9,296.72	201.70	47.091		
5,300.00	5,217.42	5,250.42	5,250.42	29.28	181.58	-98.02	-1,076.47	-8,583.49	9,498.43	9,292.84	205.59	46.202		
5,400.00	5,317.42	5,350.42	5,350.42	29.62	185.07	-98.02	-1,076.47	-8,583.49	9,498.43	9,288.96	209.47	45.345		
5,500.00	5,417.42	5,450.42	5,450.42	29.96	188.56	-98.02	-1,076.47	-8,583.49	9,498.43	9,285.07	213.36	44.519		
5,600.00	5,517.42	5,550.42	5,550.42	30.29	192.05	-98.02	-1,076.47	-8,583.49	9,498.43	9,281.18	217.24	43.723		
5,700.00	5,617.42	5,650.42	5,650.42	30.64	195.54	-98.02	-1,076.47	-8,583.49	9,498.43	9,277.30	221.13	42.954		
5,800.00	5,717.42	5,750.42	5,750.42	30.98	199.03	-98.02	-1,076.47	-8,583.49	9,498.43	9,273.41	225.02	42.211		
5,900.00	5,817.42	5,850.42	5,850.42	31.33	202.52	-98.02	-1,076.47	-8,583.49	9,498.43	9,269.51	228.91	41.494		
6,000.00	5,917.42	5,950.42	5,950.42	31.68	206.01	-98.02	-1,076.47	-8,583.49	9,498.43	9,265.62	232.80	40.800		
6,100.00	6,017.42	6,050.42	6,050.42	32.03	209.50	-98.02	-1,076.47	-8,583.49	9,498.43	9,261.73	236.70	40.129		
6,200.00	6,117.42	6,150.42	6,150.42	32.38	212.99	-98.02	-1,076.47	-8,583.49	9,498.43	9,257.83	240.59	39.479		
6,300.00	6,217.42	6,250.42	6,250.42	32.74	216.48	-98.02	-1,076.47	-8,583.49	9,498.43	9,253.94	244.49	38.850		
6,400.00	6,317.42	6,350.42	6,350.42	33.09	219.97	-98.02	-1,076.47	-8,583.49	9,498.43	9,250.04	248.38	38.241		
6,476.01	6,393.43	6,426.43	6,426.43	33.37	222.63	-98.02	-1,076.47	-8,583.49	9,498.43	9,247.08	251.35	37.790		
6,500.00	6,417.42	6,450.42	6,450.42	33.45	223.46	-5.69	-1,076.47	-8,583.49	9,497.98	9,245.70	252.28	37.649		
6,550.00	6,467.25	6,500.25	6,500.25	33.59	225.20	-5.73	-1,076.47	-8,583.49	9,494.15	9,239.95	254.20	37.349		
6,600.00	6,516.64	6,549.64	6,549.64	33.71	226.93	-5.80	-1,076.47	-8,583.49	9,486.45	9,230.36	256.09	37.043		
6,650.00	6,565.26	6,601.74	6,598.26	33.80	228.75	-5.92	-1,076.47	-8,583.49	9,474.91	9,216.84	258.07	36.714		
6,700.00	6,612.83	6,645.83	6,645.83	33.88	230.28	-6.08	-1,076.47	-8,583.49	9,459.62	9,199.86	259.76	36.417		
6,750.00	6,659.04	6,707.96	6,692.04	33.94	232.45	-6.29	-1,076.47	-8,583.49	9,440.66	9,178.60	262.05	36.025		
6,800.00	6,703.62	6,736.62	6,736.62	33.99	233.45	-6.56	-1,076.47	-8,583.49	9,418.15	9,154.98	263.17	35.787		
6,850.00	6,746.28	6,779.28	6,779.28	34.03	234.94	-6.90	-1,076.47	-8,583.49	9,392.23	9,127.47	264.76	35.474		
6,900.00	6,786.76	6,819.76	6,819.76	34.08	236.36	-7.32	-1,076.47	-8,583.49	9,363.06	9,096.79	266.26	35.165		
6,950.00	6,824.83	6,857.83	6,857.83	34.13	237.68	-7.85	-1,076.47	-8,583.49	9,330.82	9,063.15	267.67	34.860		
7,000.00	6,860.23	6,906.77	6,893.23	34.20	239.39	-8.51	-1,076.47	-8,583.49	9,295.71	9,026.27	269.44	34.500		
7,050.00	6,892.75	6,925.75	6,925.75	34.30	240.06	-9.36	-1,076.47	-8,583.49	9,257.95	8,987.80	270.15	34.270		
7,100.00	6,922.20	6,955.20	6,955.20	34.43	241.08	-10.45	-1,076.47	-8,583.49	9,217.76	8,946.55	271.22	33.987		
7,150.00	6,948.38	6,981.38	6,981.38	34.60	242.00	-11.89	-1,076.47	-8,583.49	9,175.41	8,903.25	272.16	33.713		
7,200.00	6,971.15	7,004.15	7,004.15	34.82	242.79	-13.86	-1,076.47	-8,583.49	9,131.14	8,858.16	272.98	33.450		
7,250.00	6,990.35	7,023.35	7,023.35	35.09	243.46	-16.68	-1,076.47	-8,583.49	9,085.24	8,811.57	273.67	33.198		
7,300.00	7,005.87	7,038.87	7,038.87	35.43	244.00	-20.99	-1,076.47	-8,583.49	9,037.98	8,763.75	274.22	32.958		
7,350.00	7,017.62	7,050.62	7,050.62	35.81	244.41	-28.17	-1,076.47	-8,583.49	8,989.66	8,715.01	274.65	32.732		
7,400.00	7,025.52	7,058.52	7,058.52	36.26	244.69	-41.64	-1,076.47	-8,583.49	8,940.57	8,665.64	274.93	32.519		
7,450.00	7,029.52	7,062.52	7,062.52	36.75	244.83	-69.01	-1,076.47	-8,583.49	8,891.02	8,615.93	275.09	32.321		
7,483.86	7,030.00	7,063.00	7,063.00	37.12	244.85	-96.58	-1,076.47	-8,583.49	8,857.36	8,582.24	275.12	32.195		
7,500.00	7,029.80	7,062.80	7,062.80	37.30	244.84	-96.57	-1,076.47	-8,583.49	8,841.31	8,566.20	275.12	32.137		
7,600.00	7,028.57	7,061.57	7,061.57	38.58	244.80	-96.50	-1,076.47	-8,583.49	8,741.89	8,466.78	275.12	31.775		
7,700.00	7,027.34	7,060.34	7,060.34	40.10	244.75	-96.42	-1,076.47	-8,583.49	8,642.49	8,367.37	275.12	31.413		
7,800.00	7,026.10	7,059.10	7,059.10	41.83	244.71	-96.35	-1,076.47	-8,583.49	8,543.10	8,267.96	275.14	31.050		
7,900.00	7,024.87	7,057.87	7,057.87	43.74	244.67	-96.28	-1,076.47	-8,583.49	8,443.72	8,168.57	275.16	30.687		
8,000.00	7,023.63	7,056.63	7,056.63	45.82	244.62	-96.20	-1,076.47	-8,583.49	8,344.36	8,069.18	275.19	30.323		
8,100.00	7,022.40	7,055.40	7,055.40	48.04	244.58	-96.13	-1,076.47	-8,583.49	8,245.02	7,969.79	275.22	29.958		
8,200.00	7,021.17	7,054.17	7,054.17	50.38	244.54	-96.05	-1,076.47	-8,583.49	8,145.69	7,870.42	275.27	29.592		
8,300.00	7,019.93	7,052.93	7,052.93	52.82	244.49	-95.98	-1,076.47	-8,583.49	8,046.37	7,771.05	275.32	29.225		
8,400.00	7,018.70	7,051.70	7,051.70	55.35	244.45	-95.90	-1,076.47	-8,583.49	7,947.07	7,671.69	275.39	28.858		
8,500.00	7,017.47	7,050.47	7,050.47	57.97	244.41	-95.83	-1,076.47	-8,583.49	7,847.79	7,572.34	275.46	28.490		
8,600.00	7,016.23	7,049.23	7,049.23	60.65	244.37	-95.76	-1,076.47	-8,583.49	7,748.53	7,472.99	275.54	28.121		
8,700.00	7,015.00	7,048.00	7,048.00	63.39	244.32	-95.68	-1,076.47	-8,583.49	7,649.29	7,373.65	275.64	27.751		
8,800.00	7,013.76	7,046.76	7,046.76	66.19	244.28	-95.61	-1,076.47	-8,583.49	7,550.07	7,274.32	275.75	27.381		
8,900.00	7,012.53	7,045.53	7,045.53	69.03	244.24	-95.53	-1,076.47	-8,583.49	7,450.87	7,175.00	275.86	27.009		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-2" Cone@2.448 Sigma													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,044.30	7,044.30	71.91	244.19	-95.46	-1,076.47	-8,583.49	7,351.69	7,075.69	276.00	26.637		
9,100.00	7,010.06	7,043.06	7,043.06	74.83	244.15	-95.38	-1,076.47	-8,583.49	7,252.53	6,976.39	276.14	26.264		
9,200.00	7,008.83	7,041.83	7,041.83	77.78	244.11	-95.31	-1,076.47	-8,583.49	7,153.40	6,877.10	276.30	25.890		
9,300.00	7,007.60	7,040.60	7,040.60	80.76	244.06	-95.23	-1,076.47	-8,583.49	7,054.28	6,777.81	276.47	25.515		
9,400.00	7,006.36	7,039.36	7,039.36	83.76	244.02	-95.16	-1,076.47	-8,583.49	6,955.20	6,678.54	276.66	25.140		
9,500.00	7,005.13	7,038.13	7,038.13	86.79	243.98	-95.09	-1,076.47	-8,583.49	6,856.14	6,579.27	276.87	24.763		
9,600.00	7,003.90	7,036.90	7,036.90	89.84	243.94	-95.01	-1,076.47	-8,583.49	6,757.11	6,480.02	277.09	24.386		
9,700.00	7,002.66	7,035.66	7,035.66	92.90	243.89	-94.94	-1,076.47	-8,583.49	6,658.11	6,380.78	277.33	24.008		
9,800.00	7,001.43	7,034.43	7,034.43	95.99	243.85	-94.86	-1,076.47	-8,583.49	6,559.13	6,281.55	277.59	23.629		
9,900.00	7,000.19	7,033.19	7,033.19	99.08	243.81	-94.79	-1,076.47	-8,583.49	6,460.19	6,182.33	277.87	23.249		
10,000.00	6,998.96	7,031.96	7,031.96	102.19	243.76	-94.71	-1,076.47	-8,583.49	6,361.28	6,083.12	278.17	22.869		
10,100.00	6,997.73	7,030.73	7,030.73	105.32	243.72	-94.64	-1,076.47	-8,583.49	6,262.41	5,983.92	278.49	22.487		
10,200.00	6,996.49	7,029.49	7,029.49	108.45	243.68	-94.56	-1,076.47	-8,583.49	6,163.57	5,884.74	278.84	22.105		
10,300.00	6,995.26	7,028.26	7,028.26	111.60	243.63	-94.49	-1,076.47	-8,583.49	6,064.77	5,785.57	279.21	21.722		
10,400.00	6,994.03	7,027.03	7,027.03	114.75	243.59	-94.41	-1,076.47	-8,583.49	5,966.01	5,686.41	279.60	21.338		
10,500.00	6,992.79	7,025.79	7,025.79	117.92	243.55	-94.34	-1,076.47	-8,583.49	5,867.29	5,587.27	280.03	20.953		
10,600.00	6,991.56	7,024.56	7,024.56	121.09	243.50	-94.27	-1,076.47	-8,583.49	5,768.62	5,488.14	280.48	20.567		
10,700.00	6,990.33	7,023.33	7,023.33	124.27	243.46	-94.19	-1,076.47	-8,583.49	5,669.99	5,389.03	280.96	20.181		
10,800.00	6,989.09	7,022.09	7,022.09	127.46	243.42	-94.12	-1,076.47	-8,583.49	5,571.41	5,289.94	281.47	19.794		
10,900.00	6,987.86	7,020.86	7,020.86	130.65	243.38	-94.04	-1,076.47	-8,583.49	5,472.88	5,190.86	282.02	19.406		
11,000.00	6,986.62	7,019.62	7,019.62	133.85	243.33	-93.97	-1,076.47	-8,583.49	5,374.41	5,091.80	282.61	19.017		
11,100.00	6,985.39	7,018.39	7,018.39	137.06	243.29	-93.89	-1,076.47	-8,583.49	5,275.99	4,992.76	283.23	18.628		
11,200.00	6,984.16	7,017.16	7,017.16	140.27	243.25	-93.82	-1,076.47	-8,583.49	5,177.63	4,893.74	283.89	18.238		
11,300.00	6,982.92	7,015.92	7,015.92	143.48	243.20	-93.74	-1,076.47	-8,583.49	5,079.34	4,794.75	284.59	17.848		
11,400.00	6,981.69	7,014.69	7,014.69	146.70	243.16	-93.67	-1,076.47	-8,583.49	4,981.11	4,695.77	285.34	17.457		
11,500.00	6,980.46	7,013.46	7,013.46	149.92	243.12	-93.59	-1,076.47	-8,583.49	4,882.96	4,596.82	286.14	17.065		
11,600.00	6,979.22	7,012.22	7,012.22	153.15	243.07	-93.52	-1,076.47	-8,583.49	4,784.88	4,497.90	286.98	16.673		
11,700.00	6,977.99	7,010.99	7,010.99	156.38	243.03	-93.44	-1,076.47	-8,583.49	4,686.89	4,399.00	287.88	16.281		
11,800.00	6,976.75	7,009.75	7,009.75	159.62	242.99	-93.37	-1,076.47	-8,583.49	4,588.98	4,300.14	288.84	15.888		
11,900.00	6,975.52	7,008.52	7,008.52	162.86	242.94	-93.29	-1,076.47	-8,583.49	4,491.16	4,201.30	289.85	15.495		
12,000.00	6,974.29	7,007.29	7,007.29	166.10	242.90	-93.22	-1,076.47	-8,583.49	4,393.44	4,102.50	290.93	15.101		
12,100.00	6,973.05	7,006.05	7,006.05	169.34	242.86	-93.14	-1,076.47	-8,583.49	4,295.82	4,003.74	292.08	14.708		
12,200.00	6,971.82	7,004.82	7,004.82	172.59	242.82	-93.07	-1,076.47	-8,583.49	4,198.31	3,905.02	293.30	14.314		
12,300.00	6,970.59	7,003.59	7,003.59	175.84	242.77	-92.99	-1,076.47	-8,583.49	4,100.93	3,806.34	294.59	13.921		
12,400.00	6,969.35	7,002.35	7,002.35	179.09	242.73	-92.92	-1,076.47	-8,583.49	4,003.67	3,707.70	295.97	13.527		
12,500.00	6,968.12	7,001.12	7,001.12	182.35	242.69	-92.84	-1,076.47	-8,583.49	3,906.56	3,609.12	297.44	13.134		
12,600.00	6,966.89	7,000.11	6,999.89	185.60	242.65	-92.77	-1,076.47	-8,583.49	3,809.59	3,510.58	299.01	12.741		
12,700.00	6,965.65	7,001.35	6,998.65	188.86	242.69	-92.69	-1,076.47	-8,583.49	3,712.78	3,412.02	300.76	12.345		
12,800.00	6,964.42	7,002.58	6,997.42	192.12	242.74	-92.62	-1,076.47	-8,583.49	3,616.14	3,313.53	302.61	11.950		
12,900.00	6,963.18	7,003.82	6,996.18	195.38	242.78	-92.54	-1,076.47	-8,583.49	3,519.69	3,215.10	304.59	11.556		
13,000.00	6,961.95	7,005.05	6,994.95	198.65	242.82	-92.47	-1,076.47	-8,583.49	3,423.45	3,116.76	306.69	11.163		
13,100.00	6,960.72	7,006.28	6,993.72	201.91	242.87	-92.39	-1,076.47	-8,583.49	3,327.42	3,018.50	308.93	10.771		
13,200.00	6,959.48	7,007.52	6,992.48	205.18	242.91	-92.32	-1,076.47	-8,583.49	3,231.64	2,920.33	311.31	10.381		
13,300.00	6,958.25	7,008.75	6,991.25	208.45	242.95	-92.24	-1,076.47	-8,583.49	3,136.12	2,822.27	313.85	9.992		
13,400.00	6,957.02	7,009.98	6,990.02	211.72	243.00	-92.17	-1,076.47	-8,583.49	3,040.89	2,724.32	316.57	9.606		
13,500.00	6,955.78	6,988.78	6,988.78	214.99	242.26	-92.10	-1,076.47	-8,583.49	2,945.97	2,627.28	318.69	9.244		
13,600.00	6,954.55	6,987.55	6,987.55	218.27	242.21	-92.02	-1,076.47	-8,583.49	2,851.40	2,529.69	321.71	8.863		
13,700.00	6,953.32	6,986.32	6,986.32	221.54	242.17	-91.95	-1,076.47	-8,583.49	2,757.21	2,432.26	324.95	8.485		
13,800.00	6,952.08	6,985.08	6,985.08	224.82	242.13	-91.87	-1,076.47	-8,583.49	2,663.45	2,335.01	328.44	8.109		
13,900.00	6,950.85	6,983.85	6,983.85	228.10	242.08	-91.80	-1,076.47	-8,583.49	2,570.15	2,237.96	332.19	7.737		
14,000.00	6,949.61	6,982.61	6,982.61	231.37	242.04	-91.72	-1,076.47	-8,583.49	2,477.38	2,141.15	336.23	7.368		
14,100.00	6,948.38	6,981.38	6,981.38	234.65	242.00	-91.65	-1,076.47	-8,583.49	2,385.19	2,044.59	340.60	7.003		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Boomerang 21-5 - ROTHE #1-14 - OH - OH												Offset Well Error:	3.28 ft
Survey Program: 100-2" Cone@2.448 Sigma													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
14,200.00	6,947.15	6,980.15	6,980.15	237.93	241.95	-91.57	-1,076.47	-8,583.49	2,293.65	1,948.34	345.31	6.642	
14,300.00	6,945.91	6,978.91	6,978.91	241.22	241.91	-91.50	-1,076.47	-8,583.49	2,202.85	1,852.44	350.41	6.286	
14,400.00	6,944.68	6,977.68	6,977.68	244.50	241.87	-91.42	-1,076.47	-8,583.49	2,112.89	1,756.95	355.94	5.936	
14,500.00	6,943.45	6,976.45	6,976.45	247.78	241.82	-91.34	-1,076.47	-8,583.49	2,023.86	1,661.93	361.93	5.592	
14,600.00	6,942.21	6,975.21	6,975.21	251.07	241.78	-91.27	-1,076.47	-8,583.49	1,935.90	1,567.46	368.44	5.254	
14,700.00	6,940.98	6,973.98	6,973.98	254.35	241.74	-91.19	-1,076.47	-8,583.49	1,849.16	1,473.65	375.51	4.924	
14,800.00	6,939.74	6,972.74	6,972.74	257.64	241.70	-91.12	-1,076.47	-8,583.49	1,763.83	1,380.63	383.20	4.603	
14,900.00	6,938.51	6,971.51	6,971.51	260.92	241.65	-91.04	-1,076.47	-8,583.49	1,680.12	1,288.55	391.57	4.291	
15,000.00	6,937.28	6,970.28	6,970.28	264.21	241.61	-90.97	-1,076.47	-8,583.49	1,598.28	1,197.62	400.66	3.989	
15,100.00	6,936.04	6,969.04	6,969.04	267.50	241.57	-90.89	-1,076.47	-8,583.49	1,518.62	1,108.08	410.54	3.699	
15,200.00	6,934.81	6,967.81	6,967.81	270.79	241.52	-90.82	-1,076.47	-8,583.49	1,441.49	1,020.26	421.23	3.422	
15,300.00	6,933.58	6,966.58	6,966.58	274.08	241.48	-90.74	-1,076.47	-8,583.49	1,367.33	934.58	432.75	3.160	
15,400.00	6,932.34	6,965.34	6,965.34	277.37	241.44	-90.67	-1,076.47	-8,583.49	1,296.64	851.54	445.09	2.913	
15,500.00	6,931.11	6,964.11	6,964.11	280.66	241.39	-90.59	-1,076.47	-8,583.49	1,230.02	771.84	458.18	2.685	
15,589.88	6,930.00	6,963.00	6,963.00	283.62	241.36	-90.53	-1,076.47	-8,583.49	1,174.19	703.73	470.47	2.496 CC, ES, SF	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-103.56	-1,314.15	-5,449.19	5,605.42					
100.00	100.00	63.87	63.87	3.28	3.28	-103.56	-1,314.01	-5,449.46	5,605.79	5,599.22	6.57	853.513		
200.00	200.00	155.39	155.38	3.34	3.31	-103.55	-1,313.47	-5,450.50	5,606.74	5,600.09	6.65	843.233		
300.00	299.98	264.40	264.38	3.44	3.41	-176.69	-1,312.96	-5,451.42	5,609.19	5,602.34	6.85	818.669		
400.00	399.84	382.32	382.30	3.60	3.58	-176.68	-1,312.44	-5,452.28	5,615.03	5,607.85	7.18	782.034		
500.00	499.45	491.75	491.73	3.81	3.79	-176.67	-1,311.88	-5,452.73	5,624.00	5,616.40	7.60	740.307		
600.00	598.70	609.27	609.25	4.08	4.06	-176.65	-1,311.08	-5,452.98	5,636.22	5,628.10	8.12	694.307		
700.00	697.47	713.36	713.33	4.40	4.34	-176.63	-1,310.04	-5,453.04	5,651.66	5,642.98	8.68	651.351		
774.77	770.92	778.49	778.46	4.68	4.53	-176.62	-1,309.37	-5,453.11	5,665.48	5,656.38	9.10	622.860		
800.00	795.65	800.43	800.40	4.78	4.60	-176.62	-1,309.16	-5,453.15	5,670.49	5,661.24	9.24	613.452		
900.00	893.64	892.52	892.48	5.20	4.88	-176.62	-1,308.17	-5,453.43	5,690.42	5,680.57	9.85	577.593		
1,000.00	991.63	1,000.52	1,000.45	5.66	5.24	-176.60	-1,305.69	-5,454.04	5,710.33	5,699.78	10.55	541.152		
1,100.00	1,089.63	1,054.12	1,053.99	6.15	5.42	-176.58	-1,303.25	-5,454.80	5,730.53	5,719.42	11.10	516.085		
1,200.00	1,187.62	1,111.35	1,111.07	6.65	5.64	-176.55	-1,299.50	-5,456.34	5,751.47	5,739.78	11.69	492.030		
1,300.00	1,285.62	1,189.83	1,189.16	7.17	5.96	-176.48	-1,292.34	-5,459.31	5,772.90	5,760.50	12.40	465.641		
1,400.00	1,383.61	1,285.98	1,284.43	7.71	6.42	-176.36	-1,280.19	-5,463.94	5,794.53	5,781.29	13.25	437.398		
1,500.00	1,481.60	1,430.24	1,426.31	8.25	7.22	-176.12	-1,255.43	-5,471.79	5,815.80	5,801.34	14.46	402.298		
1,600.00	1,579.60	1,619.96	1,610.73	8.80	8.45	-175.70	-1,212.37	-5,482.42	5,836.23	5,820.12	16.11	362.185		
1,700.00	1,677.59	1,819.24	1,801.02	9.36	10.02	-175.14	-1,154.23	-5,492.53	5,854.69	5,836.58	18.11	323.216		
1,800.00	1,775.59	1,869.37	1,848.18	9.92	10.46	-174.98	-1,137.47	-5,495.32	5,872.97	5,854.00	18.97	309.534		
1,900.00	1,873.58	1,921.60	1,897.11	10.49	10.94	-174.81	-1,119.53	-5,498.72	5,892.10	5,872.24	19.87	296.595		
2,000.00	1,971.57	1,977.48	1,949.24	11.06	11.46	-174.62	-1,099.81	-5,502.82	5,912.01	5,891.20	20.81	284.094		
2,100.00	2,069.57	2,058.56	2,024.45	11.64	12.25	-174.34	-1,070.24	-5,509.38	5,932.55	5,910.52	22.03	269.350		
2,200.00	2,167.56	2,139.77	2,099.37	12.22	13.05	-174.04	-1,039.64	-5,516.14	5,953.33	5,930.07	23.26	255.961		
2,300.00	2,265.56	2,212.27	2,166.27	12.80	13.77	-173.78	-1,012.44	-5,522.41	5,974.61	5,950.21	24.40	244.823		
2,400.00	2,363.55	2,309.09	2,255.86	13.38	14.70	-173.44	-976.67	-5,530.75	5,996.18	5,970.41	25.77	232.674		
2,500.00	2,461.54	2,376.88	2,318.66	13.97	15.34	-173.21	-951.83	-5,536.68	6,018.10	5,991.27	26.83	224.279		
2,600.00	2,559.54	2,464.02	2,399.39	14.55	16.15	-172.91	-919.96	-5,544.50	6,040.46	6,012.38	28.08	215.121		
2,700.00	2,657.53	2,700.00	2,511.35	15.14	18.33	-172.49	-875.66	-5,554.92	6,062.65	6,031.94	30.71	197.414		
2,800.00	2,755.53	2,685.14	2,603.91	15.73	18.21	-172.14	-838.06	-5,563.30	6,084.68	6,053.65	31.03	196.090		
2,900.00	2,853.52	2,743.48	2,657.67	16.32	18.76	-171.94	-815.99	-5,568.40	6,107.25	6,075.25	32.01	190.818		
3,000.00	2,951.52	2,800.00	2,709.85	16.91	19.30	-171.75	-794.90	-5,573.65	6,130.56	6,097.60	32.96	185.990		
3,100.00	3,049.51	2,972.52	2,869.26	17.51	20.89	-171.16	-730.74	-5,588.91	6,153.68	6,118.65	35.03	175.666		
3,200.00	3,147.50	3,077.11	2,966.23	18.10	21.81	-170.82	-692.44	-5,597.21	6,176.24	6,139.84	36.40	169.689		
3,300.00	3,245.50	3,137.54	3,022.56	18.70	22.32	-170.63	-671.08	-5,601.98	6,199.11	6,161.78	37.34	166.034		
3,400.00	3,343.49	3,200.00	3,080.85	19.29	22.85	-170.43	-649.30	-5,607.36	6,222.78	6,184.50	38.28	162.539		
3,500.00	3,441.49	3,299.17	3,173.18	19.89	23.70	-170.12	-614.21	-5,616.14	6,246.85	6,207.27	39.58	157.833		
3,600.00	3,539.48	3,474.09	3,335.51	20.48	25.20	-169.57	-550.42	-5,629.49	6,269.50	6,227.93	41.57	150.817		
3,700.00	3,637.47	3,500.00	3,359.57	21.08	25.42	-169.49	-541.01	-5,631.41	6,292.80	6,250.60	42.20	149.134		
3,800.00	3,735.47	3,552.66	3,408.47	21.68	25.89	-169.32	-521.94	-5,635.75	6,316.90	6,273.83	43.07	146.663		
3,900.00	3,833.46	3,600.00	3,452.38	22.27	26.30	-169.17	-504.86	-5,640.35	6,342.18	6,298.28	43.89	144.494		
4,000.00	3,931.46	3,790.76	3,628.73	22.87	28.03	-168.57	-434.29	-5,657.88	6,367.43	6,321.31	46.12	138.058		
4,100.00	4,029.45	3,897.64	3,727.05	23.47	29.01	-168.22	-393.30	-5,666.61	6,391.63	6,344.08	47.55	134.410		
4,200.00	4,127.44	4,015.95	3,835.68	24.07	30.11	-167.83	-347.38	-5,675.94	6,415.74	6,366.63	49.11	130.652		
4,300.00	4,225.44	4,063.84	3,879.64	24.67	30.56	-167.67	-328.76	-5,679.84	6,440.20	6,390.24	49.96	128.899		
4,400.00	4,323.43	4,133.81	3,943.86	25.27	31.20	-167.45	-301.66	-5,685.85	6,465.29	6,414.26	51.03	126.694		
4,507.81	4,429.08	4,230.27	4,032.91	25.92	32.08	-167.15	-265.51	-5,694.10	6,492.60	6,440.23	52.37	123.969		
4,600.00	4,519.70	4,305.27	4,102.25	26.45	32.74	-167.02	-237.68	-5,700.61	6,514.82	6,461.39	53.43	121.939		
4,700.00	4,618.56	4,433.09	4,220.44	26.98	33.87	-166.72	-190.20	-5,711.28	6,535.56	6,480.56	55.00	118.825		
4,800.00	4,717.88	4,510.62	4,292.13	27.46	34.55	-166.56	-161.40	-5,717.69	6,553.11	6,497.03	56.08	116.851		
4,900.00	4,817.54	4,573.92	4,350.61	27.89	35.12	-166.43	-137.78	-5,723.15	6,567.82	6,510.80	57.02	115.188		
5,000.00	4,917.43	4,669.13	4,438.57	28.28	35.96	-166.18	-102.33	-5,731.65	6,579.64	6,521.39	58.25	112.959		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,740.15	4,504.44	28.57	36.58	-92.84	-76.53	-5,737.86	6,586.91	6,527.74	59.16	111.337		
5,100.00	5,017.42	4,752.54	4,515.95	28.62	36.69	-92.80	-72.06	-5,738.96	6,588.24	6,528.91	59.33	111.051		
5,200.00	5,117.42	4,832.56	4,590.28	28.95	37.38	-92.55	-43.34	-5,746.22	6,596.14	6,535.78	60.36	109.279		
5,300.00	5,217.42	4,957.07	4,705.38	29.28	38.48	-92.14	2.80	-5,757.41	6,604.20	6,542.36	61.84	106.788		
5,400.00	5,317.42	5,046.18	4,787.57	29.62	39.29	-91.85	36.41	-5,764.98	6,611.99	6,549.00	62.99	104.963		
5,500.00	5,417.42	5,110.99	4,847.39	29.96	39.87	-91.64	60.64	-5,770.77	6,620.39	6,556.49	63.90	103.604		
5,600.00	5,517.42	5,219.33	4,947.65	30.29	40.82	-91.29	100.54	-5,780.52	6,629.07	6,563.85	65.22	101.639		
5,700.00	5,617.42	5,321.29	5,042.14	30.64	41.71	-90.96	137.78	-5,789.42	6,637.68	6,571.21	66.47	99.863		
5,800.00	5,717.42	5,387.61	5,103.49	30.98	42.29	-90.75	162.26	-5,795.34	6,646.69	6,579.32	67.38	98.648		
5,900.00	5,817.42	5,456.95	5,222.77	31.33	43.46	-90.33	210.96	-5,806.74	6,655.83	6,586.91	68.92	96.576		
6,000.00	5,917.42	5,590.87	5,291.17	31.68	44.10	-90.09	238.24	-5,813.18	6,665.06	6,595.16	69.90	95.354		
6,100.00	6,017.42	5,770.96	5,458.17	32.03	45.62	-89.53	304.10	-5,827.37	6,673.41	6,601.57	71.84	92.891		
6,200.00	6,117.42	6,130.43	5,799.92	32.38	47.93	-88.59	412.69	-5,848.82	6,680.57	6,605.85	74.72	89.408		
6,300.00	6,217.42	6,200.00	5,867.43	32.74	48.26	-88.45	429.17	-5,851.96	6,685.77	6,610.36	75.41	88.656		
6,400.00	6,317.42	6,325.21	5,989.97	33.09	48.78	-88.24	454.10	-5,857.78	6,691.15	6,614.81	76.33	87.655		
6,476.01	6,393.43	6,425.73	6,088.97	33.37	49.14	-88.10	471.01	-5,861.92	6,694.72	6,617.71	77.01	86.929		
6,500.00	6,417.42	6,448.18	6,111.14	33.45	49.22	4.26	474.43	-5,862.84	6,695.38	6,618.20	77.18	86.752		
6,550.00	6,467.25	6,495.11	6,157.57	33.59	49.38	4.33	480.97	-5,864.78	6,693.87	6,616.36	77.51	86.362		
6,600.00	6,516.64	6,840.11	6,501.05	33.71	50.33	4.67	510.68	-5,873.30	6,688.44	6,609.65	78.79	84.891		
6,650.00	6,565.26	6,890.51	6,551.41	33.80	50.45	4.78	512.94	-5,873.35	6,677.02	6,597.96	79.07	84.448		
6,700.00	6,612.83	6,933.07	6,593.94	33.88	50.55	4.92	514.36	-5,873.42	6,661.84	6,582.53	79.31	84.000		
6,750.00	6,659.04	6,972.91	6,633.77	33.94	50.65	5.11	515.36	-5,873.54	6,643.03	6,563.50	79.53	83.532		
6,800.00	6,703.62	7,013.84	6,674.69	33.99	50.75	5.33	516.07	-5,873.70	6,620.70	6,540.96	79.73	83.034		
6,850.00	6,746.28	7,058.54	6,719.39	34.03	50.86	5.62	516.72	-5,873.89	6,594.94	6,515.00	79.94	82.500		
6,900.00	6,786.76	7,100.98	6,761.82	34.08	50.96	5.98	517.28	-5,874.06	6,565.90	6,485.78	80.12	81.949		
6,950.00	6,824.83	7,137.02	6,797.86	34.13	51.05	6.42	517.74	-5,874.21	6,533.79	6,453.51	80.27	81.393		
7,000.00	6,860.23	7,170.66	6,831.50	34.20	51.13	6.97	518.18	-5,874.36	6,498.79	6,418.38	80.41	80.823		
7,050.00	6,892.75	7,201.72	6,862.55	34.30	51.20	7.68	518.61	-5,874.50	6,461.13	6,380.61	80.52	80.240		
7,100.00	6,922.20	7,231.84	6,892.67	34.43	51.28	8.59	519.04	-5,874.64	6,421.04	6,340.41	80.62	79.641		
7,150.00	6,948.38	7,258.64	6,919.47	34.60	51.34	9.80	519.44	-5,874.76	6,378.75	6,298.04	80.71	79.035		
7,200.00	6,971.15	7,281.96	6,942.79	34.82	51.40	11.46	519.80	-5,874.86	6,334.53	6,253.75	80.77	78.423		
7,250.00	6,990.35	7,301.66	6,962.48	35.09	51.45	13.83	520.11	-5,874.95	6,288.64	6,207.82	80.82	77.806		
7,300.00	7,005.87	7,311.94	6,972.76	35.43	51.48	17.42	520.28	-5,875.00	6,241.39	6,160.55	80.84	77.202		
7,350.00	7,017.62	7,320.20	6,981.02	35.81	51.50	23.46	520.40	-5,875.04	6,193.07	6,112.21	80.86	76.593		
7,400.00	7,025.52	7,325.85	6,986.67	36.26	51.51	35.19	520.49	-5,875.08	6,143.96	6,063.09	80.86	75.981		
7,450.00	7,029.52	7,328.82	6,989.64	36.75	51.52	61.79	520.53	-5,875.10	6,094.36	6,013.49	80.86	75.368		
7,483.86	7,030.00	7,329.30	6,990.11	37.12	51.52	93.22	520.54	-5,875.10	6,060.64	5,979.78	80.86	74.953		
7,500.00	7,029.80	7,329.23	6,990.04	37.30	51.52	93.21	520.54	-5,875.10	6,044.57	5,963.71	80.86	74.756		
7,600.00	7,028.57	7,328.78	6,989.59	38.58	51.52	93.16	520.53	-5,875.10	5,944.98	5,864.13	80.85	73.531		
7,700.00	7,027.34	7,328.32	6,989.14	40.10	51.52	93.11	520.52	-5,875.09	5,845.41	5,764.56	80.85	72.302		
7,800.00	7,026.10	7,327.86	6,988.68	41.83	51.51	93.07	520.52	-5,875.09	5,745.85	5,665.00	80.85	71.069		
7,900.00	7,024.87	7,327.39	6,988.21	43.74	51.51	93.02	520.51	-5,875.09	5,646.31	5,565.46	80.86	69.832		
8,000.00	7,023.63	7,326.92	6,987.74	45.82	51.51	92.97	520.50	-5,875.09	5,546.79	5,465.92	80.87	68.591		
8,100.00	7,022.40	7,326.45	6,987.27	48.04	51.51	92.92	520.50	-5,875.08	5,447.28	5,366.39	80.89	67.345		
8,200.00	7,021.17	7,325.97	6,986.79	50.38	51.51	92.87	520.49	-5,875.08	5,347.79	5,266.88	80.91	66.095		
8,300.00	7,019.93	7,325.48	6,986.30	52.82	51.51	92.82	520.48	-5,875.08	5,248.32	5,167.38	80.94	64.840		
8,400.00	7,018.70	7,324.99	6,985.81	55.35	51.51	92.77	520.48	-5,875.07	5,148.87	5,067.89	80.98	63.580		
8,500.00	7,017.47	7,324.50	6,985.31	57.97	51.51	92.71	520.47	-5,875.07	5,049.44	4,968.41	81.03	62.315		
8,600.00	7,016.23	7,323.99	6,984.81	60.65	51.51	92.66	520.46	-5,875.07	4,950.04	4,868.95	81.09	61.046		
8,700.00	7,015.00	7,323.49	6,984.30	63.39	51.50	92.61	520.45	-5,875.06	4,850.66	4,769.50	81.15	59.771		
8,800.00	7,013.76	7,322.97	6,983.79	66.19	51.50	92.55	520.44	-5,875.06	4,751.30	4,670.07	81.23	58.490		
8,900.00	7,012.53	7,322.45	6,983.27	69.03	51.50	92.50	520.44	-5,875.06	4,651.97	4,570.65	81.32	57.204		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,321.93	6,982.75	71.91	51.50	92.44	520.43	-5,875.05	4,552.68	4,471.25	81.43	55.912		
9,100.00	7,010.06	7,321.40	6,982.21	74.83	51.50	92.39	520.42	-5,875.05	4,453.41	4,371.87	81.54	54.614		
9,200.00	7,008.83	7,320.86	6,981.68	77.78	51.50	92.33	520.41	-5,875.05	4,354.18	4,272.50	81.68	53.310		
9,300.00	7,007.60	7,320.32	6,981.13	80.76	51.50	92.27	520.40	-5,875.05	4,254.98	4,173.15	81.83	51.999		
9,400.00	7,006.36	7,319.77	6,980.58	83.76	51.49	92.22	520.40	-5,875.04	4,155.82	4,073.82	82.00	50.682		
9,500.00	7,005.13	7,319.21	6,980.03	86.79	51.49	92.16	520.39	-5,875.04	4,056.70	3,974.51	82.19	49.359		
9,600.00	7,003.90	7,318.65	6,979.46	89.84	51.49	92.10	520.38	-5,875.04	3,957.63	3,875.23	82.40	48.028		
9,700.00	7,002.66	7,318.08	6,978.89	92.90	51.49	92.04	520.37	-5,875.03	3,858.60	3,775.96	82.64	46.690		
9,800.00	7,001.43	7,317.50	6,978.32	95.99	51.49	91.98	520.36	-5,875.03	3,759.63	3,676.72	82.91	45.345		
9,900.00	7,000.19	7,316.92	6,977.73	99.08	51.49	91.92	520.35	-5,875.03	3,660.71	3,577.50	83.21	43.993		
10,000.00	6,998.96	7,316.33	6,977.14	102.19	51.49	91.85	520.34	-5,875.02	3,561.85	3,478.31	83.55	42.633		
10,100.00	6,997.73	7,315.73	6,976.55	105.32	51.48	91.79	520.33	-5,875.02	3,463.06	3,379.14	83.92	41.266		
10,200.00	6,996.49	7,315.12	6,975.94	108.45	51.48	91.73	520.32	-5,875.02	3,364.34	3,280.00	84.34	39.892		
10,300.00	6,995.26	7,314.51	6,975.33	111.60	51.48	91.66	520.32	-5,875.01	3,265.69	3,180.89	84.80	38.510		
10,400.00	6,994.03	7,313.89	6,974.71	114.75	51.48	91.60	520.31	-5,875.01	3,167.14	3,081.82	85.32	37.121		
10,500.00	6,992.79	7,313.26	6,974.08	117.92	51.48	91.53	520.30	-5,875.01	3,068.67	2,982.77	85.90	35.725		
10,600.00	6,991.56	7,312.63	6,973.45	121.09	51.48	91.47	520.29	-5,875.00	2,970.31	2,883.77	86.54	34.323		
10,700.00	6,990.33	7,311.98	6,972.80	124.27	51.48	91.40	520.28	-5,875.00	2,872.06	2,784.80	87.26	32.915		
10,800.00	6,989.09	7,311.33	6,972.15	127.46	51.47	91.33	520.27	-5,875.00	2,773.93	2,685.87	88.06	31.501		
10,900.00	6,987.86	7,310.67	6,971.49	130.65	51.47	91.26	520.26	-5,874.99	2,675.94	2,586.99	88.95	30.083		
11,000.00	6,986.62	7,310.00	6,970.82	133.85	51.47	91.19	520.25	-5,874.99	2,578.11	2,488.16	89.95	28.662		
11,100.00	6,985.39	7,309.33	6,970.14	137.06	51.47	91.12	520.23	-5,874.99	2,480.45	2,389.39	91.06	27.239		
11,200.00	6,984.16	7,308.64	6,969.46	140.27	51.47	91.05	520.22	-5,874.98	2,382.98	2,290.67	92.31	25.814		
11,300.00	6,982.92	7,307.95	6,968.77	143.48	51.47	91.00	520.23	-5,874.98	2,285.73	2,192.02	93.72	24.390		
11,400.00	6,981.69	7,307.26	6,968.07	146.70	51.47	91.01	520.22	-5,874.98	2,188.73	2,093.45	95.28	22.971		
11,500.00	6,980.46	7,306.57	6,967.38	149.92	51.46	90.91	520.21	-5,874.97	2,092.02	1,994.97	97.04	21.558		
11,600.00	6,979.22	7,305.88	6,966.69	153.15	51.46	90.82	520.19	-5,874.97	1,995.62	1,896.60	99.02	20.153		
11,700.00	6,977.99	7,305.19	6,966.00	156.38	51.46	90.73	520.18	-5,874.97	1,899.60	1,798.35	101.25	18.761		
11,800.00	6,976.75	7,304.50	6,965.31	159.62	51.46	90.64	520.16	-5,874.96	1,804.01	1,700.24	103.77	17.384		
11,900.00	6,975.52	7,303.81	6,964.62	162.86	51.46	90.55	520.15	-5,874.96	1,708.92	1,602.30	106.63	16.027		
12,000.00	6,974.29	7,303.12	6,963.93	166.10	51.45	90.46	520.14	-5,874.95	1,614.43	1,504.57	109.86	14.695		
12,100.00	6,973.05	7,302.43	6,963.24	169.34	51.45	90.37	520.12	-5,874.95	1,520.64	1,407.10	113.55	13.392		
12,200.00	6,971.82	7,301.74	6,962.55	172.59	51.45	90.28	520.11	-5,874.95	1,427.70	1,309.95	117.75	12.124		
12,300.00	6,970.59	7,301.05	6,961.86	175.84	51.45	90.19	520.09	-5,874.94	1,335.77	1,213.21	122.57	10.898		
12,400.00	6,969.35	7,299.99	6,961.17	179.09	51.44	90.10	520.08	-5,874.94	1,245.09	1,117.00	128.10	9.720		
12,500.00	6,968.12	7,298.76	6,959.94	182.35	51.44	90.01	520.07	-5,874.94	1,155.95	1,021.49	134.46	8.597		
12,600.00	6,966.89	7,297.51	6,958.71	185.60	51.44	89.92	520.05	-5,874.93	1,068.73	926.92	141.81	7.536		
12,700.00	6,965.65	7,296.26	6,957.48	188.86	51.44	89.82	520.04	-5,874.93	983.94	833.65	150.29	6.547		
12,800.00	6,964.42	7,295.01	6,956.25	192.12	51.44	89.73	520.03	-5,874.92	902.27	742.19	160.08	5.636		
12,900.00	6,963.18	7,293.76	6,955.02	195.38	51.43	89.64	520.01	-5,874.92	824.65	653.36	171.30	4.814		
13,000.00	6,961.95	7,292.51	6,953.79	198.65	51.43	89.55	520.00	-5,874.92	752.33	568.34	183.99	4.089		
13,100.00	6,960.72	7,291.26	6,952.56	201.91	51.43	89.46	519.99	-5,874.91	686.99	488.99	198.00	3.470		
13,200.00	6,959.48	7,290.01	6,951.33	205.18	51.43	89.37	519.97	-5,874.91	630.80	418.00	212.80	2.964		
13,300.00	6,958.25	7,288.76	6,950.10	208.45	51.43	89.28	519.96	-5,874.91	586.40	359.07	227.33	2.580		
13,400.00	6,957.02	7,287.51	6,948.87	211.72	51.42	89.19	519.95	-5,874.90	556.61	316.69	239.92	2.320		
13,500.00	6,955.78	7,286.26	6,947.64	214.99	51.42	89.10	519.93	-5,874.90	534.84	295.22	248.62	2.187		
13,520.27	6,955.53	7,290.04	6,950.87	215.66	51.42	89.09	519.93	-5,874.90	543.46	293.71	249.75	2.176 CC, ES, SF		
13,600.00	6,954.55	7,289.37	6,950.19	218.27	51.42	89.01	519.92	-5,874.90	549.28	297.43	251.85	2.181		
13,700.00	6,953.32	7,288.52	6,949.34	221.54	51.42	88.93	519.90	-5,874.89	572.41	323.11	249.30	2.296		
13,800.00	6,952.08	7,287.67	6,948.49	224.82	51.42	88.84	519.89	-5,874.89	611.22	369.12	242.10	2.525		
13,900.00	6,950.85	7,286.82	6,947.64	228.10	51.41	88.75	519.88	-5,874.88	662.97	430.85	232.13	2.856		
14,000.00	6,949.61	7,285.97	6,946.79	231.37	51.41	88.66	519.86	-5,874.88	724.90	503.82	221.08	3.279		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,100.00	6,948.38	7,285.12	6,945.94	234.65	51.41	88.57	519.85	-5,874.88	794.61	584.52	210.10	3.782	
14,200.00	6,947.15	7,284.28	6,945.10	237.93	51.41	88.48	519.84	-5,874.87	870.26	670.46	199.80	4.356	
14,300.00	6,945.91	7,283.43	6,944.25	241.22	51.41	88.39	519.82	-5,874.87	950.41	759.97	190.44	4.991	
14,400.00	6,944.68	7,282.59	6,943.41	244.50	51.40	88.30	519.81	-5,874.87	1,034.03	851.95	182.08	5.679	
14,500.00	6,943.45	7,281.74	6,942.56	247.78	51.40	88.21	519.80	-5,874.86	1,120.34	945.67	174.66	6.414	
14,600.00	6,942.21	7,280.90	6,941.72	251.07	51.40	88.12	519.79	-5,874.86	1,208.75	1,040.65	168.11	7.190	
14,700.00	6,940.98	7,280.05	6,940.88	254.35	51.40	88.03	519.77	-5,874.85	1,298.85	1,136.54	162.31	8.002	
14,800.00	6,939.74	7,279.21	6,940.04	257.64	51.39	87.94	519.76	-5,874.85	1,390.30	1,233.12	157.18	8.845	
14,900.00	6,938.51	7,278.37	6,939.19	260.92	51.39	87.86	519.75	-5,874.85	1,482.86	1,330.23	152.62	9.716	
15,000.00	6,937.28	7,277.53	6,938.35	264.21	51.39	87.77	519.73	-5,874.84	1,576.32	1,427.76	148.56	10.610	
15,100.00	6,936.04	7,276.69	6,937.51	267.50	51.39	87.68	519.72	-5,874.84	1,670.54	1,525.61	144.93	11.526	
15,200.00	6,934.81	7,275.85	6,936.67	270.79	51.39	87.59	519.71	-5,874.84	1,765.40	1,623.72	141.68	12.461	
15,300.00	6,933.58	7,275.01	6,935.84	274.08	51.38	87.50	519.69	-5,874.83	1,860.80	1,722.05	138.75	13.412	
15,400.00	6,932.34	7,274.17	6,935.00	277.37	51.38	87.41	519.68	-5,874.83	1,956.65	1,820.55	136.10	14.377	
15,500.00	6,931.11	7,273.34	6,934.16	280.66	51.38	87.33	519.67	-5,874.82	2,052.90	1,919.20	133.70	15.355	
15,589.88	6,930.00	7,272.59	6,933.41	283.62	51.38	87.25	519.66	-5,874.82	2,139.71	2,007.98	131.73	16.243	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-103.63	-1,321.44	-5,449.19	5,607.13					
100.00	100.00	53.37	53.36	3.28	3.28	-103.63	-1,321.27	-5,449.48	5,607.60	5,601.03	6.57	853.869		
200.00	200.00	108.89	108.87	3.34	3.29	-103.62	-1,320.72	-5,450.39	5,608.93	5,602.30	6.63	846.054		
300.00	299.98	206.80	206.76	3.44	3.36	-176.75	-1,319.27	-5,452.47	5,612.39	5,605.59	6.80	825.410		
400.00	399.84	310.83	310.75	3.60	3.48	-176.72	-1,317.82	-5,454.66	5,619.33	5,612.25	7.08	793.689		
500.00	499.45	441.48	441.37	3.81	3.71	-176.69	-1,316.07	-5,456.88	5,629.35	5,621.84	7.51	749.843		
600.00	598.70	542.90	542.76	4.08	3.93	-176.66	-1,314.30	-5,458.38	5,642.54	5,634.56	7.97	707.569		
700.00	697.47	634.21	634.04	4.40	4.16	-176.63	-1,312.26	-5,459.94	5,659.28	5,650.79	8.49	666.971		
774.77	770.92	707.10	706.90	4.68	4.35	-176.60	-1,310.71	-5,461.23	5,674.09	5,665.17	8.92	636.377		
800.00	795.65	743.55	743.33	4.78	4.46	-176.60	-1,309.92	-5,461.83	5,679.38	5,670.27	9.10	623.894		
900.00	893.64	837.10	836.84	5.20	4.74	-176.58	-1,307.52	-5,463.22	5,700.11	5,690.40	9.71	587.055		
1,000.00	991.63	900.00	899.70	5.66	4.94	-176.56	-1,305.49	-5,464.61	5,721.37	5,711.11	10.25	557.978		
1,100.00	1,089.63	1,009.82	1,009.42	6.15	5.31	-176.53	-1,301.77	-5,467.31	5,742.83	5,731.85	10.98	522.877		
1,200.00	1,187.62	1,097.93	1,097.45	6.65	5.62	-176.51	-1,298.91	-5,469.42	5,764.26	5,752.60	11.66	494.271		
1,300.00	1,285.62	1,215.53	1,214.97	7.17	6.04	-176.48	-1,295.20	-5,472.08	5,785.59	5,773.12	12.47	463.973		
1,400.00	1,383.61	1,277.48	1,276.87	7.71	6.27	-176.47	-1,293.42	-5,473.58	5,807.11	5,794.02	13.09	443.774		
1,500.00	1,481.60	1,380.95	1,380.28	8.25	6.65	-176.45	-1,290.67	-5,476.31	5,828.92	5,815.04	13.87	420.195		
1,600.00	1,579.60	1,485.89	1,485.15	8.80	7.04	-176.43	-1,287.83	-5,478.85	5,850.49	5,835.82	14.68	398.600		
1,700.00	1,677.59	1,616.19	1,615.37	9.36	7.54	-176.41	-1,284.38	-5,481.58	5,871.79	5,856.20	15.60	376.469		
1,800.00	1,775.59	1,700.00	1,699.14	9.92	7.87	-176.39	-1,282.26	-5,483.09	5,892.84	5,876.50	16.34	360.665		
1,900.00	1,873.58	1,747.33	1,746.45	10.49	8.05	-176.38	-1,281.07	-5,484.19	5,914.43	5,897.50	16.94	349.205		
2,000.00	1,971.57	1,800.00	1,799.06	11.06	8.26	-176.37	-1,279.68	-5,486.04	5,936.98	5,919.42	17.56	338.117		
2,100.00	2,069.57	1,800.00	1,799.06	11.64	8.26	-176.37	-1,279.68	-5,486.04	5,960.57	5,942.61	17.96	331.910		
2,200.00	2,167.56	1,858.09	1,857.02	12.22	8.50	-176.35	-1,277.56	-5,489.13	5,984.92	5,966.31	18.61	321.587		
2,300.00	2,265.56	1,900.00	1,898.77	12.80	8.68	-176.33	-1,275.34	-5,492.20	6,010.47	5,991.27	19.19	313.184		
2,400.00	2,363.55	2,017.18	2,015.39	13.38	9.19	-176.26	-1,268.50	-5,501.32	6,036.49	6,016.37	20.13	299.919		
2,500.00	2,461.54	2,149.32	2,146.82	13.97	9.77	-176.16	-1,258.70	-5,510.72	6,061.41	6,040.26	21.15	286.609		
2,600.00	2,559.54	2,200.00	2,197.17	14.55	10.00	-176.12	-1,254.37	-5,514.55	6,086.69	6,064.90	21.79	279.351		
2,700.00	2,657.53	2,258.82	2,255.57	15.14	10.27	-176.07	-1,249.27	-5,519.42	6,112.62	6,090.15	22.47	272.036		
2,800.00	2,755.53	2,300.00	2,296.43	15.73	10.46	-176.03	-1,245.77	-5,523.17	6,139.37	6,116.31	23.06	266.206		
2,900.00	2,853.52	2,367.02	2,362.85	16.32	10.78	-175.97	-1,239.75	-5,529.81	6,166.75	6,142.96	23.79	259.220		
3,000.00	2,951.52	2,520.70	2,514.89	16.91	11.53	-175.81	-1,223.87	-5,545.54	6,194.25	6,169.27	24.98	247.954		
3,100.00	3,049.51	2,600.00	2,593.19	17.51	11.92	-175.71	-1,214.17	-5,553.53	6,221.13	6,195.34	25.79	241.177		
3,200.00	3,147.50	2,671.29	2,663.45	18.10	12.29	-175.62	-1,204.78	-5,561.08	6,248.36	6,221.78	26.57	235.122		
3,300.00	3,245.50	2,730.83	2,722.12	18.70	12.60	-175.54	-1,197.04	-5,567.68	6,276.09	6,248.80	27.29	229.997		
3,400.00	3,343.49	2,800.00	2,790.26	19.29	12.96	-175.45	-1,188.36	-5,575.79	6,304.47	6,276.42	28.05	224.731		
3,500.00	3,441.49	2,846.82	2,836.36	19.89	13.21	-175.39	-1,182.59	-5,581.53	6,333.39	6,304.70	28.69	220.751		
3,600.00	3,539.48	2,900.00	2,888.70	20.48	13.49	-175.33	-1,176.01	-5,588.27	6,362.86	6,333.49	29.36	216.706		
3,700.00	3,637.47	2,957.56	2,945.31	21.08	13.80	-175.26	-1,168.87	-5,595.94	6,392.92	6,362.86	30.06	212.673		
3,800.00	3,735.47	3,000.00	2,986.99	21.68	14.03	-175.20	-1,163.62	-5,601.89	6,423.69	6,393.02	30.67	209.469		
3,900.00	3,833.46	3,060.18	3,046.06	22.27	14.37	-175.13	-1,156.26	-5,610.72	6,455.10	6,423.72	31.38	205.712		
4,000.00	3,931.46	3,145.99	3,130.23	22.87	14.85	-175.02	-1,145.88	-5,623.84	6,487.08	6,454.83	32.25	201.146		
4,100.00	4,029.45	3,254.72	3,236.78	23.47	15.48	-174.88	-1,131.71	-5,640.21	6,518.69	6,485.42	33.27	195.920		
4,200.00	4,127.44	3,357.00	3,336.92	24.07	16.07	-174.74	-1,117.92	-5,655.78	6,550.44	6,516.17	34.26	191.175		
4,300.00	4,225.44	3,521.53	3,498.12	24.67	17.02	-174.52	-1,095.25	-5,679.67	6,581.47	6,545.82	35.65	184.620		
4,400.00	4,323.43	3,608.79	3,583.70	25.27	17.52	-174.41	-1,083.42	-5,691.95	6,612.18	6,575.64	36.54	180.951		
4,507.81	4,429.08	3,754.72	3,726.67	25.92	18.35	-174.21	-1,062.20	-5,712.02	6,644.74	6,606.90	37.84	175.586		
4,600.00	4,519.70	3,824.78	3,795.28	26.45	18.75	-174.17	-1,051.73	-5,721.65	6,671.21	6,632.60	38.61	172.792		
4,700.00	4,618.56	3,889.75	3,858.85	26.98	19.13	-174.13	-1,042.00	-5,730.85	6,697.12	6,657.76	39.36	170.149		
4,800.00	4,717.88	4,800.00	3,964.96	27.46	24.40	-174.03	-1,026.45	-5,746.15	6,719.75	6,675.05	44.70	150.316		
4,900.00	4,817.54	4,069.74	4,035.20	27.89	20.17	-173.97	-1,016.46	-5,756.24	6,739.10	6,697.95	41.15	163.772		
5,000.00	4,917.43	4,127.88	4,092.10	28.28	20.51	-173.93	-1,008.14	-5,764.81	6,755.62	6,713.79	41.82	161.529		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,174.22	4,137.47	28.57	20.78	-100.74	-1,001.86	-5,771.84	6,767.15	6,724.79	42.35	159.773		
5,100.00	5,017.42	4,184.02	4,147.07	28.62	20.84	-100.73	-1,000.59	-5,773.35	6,769.39	6,726.92	42.46	159.411		
5,200.00	5,117.42	4,276.50	4,237.71	28.95	21.38	-100.61	-989.14	-5,787.65	6,782.43	6,739.11	43.33	156.536		
5,300.00	5,217.42	4,366.31	4,325.76	29.28	21.90	-100.50	-978.11	-5,801.52	6,795.51	6,751.33	44.18	153.818		
5,400.00	5,317.42	4,457.26	4,413.53	29.62	22.79	-100.29	-957.79	-5,824.69	6,808.36	6,762.92	45.44	149.834		
5,500.00	5,417.42	4,579.62	4,534.60	29.96	23.16	-100.21	-949.47	-5,834.16	6,821.09	6,774.97	46.12	147.903		
5,600.00	5,517.42	4,792.79	4,743.40	30.29	24.41	-99.92	-920.21	-5,865.54	6,833.42	6,785.63	47.79	143.003		
5,700.00	5,617.42	4,904.77	4,853.08	30.64	25.05	-99.76	-903.81	-5,881.03	6,844.70	6,795.91	48.79	140.278		
5,800.00	5,717.42	4,990.20	4,936.89	30.98	25.53	-99.64	-892.01	-5,892.75	6,856.04	6,806.42	49.62	138.167		
5,900.00	5,817.42	5,117.02	5,057.26	31.33	26.83	-99.04	-830.09	-5,957.31	6,866.61	6,812.85	53.76	127.716		
6,000.00	5,917.42	5,858.16	5,798.31	31.68	29.34	-99.01	-826.77	-5,960.93	6,868.81	6,814.09	54.72	125.517		
6,100.00	6,017.42	6,030.23	5,970.35	32.03	29.97	-98.99	-824.71	-5,963.28	6,869.90	6,814.09	55.81	123.097		
6,200.00	6,117.42	6,131.48	6,071.59	32.38	30.33	-98.98	-823.51	-5,964.30	6,870.71	6,814.11	56.60	121.396		
6,300.00	6,217.42	6,252.63	6,192.72	32.74	30.78	-98.97	-821.74	-5,965.19	6,871.19	6,813.72	57.47	119.559		
6,400.00	6,317.42	6,341.00	6,281.08	33.09	31.10	-98.95	-820.39	-5,965.82	6,871.66	6,813.45	58.21	118.048		
6,476.01	6,393.43	6,401.36	6,341.43	33.37	31.32	-98.94	-819.47	-5,966.39	6,872.19	6,813.45	58.75	116.982		
6,500.00	6,417.42	6,424.87	6,364.94	33.45	31.41	-6.61	-819.13	-5,966.64	6,871.94	6,813.01	58.93	116.613		
6,550.00	6,467.25	6,473.74	6,413.80	33.59	31.59	-6.64	-818.49	-5,967.15	6,868.53	6,809.24	59.30	115.829		
6,600.00	6,516.64	6,527.38	6,467.43	33.71	31.79	-6.72	-817.90	-5,967.69	6,861.25	6,801.57	59.68	114.971		
6,650.00	6,565.26	6,586.21	6,526.26	33.80	32.01	-6.86	-817.44	-5,968.18	6,850.08	6,790.01	60.07	114.039		
6,700.00	6,612.83	6,630.59	6,570.64	33.88	32.17	-7.04	-817.16	-5,968.51	6,835.11	6,774.73	60.38	113.194		
6,750.00	6,659.04	6,669.74	6,609.78	33.94	32.32	-7.28	-816.83	-5,968.85	6,816.52	6,755.85	60.67	112.363		
6,800.00	6,703.62	6,710.83	6,650.87	33.99	32.47	-7.58	-816.39	-5,969.26	6,794.42	6,733.48	60.94	111.492		
6,850.00	6,746.28	6,762.67	6,702.71	34.03	32.66	-7.97	-815.77	-5,969.76	6,768.87	6,707.62	61.25	110.515		
6,900.00	6,786.76	6,811.83	6,751.86	34.08	32.85	-8.46	-815.15	-5,970.18	6,740.01	6,678.48	61.53	109.536		
6,950.00	6,824.83	6,840.22	6,780.25	34.13	32.95	-9.06	-814.72	-5,970.45	6,708.09	6,646.38	61.72	108.692		
7,000.00	6,860.23	6,870.12	6,810.14	34.20	33.06	-9.81	-814.20	-5,970.76	6,673.32	6,611.42	61.90	107.816		
7,050.00	6,892.75	6,897.70	6,837.71	34.30	33.17	-10.75	-813.65	-5,971.09	6,635.90	6,573.85	62.05	106.936		
7,100.00	6,922.20	6,925.21	6,865.21	34.43	33.27	-11.98	-813.07	-5,971.44	6,596.07	6,533.86	62.20	106.038		
7,150.00	6,948.38	6,949.98	6,889.98	34.60	33.37	-13.59	-812.54	-5,971.76	6,554.04	6,491.70	62.34	105.140		
7,200.00	6,971.15	6,971.63	6,911.62	34.82	33.45	-15.78	-812.07	-5,972.05	6,510.08	6,447.63	62.45	104.248		
7,250.00	6,990.35	6,990.01	6,929.99	35.09	33.52	-18.87	-811.68	-5,972.29	6,464.46	6,401.91	62.54	103.361		
7,300.00	7,005.87	7,005.00	6,944.98	35.43	33.57	-23.49	-811.35	-5,972.50	6,417.45	6,354.83	62.62	102.483		
7,350.00	7,017.62	7,012.56	6,952.53	35.81	33.60	-30.84	-811.20	-5,972.61	6,369.36	6,306.69	62.67	101.640		
7,400.00	7,025.52	7,018.63	6,958.60	36.26	33.62	-43.75	-811.07	-5,972.70	6,320.46	6,257.76	62.71	100.793		
7,450.00	7,029.52	7,021.97	6,961.94	36.75	33.64	-67.40	-811.00	-5,972.75	6,271.07	6,208.33	62.74	99.951		
7,483.86	7,030.00	7,022.65	6,962.62	37.12	33.64	-90.36	-810.99	-5,972.76	6,237.49	6,174.73	62.76	99.385		
7,500.00	7,029.80	7,022.67	6,962.64	37.30	33.64	-90.37	-810.99	-5,972.76	6,221.48	6,158.71	62.77	99.115		
7,600.00	7,028.57	7,022.80	6,962.78	38.58	33.64	-90.37	-810.98	-5,972.76	6,122.29	6,059.46	62.83	97.442		
7,700.00	7,027.34	7,022.94	6,962.91	40.10	33.64	-90.38	-810.98	-5,972.76	6,023.12	5,960.22	62.90	95.758		
7,800.00	7,026.10	7,023.07	6,963.05	41.83	33.64	-90.39	-810.98	-5,972.76	5,923.98	5,861.00	62.98	94.062		
7,900.00	7,024.87	7,023.21	6,963.18	43.74	33.64	-90.40	-810.98	-5,972.76	5,824.87	5,761.80	63.07	92.353		
8,000.00	7,023.63	7,023.35	6,963.32	45.82	33.64	-90.41	-810.97	-5,972.77	5,725.80	5,662.62	63.18	90.632		
8,100.00	7,022.40	7,023.48	6,963.46	48.04	33.64	-90.42	-810.97	-5,972.77	5,626.75	5,563.46	63.29	88.899		
8,200.00	7,021.17	7,023.62	6,963.60	50.38	33.64	-90.43	-810.97	-5,972.77	5,527.74	5,464.31	63.43	87.153		
8,300.00	7,019.93	7,023.76	6,963.74	52.82	33.64	-90.45	-810.96	-5,972.77	5,428.76	5,365.19	63.57	85.394		
8,400.00	7,018.70	7,023.91	6,963.88	55.35	33.64	-90.46	-810.96	-5,972.77	5,329.83	5,266.09	63.74	83.622		
8,500.00	7,017.47	7,024.05	6,964.02	57.97	33.65	-90.47	-810.96	-5,972.78	5,230.93	5,167.01	63.92	81.837		
8,600.00	7,016.23	7,024.19	6,964.17	60.65	33.65	-90.48	-810.96	-5,972.78	5,132.08	5,067.96	64.12	80.039		
8,700.00	7,015.00	7,024.34	6,964.31	63.39	33.65	-90.49	-810.95	-5,972.78	5,033.27	4,968.93	64.34	78.227		
8,800.00	7,013.76	7,024.49	6,964.46	66.19	33.65	-90.50	-810.95	-5,972.78	4,934.51	4,869.92	64.59	76.401		
8,900.00	7,012.53	7,024.63	6,964.61	69.03	33.65	-90.51	-810.95	-5,972.79	4,835.80	4,770.95	64.86	74.563		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,024.78	6,964.76	71.91	33.65	-90.52	-810.94	-5,972.79	4,737.15	4,672.00	65.15	72.711		
9,100.00	7,010.06	7,024.93	6,964.91	74.83	33.65	-90.53	-810.94	-5,972.79	4,638.55	4,573.08	65.47	70.846		
9,200.00	7,008.83	7,025.09	6,965.06	77.78	33.65	-90.54	-810.94	-5,972.79	4,540.01	4,474.19	65.83	68.968		
9,300.00	7,007.60	7,025.24	6,965.21	80.76	33.65	-90.55	-810.93	-5,972.80	4,441.54	4,375.33	66.22	67.077		
9,400.00	7,006.36	7,025.40	6,965.37	83.76	33.65	-90.56	-810.93	-5,972.80	4,343.14	4,276.51	66.64	65.175		
9,500.00	7,005.13	7,025.55	6,965.52	86.79	33.65	-90.58	-810.93	-5,972.80	4,244.82	4,177.72	67.10	63.261		
9,600.00	7,003.90	7,025.71	6,965.68	89.84	33.65	-90.59	-810.92	-5,972.80	4,146.57	4,078.97	67.60	61.336		
9,700.00	7,002.66	7,025.87	6,965.84	92.90	33.65	-90.60	-810.92	-5,972.80	4,048.41	3,980.26	68.15	59.402		
9,800.00	7,001.43	7,026.03	6,966.00	95.99	33.65	-90.61	-810.92	-5,972.81	3,950.35	3,881.59	68.75	57.458		
9,900.00	7,000.19	7,026.19	6,966.16	99.08	33.65	-90.62	-810.91	-5,972.81	3,852.38	3,782.97	69.40	55.506		
10,000.00	6,998.96	7,026.36	6,966.33	102.19	33.65	-90.63	-810.91	-5,972.81	3,754.52	3,684.40	70.11	53.548		
10,100.00	6,997.73	7,026.52	6,966.49	105.32	33.65	-90.65	-810.91	-5,972.81	3,656.77	3,585.88	70.89	51.585		
10,200.00	6,996.49	7,026.69	6,966.66	108.45	33.66	-90.66	-810.90	-5,972.82	3,559.15	3,487.42	71.73	49.619		
10,300.00	6,995.26	7,026.86	6,966.83	111.60	33.66	-90.67	-810.90	-5,972.82	3,461.67	3,389.02	72.65	47.651		
10,400.00	6,994.03	7,027.03	6,967.00	114.75	33.66	-90.68	-810.90	-5,972.82	3,364.33	3,290.69	73.64	45.683		
10,500.00	6,992.79	7,027.20	6,967.17	117.92	33.66	-90.70	-810.89	-5,972.83	3,267.16	3,192.42	74.73	43.719		
10,600.00	6,991.56	7,027.37	6,967.35	121.09	33.66	-90.71	-810.89	-5,972.83	3,170.16	3,094.24	75.91	41.760		
10,700.00	6,990.33	7,027.55	6,967.52	124.27	33.66	-90.72	-810.89	-5,972.83	3,073.35	2,996.14	77.20	39.809		
10,800.00	6,989.09	7,027.73	6,967.70	127.46	33.66	-90.74	-810.88	-5,972.83	2,976.75	2,898.14	78.61	37.869		
10,900.00	6,987.86	7,027.91	6,967.88	130.65	33.66	-90.75	-810.88	-5,972.84	2,880.39	2,800.25	80.14	35.943		
11,000.00	6,986.62	7,028.09	6,968.06	133.85	33.66	-90.76	-810.88	-5,972.84	2,784.28	2,702.47	81.81	34.034		
11,100.00	6,985.39	7,028.27	6,968.24	137.06	33.66	-90.77	-810.87	-5,972.84	2,688.46	2,604.82	83.63	32.146		
11,200.00	6,984.16	7,028.45	6,968.42	140.27	33.66	-90.79	-810.87	-5,972.84	2,592.95	2,507.32	85.62	30.283		
11,300.00	6,982.92	7,028.64	6,968.61	143.48	33.66	-90.80	-810.87	-5,972.85	2,497.79	2,409.99	87.80	28.448		
11,400.00	6,981.69	7,028.83	6,968.80	146.70	33.66	-90.82	-810.86	-5,972.85	2,403.03	2,312.84	90.19	26.645		
11,500.00	6,980.46	7,029.02	6,968.99	149.92	33.66	-90.83	-810.86	-5,972.85	2,308.71	2,215.91	92.80	24.878		
11,600.00	6,979.22	7,029.21	6,969.18	153.15	33.66	-90.84	-810.85	-5,972.86	2,214.88	2,119.21	95.67	23.152		
11,700.00	6,977.99	7,029.40	6,969.37	156.38	33.67	-90.86	-810.85	-5,972.86	2,121.62	2,022.81	98.82	21.470		
11,800.00	6,976.75	7,029.60	6,969.57	159.62	33.67	-90.87	-810.85	-5,972.86	2,029.01	1,926.72	102.28	19.837		
11,900.00	6,975.52	7,029.80	6,969.77	162.86	33.67	-90.89	-810.84	-5,972.86	1,937.12	1,831.02	106.10	18.257		
12,000.00	6,974.29	7,030.00	6,969.97	166.10	33.67	-90.90	-810.84	-5,972.87	1,846.08	1,735.77	110.32	16.735		
12,100.00	6,973.05	7,030.20	6,970.17	169.34	33.67	-90.92	-810.83	-5,972.87	1,756.02	1,641.05	114.97	15.273		
12,200.00	6,971.82	7,030.40	6,970.37	172.59	33.67	-90.93	-810.83	-5,972.87	1,667.09	1,546.96	120.13	13.877		
12,300.00	6,970.59	7,030.61	6,970.58	175.84	33.67	-90.95	-810.83	-5,972.88	1,579.48	1,453.64	125.84	12.551		
12,400.00	6,969.35	7,030.82	6,970.79	179.09	33.67	-90.96	-810.82	-5,972.88	1,493.44	1,361.26	132.18	11.299		
12,500.00	6,968.12	7,031.03	6,971.00	182.35	33.67	-90.98	-810.82	-5,972.88	1,409.23	1,270.03	139.20	10.124		
12,600.00	6,966.89	7,031.24	6,971.21	185.60	33.67	-90.99	-810.81	-5,972.89	1,327.22	1,180.23	146.99	9.029		
12,700.00	6,965.65	7,031.46	6,971.43	188.86	33.67	-91.01	-810.81	-5,972.89	1,247.83	1,092.24	155.60	8.020		
12,800.00	6,964.42	7,031.67	6,971.64	192.12	33.67	-91.02	-810.80	-5,972.89	1,171.61	1,006.53	165.08	7.097		
12,900.00	6,963.18	7,031.89	6,971.86	195.38	33.67	-91.04	-810.80	-5,972.90	1,099.20	923.78	175.43	6.266		
13,000.00	6,961.95	7,032.12	6,972.09	198.65	33.68	-91.06	-810.80	-5,972.90	1,031.42	844.82	186.60	5.527		
13,100.00	6,960.72	7,032.34	6,972.31	201.91	33.68	-91.07	-810.79	-5,972.90	969.23	770.80	198.43	4.884		
13,200.00	6,959.48	7,032.57	6,972.54	205.18	33.68	-91.09	-810.79	-5,972.91	913.78	703.17	210.61	4.339		
13,300.00	6,958.25	7,032.80	6,972.77	208.45	33.68	-91.11	-810.78	-5,972.91	866.35	643.74	222.62	3.892		
13,400.00	6,957.02	7,033.03	6,973.00	211.72	33.68	-91.12	-810.78	-5,972.92	828.34	594.59	233.75	3.544		
13,500.00	6,955.78	7,033.27	6,973.23	214.99	33.68	-91.14	-810.77	-5,972.92	801.08	557.96	243.12	3.295		
13,600.00	6,954.55	7,033.50	6,973.47	218.27	33.68	-91.16	-810.77	-5,972.92	785.69	535.82	249.87	3.144		
13,720.00	6,953.66	7,033.68	6,973.65	220.63	33.68	-91.17	-810.77	-5,972.93	782.37	529.65	252.72	3.096 CC		
13,700.00	6,953.32	7,033.74	6,973.71	221.54	33.68	-91.18	-810.76	-5,972.93	782.87	529.53	253.34	3.090 ES, SF		
13,800.00	6,952.08	7,033.99	6,973.96	224.82	33.68	-91.19	-810.76	-5,972.93	792.76	539.45	253.31	3.130		
13,900.00	6,950.85	7,034.23	6,974.20	228.10	33.68	-91.21	-810.75	-5,972.93	814.89	564.84	250.05	3.259		
14,000.00	6,949.61	7,034.48	6,974.45	231.37	33.68	-91.23	-810.75	-5,972.94	848.31	604.10	244.21	3.474		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - SOUTH #6-22D - OH - OH		Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)				
14,100.00	6,948.38	7,034.73	6,974.70	234.65	33.69	-91.25	-810.74	-5,972.94	891.74	655.15	236.59	3.769			
14,200.00	6,947.15	7,034.99	6,974.96	237.93	33.69	-91.27	-810.74	-5,972.95	943.81	715.85	227.96	4.140			
14,300.00	6,945.91	7,035.25	6,975.22	241.22	33.69	-91.29	-810.73	-5,972.95	1,003.17	784.22	218.96	4.582			
14,400.00	6,944.68	7,035.51	6,975.48	244.50	33.69	-91.30	-810.73	-5,972.95	1,068.61	858.60	210.02	5.088			
14,500.00	6,943.45	7,035.77	6,975.74	247.78	33.69	-91.32	-810.72	-5,972.96	1,139.08	937.66	201.42	5.655			
14,600.00	6,942.21	7,036.04	6,976.01	251.07	33.69	-91.34	-810.72	-5,972.96	1,213.71	1,020.37	193.34	6.278			
14,700.00	6,940.98	7,036.31	6,976.28	254.35	33.69	-91.36	-810.71	-5,972.97	1,291.77	1,105.94	185.83	6.951			
14,800.00	6,939.74	7,036.58	6,976.55	257.64	33.69	-91.38	-810.71	-5,972.97	1,372.68	1,193.77	178.91	7.672			
14,900.00	6,938.51	7,036.86	6,976.83	260.92	33.69	-91.40	-810.70	-5,972.98	1,455.96	1,283.39	172.57	8.437			
15,000.00	6,937.28	7,037.14	6,977.11	264.21	33.69	-91.42	-810.70	-5,972.98	1,541.23	1,374.45	166.78	9.241			
15,100.00	6,936.04	7,037.42	6,977.39	267.50	33.70	-91.45	-810.69	-5,972.98	1,628.18	1,466.69	161.50	10.082			
15,200.00	6,934.81	7,037.71	6,977.68	270.79	33.70	-91.47	-810.69	-5,972.99	1,716.55	1,559.88	156.67	10.957			
15,300.00	6,933.58	7,038.00	6,977.97	274.08	33.70	-91.49	-810.68	-5,972.99	1,806.14	1,653.88	152.26	11.862			
15,400.00	6,932.34	7,038.30	6,978.27	277.37	33.70	-91.51	-810.67	-5,973.00	1,896.76	1,748.53	148.23	12.796			
15,500.00	6,931.11	7,038.60	6,978.56	280.66	33.70	-91.53	-810.67	-5,973.00	1,988.29	1,843.75	144.53	13.757			
15,589.88	6,930.00	7,038.87	6,978.84	283.62	33.70	-91.55	-810.66	-5,973.01	2,071.22	1,929.75	141.47	14.640			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-103.91	-1,350.58	-5,451.98	5,616.78					
100.00	100.00	79.40	79.40	3.28	3.28	-103.91	-1,350.43	-5,452.21	5,617.02	5,610.45	6.57	855.042		
200.00	200.00	172.34	172.34	3.34	3.32	-103.90	-1,349.94	-5,452.87	5,617.58	5,610.92	6.66	843.563		
300.00	299.98	289.75	289.74	3.44	3.44	-177.04	-1,348.94	-5,453.68	5,619.79	5,612.91	6.88	816.547		
400.00	399.84	415.38	415.35	3.60	3.64	-177.02	-1,347.12	-5,454.18	5,625.06	5,617.82	7.24	776.898		
500.00	499.45	515.12	515.07	3.81	3.84	-176.99	-1,345.28	-5,454.46	5,633.60	5,625.94	7.65	736.210		
600.00	598.70	615.98	615.91	4.08	4.09	-176.97	-1,343.23	-5,454.78	5,645.59	5,637.45	8.14	693.324		
700.00	697.47	744.75	744.65	4.40	4.44	-176.93	-1,340.13	-5,454.96	5,660.79	5,652.01	8.78	644.807		
774.77	770.92	838.39	838.24	4.68	4.73	-176.90	-1,337.26	-5,454.72	5,673.98	5,664.68	9.29	610.457		
800.00	795.65	864.24	864.08	4.78	4.81	-176.89	-1,336.42	-5,454.63	5,678.72	5,669.27	9.46	600.372		
900.00	893.64	900.00	899.82	5.20	4.92	-176.89	-1,335.25	-5,454.51	5,697.87	5,687.97	9.90	575.666		
1,000.00	991.63	957.84	957.64	5.66	5.11	-176.88	-1,333.90	-5,454.70	5,717.77	5,707.34	10.43	548.306		
1,100.00	1,089.63	1,000.00	999.80	6.15	5.25	-176.88	-1,333.64	-5,455.35	5,738.89	5,727.96	10.92	525.300		
1,200.00	1,187.62	1,031.60	1,031.39	6.65	5.36	-176.88	-1,333.88	-5,456.07	5,761.02	5,749.62	11.40	505.387		
1,300.00	1,285.62	1,071.49	1,071.25	7.17	5.49	-176.89	-1,334.74	-5,457.22	5,784.14	5,772.23	11.91	485.587		
1,400.00	1,383.61	1,120.76	1,120.45	7.71	5.67	-176.91	-1,336.61	-5,458.95	5,808.20	5,795.73	12.47	465.865		
1,500.00	1,481.60	1,194.31	1,193.87	8.25	5.94	-176.95	-1,340.02	-5,461.75	5,832.80	5,819.68	13.13	444.401		
1,600.00	1,579.60	1,246.89	1,246.32	8.80	6.15	-176.98	-1,342.99	-5,463.92	5,857.95	5,844.23	13.72	427.064		
1,700.00	1,677.59	1,300.00	1,299.24	9.36	6.36	-177.01	-1,346.80	-5,466.36	5,883.86	5,869.54	14.32	410.995		
1,800.00	1,775.59	1,369.88	1,368.77	9.92	6.66	-177.07	-1,352.90	-5,469.71	5,910.35	5,895.35	15.00	393.988		
1,900.00	1,873.58	1,400.00	1,398.71	10.49	6.79	-177.10	-1,355.86	-5,471.15	5,937.43	5,921.91	15.52	382.581		
2,000.00	1,971.57	1,456.88	1,455.18	11.06	7.05	-177.16	-1,361.96	-5,474.25	5,965.24	5,949.08	16.16	369.045		
2,100.00	2,069.57	1,500.00	1,497.90	11.64	7.25	-177.20	-1,367.01	-5,477.12	5,994.13	5,977.39	16.75	357.926		
2,200.00	2,167.56	1,500.00	1,497.90	12.22	7.25	-177.20	-1,367.01	-5,477.12	6,024.14	6,007.01	17.13	351.724		
2,300.00	2,265.56	1,550.25	1,547.58	12.80	7.50	-177.26	-1,373.40	-5,481.15	6,054.94	6,037.19	17.75	341.136		
2,400.00	2,363.55	1,600.00	1,596.61	13.38	7.76	-177.32	-1,380.30	-5,485.98	6,087.06	6,068.69	18.37	331.408		
2,500.00	2,461.54	1,600.00	1,596.61	13.97	7.76	-177.32	-1,380.30	-5,485.98	6,119.97	6,101.23	18.74	326.644		
2,600.00	2,559.54	1,635.15	1,631.15	14.55	7.97	-177.37	-1,385.58	-5,489.87	6,154.00	6,134.72	19.29	319.084		
2,700.00	2,657.53	1,663.94	1,659.35	15.14	8.14	-177.40	-1,390.21	-5,493.31	6,189.04	6,169.24	19.80	312.586		
2,800.00	2,755.53	1,700.00	1,694.57	15.73	8.36	-177.45	-1,396.41	-5,497.94	6,225.08	6,204.73	20.35	305.930		
2,900.00	2,853.52	1,753.32	1,746.50	16.32	8.71	-177.54	-1,406.17	-5,505.03	6,261.88	6,240.87	21.01	298.069		
3,000.00	2,951.52	1,820.00	1,811.32	16.91	9.16	-177.64	-1,419.10	-5,513.87	6,299.05	6,277.30	21.75	289.629		
3,100.00	3,049.51	1,876.18	1,865.85	17.51	9.54	-177.73	-1,430.22	-5,521.55	6,336.72	6,314.29	22.43	282.482		
3,200.00	3,147.50	1,900.00	1,888.95	18.10	9.71	-177.77	-1,434.95	-5,524.90	6,375.07	6,352.15	22.91	278.213		
3,300.00	3,245.50	1,950.32	1,937.65	18.70	10.08	-177.85	-1,445.25	-5,532.32	6,414.11	6,390.54	23.57	272.166		
3,400.00	3,343.49	2,000.00	1,985.51	19.29	10.45	-177.94	-1,455.97	-5,540.21	6,454.17	6,429.96	24.21	266.563		
3,500.00	3,441.49	2,047.28	2,030.96	19.89	10.82	-178.02	-1,466.45	-5,547.94	6,494.84	6,469.99	24.85	261.352		
3,600.00	3,539.48	2,172.74	2,151.68	20.48	11.79	-178.23	-1,493.96	-5,568.17	6,535.45	6,509.44	26.01	251.257		
3,700.00	3,637.47	2,257.69	2,233.63	21.08	12.44	-178.37	-1,511.73	-5,581.82	6,575.78	6,548.89	26.89	244.518		
3,800.00	3,735.47	2,341.56	2,314.47	21.68	13.07	-178.50	-1,529.40	-5,595.46	6,616.35	6,588.58	27.77	238.268		
3,900.00	3,833.46	2,441.35	2,410.63	22.27	13.83	-178.66	-1,550.70	-5,611.51	6,656.87	6,628.11	28.76	231.490		
4,000.00	3,931.46	2,532.75	2,498.71	22.87	14.53	-178.80	-1,570.27	-5,626.09	6,697.33	6,667.64	29.69	225.551		
4,100.00	4,029.45	2,622.63	2,585.21	23.47	15.22	-178.95	-1,590.14	-5,640.30	6,737.89	6,707.27	30.63	219.998		
4,200.00	4,127.44	2,854.27	2,808.49	24.07	16.92	-179.32	-1,641.78	-5,673.92	6,777.28	6,744.72	32.55	208.184		
4,300.00	4,225.44	2,925.36	2,877.12	24.67	17.42	-179.44	-1,657.57	-5,683.67	6,816.11	6,782.75	33.36	204.338		
4,400.00	4,323.43	2,995.06	2,944.38	25.27	17.92	-179.55	-1,673.01	-5,693.45	6,855.26	6,821.11	34.15	200.737		
4,507.81	4,429.08	3,134.07	3,078.84	25.92	18.88	-179.75	-1,702.02	-5,713.48	6,897.46	6,862.04	35.43	194.706		
4,600.00	4,519.70	3,250.20	3,191.40	26.45	19.67	-179.92	-1,725.71	-5,729.49	6,931.52	6,895.03	36.48	189.990		
4,700.00	4,618.56	4,700.00	3,317.38	26.98	29.26	179.90	-1,753.24	-5,746.55	6,965.00	6,919.96	45.04	154.642		
4,800.00	4,717.88	3,457.50	3,392.23	27.46	21.04	179.79	-1,769.44	-5,756.44	6,994.94	6,956.47	38.47	181.831		
4,900.00	4,817.54	3,511.03	3,444.05	27.89	21.39	179.72	-1,780.72	-5,763.69	7,022.20	6,983.09	39.11	179.545		
5,000.00	4,917.43	3,600.00	3,530.21	28.28	21.99	179.60	-1,799.26	-5,775.88	7,046.23	7,006.24	39.99	176.219		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	3,645.04	3,573.76	28.57	22.31	-107.31	-1,808.94	-5,782.09	7,063.82	7,023.31	40.51	174.361		
5,100.00	5,017.42	3,652.05	3,580.51	28.62	22.36	-107.32	-1,810.52	-5,783.07	7,067.37	7,026.76	40.60	174.058		
5,200.00	5,117.42	3,700.00	3,626.62	28.95	22.71	-107.39	-1,821.82	-5,789.86	7,088.18	7,047.00	41.18	172.107		
5,300.00	5,217.42	3,746.42	3,671.11	29.28	23.07	-107.46	-1,833.25	-5,796.58	7,109.71	7,067.94	41.77	170.204		
5,400.00	5,317.42	3,805.30	3,727.45	29.62	23.53	-107.56	-1,847.92	-5,805.34	7,131.81	7,089.35	42.45	167.995		
5,500.00	5,417.42	3,878.17	3,797.16	29.96	24.11	-107.67	-1,865.93	-5,816.54	7,154.35	7,111.11	43.24	165.453		
5,600.00	5,517.42	3,945.00	3,867.58	30.29	24.67	-107.75	-1,880.95	-5,827.21	7,176.32	7,132.68	44.04	163.783		
5,700.00	5,617.42	4,012.39	3,937.42	30.64	25.27	-107.81	-1,895.13	-5,837.61	7,196.49	7,151.97	44.82	162.092		
5,800.00	5,717.42	4,080.09	4,002.38	30.98	25.90	-107.89	-1,908.88	-5,848.37	7,216.64	7,169.26	45.57	160.340		
5,900.00	5,817.42	4,148.98	4,070.98	31.33	26.56	-107.98	-1,923.68	-5,859.50	7,237.01	7,188.90	46.29	158.538		
6,000.00	5,917.42	4,218.00	4,140.60	31.68	27.24	-108.07	-1,938.61	-5,870.55	7,257.91	7,209.07	46.98	156.624		
6,100.00	6,017.42	4,288.26	4,211.98	32.03	27.94	-108.17	-2,006.33	-5,920.37	7,279.14	7,229.49	49.65	146.611		
6,200.00	6,117.42	4,358.18	4,282.81	32.38	28.66	-108.25	-2,029.14	-5,928.99	7,300.61	7,250.31	50.30	145.129		
6,300.00	6,217.42	4,428.58	4,353.04	32.74	29.40	-109.61	-2,202.74	-6,058.80	7,305.21	7,246.11	59.10	123.602		
6,400.00	6,317.42	4,499.57	4,423.99	33.09	30.16	-109.62	-2,204.41	-6,059.86	7,306.37	7,246.37	60.00	121.773		
6,476.01	6,393.43	4,457.45	4,326.87	33.37	30.75	-109.63	-2,205.14	-6,060.23	7,307.05	7,246.50	60.55	120.681		
6,500.00	6,417.42	4,477.22	4,346.64	33.45	30.81	-17.30	-2,205.35	-6,060.36	7,306.86	7,246.15	60.71	120.352		
6,550.00	6,467.25	4,532.77	4,402.19	33.59	31.98	-17.40	-2,205.92	-6,060.78	7,303.71	7,242.62	61.09	119.552		
6,600.00	6,516.64	4,605.64	4,475.04	33.71	32.20	-17.62	-2,206.73	-6,061.11	7,296.72	7,235.19	61.52	118.599		
6,650.00	6,565.26	4,654.48	4,523.88	33.80	32.35	-17.96	-2,207.40	-6,061.20	7,285.97	7,224.12	61.85	117.792		
6,700.00	6,612.83	4,703.84	4,573.23	33.88	32.50	-18.42	-2,208.29	-6,061.21	7,271.60	7,209.43	62.17	116.960		
6,750.00	6,659.04	4,753.12	4,622.51	33.94	32.59	-19.01	-2,208.84	-6,061.23	7,253.77	7,191.37	62.39	116.257		
6,800.00	6,703.62	4,758.98	4,628.36	33.99	32.68	-19.75	-2,209.43	-6,061.32	7,232.63	7,170.03	62.60	115.530		
6,850.00	6,746.28	4,785.72	4,655.09	34.03	32.76	-20.66	-2,210.02	-6,061.45	7,208.32	7,145.52	62.80	114.789		
6,900.00	6,786.76	4,842.27	4,711.63	34.08	32.84	-21.86	-2,211.33	-6,061.77	7,180.92	7,117.83	63.09	113.823		
6,950.00	6,824.83	4,890.00	4,754.25	34.13	32.98	-23.30	-2,212.37	-6,061.76	7,150.36	7,086.80	63.56	112.506		
7,000.00	6,860.23	4,900.00	4,769.34	34.20	32.92	-24.99	-2,212.73	-6,061.80	7,117.16	7,053.73	63.43	112.201		
7,050.00	6,892.75	4,935.46	4,804.79	34.30	32.23	-27.15	-2,213.58	-6,061.86	7,081.35	7,017.73	63.62	111.311		
7,100.00	6,922.20	4,948.43	4,817.76	34.43	32.27	-29.72	-2,213.88	-6,061.94	7,043.35	6,979.64	63.71	110.550		
7,150.00	6,948.38	4,960.08	4,829.41	34.60	32.31	-32.92	-2,214.14	-6,062.05	7,003.32	6,939.52	63.80	109.773		
7,200.00	6,971.15	4,970.33	4,839.65	34.82	32.34	-36.94	-2,214.37	-6,062.17	6,961.48	6,897.60	63.88	108.981		
7,250.00	6,990.35	4,980.00	4,869.31	35.09	32.44	-42.27	-2,214.99	-6,062.65	6,918.14	6,854.10	64.03	108.039		
7,300.00	7,005.87	4,990.00	4,889.31	35.43	32.44	-48.72	-2,214.99	-6,062.65	6,873.37	6,809.29	64.08	107.262		
7,350.00	7,017.62	4,990.00	4,889.31	35.81	32.44	-56.90	-2,214.99	-6,062.65	6,827.58	6,763.45	64.13	106.460		
7,400.00	7,025.52	4,990.00	4,889.31	36.26	32.44	-67.03	-2,214.99	-6,062.65	6,781.02	6,716.83	64.19	105.634		
7,450.00	7,029.52	4,990.00	4,889.31	36.75	32.44	-78.97	-2,214.99	-6,062.65	6,733.98	6,669.71	64.26	104.785		
7,483.86	7,030.00	4,990.00	4,889.31	37.12	32.44	-87.70	-2,214.99	-6,062.65	6,701.98	6,637.66	64.32	104.196		
7,500.00	7,029.80	4,990.00	4,889.31	37.30	32.44	-87.70	-2,214.99	-6,062.65	6,686.72	6,622.37	64.35	103.913		
7,600.00	7,028.57	4,990.00	4,889.31	38.58	32.44	-87.70	-2,214.99	-6,062.65	6,592.28	6,527.73	64.55	102.123		
7,700.00	7,027.34	4,990.00	4,889.31	40.10	32.44	-87.70	-2,214.99	-6,062.65	6,498.01	6,433.21	64.81	100.269		
7,800.00	7,026.10	4,990.00	4,889.31	41.83	32.44	-87.70	-2,214.99	-6,062.65	6,403.92	6,338.80	65.11	98.353		
7,900.00	7,024.87	4,990.22	4,889.53	43.74	32.44	-87.71	-2,214.99	-6,062.65	6,310.00	6,244.53	65.47	96.375		
8,000.00	7,023.63	4,991.53	4,870.84	45.82	32.44	-87.74	-2,215.02	-6,062.68	6,216.27	6,150.37	65.90	94.332		
8,100.00	7,022.40	4,992.81	4,872.12	48.04	32.45	-87.78	-2,215.04	-6,062.70	6,122.74	6,056.36	66.38	92.233		
8,200.00	7,021.17	4,994.07	4,873.38	50.38	32.45	-87.81	-2,215.07	-6,062.72	6,029.42	5,962.49	66.93	90.084		
8,300.00	7,019.93	4,995.30	4,874.61	52.82	32.45	-87.84	-2,215.09	-6,062.75	5,936.32	5,868.78	67.54	87.888		
8,400.00	7,018.70	4,996.52	4,875.82	55.35	32.46	-87.87	-2,215.12	-6,062.77	5,843.44	5,775.22	68.23	85.649		
8,500.00	7,017.47	4,997.70	4,877.01	57.97	32.46	-87.90	-2,215.14	-6,062.79	5,750.81	5,681.83	68.98	83.373		
8,600.00	7,016.23	4,998.87	4,878.18	60.65	32.46	-87.94	-2,215.17	-6,062.82	5,658.42	5,588.62	69.80	81.066		
8,700.00	7,015.00	4,999.99	4,879.32	63.39	32.47	-87.97	-2,215.19	-6,062.84	5,566.30	5,495.60	70.70	78.733		
8,800.00	7,013.76	5,001.14	4,880.45	66.19	32.47	-87.99	-2,215.21	-6,062.86	5,474.45	5,402.78	71.67	76.381		
8,900.00	7,012.53	5,002.25	4,881.55	69.03	32.48	-88.02	-2,215.23	-6,062.88	5,382.89	5,310.17	72.73	74.016		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
9,000.00	7,011.30	7,013.33	6,882.64	71.91	39.48	-88.05	-2,215.25	-6,062.90	5,291.64	5,217.78	73.86	71.644		
9,100.00	7,010.06	7,014.40	6,883.70	74.83	39.48	-88.08	-2,215.27	-6,062.92	5,200.71	5,125.64	75.08	69.271		
9,200.00	7,008.83	7,015.44	6,884.75	77.78	39.49	-88.11	-2,215.29	-6,062.94	5,110.12	5,033.74	76.38	66.904		
9,300.00	7,007.60	7,016.47	6,885.78	80.76	39.49	-88.13	-2,215.31	-6,062.96	5,019.89	4,942.12	77.77	64.548		
9,400.00	7,006.36	7,017.48	6,886.79	83.76	39.49	-88.16	-2,215.33	-6,062.97	4,930.03	4,850.78	79.25	62.208		
9,500.00	7,005.13	7,018.48	6,887.78	86.79	39.50	-88.19	-2,215.35	-6,062.99	4,840.57	4,759.75	80.82	59.891		
9,600.00	7,003.90	7,019.46	6,888.76	89.84	39.50	-88.21	-2,215.37	-6,063.01	4,751.54	4,669.04	82.49	57.600		
9,700.00	7,002.66	7,020.42	6,889.72	92.90	39.50	-88.24	-2,215.39	-6,063.03	4,662.94	4,578.68	84.26	55.342		
9,800.00	7,001.43	7,021.36	6,890.66	95.99	39.50	-88.26	-2,215.41	-6,063.04	4,574.82	4,488.69	86.12	53.119		
9,900.00	7,000.19	7,022.29	6,891.59	99.08	39.51	-88.29	-2,215.43	-6,063.06	4,487.19	4,399.09	88.10	50.936		
10,000.00	6,998.96	7,023.20	6,892.51	102.19	39.51	-88.31	-2,215.45	-6,063.08	4,400.09	4,309.92	90.17	48.796		
10,100.00	6,997.73	7,024.10	6,893.40	105.32	39.51	-88.33	-2,215.46	-6,063.09	4,313.55	4,221.19	92.36	46.702		
10,200.00	6,996.49	7,024.99	6,894.29	108.45	39.52	-88.36	-2,215.48	-6,063.11	4,227.60	4,132.94	94.67	44.658		
10,300.00	6,995.26	7,025.86	6,895.16	111.60	39.52	-88.38	-2,215.50	-6,063.12	4,142.29	4,045.20	97.09	42.665		
10,400.00	6,994.03	7,026.72	6,896.02	114.75	39.52	-88.40	-2,215.51	-6,063.14	4,057.64	3,958.01	99.63	40.726		
10,500.00	6,992.79	7,027.56	6,896.86	117.92	39.52	-88.43	-2,215.53	-6,063.15	3,973.71	3,871.41	102.31	38.842		
10,600.00	6,991.56	7,028.39	6,897.69	121.09	39.53	-88.45	-2,215.54	-6,063.17	3,890.54	3,785.43	105.11	37.014		
10,700.00	6,990.33	7,029.21	6,898.51	124.27	39.53	-88.47	-2,215.56	-6,063.18	3,808.18	3,700.13	108.05	35.245		
10,800.00	6,989.09	7,030.01	6,899.31	127.46	39.53	-88.49	-2,215.57	-6,063.20	3,726.68	3,615.55	111.13	33.535		
10,900.00	6,987.86	7,030.80	6,900.10	130.65	39.54	-88.51	-2,215.59	-6,063.21	3,646.10	3,531.75	114.35	31.884		
11,000.00	6,986.62	7,031.58	6,900.88	133.85	39.54	-88.53	-2,215.60	-6,063.22	3,566.51	3,448.78	117.73	30.294		
11,100.00	6,985.39	7,032.35	6,901.65	137.06	39.54	-88.55	-2,215.62	-6,063.24	3,487.96	3,366.70	121.26	28.764		
11,200.00	6,984.16	7,033.11	6,902.41	140.27	39.54	-88.57	-2,215.63	-6,063.25	3,410.54	3,285.59	124.95	27.295		
11,300.00	6,982.92	7,033.86	6,903.15	143.48	39.55	-88.59	-2,215.65	-6,063.26	3,334.32	3,205.52	128.81	25.886		
11,400.00	6,981.69	7,034.59	6,903.89	146.70	39.55	-88.61	-2,215.66	-6,063.28	3,259.39	3,126.56	132.83	24.538		
11,500.00	6,980.46	7,035.32	6,904.61	149.92	39.55	-88.63	-2,215.67	-6,063.29	3,185.83	3,048.81	137.03	23.250		
11,600.00	6,979.22	7,036.03	6,905.33	153.15	39.55	-88.65	-2,215.69	-6,063.30	3,113.75	2,972.35	141.40	22.021		
11,700.00	6,977.99	7,036.73	6,906.03	156.38	39.55	-88.67	-2,215.70	-6,063.31	3,043.25	2,897.30	145.94	20.852		
11,800.00	6,976.75	7,037.43	6,906.72	159.62	39.56	-88.68	-2,215.71	-6,063.32	2,974.44	2,823.77	150.67	19.742		
11,900.00	6,975.52	7,038.11	6,907.41	162.86	39.56	-88.70	-2,215.73	-6,063.34	2,907.43	2,751.87	155.57	18.689		
12,000.00	6,974.29	7,038.78	6,908.08	166.10	39.56	-88.72	-2,215.74	-6,063.35	2,842.37	2,681.73	160.64	17.694		
12,100.00	6,973.05	7,039.45	6,908.75	169.34	39.56	-88.74	-2,215.75	-6,063.36	2,779.39	2,613.50	165.88	16.755		
12,200.00	6,971.82	7,040.10	6,909.40	172.59	39.57	-88.75	-2,215.76	-6,063.37	2,718.62	2,547.33	171.29	15.872		
12,300.00	6,970.59	7,040.75	6,910.05	175.84	39.57	-88.77	-2,215.78	-6,063.38	2,660.22	2,483.38	176.84	15.043		
12,400.00	6,969.35	7,041.39	6,910.68	179.09	39.57	-88.79	-2,215.79	-6,063.39	2,604.36	2,421.83	182.54	14.268		
12,500.00	6,968.12	7,042.02	6,911.31	182.35	39.57	-88.81	-2,215.80	-6,063.40	2,551.20	2,362.85	188.35	13.545		
12,600.00	6,966.89	7,042.64	6,911.93	185.60	39.57	-88.82	-2,215.81	-6,063.41	2,500.90	2,306.64	194.26	12.874		
12,700.00	6,965.65	7,043.25	6,912.55	188.86	39.58	-88.84	-2,215.82	-6,063.42	2,453.65	2,253.42	200.24	12.254		
12,800.00	6,964.42	7,043.85	6,913.15	192.12	39.58	-88.85	-2,215.83	-6,063.43	2,409.63	2,203.37	206.25	11.683		
12,900.00	6,963.18	7,044.45	6,913.75	195.38	39.58	-88.87	-2,215.84	-6,063.44	2,369.01	2,156.73	212.28	11.160		
13,000.00	6,961.95	7,045.04	6,914.33	198.65	39.58	-88.88	-2,215.85	-6,063.45	2,331.98	2,113.72	218.26	10.684		
13,100.00	6,960.72	7,045.62	6,914.91	201.91	39.58	-88.90	-2,215.86	-6,063.46	2,298.70	2,074.54	224.16	10.255		
13,200.00	6,959.48	7,046.19	6,915.49	205.18	39.58	-88.91	-2,215.88	-6,063.47	2,269.34	2,039.41	229.93	9.870		
13,300.00	6,958.25	7,046.76	6,916.05	208.45	39.59	-88.93	-2,215.89	-6,063.48	2,244.06	2,008.55	235.51	9.528		
13,400.00	6,957.02	7,047.32	6,916.61	211.72	39.59	-88.94	-2,215.90	-6,063.49	2,222.99	1,982.13	240.86	9.229		
13,500.00	6,955.78	7,047.87	6,917.16	214.99	39.59	-88.96	-2,215.91	-6,063.50	2,206.26	1,960.33	245.93	8.971		
13,600.00	6,954.55	7,048.41	6,917.71	218.27	39.59	-88.97	-2,215.92	-6,063.51	2,193.97	1,943.31	250.66	8.753		
13,700.00	6,953.32	7,048.95	6,918.24	221.54	39.59	-88.99	-2,215.93	-6,063.52	2,186.18	1,931.17	255.01	8.573		
13,800.00	6,952.08	7,049.48	6,918.77	224.82	39.60	-89.00	-2,215.94	-6,063.53	2,182.95	1,924.01	258.94	8.430		
13,820.53	6,951.83	7,049.59	6,918.88	225.49	39.60	-89.00	-2,215.94	-6,063.53	2,182.86	1,923.16	259.69	8.406 CC		
13,900.00	6,950.85	7,050.00	6,919.30	228.10	39.60	-89.01	-2,215.94	-6,063.54	2,184.30	1,921.88	262.42	8.324 ES		
14,000.00	6,949.61	7,050.52	6,919.82	231.37	39.60	-89.03	-2,215.95	-6,063.54	2,190.22	1,924.79	265.43	8.252		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	7,051.03	6,920.33	234.65	39.60	-89.04	-2,215.96	-6,063.55	2,200.67	1,932.72	267.95	8.213		
14,200.00	6,947.15	7,051.54	6,920.83	237.93	39.60	-89.06	-2,215.97	-6,063.56	2,215.60	1,945.62	269.98	8.207 SF		
14,300.00	6,945.91	7,052.04	6,921.33	241.22	39.60	-89.07	-2,215.98	-6,063.57	2,234.89	1,963.37	271.52	8.231		
14,400.00	6,944.68	7,052.53	6,921.82	244.50	39.61	-89.08	-2,215.99	-6,063.58	2,258.46	1,985.87	272.59	8.285		
14,500.00	6,943.45	7,053.02	6,922.31	247.78	39.61	-89.09	-2,216.00	-6,063.58	2,286.16	2,012.96	273.21	8.368		
14,600.00	6,942.21	7,053.50	6,922.79	251.07	39.61	-89.11	-2,216.01	-6,063.59	2,317.85	2,044.45	273.40	8.478		
14,700.00	6,940.98	7,053.97	6,923.27	254.35	39.61	-89.12	-2,216.02	-6,063.60	2,353.36	2,080.17	273.19	8.614		
14,800.00	6,939.74	7,054.45	6,923.74	257.64	39.61	-89.13	-2,216.02	-6,063.61	2,392.53	2,119.90	272.63	8.776		
14,900.00	6,938.51	7,054.91	6,924.20	260.92	39.61	-89.14	-2,216.03	-6,063.61	2,435.18	2,163.44	271.74	8.961		
15,000.00	6,937.28	7,055.37	6,924.66	264.21	39.61	-89.16	-2,216.04	-6,063.62	2,481.13	2,210.56	270.57	9.170		
15,100.00	6,936.04	7,055.82	6,925.11	267.50	39.62	-89.17	-2,216.05	-6,063.63	2,530.19	2,261.05	269.14	9.401		
15,200.00	6,934.81	7,056.27	6,925.56	270.79	39.62	-89.18	-2,216.06	-6,063.64	2,582.20	2,314.70	267.50	9.653		
15,300.00	6,933.58	7,056.71	6,926.01	274.08	39.62	-89.19	-2,216.06	-6,063.64	2,636.98	2,371.29	265.69	9.925		
15,400.00	6,932.34	7,057.15	6,926.44	277.37	39.62	-89.20	-2,216.07	-6,063.65	2,694.35	2,430.64	263.72	10.217		
15,500.00	6,931.11	7,057.59	6,926.88	280.66	39.62	-89.21	-2,216.08	-6,063.66	2,754.17	2,492.54	261.63	10.527		
15,589.88	6,930.00	7,057.97	6,927.26	283.62	39.62	-89.22	-2,216.09	-6,063.66	2,809.88	2,550.21	259.67	10.821		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	10.30	10.30	3.28	3.28	-104.02	-1,361.51	-5,451.98	5,619.41					
100.00	100.00	154.39	154.39	3.28	3.31	-104.02	-1,361.43	-5,450.89	5,618.56	5,611.96	6.60	851.855		
200.00	200.00	242.64	242.64	3.34	3.38	-104.02	-1,361.39	-5,450.20	5,617.79	5,611.07	6.72	835.990		
219.14	219.14	260.63	260.62	3.35	3.40	-177.17	-1,361.39	-5,450.07	5,617.72	5,610.97	6.76	831.530		
300.00	299.98	331.76	331.75	3.44	3.50	-177.17	-1,361.41	-5,449.63	5,618.91	5,611.98	6.94	809.711		
400.00	399.84	415.71	415.70	3.60	3.64	-177.17	-1,361.42	-5,449.34	5,623.81	5,616.57	7.24	776.941		
500.00	499.45	515.49	515.48	3.81	3.84	-177.17	-1,361.35	-5,449.16	5,632.32	5,624.68	7.65	736.402		
600.00	598.70	624.50	624.49	4.08	4.10	-177.16	-1,361.16	-5,448.81	5,644.14	5,635.98	8.16	691.873		
700.00	697.47	709.17	709.16	4.40	4.33	-177.15	-1,361.10	-5,448.60	5,659.51	5,650.84	8.67	652.939		
774.77	770.92	774.77	774.76	4.68	4.52	-177.14	-1,361.11	-5,448.55	5,673.38	5,664.30	9.09	624.321		
800.00	795.65	796.84	796.83	4.78	4.58	-177.15	-1,361.13	-5,448.55	5,678.41	5,669.18	9.24	614.875		
900.00	893.64	863.14	863.13	5.20	4.78	-177.16	-1,361.43	-5,448.69	5,698.63	5,688.87	9.76	583.858		
1,000.00	991.63	900.00	899.98	5.66	4.90	-177.16	-1,361.85	-5,448.88	5,719.51	5,709.30	10.22	559.734		
1,100.00	1,089.63	952.36	952.32	6.15	5.07	-177.18	-1,363.13	-5,449.47	5,741.25	5,730.50	10.75	534.216		
1,200.00	1,187.62	1,000.00	999.90	6.65	5.24	-177.20	-1,365.28	-5,450.48	5,764.11	5,752.83	11.27	511.239		
1,300.00	1,285.62	1,029.46	1,029.30	7.17	5.35	-177.22	-1,367.06	-5,451.30	5,787.91	5,776.15	11.76	492.259		
1,400.00	1,383.61	1,072.39	1,072.09	7.71	5.51	-177.25	-1,370.25	-5,452.69	5,812.66	5,800.36	12.30	472.618		
1,500.00	1,481.60	1,100.00	1,099.57	8.25	5.62	-177.28	-1,372.66	-5,453.70	5,838.35	5,825.56	12.79	456.597		
1,600.00	1,579.60	1,160.10	1,159.29	8.80	5.89	-177.34	-1,378.96	-5,456.20	5,864.82	5,851.39	13.43	436.733		
1,700.00	1,677.59	1,200.00	1,198.83	9.36	6.07	-177.39	-1,383.92	-5,458.06	5,892.20	5,878.21	13.99	421.232		
1,800.00	1,775.59	1,259.32	1,257.49	9.92	6.37	-177.47	-1,392.23	-5,461.05	5,920.33	5,905.67	14.66	403.848		
1,900.00	1,873.58	1,300.00	1,297.63	10.49	6.57	-177.53	-1,398.48	-5,463.22	5,949.17	5,933.93	15.24	390.264		
2,000.00	1,971.57	1,349.91	1,346.77	11.06	6.85	-177.60	-1,406.76	-5,466.15	5,978.81	5,962.92	15.89	376.252		
2,100.00	2,069.57	1,400.00	1,395.93	11.64	7.13	-177.69	-1,415.74	-5,469.49	6,009.39	5,992.85	16.54	363.314		
2,200.00	2,167.56	1,460.93	1,455.58	12.22	7.50	-177.79	-1,427.44	-5,473.73	6,040.63	6,023.36	17.27	349.823		
2,300.00	2,265.56	1,527.91	1,520.98	12.80	7.91	-177.92	-1,441.11	-5,478.30	6,072.19	6,054.15	18.04	336.614		
2,400.00	2,363.55	1,580.72	1,572.42	13.38	8.25	-178.02	-1,452.48	-5,482.07	6,104.37	6,085.63	18.73	325.834		
2,500.00	2,461.54	1,655.71	1,645.21	13.97	8.74	-178.18	-1,469.61	-5,487.57	6,137.11	6,117.52	19.59	313.351		
2,600.00	2,559.54	1,722.47	1,709.75	14.55	9.20	-178.33	-1,486.06	-5,492.20	6,170.09	6,149.69	20.40	302.434		
2,700.00	2,657.53	1,767.58	1,753.14	15.14	9.53	-178.43	-1,497.95	-5,495.42	6,203.76	6,182.68	21.09	294.225		
2,800.00	2,755.53	1,800.00	1,784.21	15.73	9.77	-178.51	-1,506.90	-5,497.82	6,238.23	6,216.55	21.68	287.803		
2,900.00	2,853.52	1,854.19	1,835.93	16.32	10.20	-178.65	-1,522.52	-5,502.05	6,273.43	6,250.98	22.45	279.468		
3,000.00	2,951.52	1,900.00	1,879.44	16.91	10.56	-178.77	-1,536.32	-5,505.86	6,309.44	6,286.28	23.15	272.509		
3,100.00	3,049.51	1,941.44	1,918.64	17.51	10.93	-178.89	-1,549.29	-5,509.45	6,346.20	6,322.36	23.84	266.168		
3,200.00	3,147.50	2,000.00	1,973.72	18.10	11.44	-179.05	-1,568.45	-5,514.71	6,383.72	6,359.05	24.67	258.721		
3,300.00	3,245.50	2,039.06	2,010.27	18.70	11.81	-179.17	-1,581.73	-5,518.29	6,421.87	6,396.51	25.36	253.234		
3,400.00	3,343.49	2,100.00	2,067.02	19.29	12.38	-179.35	-1,603.23	-5,523.89	6,460.61	6,434.37	26.24	246.205		
3,500.00	3,441.49	2,140.16	2,104.24	19.89	12.78	-179.48	-1,617.83	-5,527.65	6,499.98	6,473.03	26.95	241.212		
3,600.00	3,539.48	2,200.00	2,159.48	20.48	13.39	-179.67	-1,640.09	-5,533.54	6,540.09	6,512.25	27.84	234.915		
3,700.00	3,637.47	2,226.24	2,183.61	21.08	13.67	-179.75	-1,650.03	-5,536.23	6,580.83	6,552.41	28.41	231.608		
3,800.00	3,735.47	2,266.50	2,220.53	21.68	14.10	-179.88	-1,665.49	-5,540.51	6,622.34	6,593.21	29.12	227.384		
3,900.00	3,833.46	2,300.00	2,251.16	22.27	14.45	-179.99	-1,678.56	-5,544.22	6,664.58	6,634.82	29.76	223.940		
4,000.00	3,931.46	2,348.92	2,295.72	22.87	15.01	179.85	-1,697.93	-5,549.86	6,707.51	6,676.94	30.57	219.407		
4,100.00	4,029.45	2,400.00	2,342.07	23.47	15.59	179.68	-1,718.53	-5,555.99	6,751.14	6,719.74	31.40	215.001		
4,200.00	4,127.44	2,443.18	2,381.08	24.07	16.11	179.53	-1,736.25	-5,561.30	6,795.38	6,763.22	32.16	211.294		
4,300.00	4,225.44	2,500.00	2,432.22	24.67	16.79	179.34	-1,760.01	-5,568.31	6,840.12	6,807.05	33.07	206.843		
4,400.00	4,323.43	2,536.69	2,465.07	25.27	17.27	179.22	-1,775.70	-5,572.89	6,885.46	6,851.69	33.77	203.879		
4,507.81	4,429.08	2,576.81	2,500.77	25.92	17.79	179.08	-1,793.27	-5,578.00	6,935.12	6,900.59	34.53	200.840		
4,600.00	4,519.70	2,614.88	2,534.45	26.45	18.29	178.96	-1,810.31	-5,582.94	6,976.91	6,941.69	35.22	198.071		
4,700.00	4,618.56	2,665.70	2,579.24	26.98	18.99	178.80	-1,833.38	-5,589.65	7,019.79	6,983.69	36.10	194.442		
4,800.00	4,717.88	2,743.79	2,647.85	27.46	20.08	178.54	-1,869.15	-5,600.13	7,060.02	7,022.70	37.32	189.191		
4,900.00	4,817.54	4,900.00	2,770.64	27.89	48.88	178.11	-1,930.84	-5,618.76	7,096.64	7,035.72	60.92	116.495		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	2,952.53	2,833.08	28.28	22.87	177.92	-1,961.16	-5,628.34	7,129.98	7,089.68	40.30	176.927		
5,082.58	5,000.00	3,000.00	2,875.34	28.57	23.49	-109.06	-1,981.67	-5,635.16	7,155.56	7,114.54	41.02	174.440		
5,100.00	5,017.42	3,000.00	2,875.34	28.62	23.49	-109.06	-1,981.67	-5,635.16	7,160.76	7,119.71	41.05	174.446		
5,200.00	5,117.42	3,326.06	3,169.84	28.95	27.43	-109.97	-2,113.94	-5,680.61	7,188.61	7,143.73	44.88	160.166		
5,300.00	5,217.42	3,700.00	3,514.28	29.28	31.15	-110.92	-2,253.01	-5,723.03	7,211.92	7,163.19	48.73	147.987		
5,400.00	5,317.42	3,737.93	3,549.21	29.62	31.53	-111.02	-2,267.32	-5,726.71	7,235.90	7,186.58	49.31	146.737		
5,500.00	5,417.42	3,763.92	3,572.98	29.96	31.79	-111.09	-2,277.48	-5,729.37	7,260.87	7,211.11	49.77	145.901		
5,600.00	5,517.42	3,800.00	3,605.76	30.29	32.16	-111.19	-2,292.05	-5,733.25	7,286.84	7,236.52	50.32	144.822		
5,700.00	5,617.42	3,826.98	3,630.16	30.64	32.47	-111.26	-2,303.19	-5,736.27	7,313.66	7,262.87	50.79	143.990		
5,800.00	5,717.42	3,872.35	3,671.08	30.98	32.99	-111.39	-2,322.05	-5,741.51	7,341.24	7,289.77	51.47	142.637		
5,900.00	5,817.42	3,923.78	3,717.35	31.33	33.59	-111.54	-2,343.64	-5,747.68	7,369.50	7,317.29	52.21	141.142		
6,000.00	5,917.42	3,984.92	3,772.24	31.68	34.33	-111.71	-2,369.49	-5,755.19	7,398.31	7,345.23	53.07	139.397		
6,100.00	6,017.42	4,228.71	3,992.74	32.03	37.11	-112.36	-2,469.06	-5,784.80	7,426.52	7,370.62	55.90	132.856		
6,200.00	6,117.42	4,272.88	4,033.20	32.38	37.58	-112.47	-2,485.88	-5,790.45	7,454.18	7,397.66	56.52	131.889		
6,300.00	6,217.42	4,318.86	4,075.24	32.74	38.08	-112.58	-2,503.44	-5,796.63	7,482.54	7,425.38	57.16	130.909		
6,400.00	6,317.42	4,367.73	4,119.83	33.09	38.63	-112.70	-2,522.23	-5,803.44	7,511.53	7,453.70	57.83	129.886		
6,476.01	6,393.43	4,410.98	4,159.22	33.37	39.12	-112.80	-2,538.99	-5,809.63	7,533.99	7,475.58	58.41	128.988		
6,500.00	6,417.42	4,438.10	4,183.89	33.45	39.44	-20.32	-2,549.60	-5,813.48	7,540.71	7,481.97	58.73	128.391		
6,550.00	6,467.25	4,494.80	4,235.36	33.59	40.09	-20.10	-2,572.04	-5,821.33	7,552.04	7,492.65	59.39	127.158		
6,600.00	6,516.64	4,539.09	4,275.48	33.71	40.61	-19.99	-2,589.83	-5,827.28	7,559.77	7,499.86	59.91	126.184		
6,650.00	6,565.26	4,581.80	4,314.09	33.80	41.11	-19.99	-2,607.21	-5,832.92	7,563.90	7,503.50	60.40	125.231		
6,700.00	6,612.83	4,617.02	4,345.85	33.88	41.53	-20.09	-2,621.71	-5,837.50	7,564.43	7,503.63	60.80	124.419		
6,750.00	6,659.04	4,646.41	4,372.30	33.94	41.89	-20.28	-2,633.96	-5,841.29	7,561.42	7,500.30	61.12	123.710		
6,800.00	6,703.62	4,675.04	4,398.01	33.99	42.23	-20.60	-2,646.01	-5,844.99	7,554.91	7,493.49	61.42	122.997		
6,850.00	6,746.28	4,700.00	4,420.37	34.03	42.54	-21.02	-2,656.62	-5,848.19	7,544.94	7,483.26	61.67	122.341		
6,900.00	6,786.76	4,732.49	4,449.46	34.08	42.94	-21.61	-2,670.45	-5,852.42	7,531.55	7,469.56	62.00	121.479		
6,950.00	6,824.83	4,760.86	4,474.89	34.13	43.29	-22.34	-2,682.46	-5,856.19	7,514.84	7,452.57	62.27	120.680		
7,000.00	6,860.23	4,787.98	4,499.20	34.20	43.63	-23.23	-2,693.89	-5,859.87	7,494.90	7,432.38	62.52	119.876		
7,050.00	6,892.75	4,800.00	4,509.99	34.30	43.78	-24.23	-2,698.94	-5,861.52	7,471.86	7,409.27	62.60	119.365		
7,100.00	6,922.20	4,828.22	4,535.28	34.43	44.14	-25.55	-2,710.81	-5,865.45	7,445.85	7,382.99	62.86	118.448		
7,150.00	6,948.38	4,844.80	4,550.12	34.60	44.35	-27.06	-2,717.83	-5,867.77	7,417.05	7,354.06	62.99	117.743		
7,200.00	6,971.15	4,859.87	4,563.60	34.82	44.55	-28.87	-2,724.24	-5,869.90	7,385.61	7,322.50	63.11	117.021		
7,250.00	6,990.35	4,873.37	4,575.65	35.09	44.72	-31.05	-2,730.00	-5,871.82	7,351.72	7,288.50	63.22	116.281		
7,300.00	7,005.87	4,900.00	4,599.41	35.43	45.06	-33.82	-2,741.42	-5,875.63	7,315.59	7,252.09	63.50	115.208		
7,350.00	7,017.62	4,900.00	4,599.41	35.81	45.06	-36.92	-2,741.42	-5,875.63	7,277.35	7,213.87	63.48	114.643		
7,400.00	7,025.52	4,905.51	4,604.31	36.26	45.13	-40.76	-2,743.79	-5,876.42	7,237.29	7,173.75	63.54	113.903		
7,450.00	7,029.52	4,915.42	4,613.15	36.75	45.26	-45.53	-2,748.05	-5,877.85	7,195.62	7,131.95	63.67	113.013		
7,483.86	7,030.00	4,920.48	4,617.66	37.12	45.33	-49.34	-2,750.22	-5,878.58	7,166.61	7,102.85	63.75	112.411		
7,500.00	7,029.80	4,922.57	4,619.52	37.30	45.36	-49.37	-2,751.12	-5,878.88	7,152.64	7,088.85	63.79	112.125		
7,600.00	7,028.57	4,935.57	4,631.11	38.58	45.53	-49.57	-2,756.70	-5,880.77	7,066.32	7,002.26	64.06	110.311		
7,700.00	7,027.34	4,948.68	4,642.80	40.10	45.70	-49.77	-2,762.32	-5,882.69	6,980.33	6,915.94	64.40	108.395		
7,800.00	7,026.10	4,961.90	4,654.59	41.83	45.88	-49.97	-2,767.98	-5,884.62	6,894.69	6,829.88	64.81	106.381		
7,900.00	7,024.87	4,975.24	4,666.49	43.74	46.05	-50.17	-2,773.68	-5,886.59	6,809.42	6,744.11	65.30	104.273		
8,000.00	7,023.63	4,988.68	4,678.48	45.82	46.23	-50.38	-2,779.43	-5,888.58	6,724.52	6,658.64	65.88	102.078		
8,100.00	7,022.40	5,288.56	4,947.73	48.04	49.85	-55.07	-2,905.77	-5,926.64	6,639.48	6,569.54	69.93	94.939		
8,200.00	7,021.17	8,200.00	4,935.49	50.38	82.51	-54.86	-2,900.05	-5,925.11	6,554.74	6,459.25	95.49	68.643		
8,300.00	7,019.93	5,352.39	5,005.71	52.82	50.54	-56.09	-2,931.48	-5,933.82	6,470.45	6,398.49	71.96	89.919		
8,400.00	7,018.70	5,383.22	5,033.79	55.35	50.87	-56.58	-2,943.71	-5,937.26	6,386.51	6,313.42	73.09	87.374		
8,500.00	7,017.47	5,413.63	5,061.56	57.97	51.19	-57.07	-2,955.66	-5,940.64	6,303.00	6,228.68	74.32	84.812		
8,600.00	7,016.23	8,600.00	5,036.33	60.65	85.14	-56.63	-2,944.72	-5,937.55	6,219.95	6,119.22	100.73	61.746		
8,700.00	7,015.00	8,700.00	5,046.97	63.39	86.21	-56.82	-2,949.38	-5,938.86	6,137.44	6,034.97	102.47	59.896		
8,800.00	7,013.76	5,422.48	5,069.63	66.19	51.29	-57.22	-2,959.12	-5,941.67	6,055.36	5,977.82	77.55	78.085		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	5,429.33	5,075.89	69.03	51.36	-57.33	-2,961.80	-5,942.47	5,973.86	5,895.02	78.84	75.773		
9,000.00	7,011.30	5,436.35	5,082.30	71.91	51.43	-57.44	-2,964.54	-5,943.30	5,892.91	5,812.69	80.21	73.464		
9,100.00	7,010.06	5,443.54	5,088.87	74.83	51.51	-57.55	-2,967.34	-5,944.16	5,812.54	5,730.86	81.68	71.167		
9,200.00	7,008.83	5,450.91	5,095.59	77.78	51.59	-57.67	-2,970.21	-5,945.05	5,732.76	5,649.54	83.22	68.887		
9,300.00	7,007.60	5,458.45	5,102.49	80.76	51.67	-57.79	-2,973.14	-5,945.97	5,653.62	5,568.77	84.85	66.631		
9,400.00	7,006.36	5,466.19	5,109.55	83.76	51.75	-57.92	-2,976.14	-5,946.93	5,575.13	5,488.56	86.56	64.404		
9,500.00	7,005.13	5,474.12	5,116.79	86.79	51.84	-58.05	-2,979.22	-5,947.93	5,497.32	5,408.95	88.36	62.212		
9,600.00	7,003.90	5,482.25	5,124.22	89.84	51.92	-58.18	-2,982.36	-5,948.96	5,420.22	5,329.97	90.25	60.060		
9,700.00	7,002.66	5,500.00	5,140.43	92.90	52.11	-58.46	-2,989.21	-5,951.27	5,343.86	5,251.52	92.35	57.868		
9,800.00	7,001.43	5,500.00	5,140.43	95.99	52.11	-58.46	-2,989.21	-5,951.27	5,268.26	5,173.98	94.28	55.878		
9,900.00	7,000.19	5,500.00	5,140.43	99.08	52.11	-58.46	-2,989.21	-5,951.27	5,193.47	5,097.18	96.30	53.933		
10,000.00	6,998.96	5,517.77	5,156.66	102.19	52.31	-58.75	-2,996.06	-5,953.63	5,119.51	5,020.86	98.65	51.898		
10,100.00	6,997.73	5,527.29	5,165.35	105.32	52.42	-58.91	-2,999.74	-5,954.91	5,046.42	4,945.46	100.96	49.983		
10,200.00	6,996.49	5,536.95	5,174.16	108.45	52.53	-59.06	-3,003.46	-5,956.21	4,974.25	4,870.88	103.37	48.123		
10,300.00	6,995.26	5,546.74	5,183.10	111.60	52.64	-59.22	-3,007.24	-5,957.55	4,903.02	4,797.17	105.85	46.318		
10,400.00	6,994.03	5,573.96	5,360.85	114.75	54.65	-62.35	-3,076.39	-5,984.70	4,832.51	4,721.42	111.09	43.499		
10,500.00	6,992.79	5,746.71	5,367.61	117.92	54.72	-62.47	-3,078.78	-5,985.78	4,762.75	4,649.00	113.76	41.868		
10,600.00	6,991.56	5,754.13	5,374.52	121.09	54.79	-62.59	-3,081.22	-5,986.90	4,694.07	4,577.56	116.51	40.290		
10,700.00	6,990.33	5,761.70	5,381.58	124.27	54.87	-62.71	-3,083.72	-5,988.05	4,626.50	4,507.16	119.35	38.765		
10,800.00	6,989.09	5,769.46	5,388.80	127.46	54.94	-62.84	-3,086.29	-5,989.25	4,560.10	4,437.83	122.28	37.293		
10,900.00	6,987.86	5,777.39	5,396.18	130.65	55.02	-62.97	-3,088.92	-5,990.49	4,494.92	4,369.62	125.30	35.874		
11,000.00	6,986.62	5,800.00	5,417.20	133.85	55.24	-63.34	-3,096.44	-5,994.09	4,431.05	4,302.42	128.63	34.448		
11,100.00	6,985.39	5,800.00	5,417.20	137.06	55.24	-63.34	-3,096.44	-5,994.09	4,368.42	4,236.71	131.71	33.168		
11,200.00	6,984.16	5,809.36	5,425.89	140.27	55.33	-63.49	-3,099.55	-5,995.60	4,307.20	4,172.18	135.02	31.901		
11,300.00	6,982.92	5,844.42	5,458.50	143.48	55.69	-64.07	-3,111.06	-6,001.35	4,247.35	4,108.53	138.82	30.596		
11,400.00	6,981.69	5,880.48	5,492.13	146.70	56.05	-64.66	-3,122.65	-6,007.35	4,188.89	4,046.15	142.74	29.346		
11,500.00	6,980.46	5,917.60	5,526.80	149.92	56.43	-65.27	-3,134.30	-6,013.63	4,131.87	3,985.09	146.78	28.150		
11,600.00	6,979.22	5,960.00	5,568.04	153.15	56.84	-65.94	-3,146.13	-6,020.32	4,076.53	3,929.50	151.03	27.001		
11,700.00	6,977.99	5,923.72	5,532.49	156.38	56.50	-65.37	-3,136.27	-6,014.73	4,022.76	3,868.73	154.03	26.116		
11,800.00	6,976.75	5,933.81	5,541.90	159.62	56.60	-65.53	-3,139.45	-6,016.51	3,970.79	3,812.89	157.90	25.147		
11,900.00	6,975.52	5,944.20	5,551.58	162.86	56.71	-65.70	-3,142.74	-6,018.37	3,920.63	3,758.78	161.86	24.222		
12,000.00	6,974.29	5,954.90	5,561.54	166.10	56.82	-65.88	-3,146.13	-6,020.32	3,872.36	3,706.46	165.90	23.341		
12,100.00	6,973.05	5,965.93	5,571.80	169.34	56.94	-66.06	-3,149.63	-6,022.36	3,826.04	3,656.01	170.03	22.502		
12,200.00	6,971.82	5,977.30	5,582.37	172.59	57.06	-66.25	-3,153.24	-6,024.49	3,781.74	3,607.50	174.25	21.704		
12,300.00	6,970.59	6,000.00	5,603.44	175.84	57.30	-66.62	-3,160.48	-6,028.84	3,739.56	3,560.82	178.74	20.922		
12,400.00	6,969.35	6,000.00	5,603.44	179.09	57.30	-66.62	-3,160.48	-6,028.84	3,699.49	3,516.61	182.88	20.229		
12,500.00	6,968.12	6,000.00	5,603.44	182.35	57.30	-66.62	-3,160.48	-6,028.84	3,661.71	3,474.65	187.06	19.575		
12,600.00	6,966.89	6,000.00	5,603.44	185.60	57.30	-66.62	-3,160.48	-6,028.84	3,626.29	3,435.01	191.29	18.957		
12,700.00	6,965.65	6,025.29	5,626.85	188.86	57.60	-67.03	-3,168.66	-6,033.81	3,593.10	3,397.02	196.08	18.324		
12,800.00	6,964.42	6,033.70	5,634.61	192.12	57.70	-67.17	-3,171.43	-6,035.48	3,562.45	3,361.89	200.56	17.762		
12,900.00	6,963.18	6,042.21	5,642.46	195.38	57.81	-67.31	-3,174.25	-6,037.19	3,534.32	3,329.25	205.07	17.235		
13,000.00	6,961.95	6,050.84	5,650.40	198.65	57.91	-67.46	-3,177.14	-6,038.93	3,508.77	3,299.18	209.59	16.741		
13,100.00	6,960.72	6,059.59	5,658.44	201.91	58.02	-67.60	-3,180.10	-6,040.70	3,485.85	3,271.73	214.12	16.280		
13,200.00	6,959.48	6,068.46	5,666.58	205.18	58.12	-67.74	-3,183.12	-6,042.51	3,465.61	3,246.98	218.63	15.851		
13,300.00	6,958.25	6,100.00	5,695.43	208.45	58.50	-68.26	-3,194.07	-6,049.03	3,448.27	3,224.59	223.68	15.416		
13,400.00	6,957.02	6,100.00	5,695.43	211.72	58.50	-68.26	-3,194.07	-6,049.03	3,433.42	3,205.51	227.92	15.064		
13,500.00	6,955.78	13,500.00	5,740.78	214.99	151.84	-69.08	-3,210.68	-6,059.18	3,421.08	3,136.67	284.41	12.029 ES, SF		
13,600.00	6,954.55	6,235.38	5,820.12	218.27	60.10	-70.50	-3,239.09	-6,076.43	3,411.60	3,117.91	239.68	14.234		
13,700.00	6,953.32	6,256.68	5,839.93	221.54	60.32	-70.85	-3,245.93	-6,080.20	3,404.54	3,160.23	244.31	13.936		
13,800.00	6,952.08	6,275.38	5,857.37	224.82	60.52	-71.16	-3,251.93	-6,083.30	3,400.30	3,151.53	248.77	13.668		
13,898.10	6,950.87	6,291.63	5,872.55	228.03	60.69	-71.43	-3,257.15	-6,085.83	3,398.92	3,145.93	252.99	13.435 CC		
13,900.00	6,950.85	6,291.93	5,872.83	228.10	60.69	-71.44	-3,257.25	-6,085.88	3,398.92	3,145.85	253.07	13.431		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Boomerang 21-5 - SOUTH #6-24D - OH - OH		Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS														Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
14,000.00	6,949.61	6,306.68	5,886.63	231.37	60.85	-71.68	-3,261.98	-6,088.04	3,400.42	3,143.22	257.20	13.221			
14,100.00	6,948.38	6,316.22	5,895.55	234.65	60.93	-71.84	-3,265.06	-6,089.46	3,404.80	3,143.78	261.02	13.044			
14,200.00	6,947.15	6,327.28	5,905.89	237.93	61.04	-72.02	-3,268.63	-6,091.07	3,412.06	3,147.33	264.73	12.889			
14,300.00	6,945.91	6,338.32	5,916.21	241.22	61.14	-72.21	-3,272.21	-6,092.69	3,422.18	3,153.91	268.26	12.757			
14,400.00	6,944.68	6,349.36	5,926.53	244.50	61.25	-72.39	-3,275.81	-6,094.31	3,435.13	3,163.51	271.62	12.647			
14,500.00	6,943.45	6,360.40	5,936.83	247.78	61.35	-72.58	-3,279.41	-6,095.92	3,450.89	3,176.10	274.79	12.558			
14,600.00	6,942.21	6,371.42	5,947.13	251.07	61.46	-72.76	-3,283.02	-6,097.53	3,469.41	3,191.65	277.76	12.491			
14,700.00	6,940.98	6,382.44	5,957.41	254.35	61.56	-72.94	-3,286.63	-6,099.14	3,490.65	3,210.12	280.54	12.443			
14,800.00	6,939.74	6,393.46	5,967.68	257.64	61.67	-73.13	-3,290.26	-6,100.75	3,514.57	3,231.45	283.12	12.414			
14,900.00	6,938.51	6,400.00	5,973.79	260.92	61.73	-73.24	-3,292.42	-6,101.70	3,541.11	3,255.74	285.36	12.409			
15,000.00	6,937.28	6,400.00	5,973.79	264.21	61.73	-73.24	-3,292.42	-6,101.70	3,570.24	3,283.02	287.22	12.430			
15,100.00	6,936.04	6,421.30	5,993.65	267.50	61.93	-73.59	-3,299.49	-6,104.75	3,601.81	3,312.30	289.51	12.441			
15,200.00	6,934.81	6,429.74	6,001.51	270.79	62.01	-73.73	-3,302.30	-6,105.93	3,635.86	3,344.63	291.23	12.485			
15,300.00	6,933.58	6,437.93	6,009.16	274.08	62.09	-73.87	-3,305.04	-6,107.06	3,672.28	3,379.53	292.75	12.544			
15,400.00	6,932.34	6,445.91	6,016.59	277.37	62.16	-74.00	-3,307.71	-6,108.14	3,711.01	3,416.92	294.09	12.619			
15,500.00	6,931.11	6,453.66	6,023.82	280.66	62.24	-74.13	-3,310.31	-6,109.18	3,751.98	3,456.74	295.25	12.708			
15,589.88	6,930.00	6,460.46	6,030.16	283.62	62.30	-74.24	-3,312.60	-6,110.07	3,790.66	3,494.52	296.14	12.800			

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	23.49	2,300.95	999.83	2,508.85					
100.00	100.00	79.32	79.32	3.28	3.28	23.49	2,300.96	999.90	2,508.83	2,502.26	6.57	381.914		
200.00	200.00	179.71	179.71	3.34	3.33	23.49	2,301.01	1,000.09	2,508.95	2,502.28	6.66	376.509		
300.00	299.98	278.58	278.58	3.44	3.42	-49.70	2,301.06	1,000.21	2,507.92	2,501.05	6.87	365.247		
400.00	399.84	376.94	376.94	3.60	3.57	-49.84	2,301.22	1,000.27	2,504.70	2,497.53	7.17	349.412		
500.00	499.45	475.33	475.32	3.81	3.75	-50.08	2,301.51	1,000.15	2,499.30	2,491.74	7.56	330.444		
600.00	598.70	571.53	571.53	4.08	3.97	-50.41	2,301.89	999.97	2,491.77	2,483.73	8.04	309.964		
700.00	697.47	671.42	671.42	4.40	4.22	-50.85	2,302.44	999.63	2,482.15	2,473.55	8.60	288.538		
774.77	770.92	747.73	747.73	4.68	4.44	-51.25	2,302.82	999.26	2,473.50	2,464.42	9.08	272.456		
800.00	795.65	773.51	773.51	4.78	4.51	-51.35	2,302.93	999.11	2,470.36	2,461.11	9.25	267.112		
900.00	893.64	871.56	871.55	5.20	4.81	-51.73	2,303.31	998.56	2,457.96	2,448.02	9.94	247.324		
1,000.00	991.63	967.75	967.74	5.66	5.12	-52.09	2,303.68	998.16	2,445.71	2,435.04	10.67	229.231		
1,100.00	1,089.63	1,306.76	1,306.27	6.15	6.35	-53.25	2,289.36	998.30	2,431.42	2,419.15	12.27	198.134		
1,200.00	1,187.62	1,487.80	1,486.04	6.65	7.17	-53.81	2,268.12	996.60	2,408.24	2,394.86	13.38	179.979		
1,300.00	1,285.62	1,809.78	1,801.79	7.17	8.97	-54.57	2,206.01	997.03	2,378.10	2,363.06	15.04	158.131		
1,400.00	1,383.61	1,921.60	1,910.14	7.71	9.69	-54.77	2,178.40	998.20	2,343.85	2,327.88	15.97	146.750		
1,500.00	1,481.60	2,071.30	2,054.46	8.25	10.69	-54.98	2,138.76	1,001.08	2,308.42	2,291.36	17.06	135.312		
1,600.00	1,579.60	2,218.63	2,195.44	8.80	11.72	-55.20	2,096.00	1,002.74	2,270.26	2,252.12	18.14	125.157		
1,700.00	1,677.59	2,456.36	2,419.40	9.36	13.58	-55.54	2,016.48	1,002.68	2,227.20	2,207.71	19.49	114.295		
1,800.00	1,775.59	2,720.97	2,662.08	9.92	16.04	-55.76	1,911.34	1,003.08	2,180.21	2,159.32	20.89	104.385		
1,900.00	1,873.58	2,806.72	2,739.04	10.49	16.93	-55.81	1,873.50	1,002.86	2,128.10	2,106.30	21.80	97.640		
2,000.00	1,971.57	2,841.03	2,770.07	11.06	17.25	-55.84	1,858.88	1,002.68	2,077.11	2,054.53	22.58	91.981		
2,100.00	2,069.57	2,900.00	2,824.11	11.64	17.80	-55.90	1,835.27	1,002.47	2,028.34	2,004.89	23.44	86.519		
2,200.00	2,167.56	3,023.88	2,937.26	12.22	18.93	-56.04	1,784.90	1,001.81	1,979.47	1,955.03	24.44	80.999		
2,300.00	2,265.56	3,099.38	3,005.83	12.80	19.64	-56.12	1,753.30	1,001.32	1,929.29	1,903.94	25.35	76.096		
2,400.00	2,363.55	3,153.90	3,055.65	13.38	20.12	-56.19	1,731.13	1,000.80	1,880.10	1,853.86	26.24	71.654		
2,500.00	2,461.54	3,219.22	3,115.87	13.97	20.68	-56.32	1,705.88	999.65	1,832.39	1,805.24	27.15	67.502		
2,600.00	2,559.54	3,325.79	3,214.03	14.55	21.57	-56.55	1,664.45	997.34	1,784.42	1,756.32	28.10	63.512		
2,700.00	2,657.53	3,400.00	3,282.34	15.14	22.19	-56.73	1,635.52	995.18	1,736.22	1,707.20	29.02	59.830		
2,800.00	2,755.53	3,464.83	3,342.29	15.73	22.71	-56.91	1,610.91	993.31	1,689.00	1,659.06	29.95	56.401		
2,900.00	2,853.52	3,535.29	3,407.88	16.32	23.26	-57.11	1,585.25	991.91	1,643.33	1,612.44	30.89	53.207		
3,000.00	2,951.52	3,624.44	3,490.87	16.91	23.93	-57.33	1,552.71	991.01	1,597.93	1,566.09	31.84	50.191		
3,100.00	3,049.51	3,714.08	3,574.30	17.51	24.62	-57.56	1,519.92	990.47	1,552.61	1,519.81	32.80	47.342		
3,200.00	3,147.50	3,820.89	3,673.31	18.10	25.45	-57.79	1,479.84	990.74	1,506.69	1,472.94	33.75	44.641		
3,300.00	3,245.50	3,927.66	3,771.74	18.70	26.32	-58.01	1,438.48	991.28	1,459.75	1,425.05	34.70	42.064		
3,400.00	3,343.49	4,036.28	3,871.16	19.29	27.25	-58.20	1,394.74	992.36	1,411.55	1,375.91	35.64	39.603		
3,500.00	3,441.49	4,127.23	3,954.09	19.89	28.04	-58.41	1,357.41	992.32	1,362.38	1,325.78	36.60	37.220		
3,600.00	3,539.48	4,197.88	4,018.86	20.48	28.64	-58.64	1,329.21	991.37	1,313.90	1,276.29	37.62	34.930		
3,700.00	3,637.47	4,297.66	4,110.48	21.08	29.47	-59.02	1,289.73	989.36	1,265.60	1,227.08	38.52	32.852		
3,800.00	3,735.47	4,379.96	4,185.95	21.68	30.15	-59.37	1,256.95	987.56	1,217.05	1,177.55	39.50	30.812		
3,900.00	3,833.46	4,469.23	4,267.89	22.27	30.90	-59.79	1,221.61	985.45	1,168.71	1,128.26	40.44	28.899		
4,000.00	3,931.46	4,593.90	4,381.63	22.87	31.98	-60.45	1,170.69	981.78	1,119.25	1,078.10	41.15	27.199		
4,100.00	4,029.45	4,676.32	4,456.16	23.47	32.73	-60.94	1,135.64	978.75	1,068.02	1,025.90	42.12	25.357		
4,200.00	4,127.44	4,747.89	4,521.13	24.07	33.36	-61.43	1,105.77	975.97	1,017.55	974.37	43.18	23.566		
4,300.00	4,225.44	4,816.32	4,583.79	24.67	33.94	-61.98	1,078.41	973.00	968.64	924.36	44.28	21.875		
4,400.00	4,323.43	4,884.37	4,646.61	25.27	34.48	-62.57	1,052.39	970.42	921.58	876.17	45.40	20.298		
4,507.81	4,429.08	4,965.92	4,722.44	25.92	35.09	-63.30	1,022.48	968.13	872.77	826.20	46.56	18.744		
4,600.00	4,519.70	5,037.51	4,789.32	26.45	35.60	-63.09	996.97	966.71	832.82	785.27	47.55	17.516		
4,700.00	4,618.56	5,113.78	4,860.95	26.98	36.12	-62.77	970.82	965.43	792.29	743.68	48.62	16.297		
4,800.00	4,717.88	5,183.49	4,926.99	27.46	36.56	-62.33	948.51	964.85	755.61	705.88	49.73	15.195		
4,900.00	4,817.54	5,248.71	4,989.42	27.89	36.91	-61.80	929.65	964.84	723.64	672.83	50.82	14.240		
5,000.00	4,917.43	5,315.90	5,054.53	28.28	37.24	-61.26	913.10	964.88	697.34	645.53	51.82	13.458		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,378.62	5,115.80	28.57	37.50	12.38	899.67	964.82	679.46	626.93	52.54	12.933		
5,100.00	5,017.42	5,391.96	5,128.87	28.62	37.56	12.43	897.02	964.79	676.08	623.40	52.68	12.833		
5,200.00	5,117.42	5,471.58	5,207.18	28.95	37.85	12.67	882.65	964.44	658.34	604.85	53.48	12.309		
5,300.00	5,217.42	5,554.98	5,289.59	29.28	38.14	12.86	869.88	963.78	643.22	588.97	54.25	11.857		
5,400.00	5,317.42	5,643.12	5,376.96	29.62	38.42	13.03	858.28	962.99	630.17	575.17	54.99	11.459		
5,500.00	5,417.42	5,733.63	5,466.85	29.96	38.70	13.15	847.71	961.85	618.51	562.78	55.73	11.099		
5,600.00	5,517.42	5,822.06	5,554.82	30.29	38.97	13.20	838.92	960.41	608.46	552.03	56.44	10.781		
5,700.00	5,617.42	5,909.39	5,641.87	30.64	39.22	13.21	832.09	958.82	600.43	543.31	57.12	10.512		
5,800.00	5,717.42	6,003.36	5,735.63	30.98	39.48	13.15	826.19	956.87	593.85	536.02	57.83	10.270		
5,900.00	5,817.42	6,097.35	5,829.47	31.33	39.74	13.05	821.29	954.70	588.24	529.72	58.52	10.052		
6,000.00	5,917.42	6,189.19	5,921.21	31.68	40.00	12.92	817.63	952.49	583.82	524.63	59.19	9.863		
6,100.00	6,017.42	6,274.40	6,006.37	32.03	40.23	12.75	815.92	950.25	581.28	521.52	59.77	9.726		
6,152.00	6,069.42	6,319.47	6,051.42	32.21	40.35	12.62	815.97	948.95	581.01	520.95	60.06	9.674 CC		
6,200.00	6,117.42	6,362.66	6,094.59	32.38	40.47	12.51	816.38	947.92	581.20	520.86	60.34	9.632 ES		
6,300.00	6,217.42	6,459.85	6,191.76	32.74	40.73	12.32	818.06	946.32	582.54	521.51	61.02	9.546		
6,400.00	6,317.42	6,565.98	6,297.86	33.09	41.03	12.12	819.46	944.46	583.46	521.62	61.83	9.436		
6,476.01	6,393.43	6,638.91	6,370.78	33.37	41.23	11.97	819.89	943.04	583.60	521.25	62.35	9.360		
6,500.00	6,417.42	6,659.80	6,391.67	33.45	41.29	104.27	820.19	942.73	583.97	521.49	62.48	9.347		
6,550.00	6,467.25	6,704.23	6,436.08	33.59	41.41	104.37	821.15	942.23	585.86	523.12	62.73	9.339		
6,600.00	6,516.64	6,760.73	6,492.56	33.71	41.57	104.87	822.23	941.64	588.66	525.50	63.16	9.320		
6,650.00	6,565.26	6,816.49	6,548.32	33.80	41.73	105.72	822.65	940.90	592.02	528.45	63.57	9.313 SF		
6,700.00	6,612.83	6,864.84	6,596.67	33.88	41.87	106.68	822.72	940.45	596.46	532.56	63.90	9.335		
6,750.00	6,659.04	6,911.75	6,643.57	33.94	42.00	107.79	822.58	940.18	602.30	538.06	64.24	9.376		
6,800.00	6,703.62	6,953.55	6,685.38	33.99	42.12	108.81	822.59	939.89	610.08	545.52	64.55	9.451		
6,850.00	6,746.28	6,993.73	6,725.55	34.03	42.24	109.78	822.84	939.49	620.12	555.21	64.90	9.554		
6,900.00	6,786.76	7,033.45	6,765.27	34.08	42.36	110.71	823.29	938.96	632.59	567.28	65.31	9.686		
6,950.00	6,824.83	7,071.34	6,803.15	34.13	42.46	111.47	823.83	938.30	647.59	581.84	65.75	9.849		
7,000.00	6,860.23	7,106.89	6,838.69	34.20	42.57	112.00	824.43	937.56	665.28	599.05	66.23	10.045		
7,050.00	6,892.75	7,139.73	6,871.51	34.30	42.66	112.21	825.08	936.78	685.74	619.00	66.75	10.274		
7,100.00	6,922.20	7,169.79	6,901.55	34.43	42.75	112.04	825.73	936.00	709.02	641.73	67.29	10.537		
7,150.00	6,948.38	7,196.84	6,928.58	34.60	42.83	111.42	826.37	935.23	735.07	667.23	67.84	10.835		
7,200.00	6,971.15	7,220.04	6,951.77	34.82	42.90	110.22	826.97	934.55	763.81	695.42	68.40	11.167		
7,250.00	6,990.35	7,239.78	6,971.48	35.09	42.96	108.39	827.50	933.96	795.10	726.15	68.95	11.532		
7,300.00	7,005.87	7,256.01	6,987.70	35.43	43.01	105.86	827.96	933.48	828.72	759.24	69.48	11.927		
7,350.00	7,017.62	7,268.64	7,000.32	35.81	43.04	102.54	828.33	933.10	864.41	794.42	69.99	12.350		
7,400.00	7,025.52	7,277.59	7,009.27	36.26	43.07	98.37	828.60	932.83	901.88	831.41	70.47	12.798		
7,450.00	7,029.52	7,282.82	7,014.49	36.75	43.08	93.32	828.76	932.68	940.81	869.90	70.91	13.268		
7,483.86	7,030.00	7,284.21	7,015.88	37.12	43.09	89.43	828.80	932.64	967.83	896.64	71.19	13.595		
7,500.00	7,029.80	7,284.47	7,016.13	37.30	43.09	89.45	828.81	932.63	980.86	909.54	71.31	13.754		
7,600.00	7,028.57	7,286.04	7,017.70	38.58	43.09	89.61	828.86	932.58	1,063.50	991.44	72.06	14.759		
7,700.00	7,027.34	7,287.61	7,019.27	40.10	43.10	89.77	828.91	932.53	1,148.90	1,076.19	72.71	15.801		
7,800.00	7,026.10	7,289.18	7,020.84	41.83	43.10	89.92	828.96	932.49	1,236.49	1,163.20	73.29	16.872		
7,900.00	7,024.87	7,290.75	7,022.41	43.74	43.11	90.08	829.01	932.44	1,325.83	1,252.04	73.80	17.966		
8,000.00	7,023.63	7,292.33	7,023.99	45.82	43.11	90.24	829.06	932.39	1,416.60	1,342.36	74.24	19.080		
8,100.00	7,022.40	7,293.90	7,025.56	48.04	43.12	90.39	829.11	932.35	1,508.54	1,433.89	74.64	20.210		
8,200.00	7,021.17	7,295.47	7,027.13	50.38	43.12	90.55	829.16	932.30	1,601.44	1,526.44	74.99	21.354		
8,300.00	7,019.93	7,297.05	7,028.70	52.82	43.13	90.71	829.20	932.25	1,695.14	1,619.83	75.31	22.509		
8,400.00	7,018.70	7,298.62	7,030.28	55.35	43.13	90.86	829.26	932.20	1,789.53	1,713.94	75.59	23.674		
8,500.00	7,017.47	7,300.25	7,031.91	57.97	43.14	91.03	829.31	932.15	1,884.49	1,808.65	75.85	24.846		
8,600.00	7,016.23	7,302.31	7,033.96	60.65	43.14	91.23	829.37	932.09	1,979.95	1,903.87	76.08	26.025		
8,700.00	7,015.00	7,304.42	7,036.07	63.39	43.15	91.44	829.44	932.03	2,075.84	1,999.54	76.29	27.209		
8,800.00	7,013.76	7,306.61	7,038.25	66.19	43.15	91.66	829.51	931.96	2,172.09	2,095.60	76.49	28.398		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,308.86	7,040.50	69.03	43.16	91.88	829.58	931.89	2,268.67	2,192.00	76.67	29.591		
9,000.00	7,011.30	7,311.19	7,042.83	71.91	43.17	92.11	829.66	931.82	2,365.53	2,288.69	76.84	30.787		
9,100.00	7,010.06	7,313.59	7,045.23	74.83	43.17	92.35	829.74	931.74	2,462.64	2,385.64	76.99	31.986		
9,200.00	7,008.83	7,316.08	7,047.71	77.78	43.18	92.60	829.82	931.66	2,559.96	2,482.83	77.14	33.187		
9,300.00	7,007.60	7,318.65	7,050.28	80.76	43.19	92.85	829.90	931.58	2,657.49	2,580.22	77.27	34.390		
9,400.00	7,006.36	7,321.31	7,052.94	83.76	43.20	93.11	829.99	931.50	2,755.19	2,677.79	77.40	35.595		
9,500.00	7,005.13	7,324.06	7,055.69	86.79	43.21	93.39	830.08	931.40	2,853.05	2,775.52	77.53	36.801		
9,600.00	7,003.90	7,326.91	7,058.54	89.84	43.21	93.67	830.18	931.31	2,951.05	2,873.41	77.64	38.007		
9,700.00	7,002.66	7,329.87	7,061.50	92.90	43.22	93.96	830.27	931.21	3,049.18	2,971.42	77.76	39.214		
9,800.00	7,001.43	7,332.94	7,064.56	95.99	43.23	94.26	830.38	931.11	3,147.43	3,069.56	77.86	40.422		
9,900.00	7,000.19	7,336.13	7,067.75	99.08	43.24	94.58	830.48	931.00	3,245.78	3,167.81	77.97	41.629		
10,000.00	6,998.96	7,339.44	7,071.05	102.19	43.25	94.90	830.59	930.88	3,344.22	3,266.15	78.07	42.837		
10,100.00	6,997.73	7,342.89	7,074.49	105.32	43.26	95.24	830.71	930.76	3,442.76	3,364.59	78.17	44.044		
10,200.00	6,996.49	7,346.47	7,078.07	108.45	43.27	95.59	830.83	930.63	3,541.37	3,463.11	78.26	45.251		
10,300.00	6,995.26	7,350.20	7,081.80	111.60	43.28	95.96	830.96	930.50	3,640.06	3,561.70	78.35	46.457		
10,400.00	6,994.03	7,354.09	7,085.68	114.75	43.29	96.34	831.09	930.36	3,738.81	3,660.37	78.44	47.662		
10,500.00	6,992.79	7,358.14	7,089.73	117.92	43.31	96.73	831.23	930.21	3,837.63	3,759.09	78.53	48.866		
10,600.00	6,991.56	7,362.35	7,093.94	121.09	43.32	97.11	831.37	930.05	3,936.51	3,858.13	78.62	50.070		
10,700.00	6,990.33	7,366.61	7,098.23	124.27	43.33	97.50	831.51	929.88	4,035.45	3,957.21	78.71	51.273		
10,800.00	6,989.09	7,370.92	7,102.59	127.46	43.34	97.89	831.65	929.71	4,134.43	4,056.31	78.80	52.476		
10,900.00	6,987.86	7,375.28	7,107.01	130.65	43.35	98.28	831.79	929.54	4,233.47	4,155.47	78.89	53.679		
11,000.00	6,986.62	7,379.69	7,111.48	133.85	43.36	98.67	831.93	929.37	4,332.54	4,254.68	78.98	54.882		
11,100.00	6,985.39	7,384.15	7,115.99	137.06	43.37	99.06	832.07	929.19	4,431.66	4,353.94	79.07	56.085		
11,200.00	6,984.16	7,388.66	7,120.54	140.27	43.38	99.45	832.21	929.01	4,530.82	4,453.26	79.16	57.288		
11,300.00	6,982.92	7,393.21	7,125.13	143.48	43.39	99.84	832.35	928.83	4,630.02	4,552.63	79.25	58.491		
11,400.00	6,981.69	7,397.80	7,129.76	146.70	43.40	100.23	832.49	928.65	4,729.25	4,652.04	79.34	59.694		
11,500.00	6,980.46	7,402.43	7,134.43	149.92	43.41	100.62	832.63	928.47	4,828.51	4,751.53	79.43	60.897		
11,600.00	6,979.22	7,407.10	7,139.14	153.15	43.42	101.01	832.77	928.28	4,927.80	4,851.09	79.52	62.100		
11,700.00	6,977.99	7,411.81	7,143.89	156.38	43.43	101.40	832.91	928.09	5,027.11	4,950.70	79.61	63.303		
11,800.00	6,976.75	7,416.56	7,148.68	159.62	43.44	101.79	833.05	927.90	5,126.46	5,050.36	79.70	64.506		
11,900.00	6,975.52	7,421.35	7,153.51	162.86	43.45	102.18	833.19	927.71	5,225.83	5,149.97	79.79	65.709		
12,000.00	6,974.29	7,426.18	7,158.38	166.10	43.46	102.57	833.33	927.52	5,325.22	5,249.60	79.88	66.912		
12,100.00	6,973.05	7,431.05	7,163.29	169.34	43.47	102.96	833.47	927.33	5,424.64	5,349.26	79.97	68.115		
12,200.00	6,971.82	7,435.96	7,168.24	172.59	43.48	103.35	833.61	927.14	5,524.07	5,448.97	80.06	69.318		
12,300.00	6,970.59	7,440.91	7,173.23	175.84	43.49	103.74	833.75	926.95	5,623.53	5,548.72	80.15	70.521		
12,400.00	6,969.35	7,445.90	7,178.26	179.09	43.50	104.13	833.89	926.76	5,723.01	5,648.51	80.24	71.724		
12,500.00	6,968.12	7,450.93	7,183.33	182.35	43.51	104.52	834.03	926.57	5,822.50	5,748.34	80.33	72.927		
12,600.00	6,966.89	7,456.00	7,188.44	185.60	43.52	104.91	834.17	926.38	5,922.01	5,848.21	80.42	74.130		
12,700.00	6,965.65	7,461.11	7,193.59	188.86	43.53	105.30	834.31	926.19	6,021.54	5,948.12	80.51	75.333		
12,800.00	6,964.42	7,466.26	7,198.78	192.12	43.54	105.69	834.45	926.00	6,121.08	6,048.07	80.60	76.536		
12,900.00	6,963.18	7,471.45	7,203.99	195.38	43.55	106.08	834.59	925.81	6,220.64	6,148.06	80.69	77.739		
13,000.00	6,961.95	7,476.68	7,209.24	198.65	43.56	106.47	834.73	925.62	6,320.21	6,248.09	80.78	78.942		
13,100.00	6,960.72	7,481.95	7,214.53	201.91	43.57	106.86	834.87	925.43	6,419.79	6,348.16	80.87	80.145		
13,200.00	6,959.48	7,487.26	7,219.86	205.18	43.58	107.25	835.01	925.24	6,519.39	6,448.27	80.96	81.348		
13,300.00	6,958.25	7,492.61	7,225.23	208.45	43.59	107.64	835.15	925.05	6,619.00	6,548.42	81.05	82.551		
13,400.00	6,957.02	7,498.00	7,230.64	211.72	43.60	108.03	835.29	924.86	6,718.62	6,648.61	81.14	83.754		
13,500.00	6,955.78	7,503.43	7,236.09	214.99	43.61	108.42	835.43	924.67	6,818.25	6,748.84	81.23	84.957		
13,600.00	6,954.55	7,508.90	7,241.58	218.27	43.62	108.81	835.57	924.48	6,917.89	6,849.11	81.32	86.160		
13,700.00	6,953.32	7,514.41	7,247.11	221.54	43.63	109.20	835.71	924.29	7,017.55	6,949.42	81.41	87.363		
13,800.00	6,952.08	7,520.00	7,252.68	224.82	43.64	109.59	835.85	924.10	7,117.21	7,049.77	81.50	88.566		
13,900.00	6,950.85	7,525.63	7,258.29	228.10	43.65	110.00	835.99	923.91	7,216.88	7,150.16	81.59	89.769		
14,000.00	6,949.61	7,531.30	7,263.94	231.37	43.66	110.40	836.13	923.72	7,316.56	7,250.59	81.68	90.972		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Boomerang 21-5 - SRC #31-5D - OH - OH												Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,100.00	6,948.38	7,350.00	7,081.60	234.65	43.28	95.94	830.95	930.51	7,416.25	7,335.13	81.12	91.420	
14,200.00	6,947.15	7,350.00	7,081.60	237.93	43.28	95.94	830.95	930.51	7,515.95	7,434.75	81.20	92.563	
14,300.00	6,945.91	7,350.00	7,081.60	241.22	43.28	95.94	830.95	930.51	7,615.65	7,534.38	81.27	93.704	
14,400.00	6,944.68	7,350.00	7,081.60	244.50	43.28	95.94	830.95	930.51	7,715.37	7,634.02	81.35	94.843	
14,500.00	6,943.45	7,350.00	7,081.60	247.78	43.28	95.94	830.95	930.51	7,815.09	7,733.66	81.43	95.978	
14,600.00	6,942.21	7,350.00	7,081.60	251.07	43.28	95.94	830.95	930.51	7,914.82	7,833.31	81.50	97.112	
14,700.00	6,940.98	7,350.00	7,081.60	254.35	43.28	95.94	830.95	930.51	8,014.55	7,932.97	81.58	98.242	
14,800.00	6,939.74	7,350.00	7,081.60	257.64	43.28	95.94	830.95	930.51	8,114.29	8,032.63	81.66	99.370	
14,900.00	6,938.51	7,350.00	7,081.60	260.92	43.28	95.94	830.95	930.51	8,214.04	8,132.30	81.74	100.496	
15,000.00	6,937.28	7,350.00	7,081.60	264.21	43.28	95.94	830.95	930.51	8,313.79	8,231.98	81.81	101.618	
15,100.00	6,936.04	7,350.00	7,081.60	267.50	43.28	95.94	830.95	930.51	8,413.55	8,331.66	81.89	102.738	
15,200.00	6,934.81	7,350.00	7,081.60	270.79	43.28	95.94	830.95	930.51	8,513.32	8,431.34	81.97	103.855	
15,300.00	6,933.58	7,350.00	7,081.60	274.08	43.28	95.94	830.95	930.51	8,613.09	8,531.03	82.05	104.969	
15,400.00	6,932.34	7,350.00	7,081.60	277.37	43.28	95.94	830.95	930.51	8,712.86	8,630.73	82.13	106.081	
15,500.00	6,931.11	7,350.00	7,081.60	280.66	43.28	95.94	830.95	930.51	8,812.64	8,730.43	82.22	107.190	
15,589.88	6,930.00	7,350.00	7,081.60	283.62	43.28	95.94	830.95	930.51	8,902.33	8,820.04	82.29	108.184	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	2,161.54	2,061.85	3.28	27.35	93.56	-320.83	5,155.80	5,580.78					
100.00	100.00	2,224.69	2,118.45	3.28	28.79	93.39	-303.67	5,133.71	5,543.08	5,521.63	21.45	258.392		
200.00	200.00	2,264.10	2,153.75	3.34	29.68	93.27	-292.31	5,120.36	5,506.23	5,484.19	22.03	249.916		
300.00	299.98	2,309.20	2,194.10	3.44	30.69	20.26	-278.59	5,105.59	5,468.78	5,446.03	22.75	240.397		
400.00	399.84	2,557.36	2,417.84	3.60	36.17	19.92	-213.77	5,020.25	5,427.62	5,401.57	26.05	208.366		
500.00	499.45	500.00	2,590.04	3.81	19.76	19.74	-160.25	4,950.04	5,381.79	5,367.33	14.46	372.070		
600.00	598.70	2,900.00	2,719.57	4.08	45.22	19.65	-112.59	4,893.72	5,330.60	5,298.85	31.75	167.912		
700.00	697.47	2,937.85	2,752.33	4.40	46.26	19.95	-100.08	4,879.46	5,277.07	5,244.41	32.66	161.554		
774.77	770.92	2,957.95	2,769.86	4.68	46.81	20.22	-93.64	4,872.06	5,235.88	5,202.65	33.23	157.554		
800.00	795.65	2,964.74	2,775.82	4.78	46.99	20.20	-91.49	4,869.59	5,221.84	5,188.41	33.43	156.205		
900.00	893.64	3,000.00	2,806.89	5.20	47.96	20.09	-80.62	4,856.98	5,166.77	5,132.43	34.34	150.467		
1,000.00	991.63	3,025.72	2,829.73	5.66	48.56	20.02	-72.91	4,847.98	5,112.55	5,077.49	35.06	145.836		
1,100.00	1,089.63	3,062.42	2,862.47	6.15	49.41	19.91	-62.15	4,835.37	5,059.16	5,023.19	35.96	140.670		
1,200.00	1,187.62	3,100.00	2,896.20	6.65	50.28	19.81	-51.44	4,822.75	5,006.58	4,969.67	36.91	135.631		
1,300.00	1,285.62	3,252.00	3,032.31	7.17	53.74	19.38	-8.33	4,770.59	4,953.11	4,913.66	39.45	125.559		
1,400.00	1,383.61	3,300.00	3,075.50	7.71	54.84	19.25	4.51	4,754.06	4,900.12	4,859.56	40.56	120.810		
1,500.00	1,481.60	3,331.21	3,103.78	8.25	55.45	19.17	12.49	4,743.54	4,847.96	4,806.56	41.40	117.101		
1,600.00	1,579.60	3,359.35	3,129.46	8.80	56.00	19.10	19.40	4,734.34	4,796.83	4,754.61	42.22	113.611		
1,700.00	1,677.59	3,400.00	3,166.86	9.36	56.80	19.01	28.91	4,721.57	4,746.80	4,703.60	43.20	109.887		
1,800.00	1,775.59	3,498.94	3,258.01	9.92	58.56	18.78	51.98	4,690.78	4,697.30	4,652.55	44.75	104.979		
1,900.00	1,873.58	3,562.98	3,316.79	10.49	59.73	18.62	67.62	4,670.72	4,647.54	4,601.54	46.00	101.037		
2,000.00	1,971.57	3,623.59	3,372.41	11.06	60.82	18.46	82.84	4,652.06	4,598.25	4,551.04	47.22	97.383		
2,100.00	2,069.57	3,680.78	3,425.21	11.64	61.81	18.32	96.32	4,634.71	4,549.54	4,501.15	48.38	94.030		
2,200.00	2,167.56	3,726.52	3,467.70	12.22	62.54	18.22	106.32	4,621.07	4,501.49	4,452.09	49.40	91.130		
2,300.00	2,265.56	4,242.42	3,938.22	12.80	72.96	16.84	228.21	4,450.72	4,453.35	4,397.72	55.62	80.064		
2,400.00	2,363.55	4,300.00	3,988.41	13.38	74.57	16.60	246.58	4,429.31	4,398.00	4,340.71	57.29	76.769		
2,500.00	2,461.54	4,300.00	3,988.41	13.97	74.57	16.60	246.58	4,429.31	4,343.68	4,285.68	58.00	74.885		
2,600.00	2,559.54	4,351.69	4,033.75	14.55	75.85	16.37	263.14	4,410.82	4,290.08	4,230.53	59.55	72.039		
2,700.00	2,657.53	4,400.00	4,076.71	15.14	77.06	16.17	278.08	4,394.54	4,237.98	4,176.92	61.06	69.408		
2,800.00	2,755.53	4,400.00	4,076.71	15.73	77.06	16.17	278.08	4,394.54	4,186.80	4,125.00	61.80	67.744		
2,900.00	2,853.52	4,448.69	4,120.51	16.32	78.04	15.98	292.49	4,378.89	4,136.78	4,073.58	63.20	65.460		
3,000.00	2,951.52	4,500.00	4,167.15	16.91	79.08	15.78	306.84	4,363.05	4,087.86	4,023.23	64.63	63.254		
3,100.00	3,049.51	4,607.25	4,264.83	17.51	81.11	15.38	336.36	4,330.04	4,039.33	3,972.63	66.70	60.559		
3,200.00	3,147.50	4,682.64	4,333.39	18.10	82.58	15.08	357.09	4,306.53	3,990.47	3,922.05	68.42	58.323		
3,300.00	3,245.50	4,829.08	4,466.55	18.70	85.49	14.52	395.96	4,259.62	3,940.90	3,869.90	71.00	55.509		
3,400.00	3,343.49	3,400.00	4,580.12	19.29	54.25	14.00	430.25	4,218.28	3,890.81	3,840.23	50.57	76.933		
3,500.00	3,441.49	5,192.79	4,792.09	19.89	93.97	12.92	497.08	4,133.03	3,837.59	3,759.92	77.68	49.405		
3,600.00	3,539.48	5,314.59	4,899.22	20.48	97.27	12.31	532.10	4,086.84	3,783.16	3,702.67	80.49	47.000		
3,700.00	3,637.47	5,380.70	4,957.57	21.08	99.04	11.99	550.25	4,061.60	3,728.73	3,646.27	82.46	45.221		
3,800.00	3,735.47	5,464.66	5,032.06	21.68	101.25	11.59	572.23	4,029.71	3,674.60	3,589.98	84.63	43.422		
3,900.00	3,833.46	5,618.97	5,169.06	22.27	105.30	10.87	609.75	3,969.46	3,619.63	3,532.07	87.57	41.336		
4,000.00	3,931.46	5,672.43	5,216.87	22.87	106.66	10.65	620.92	3,948.33	3,564.34	3,475.12	89.22	39.951		
4,100.00	4,029.45	5,700.00	5,241.71	23.47	107.36	10.54	626.23	3,937.60	3,509.92	3,419.29	90.63	38.727		
4,200.00	4,127.44	5,758.57	5,294.88	24.07	108.62	10.33	636.82	3,915.44	3,456.33	3,364.14	92.19	37.490		
4,300.00	4,225.44	6,000.00	5,513.32	24.67	114.29	9.38	680.42	3,822.50	3,403.15	3,308.03	95.12	35.778		
4,400.00	4,323.43	6,034.61	5,544.24	25.27	115.10	9.23	686.84	3,808.32	3,346.99	3,250.35	96.63	34.636		
4,507.81	4,429.08	6,064.91	5,571.66	25.92	115.81	9.11	691.88	3,796.47	3,288.02	3,189.80	98.22	33.475		
4,600.00	4,519.70	6,100.00	5,603.82	26.45	116.64	8.81	697.06	3,783.41	3,240.21	3,140.57	99.64	32.519		
4,700.00	4,618.56	6,100.00	5,603.82	26.98	116.64	8.65	697.06	3,783.41	3,192.86	3,091.89	100.97	31.622		
4,800.00	4,717.88	6,145.84	5,646.43	27.46	117.35	8.36	702.94	3,767.59	3,150.00	3,047.62	102.38	30.767		
4,900.00	4,817.54	6,200.00	5,697.61	27.89	118.19	8.09	708.84	3,750.89	3,112.73	3,008.92	103.81	29.985		
5,000.00	4,917.43	6,200.00	5,697.61	28.28	118.19	7.99	708.84	3,750.89	3,079.94	2,974.80	105.14	29.294		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	6,233.23	5,729.40	28.57	118.49	81.00	711.67	3,741.65	3,057.11	2,950.96	106.15	28.801		
5,100.00	5,017.42	6,239.65	5,735.57	28.62	118.55	80.98	712.12	3,739.95	3,052.69	2,946.34	106.36	28.703		
5,200.00	5,117.42	6,300.00	5,794.01	28.95	119.10	80.89	714.71	3,725.15	3,028.72	2,921.24	107.48	28.181		
5,300.00	5,217.42	6,300.00	5,794.01	29.28	119.10	80.89	714.71	3,725.15	3,006.29	2,897.62	108.67	27.664		
5,400.00	5,317.42	6,349.18	5,842.09	29.62	119.34	80.84	715.25	3,714.79	2,985.94	2,876.34	109.60	27.244		
5,500.00	5,417.42	6,400.00	5,892.08	29.96	119.59	80.82	714.99	3,705.68	2,967.83	2,857.35	110.47	26.864		
5,600.00	5,517.42	6,400.00	5,892.08	30.29	119.59	80.82	714.99	3,705.68	2,951.79	2,840.31	111.48	26.478		
5,700.00	5,617.42	6,460.00	5,951.41	30.64	119.75	80.81	714.36	3,696.84	2,937.47	2,825.27	112.21	26.179		
5,800.00	5,717.42	6,500.00	5,991.12	30.98	119.86	80.79	714.13	3,692.03	2,925.44	2,812.47	112.97	25.896		
5,900.00	5,817.42	6,500.00	5,991.12	31.33	119.86	80.79	714.13	3,692.03	2,916.07	2,802.32	113.75	25.637		
6,000.00	5,917.42	6,559.15	6,050.05	31.68	119.95	80.77	714.31	3,686.85	2,908.13	2,793.75	114.38	25.426		
6,100.00	6,017.42	6,600.00	6,090.84	32.03	120.02	80.76	714.91	3,684.82	2,903.10	2,788.11	115.00	25.245		
6,200.00	6,117.42	6,644.31	6,135.11	32.38	120.07	80.74	715.68	3,683.47	2,900.07	2,784.50	115.57	25.094		
6,300.00	6,217.42	6,716.46	6,207.25	32.74	120.14	80.72	716.56	3,682.05	2,898.29	2,782.16	116.12	24.959		
6,400.00	6,317.42	6,814.95	6,305.72	33.09	120.24	80.69	717.55	3,680.57	2,896.97	2,780.28	116.69	24.826		
6,476.01	6,393.43	6,898.76	6,389.52	33.37	120.32	80.67	718.28	3,679.21	2,895.86	2,778.73	117.13	24.724		
6,486.45	6,403.88	6,910.28	6,401.03	33.40	120.33	173.01	718.36	3,679.01	2,895.78	2,778.59	117.19	24.711	CC, ES	
6,500.00	6,417.42	6,924.15	6,414.90	33.45	120.35	173.00	718.48	3,678.76	2,895.92	2,778.66	117.26	24.697		
6,550.00	6,467.25	6,976.85	6,467.59	33.59	120.40	172.97	718.97	3,677.78	2,898.89	2,781.38	117.51	24.668	SF	
6,600.00	6,516.64	7,025.33	6,516.06	33.71	120.45	172.89	719.51	3,676.83	2,905.71	2,787.97	117.75	24.678		
6,650.00	6,565.26	7,070.13	6,560.85	33.80	120.50	172.78	720.16	3,675.99	2,916.42	2,798.47	117.95	24.725		
6,700.00	6,612.83	7,116.71	6,607.41	33.88	120.55	172.63	720.99	3,675.14	2,930.96	2,812.82	118.14	24.809		
6,750.00	6,659.04	7,167.72	6,658.39	33.94	120.60	172.42	722.08	3,674.13	2,949.14	2,830.82	118.32	24.926		
6,800.00	6,703.62	7,217.48	6,708.13	33.99	120.66	172.17	723.30	3,673.05	2,970.81	2,852.34	118.47	25.077		
6,850.00	6,746.28	7,266.03	6,756.65	34.03	120.71	171.86	724.44	3,671.92	2,995.85	2,877.26	118.59	25.262		
6,900.00	6,786.76	7,312.31	6,802.91	34.08	120.76	171.47	725.42	3,670.78	3,024.10	2,905.41	118.69	25.480		
6,950.00	6,824.83	7,347.04	6,837.62	34.13	120.80	170.98	726.12	3,669.93	3,055.47	2,936.73	118.74	25.732		
7,000.00	6,860.23	7,381.23	6,871.80	34.20	120.84	170.37	726.80	3,669.13	3,089.80	2,971.02	118.78	26.013		
7,050.00	6,892.75	7,412.33	6,902.88	34.30	120.88	169.60	727.40	3,668.41	3,126.85	3,008.06	118.79	26.323		
7,100.00	6,922.20	7,440.01	6,930.55	34.43	120.91	168.61	727.88	3,667.81	3,166.41	3,047.64	118.78	26.659		
7,150.00	6,948.38	7,464.68	6,955.22	34.60	120.93	167.30	728.26	3,667.30	3,208.24	3,089.49	118.74	27.018		
7,200.00	6,971.15	7,486.20	6,976.73	34.82	120.96	165.53	728.56	3,666.87	3,252.06	3,133.36	118.69	27.399		
7,250.00	6,990.35	7,504.44	6,994.96	35.09	120.98	163.02	728.79	3,666.53	3,297.59	3,178.96	118.63	27.798		
7,300.00	7,005.87	7,517.72	7,008.24	35.43	120.99	159.21	728.95	3,666.29	3,344.57	3,226.02	118.55	28.212		
7,350.00	7,017.62	7,528.18	7,018.70	35.81	121.01	152.97	729.08	3,666.11	3,392.68	3,274.22	118.46	28.639		
7,400.00	7,025.52	7,535.40	7,025.92	36.26	121.01	141.50	729.17	3,665.98	3,441.64	3,323.27	118.37	29.074		
7,450.00	7,029.52	7,539.38	7,029.89	36.75	121.02	117.82	729.22	3,665.92	3,491.13	3,372.85	118.28	29.516		
7,483.86	7,030.00	7,540.22	7,030.74	37.12	121.02	91.18	729.23	3,665.91	3,524.79	3,406.57	118.22	29.817		
7,500.00	7,029.80	7,540.27	7,030.78	37.30	121.02	91.19	729.23	3,665.90	3,540.84	3,422.66	118.19	29.960		
7,600.00	7,028.57	7,540.56	7,031.07	38.58	121.02	91.23	729.23	3,665.90	3,640.33	3,522.32	118.01	30.849		
7,700.00	7,027.34	7,540.84	7,031.36	40.10	121.02	91.28	729.24	3,665.90	3,739.84	3,622.00	117.84	31.737		
7,800.00	7,026.10	7,541.13	7,031.64	41.83	121.02	91.32	729.24	3,665.89	3,839.38	3,721.69	117.68	32.625		
7,900.00	7,024.87	7,541.41	7,031.92	43.74	121.02	91.36	729.25	3,665.89	3,938.94	3,821.40	117.54	33.512		
8,000.00	7,023.63	7,541.69	7,032.20	45.82	121.02	91.41	729.25	3,665.88	4,038.52	3,921.11	117.41	34.398		
8,100.00	7,022.40	7,541.96	7,032.48	48.04	121.02	91.45	729.25	3,665.88	4,138.12	4,020.84	117.28	35.284		
8,200.00	7,021.17	7,542.23	7,032.75	50.38	121.02	91.49	729.26	3,665.87	4,237.74	4,120.58	117.17	36.169		
8,300.00	7,019.93	7,542.50	7,033.02	52.82	121.02	91.54	729.26	3,665.87	4,337.38	4,220.32	117.06	37.053		
8,400.00	7,018.70	7,542.77	7,033.29	55.35	121.02	91.58	729.26	3,665.86	4,437.03	4,320.08	116.96	37.937		
8,500.00	7,017.47	7,543.04	7,033.55	57.97	121.02	91.62	729.27	3,665.86	4,536.70	4,419.84	116.86	38.820		
8,600.00	7,016.23	7,543.30	7,033.82	60.65	121.02	91.66	729.27	3,665.86	4,636.39	4,519.61	116.78	39.703		
8,700.00	7,015.00	7,543.56	7,034.08	63.39	121.02	91.70	729.27	3,665.85	4,736.09	4,619.39	116.70	40.584		
8,800.00	7,013.76	7,543.82	7,034.34	66.19	121.02	91.74	729.28	3,665.85	4,835.80	4,719.17	116.62	41.465		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,544.08	7,034.59	69.03	121.02	91.78	729.28	3,665.84	4,935.52	4,818.96	116.55	42.345		
9,000.00	7,011.30	7,544.33	7,034.84	71.91	121.02	91.82	729.28	3,665.84	5,035.25	4,918.76	116.49	43.224		
9,100.00	7,010.06	7,544.58	7,035.10	74.83	121.02	91.86	729.29	3,665.83	5,134.99	5,018.56	116.43	44.103		
9,200.00	7,008.83	7,544.83	7,035.34	77.78	121.02	91.90	729.29	3,665.83	5,234.75	5,118.37	116.38	44.980		
9,300.00	7,007.60	7,545.08	7,035.59	80.76	121.02	91.94	729.29	3,665.83	5,334.51	5,218.18	116.33	45.857		
9,400.00	7,006.36	7,545.32	7,035.84	83.76	121.02	91.98	729.30	3,665.82	5,434.28	5,318.00	116.28	46.733		
9,500.00	7,005.13	7,545.56	7,036.08	86.79	121.02	92.02	729.30	3,665.82	5,534.06	5,417.82	116.24	47.608		
9,600.00	7,003.90	7,545.80	7,036.32	89.84	121.02	92.06	729.30	3,665.81	5,633.85	5,517.64	116.20	48.482		
9,700.00	7,002.66	7,546.04	7,036.56	92.90	121.02	92.09	729.30	3,665.81	5,733.64	5,617.47	116.17	49.356		
9,800.00	7,001.43	7,546.28	7,036.79	95.99	121.03	92.13	729.31	3,665.81	5,833.44	5,717.30	116.14	50.228		
9,900.00	7,000.19	7,546.51	7,037.03	99.08	121.03	92.17	729.31	3,665.80	5,933.25	5,817.14	116.11	51.099		
10,000.00	6,998.96	7,546.74	7,037.26	102.19	121.03	92.20	729.31	3,665.80	6,033.06	5,916.98	116.09	51.970		
10,100.00	6,997.73	7,546.97	7,037.49	105.32	121.03	92.24	729.32	3,665.80	6,132.88	6,016.82	116.07	52.839		
10,200.00	6,996.49	7,547.20	7,037.72	108.45	121.03	92.28	729.32	3,665.79	6,232.71	6,116.66	116.05	53.708		
10,300.00	6,995.26	7,547.43	7,037.94	111.60	121.03	92.31	729.32	3,665.79	6,332.54	6,216.51	116.03	54.575		
10,400.00	6,994.03	7,547.65	7,038.17	114.75	121.03	92.35	729.33	3,665.79	6,432.38	6,316.36	116.02	55.441		
10,500.00	6,992.79	7,547.88	7,038.39	117.92	121.03	92.38	729.33	3,665.78	6,532.22	6,416.21	116.01	56.307		
10,600.00	6,991.56	7,548.10	7,038.61	121.09	121.03	92.42	729.33	3,665.78	6,632.07	6,516.06	116.00	57.171		
10,700.00	6,990.33	7,548.32	7,038.83	124.27	121.03	92.45	729.33	3,665.77	6,731.92	6,615.92	116.00	58.034		
10,800.00	6,989.09	7,548.53	7,039.05	127.46	121.03	92.48	729.34	3,665.77	6,831.77	6,715.78	116.00	58.896		
10,900.00	6,987.86	7,548.75	7,039.26	130.65	121.03	92.52	729.34	3,665.77	6,931.63	6,815.64	116.00	59.757		
11,000.00	6,986.62	7,548.96	7,039.47	133.85	121.03	92.55	729.34	3,665.76	7,031.50	6,915.50	116.00	60.616		
11,100.00	6,985.39	7,549.17	7,039.69	137.06	121.03	92.58	729.34	3,665.76	7,131.36	7,015.36	116.00	61.475		
11,200.00	6,984.16	7,549.38	7,039.90	140.27	121.03	92.62	729.35	3,665.76	7,231.24	7,115.22	116.01	62.332		
11,300.00	6,982.92	7,549.59	7,040.10	143.48	121.03	92.65	729.35	3,665.75	7,331.11	7,215.09	116.02	63.188		
11,400.00	6,981.69	7,549.80	7,040.31	146.70	121.03	92.68	729.35	3,665.75	7,430.99	7,314.96	116.03	64.043		
11,500.00	6,980.46	7,550.00	7,040.52	149.92	121.03	92.71	729.36	3,665.75	7,530.87	7,414.83	116.04	64.897		
11,600.00	6,979.22	7,550.20	7,040.72	153.15	121.03	92.75	729.36	3,665.74	7,630.75	7,514.70	116.06	65.749		
11,700.00	6,977.99	7,550.41	7,040.92	156.38	121.03	92.78	729.36	3,665.74	7,730.64	7,614.57	116.07	66.600		
11,800.00	6,976.75	7,550.61	7,041.12	159.62	121.03	92.81	729.36	3,665.74	7,830.53	7,714.44	116.09	67.450		
11,900.00	6,975.52	7,550.80	7,041.32	162.86	121.03	92.84	729.37	3,665.74	7,930.42	7,814.31	116.11	68.299		
12,000.00	6,974.29	7,551.00	7,041.51	166.10	121.03	92.87	729.37	3,665.73	8,030.32	7,914.18	116.14	69.146		
12,100.00	6,973.05	7,551.20	7,041.71	169.34	121.03	92.90	729.37	3,665.73	8,130.22	8,014.06	116.16	69.992		
12,200.00	6,971.82	7,551.39	7,041.90	172.59	121.03	92.93	729.37	3,665.73	8,230.12	8,113.93	116.18	70.836		
12,300.00	6,970.59	7,551.58	7,042.09	175.84	121.03	92.96	729.38	3,665.72	8,330.02	8,213.81	116.21	71.680		
12,400.00	6,969.35	7,551.77	7,042.29	179.09	121.03	92.99	729.38	3,665.72	8,429.93	8,313.69	116.24	72.521		
12,500.00	6,968.12	7,551.96	7,042.47	182.35	121.03	93.02	729.38	3,665.72	8,529.83	8,413.56	116.27	73.362		
12,600.00	6,966.89	7,552.15	7,042.66	185.60	121.03	93.05	729.38	3,665.71	8,629.74	8,513.44	116.30	74.201		
12,700.00	6,965.65	7,552.33	7,042.85	188.86	121.03	93.08	729.39	3,665.71	8,729.65	8,613.32	116.34	75.038		
12,800.00	6,964.42	7,552.52	7,043.03	192.12	121.03	93.11	729.39	3,665.71	8,829.57	8,713.20	116.37	75.874		
12,900.00	6,963.18	7,552.70	7,043.22	195.38	121.03	93.14	729.39	3,665.71	8,929.48	8,813.08	116.41	76.709		
13,000.00	6,961.95	7,552.88	7,043.40	198.65	121.03	93.17	729.39	3,665.70	9,029.40	8,912.96	116.44	77.542		
13,100.00	6,960.72	7,553.06	7,043.58	201.91	121.03	93.19	729.39	3,665.70	9,129.32	9,012.84	116.48	78.374		
13,200.00	6,959.48	7,553.24	7,043.76	205.18	121.03	93.22	729.40	3,665.70	9,229.24	9,112.72	116.52	79.204		
13,300.00	6,958.25	7,553.42	7,043.94	208.45	121.03	93.25	729.40	3,665.69	9,329.16	9,212.60	116.57	80.033		
13,400.00	6,957.02	7,553.60	7,044.11	211.72	121.03	93.28	729.40	3,665.69	9,429.09	9,312.48	116.61	80.860		
13,500.00	6,955.78	7,553.77	7,044.29	214.99	121.03	93.31	729.40	3,665.69	9,529.01	9,412.36	116.65	81.686		
13,600.00	6,954.55	7,553.95	7,044.46	218.27	121.03	93.33	729.41	3,665.69	9,628.94	9,512.24	116.70	82.510		
13,700.00	6,953.32	7,554.12	7,044.63	221.54	121.03	93.36	729.41	3,665.68	9,728.87	9,612.12	116.75	83.333		
13,800.00	6,952.08	7,554.29	7,044.80	224.82	121.03	93.39	729.41	3,665.68	9,828.80	9,712.01	116.80	84.154		
13,900.00	6,950.85	7,554.46	7,044.97	228.10	121.03	93.41	729.41	3,665.68	9,928.73	9,811.89	116.85	84.973		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.85	-671.86	5,590.19	5,630.64					
100.00	100.00	1,414.88	1,397.99	3.28	9.52	96.54	-621.56	5,418.90	5,618.53	5,607.94	10.59	530.308		
200.00	200.00	1,934.38	1,897.73	3.34	14.96	96.72	-621.95	5,277.89	5,594.41	5,581.43	12.98	431.004		
300.00	299.98	2,245.68	2,190.81	3.44	19.74	24.10	-627.74	5,173.23	5,559.36	5,544.75	14.61	380.462		
400.00	399.84	2,300.00	2,241.76	3.60	20.66	24.48	-627.32	5,154.41	5,520.38	5,505.40	14.98	368.499		
500.00	499.45	2,341.40	2,280.73	3.81	21.29	24.89	-626.54	5,140.43	5,479.21	5,463.89	15.32	357.720		
600.00	598.70	2,400.00	2,336.05	4.08	22.20	25.34	-624.86	5,121.18	5,435.91	5,420.14	15.78	344.569		
700.00	697.47	2,400.00	2,319.92	4.40	23.76	26.57	-606.14	4,880.36	5,381.45	5,371.92	9.53	564.534		
774.77	770.92	2,400.00	2,297.30	4.68	21.86	27.12	-603.99	4,854.63	5,338.91	5,329.13	9.78	545.898		
800.00	795.65	2,400.00	2,280.97	4.78	37.76	27.18	-602.47	4,838.26	5,324.08	5,304.19	19.90	267.593		
900.00	893.64	2,400.00	2,263.08	5.20	38.57	27.23	-601.26	4,824.79	5,266.35	5,246.05	20.29	259.549		
1,000.00	991.63	2,400.00	2,247.71	5.66	39.46	27.29	-599.99	4,810.07	5,209.38	5,188.65	20.74	251.220		
1,100.00	1,089.63	2,400.00	2,232.66	6.15	40.08	27.34	-598.98	4,798.66	5,153.22	5,132.04	21.17	243.381		
1,200.00	1,187.62	2,400.00	2,217.05	6.65	40.77	27.38	-597.77	4,786.08	5,097.88	5,076.23	21.66	235.407		
1,300.00	1,285.62	2,400.00	2,201.64	7.17	41.64	27.44	-596.13	4,770.91	5,043.41	5,021.21	22.20	227.201		
1,400.00	1,383.61	2,400.00	2,186.42	7.71	42.31	27.50	-594.94	4,757.89	4,989.71	4,966.96	22.74	219.398		
1,500.00	1,481.60	2,400.00	2,171.45	8.25	43.18	27.58	-594.27	4,741.31	4,936.71	4,913.35	23.36	211.373		
1,600.00	1,579.60	2,400.00	2,156.65	8.80	43.58	27.62	-594.29	4,733.76	4,884.52	4,860.65	23.88	204.587		
1,700.00	1,677.59	2,400.00	2,142.04	9.36	44.20	27.71	-594.58	4,720.36	4,833.26	4,808.76	24.50	197.310		
1,800.00	1,775.59	2,400.00	2,127.63	9.92	44.61	27.76	-594.83	4,711.86	4,783.16	4,758.09	25.07	190.778		
1,900.00	1,873.58	2,400.00	2,113.37	10.49	45.24	27.84	-595.32	4,699.48	4,734.25	4,708.53	25.72	184.037		
2,000.00	1,971.57	2,400.00	2,100.00	11.06	45.24	27.84	-595.32	4,699.48	4,686.44	4,660.23	26.21	178.802		
2,100.00	2,069.57	2,400.00	2,086.67	11.64	45.24	27.84	-595.32	4,699.48	4,640.30	4,613.59	26.71	173.752		
2,200.00	2,167.56	2,400.00	2,073.37	12.22	45.90	27.95	-595.29	4,682.75	4,594.55	4,567.10	27.45	167.386		
2,300.00	2,265.56	2,400.00	2,060.00	12.80	46.42	28.02	-594.09	4,671.00	4,550.75	4,522.61	28.15	161.674		
2,400.00	2,363.55	2,400.00	2,046.67	13.38	46.42	28.02	-594.09	4,671.00	4,507.91	4,479.24	28.67	157.233		
2,500.00	2,461.54	2,400.00	2,033.33	13.97	54.98	29.11	-578.09	4,484.02	4,456.87	4,425.30	31.56	141.204		
2,600.00	2,559.54	2,400.00	2,020.00	14.55	55.91	29.23	-577.64	4,465.06	4,404.92	4,372.57	32.35	136.180		
2,700.00	2,657.53	2,400.00	2,006.67	15.14	56.77	29.34	-577.17	4,448.37	4,354.35	4,321.22	33.13	131.450		
2,800.00	2,755.53	2,400.00	1,993.33	15.73	57.85	29.50	-576.68	4,426.24	4,304.48	4,270.50	33.98	126.680		
2,900.00	2,853.52	2,400.00	1,980.00	16.32	61.05	29.97	-576.90	4,362.25	4,253.44	4,218.11	35.33	120.382		
3,000.00	2,951.52	2,400.00	1,966.67	16.91	64.99	30.54	-577.81	4,288.49	4,200.53	4,163.74	36.79	114.168		
3,100.00	3,049.51	2,400.00	1,953.33	17.51	66.89	30.80	-577.62	4,253.79	4,146.32	4,108.50	37.82	109.644		
3,200.00	3,147.50	2,400.00	1,940.00	18.10	68.03	30.96	-577.21	4,232.96	4,092.57	4,053.87	38.71	105.735		
3,300.00	3,245.50	2,400.00	1,926.67	18.70	69.67	31.19	-576.34	4,202.87	4,039.31	3,999.61	39.70	101.753		
3,400.00	3,343.49	2,400.00	1,913.33	19.29	71.92	31.51	-575.29	4,161.68	3,985.88	3,945.07	40.82	97.653		
3,500.00	3,441.49	2,400.00	1,900.00	19.89	75.43	32.03	-574.90	4,099.29	3,931.25	3,889.08	42.18	93.212		
3,600.00	3,539.48	2,400.00	1,886.67	20.48	76.95	32.26	-574.78	4,072.82	3,876.27	3,833.07	43.20	89.727		
3,700.00	3,637.47	2,400.00	1,873.33	21.08	77.21	32.29	-574.80	4,068.41	3,822.20	3,778.18	44.02	86.820		
3,800.00	3,735.47	2,400.00	1,860.00	21.68	78.00	32.44	-574.94	4,052.53	3,769.18	3,724.21	44.97	83.809		
3,900.00	3,833.46	2,400.00	1,846.67	22.27	78.45	32.52	-575.09	4,044.08	3,717.75	3,671.88	45.87	81.058		
4,000.00	3,931.46	2,400.00	1,833.33	22.87	79.16	32.65	-575.42	4,031.38	3,667.87	3,621.05	46.82	78.332		
4,100.00	4,029.45	2,400.00	1,820.00	23.47	79.16	32.65	-575.42	4,031.38	3,619.41	3,571.77	47.64	75.979		
4,200.00	4,127.44	2,400.00	1,806.67	24.07	79.91	32.84	-575.97	4,014.20	3,572.17	3,523.51	48.66	73.415		
4,300.00	4,225.44	2,400.00	1,793.33	24.67	80.60	33.01	-576.44	3,999.54	3,526.36	3,476.69	49.67	70.996		
4,400.00	4,323.43	2,400.00	1,780.00	25.27	81.07	33.15	-576.82	3,987.95	3,481.70	3,431.05	50.65	68.747		
4,507.81	4,429.08	2,400.00	1,766.67	25.92	81.80	33.36	-577.39	3,970.44	3,434.64	3,382.86	51.78	66.335		
4,600.00	4,519.70	2,400.00	1,753.33	26.45	82.88	33.22	-578.87	3,944.12	3,395.90	3,342.99	52.91	64.186		
4,700.00	4,618.56	2,400.00	1,740.00	26.98	84.16	33.09	-581.09	3,913.13	3,356.15	3,301.99	54.16	61.969		
4,800.00	4,717.88	2,400.00	1,726.67	27.46	84.86	32.84	-582.11	3,895.69	3,319.37	3,264.18	55.19	60.142		
4,900.00	4,817.54	2,400.00	1,713.33	27.89	85.34	32.56	-582.79	3,884.27	3,286.38	3,230.27	56.11	58.565		
5,000.00	4,917.43	2,400.00	1,700.00	28.28	86.00	32.38	-583.79	3,866.40	3,257.28	3,200.20	57.07	57.071		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	6,000.00	5,700.46	28.57	86.34	105.35	-584.20	3,858.02	3,236.49	3,178.74	57.75	56.046		
5,100.00	5,017.42	6,000.00	5,700.46	28.62	86.34	105.35	-584.20	3,858.02	3,232.49	3,174.63	57.86	55.871		
5,200.00	5,117.42	6,056.92	5,755.76	28.95	86.78	105.42	-584.75	3,844.58	3,210.13	3,151.46	58.67	54.714		
5,300.00	5,217.42	6,100.00	5,797.83	29.28	87.11	105.47	-585.03	3,835.32	3,189.53	3,130.11	59.43	53.671		
5,400.00	5,317.42	6,100.00	5,797.83	29.62	87.11	105.47	-585.03	3,835.32	3,171.28	3,111.28	60.00	52.853		
5,500.00	5,417.42	6,161.80	5,858.57	29.96	87.42	105.53	-585.37	3,823.92	3,154.19	3,093.44	60.75	51.917		
5,600.00	5,517.42	6,200.00	5,896.34	30.29	87.62	105.57	-585.59	3,818.20	3,139.70	3,078.29	61.41	51.127		
5,700.00	5,617.42	6,232.21	5,928.28	30.64	87.71	105.59	-585.75	3,814.06	3,127.21	3,065.21	62.00	50.438		
5,800.00	5,717.42	6,273.31	5,969.13	30.98	87.83	105.61	-585.88	3,809.50	3,116.60	3,054.00	62.60	49.788		
5,900.00	5,817.42	6,319.15	6,014.78	31.33	87.94	105.63	-585.91	3,805.34	3,107.83	3,044.64	63.18	49.187		
6,000.00	5,917.42	6,373.51	6,068.98	31.68	88.05	105.65	-585.91	3,801.26	3,100.60	3,036.82	63.77	48.619		
6,100.00	6,017.42	6,430.03	6,125.39	32.03	88.15	105.67	-585.84	3,797.89	3,094.81	3,030.46	64.35	48.092		
6,200.00	6,117.42	6,500.00	6,195.30	32.38	88.26	105.68	-585.61	3,794.83	3,090.41	3,025.45	64.96	47.571		
6,300.00	6,217.42	6,569.85	6,265.12	32.74	88.36	105.68	-585.09	3,792.55	3,086.98	3,021.42	65.56	47.089		
6,400.00	6,317.42	6,645.04	6,340.27	33.09	88.46	105.68	-584.15	3,790.59	3,084.15	3,017.99	66.16	46.618		
6,476.01	6,393.43	6,700.00	6,395.22	33.37	88.53	105.67	-583.42	3,789.68	3,082.65	3,016.04	66.60	46.285		
6,486.16	6,403.58	6,705.09	6,400.30	33.40	88.54	-162.00	-583.35	3,789.61	3,082.56	3,015.91	66.65	46.251 CC, ES		
6,500.00	6,417.42	6,715.84	6,411.05	33.45	88.56	-162.00	-583.21	3,789.49	3,082.71	3,015.99	66.73	46.199		
6,550.00	6,467.25	6,754.58	6,449.79	33.59	88.61	-161.94	-582.73	3,789.13	3,085.75	3,018.77	66.98	46.067		
6,600.00	6,516.64	6,792.96	6,488.17	33.71	88.66	-161.78	-582.30	3,788.90	3,092.69	3,025.48	67.21	46.018 SF		
6,650.00	6,565.26	6,835.26	6,530.46	33.80	88.72	-161.54	-581.94	3,788.75	3,103.44	3,036.02	67.42	46.035		
6,700.00	6,612.83	6,877.65	6,572.86	33.88	88.77	-161.19	-581.78	3,788.61	3,117.88	3,050.28	67.60	46.124		
6,750.00	6,659.04	6,931.16	6,626.37	33.94	88.84	-160.75	-581.82	3,788.41	3,135.88	3,068.07	67.80	46.249		
6,800.00	6,703.62	6,997.20	6,692.41	33.99	88.93	-160.24	-581.90	3,787.78	3,157.05	3,089.00	68.04	46.398		
6,850.00	6,746.28	7,041.36	6,736.56	34.03	89.00	-159.54	-581.94	3,787.19	3,181.36	3,113.19	68.16	46.673		
6,900.00	6,786.76	7,082.47	6,777.67	34.08	89.05	-158.67	-581.96	3,786.64	3,208.83	3,140.58	68.25	47.017		
6,950.00	6,824.83	7,117.05	6,812.24	34.13	89.10	-157.56	-581.97	3,786.20	3,239.31	3,171.03	68.29	47.437		
7,000.00	6,860.23	7,146.01	6,841.20	34.20	89.14	-156.16	-582.02	3,785.87	3,272.69	3,204.41	68.28	47.927		
7,050.00	6,892.75	7,172.57	6,867.76	34.30	89.18	-154.40	-582.11	3,785.61	3,308.75	3,240.49	68.26	48.472		
7,100.00	6,922.20	7,196.57	6,891.76	34.43	89.21	-152.19	-582.22	3,785.42	3,347.26	3,279.05	68.22	49.067		
7,150.00	6,948.38	7,220.45	6,915.64	34.60	89.25	-149.40	-582.34	3,785.25	3,387.97	3,319.80	68.17	49.699		
7,200.00	6,971.15	7,241.63	6,936.82	34.82	89.28	-145.78	-582.45	3,785.12	3,430.59	3,362.48	68.11	50.371		
7,250.00	6,990.35	7,259.51	6,954.69	35.09	89.30	-141.00	-582.54	3,785.02	3,474.87	3,406.84	68.03	51.078		
7,300.00	7,005.87	7,273.98	6,969.16	35.43	89.32	-134.59	-582.62	3,784.94	3,520.53	3,452.59	67.94	51.815		
7,350.00	7,017.62	7,284.96	6,980.14	35.81	89.34	-125.88	-582.67	3,784.89	3,567.29	3,499.45	67.85	52.577		
7,400.00	7,025.52	7,292.40	6,987.58	36.26	89.35	-114.18	-582.71	3,784.85	3,614.86	3,547.11	67.75	53.358		
7,450.00	7,029.52	7,296.27	6,991.45	36.75	89.36	-99.33	-582.72	3,784.84	3,662.94	3,595.30	67.64	54.153		
7,483.86	7,030.00	7,296.85	6,992.03	37.12	89.36	-88.07	-582.73	3,784.83	3,695.64	3,628.07	67.57	54.696		
7,500.00	7,029.80	7,296.73	6,991.92	37.30	89.36	-88.07	-582.73	3,784.84	3,711.24	3,643.70	67.53	54.955		
7,600.00	7,028.57	7,296.03	6,991.22	38.58	89.36	-88.02	-582.72	3,784.84	3,807.98	3,740.64	67.34	56.549		
7,700.00	7,027.34	7,295.33	6,990.52	40.10	89.35	-87.98	-582.72	3,784.84	3,904.88	3,837.70	67.18	58.126		
7,800.00	7,026.10	7,294.64	6,989.82	41.83	89.35	-87.94	-582.72	3,784.84	4,001.93	3,934.88	67.05	59.687		
7,900.00	7,024.87	7,293.95	6,989.13	43.74	89.35	-87.90	-582.71	3,784.85	4,099.13	4,032.19	66.94	61.232		
8,000.00	7,023.63	7,293.26	6,988.44	45.82	89.35	-87.86	-582.71	3,784.85	4,196.46	4,129.59	66.86	62.761		
8,100.00	7,022.40	7,292.58	6,987.76	48.04	89.35	-87.82	-582.71	3,784.85	4,293.91	4,227.11	66.80	64.276		
8,200.00	7,021.17	7,291.90	6,987.08	50.38	89.35	-87.77	-582.70	3,784.86	4,391.47	4,324.71	66.76	65.778		
8,300.00	7,019.93	7,291.22	6,986.40	52.82	89.35	-87.73	-582.70	3,784.86	4,489.15	4,422.41	66.74	67.267		
8,400.00	7,018.70	7,290.54	6,985.73	55.35	89.35	-87.69	-582.70	3,784.86	4,586.92	4,520.19	66.72	68.744		
8,500.00	7,017.47	7,289.87	6,985.06	57.97	89.35	-87.65	-582.69	3,784.87	4,684.79	4,618.06	66.73	70.209		
8,600.00	7,016.23	7,289.21	6,984.39	60.65	89.35	-87.61	-582.69	3,784.87	4,782.74	4,716.00	66.74	71.664		
8,700.00	7,015.00	7,288.54	6,983.72	63.39	89.34	-87.57	-582.69	3,784.87	4,880.78	4,814.02	66.76	73.107		
8,800.00	7,013.76	7,287.88	6,983.06	66.19	89.34	-87.53	-582.68	3,784.88	4,978.89	4,912.10	66.79	74.542		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,287.22	6,982.41	69.03	89.34	-87.49	-582.68	3,784.88	5,077.08	5,010.25	66.83	75.966		
9,000.00	7,011.30	7,286.57	6,981.75	71.91	89.34	-87.45	-582.68	3,784.88	5,175.34	5,108.46	66.88	77.382		
9,100.00	7,010.06	7,285.92	6,981.10	74.83	89.34	-87.42	-582.67	3,784.88	5,273.66	5,206.73	66.93	78.790		
9,200.00	7,008.83	7,285.27	6,980.45	77.78	89.34	-87.38	-582.67	3,784.89	5,372.05	5,305.06	66.99	80.189		
9,300.00	7,007.60	7,284.63	6,979.81	80.76	89.34	-87.34	-582.67	3,784.89	5,470.49	5,403.44	67.06	81.581		
9,400.00	7,006.36	7,283.98	6,979.17	83.76	89.34	-87.30	-582.66	3,784.89	5,568.99	5,501.87	67.12	82.965		
9,500.00	7,005.13	7,283.35	6,978.53	86.79	89.34	-87.26	-582.66	3,784.90	5,667.54	5,600.35	67.20	84.342		
9,600.00	7,003.90	7,282.71	6,977.89	89.84	89.34	-87.22	-582.66	3,784.90	5,766.15	5,698.87	67.27	85.712		
9,700.00	7,002.66	7,282.08	6,977.26	92.90	89.34	-87.18	-582.66	3,784.90	5,864.79	5,797.44	67.35	87.076		
9,800.00	7,001.43	7,281.45	6,976.63	95.99	89.33	-87.15	-582.65	3,784.91	5,963.49	5,896.05	67.43	88.433		
9,900.00	7,000.19	7,280.82	6,976.01	99.08	89.33	-87.11	-582.65	3,784.91	6,062.23	5,994.71	67.52	89.785		
10,000.00	6,998.96	7,280.20	6,975.38	102.19	89.33	-87.07	-582.65	3,784.91	6,161.00	6,093.40	67.61	91.130		
10,100.00	6,997.73	7,279.58	6,974.76	105.32	89.33	-87.03	-582.64	3,784.92	6,259.82	6,192.12	67.70	92.470		
10,200.00	6,996.49	7,278.96	6,974.15	108.45	89.33	-87.00	-582.64	3,784.92	6,358.67	6,290.88	67.79	93.804		
10,300.00	6,995.26	7,278.35	6,973.53	111.60	89.33	-86.96	-582.64	3,784.92	6,457.56	6,389.68	67.88	95.133		
10,400.00	6,994.03	7,277.74	6,972.92	114.75	89.33	-86.92	-582.63	3,784.92	6,556.48	6,488.51	67.97	96.457		
10,500.00	6,992.79	7,277.13	6,972.31	117.92	89.33	-86.89	-582.63	3,784.93	6,655.43	6,587.37	68.07	97.776		
10,600.00	6,991.56	7,276.53	6,971.71	121.09	89.33	-86.85	-582.63	3,784.93	6,754.42	6,686.25	68.16	99.089		
10,700.00	6,990.33	7,275.92	6,971.11	124.27	89.33	-86.82	-582.63	3,784.93	6,853.43	6,785.17	68.26	100.398		
10,800.00	6,989.09	7,275.32	6,970.51	127.46	89.33	-86.78	-582.62	3,784.94	6,952.48	6,884.11	68.36	101.703		
10,900.00	6,987.86	7,274.73	6,969.91	130.65	89.32	-86.74	-582.62	3,784.94	7,051.54	6,983.08	68.46	103.003		
11,000.00	6,986.62	7,274.13	6,969.32	133.85	89.32	-86.71	-582.62	3,784.94	7,150.64	7,082.08	68.56	104.298		
11,100.00	6,985.39	7,273.54	6,968.72	137.06	89.32	-86.67	-582.61	3,784.95	7,249.76	7,181.10	68.66	105.589		
11,200.00	6,984.16	7,272.95	6,968.14	140.27	89.32	-86.64	-582.61	3,784.95	7,348.90	7,280.14	68.76	106.875		
11,300.00	6,982.92	7,272.37	6,967.55	143.48	89.32	-86.60	-582.61	3,784.95	7,448.07	7,379.21	68.86	108.157		
11,400.00	6,981.69	7,271.78	6,966.97	146.70	89.32	-86.57	-582.60	3,784.95	7,547.26	7,478.29	68.97	109.435		
11,500.00	6,980.46	7,271.20	6,966.39	149.92	89.32	-86.53	-582.60	3,784.96	7,646.47	7,577.40	69.07	110.709		
11,600.00	6,979.22	7,270.63	6,965.81	153.15	89.32	-86.50	-582.60	3,784.96	7,745.70	7,676.53	69.17	111.979		
11,700.00	6,977.99	7,270.05	6,965.24	156.38	89.32	-86.46	-582.60	3,784.96	7,844.95	7,775.67	69.27	113.245		
11,800.00	6,976.75	7,269.48	6,964.66	159.62	89.32	-86.43	-582.59	3,784.97	7,944.22	7,874.84	69.38	114.506		
11,900.00	6,975.52	7,268.91	6,964.09	162.86	89.32	-86.39	-582.59	3,784.97	8,043.50	7,974.02	69.48	115.764		
12,000.00	6,974.29	7,268.34	6,963.53	166.10	89.32	-86.36	-582.59	3,784.97	8,142.80	8,073.22	69.59	117.018		
12,100.00	6,973.05	7,267.78	6,962.96	169.34	89.32	-86.33	-582.58	3,784.98	8,242.13	8,172.44	69.69	118.268		
12,200.00	6,971.82	7,267.22	6,962.40	172.59	89.31	-86.29	-582.58	3,784.98	8,341.46	8,271.67	69.79	119.514		
12,300.00	6,970.59	7,266.66	6,961.84	175.84	89.31	-86.26	-582.58	3,784.98	8,440.81	8,370.91	69.90	120.756		
12,400.00	6,969.35	7,266.10	6,961.28	179.09	89.31	-86.23	-582.58	3,784.98	8,540.18	8,470.18	70.00	121.995		
12,500.00	6,968.12	7,265.55	6,960.73	182.35	89.31	-86.19	-582.57	3,784.99	8,639.56	8,569.45	70.11	123.230		
12,600.00	6,966.89	7,265.00	6,960.18	185.60	89.31	-86.16	-582.57	3,784.99	8,738.96	8,668.74	70.21	124.461		
12,700.00	6,965.65	7,264.45	6,959.63	188.86	89.31	-86.13	-582.57	3,784.99	8,838.37	8,768.05	70.32	125.688		
12,800.00	6,964.42	7,263.90	6,959.08	192.12	89.31	-86.09	-582.57	3,785.00	8,937.79	8,867.37	70.43	126.912		
12,900.00	6,963.18	7,263.36	6,958.54	195.38	89.31	-86.06	-582.56	3,785.00	9,037.23	8,966.70	70.53	128.132		
13,000.00	6,961.95	7,262.81	6,958.00	198.65	89.31	-86.03	-582.56	3,785.00	9,136.67	9,066.04	70.64	129.348		
13,100.00	6,960.72	7,262.27	6,957.46	201.91	89.31	-86.00	-582.56	3,785.00	9,236.13	9,165.39	70.74	130.561		
13,200.00	6,959.48	7,261.74	6,956.92	205.18	89.31	-85.96	-582.55	3,785.01	9,335.60	9,264.76	70.85	131.770		
13,300.00	6,958.25	7,261.20	6,956.39	208.45	89.31	-85.93	-582.55	3,785.01	9,435.09	9,364.13	70.95	132.975		
13,400.00	6,957.02	7,260.67	6,955.85	211.72	89.30	-85.90	-582.55	3,785.01	9,534.58	9,463.52	71.06	134.177		
13,500.00	6,955.78	7,260.14	6,955.33	214.99	89.30	-85.87	-582.55	3,785.02	9,634.08	9,562.92	71.17	135.375		
13,600.00	6,954.55	7,259.61	6,954.80	218.27	89.30	-85.84	-582.54	3,785.02	9,733.60	9,662.32	71.27	136.570		
13,700.00	6,953.32	7,259.09	6,954.27	221.54	89.30	-85.81	-582.54	3,785.02	9,833.12	9,761.74	71.38	137.761		
13,800.00	6,952.08	7,258.57	6,953.75	224.82	89.30	-85.77	-582.54	3,785.02	9,932.65	9,861.17	71.48	138.948		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.52	-640.53	5,602.15	5,638.87					
100.00	100.00	40.06	40.06	3.28	3.28	96.52	-640.41	5,602.20	5,638.69	5,632.13	6.57	858.779		
200.00	200.00	492.77	491.71	3.34	4.01	96.29	-616.40	5,593.56	5,637.78	5,630.45	7.33	769.280		
300.00	299.98	713.51	709.85	3.44	5.01	22.93	-585.53	5,580.31	5,628.16	5,619.81	8.35	673.755		
400.00	399.84	1,281.87	1,259.03	3.60	9.20	21.87	-454.24	5,524.42	5,610.73	5,598.37	12.36	453.822		
500.00	499.45	1,403.03	1,372.99	3.81	10.41	21.71	-416.33	5,508.45	5,586.40	5,572.75	13.65	409.305		
600.00	598.70	1,510.93	1,474.66	4.08	11.46	21.64	-383.30	5,493.75	5,558.72	5,543.90	14.82	375.090		
700.00	697.47	1,580.71	1,540.58	4.40	12.10	21.70	-362.49	5,484.25	5,528.13	5,512.47	15.66	352.990		
774.77	770.92	1,641.95	1,598.60	4.68	12.64	21.75	-344.67	5,476.02	5,503.49	5,487.11	16.38	336.072		
800.00	795.65	1,663.80	1,619.31	4.78	12.83	21.70	-338.39	5,473.09	5,494.90	5,478.27	16.63	330.441		
900.00	893.64	1,734.17	1,686.15	5.20	13.43	21.54	-318.45	5,463.70	5,461.07	5,443.58	17.48	312.365		
1,000.00	991.63	1,800.00	1,748.84	5.66	13.97	21.40	-300.25	5,455.28	5,427.83	5,409.51	18.32	296.354		
1,100.00	1,089.63	1,854.85	1,801.21	6.15	14.40	21.28	-285.38	5,448.55	5,395.19	5,376.12	19.07	282.974		
1,200.00	1,187.62	1,931.25	1,874.29	6.65	14.98	21.12	-265.01	5,439.55	5,363.11	5,343.13	19.98	268.442		
1,300.00	1,285.62	2,042.18	1,980.58	7.17	15.79	20.89	-236.18	5,426.25	5,330.98	5,309.86	21.12	252.401		
1,400.00	1,383.61	2,169.72	2,102.74	7.71	16.74	20.62	-203.11	5,410.44	5,298.56	5,276.17	22.38	236.706		
1,500.00	1,481.60	2,241.45	2,171.36	8.25	17.27	20.47	-184.34	5,401.28	5,265.84	5,242.55	23.29	226.099		
1,600.00	1,579.60	2,300.00	2,227.49	8.80	17.70	20.34	-169.23	5,394.27	5,233.88	5,209.76	24.12	217.020		
1,700.00	1,677.59	2,363.84	2,288.75	9.36	18.15	20.21	-152.78	5,387.02	5,202.55	5,177.57	24.98	208.308		
1,800.00	1,775.59	2,486.59	2,406.31	9.92	19.04	19.93	-120.30	5,373.21	5,171.43	5,145.20	26.23	197.151		
1,900.00	1,873.58	2,621.31	2,534.86	10.49	20.07	19.61	-83.39	5,356.97	5,139.49	5,111.87	27.61	186.116		
2,000.00	1,971.57	2,796.14	2,700.33	11.06	21.54	19.14	-31.74	5,334.33	5,106.78	5,077.39	29.39	173.767		
2,100.00	2,069.57	2,854.35	2,755.14	11.64	22.05	18.97	-13.80	5,326.46	5,073.45	5,043.12	30.33	167.265		
2,200.00	2,167.56	2,920.42	2,817.58	12.22	22.62	18.79	6.07	5,317.98	5,040.86	5,009.53	31.33	160.892		
2,300.00	2,265.56	3,037.27	2,928.43	12.80	23.59	18.47	39.76	5,302.79	5,008.31	4,975.63	32.68	153.271		
2,400.00	2,363.55	3,122.95	3,009.43	13.38	24.31	18.23	65.25	5,291.36	4,975.49	4,941.69	33.80	147.190		
2,500.00	2,461.54	3,170.57	3,054.67	13.97	24.69	18.10	78.80	5,285.31	4,943.41	4,908.76	34.65	142.667		
2,600.00	2,559.54	3,231.76	3,113.22	14.55	25.15	17.94	95.05	5,278.03	4,912.21	4,876.64	35.57	138.111		
2,700.00	2,657.53	3,325.18	3,202.75	15.14	25.81	17.71	119.41	5,267.17	4,881.40	4,844.74	36.66	133.162		
2,800.00	2,755.53	3,427.65	3,300.95	15.73	26.53	17.46	145.97	5,254.81	4,850.25	4,812.45	37.80	128.327		
2,900.00	2,853.52	3,482.47	3,353.67	16.32	26.90	17.33	159.55	5,248.48	4,819.68	4,781.04	38.64	124.721		
3,000.00	2,951.52	3,000.00	3,459.14	16.91	23.84	17.09	185.12	5,235.98	4,789.30	4,753.11	36.19	132.325		
3,100.00	3,049.51	3,668.17	3,533.03	17.51	28.08	16.92	202.63	5,227.10	4,758.89	4,718.19	40.70	116.936		
3,200.00	3,147.50	3,763.50	3,625.15	18.10	28.68	16.71	224.84	5,216.66	4,729.12	4,687.38	41.74	113.301		
3,300.00	3,245.50	4,005.39	3,855.29	18.70	30.59	16.01	292.06	5,185.24	4,696.98	4,653.12	43.86	107.098		
3,400.00	3,343.49	4,086.79	3,931.60	19.29	31.35	15.72	317.99	5,173.79	4,664.36	4,619.29	45.07	103.493		
3,500.00	3,441.49	4,148.99	3,989.94	19.89	31.91	15.51	337.79	5,165.25	4,632.21	4,586.09	46.11	100.452		
3,600.00	3,539.48	4,200.00	4,038.09	20.48	32.36	15.33	353.27	5,158.58	4,600.84	4,553.77	47.07	97.743		
3,700.00	3,637.47	4,257.58	4,092.70	21.08	32.81	15.15	370.10	5,151.52	4,570.35	4,522.32	48.02	95.170		
3,800.00	3,735.47	4,320.95	4,153.02	21.68	33.30	14.95	388.13	5,144.38	4,540.80	4,491.79	49.01	92.647		
3,900.00	3,833.46	4,460.19	4,284.95	22.27	34.40	14.48	429.65	5,128.30	4,511.21	4,460.70	50.51	89.316		
4,000.00	3,931.46	4,587.37	4,405.18	22.87	35.45	14.04	467.90	5,112.23	4,480.69	4,428.72	51.97	86.219		
4,100.00	4,029.45	4,678.30	4,490.67	23.47	36.26	13.70	496.51	5,100.43	4,450.04	4,396.80	53.24	83.588		
4,200.00	4,127.44	4,830.19	4,633.05	24.07	37.65	13.11	545.17	5,079.69	4,418.95	4,363.97	54.98	80.378		
4,300.00	4,225.44	4,916.88	4,714.77	24.67	38.42	12.79	571.28	5,067.29	4,387.37	4,331.16	56.21	78.056		
4,400.00	4,323.43	4,975.07	4,769.79	25.27	38.91	12.58	588.48	5,059.29	4,356.41	4,299.19	57.22	76.128		
4,507.81	4,429.08	5,042.14	4,833.33	25.92	39.46	12.34	608.11	5,050.60	4,323.97	4,265.64	58.33	74.125		
4,600.00	4,519.70	5,102.49	4,890.57	26.45	39.94	12.00	625.71	5,043.16	4,298.30	4,239.01	59.29	72.499		
4,700.00	4,618.56	5,178.59	4,963.13	26.98	40.50	11.63	646.86	5,034.23	4,274.23	4,213.89	60.34	70.840		
4,800.00	4,717.88	5,234.74	5,017.09	27.46	40.86	11.37	661.08	5,028.03	4,254.19	4,192.97	61.21	69.498		
4,900.00	4,817.54	5,300.00	5,080.45	27.89	41.24	11.11	675.40	5,021.87	4,238.73	4,176.65	62.09	68.270		
5,000.00	4,917.43	5,337.48	5,117.12	28.28	41.41	10.97	682.53	5,018.83	4,227.71	4,164.94	62.77	67.356		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,384.03	5,162.90	28.57	41.61	83.99	690.26	5,015.50	4,222.02	4,158.66	63.36	66.639		
5,100.00	5,017.42	5,400.00	5,178.66	28.62	41.67	83.96	692.63	5,014.47	4,221.17	4,157.67	63.50	66.477		
5,200.00	5,117.42	5,460.00	5,238.13	28.95	41.88	83.85	700.53	5,010.99	4,216.72	4,152.56	64.15	65.729		
5,300.00	5,217.42	5,532.86	5,310.39	29.28	42.11	83.74	708.26	5,007.48	4,213.03	4,148.21	64.82	64.995		
5,400.00	5,317.42	5,612.11	5,389.26	29.62	42.34	83.64	715.45	5,004.18	4,209.88	4,144.40	65.48	64.291		
5,500.00	5,417.42	5,686.66	5,463.54	29.96	42.54	83.56	721.14	5,001.61	4,207.29	4,141.17	66.12	63.632		
5,600.00	5,517.42	5,757.34	5,534.05	30.29	42.73	83.49	725.64	4,999.72	4,205.35	4,138.61	66.74	63.013		
5,700.00	5,617.42	5,835.85	5,612.43	30.64	42.93	83.43	729.83	4,998.25	4,204.08	4,136.72	67.36	62.409		
5,800.00	5,717.42	5,932.43	5,708.94	30.98	43.17	83.38	733.22	4,996.90	4,203.09	4,135.07	68.02	61.796		
5,900.00	5,817.42	6,036.07	5,812.56	31.33	43.42	83.36	734.89	4,995.60	4,202.03	4,133.36	68.68	61.186		
6,000.00	5,917.42	6,139.04	5,915.51	31.68	43.68	83.34	735.89	4,994.38	4,200.96	4,131.63	69.34	60.587		
6,100.00	6,017.42	6,250.60	6,027.06	32.03	43.95	83.33	736.91	4,992.81	4,199.68	4,129.66	70.02	59.979		
6,200.00	6,117.42	6,362.66	6,139.10	32.38	44.24	83.31	737.89	4,990.94	4,198.12	4,127.41	70.71	59.375		
6,300.00	6,217.42	6,470.17	6,246.59	32.74	44.51	83.29	738.89	4,988.86	4,196.30	4,124.91	71.39	58.781		
6,400.00	6,317.42	6,558.74	6,335.12	33.09	44.74	83.27	740.26	4,987.08	4,194.50	4,122.45	72.04	58.223		
6,476.01	6,393.43	6,625.88	6,402.24	33.37	44.92	83.25	741.63	4,985.92	4,193.38	4,120.84	72.54	57.806		
6,484.97	6,402.39	6,634.88	6,411.24	33.40	44.94	175.58	741.83	4,985.77	4,193.31	4,120.71	72.60	57.758 CC, ES		
6,500.00	6,417.42	6,649.97	6,426.33	33.45	44.98	175.58	742.18	4,985.52	4,193.49	4,120.79	72.70	57.681		
6,550.00	6,467.25	6,700.08	6,476.41	33.59	45.12	175.54	743.44	4,984.66	4,196.62	4,123.60	73.02	57.472		
6,600.00	6,516.64	6,745.80	6,522.11	33.71	45.24	175.48	744.65	4,983.89	4,203.66	4,130.34	73.32	57.332		
6,650.00	6,565.26	6,790.86	6,567.15	33.80	45.36	175.39	745.84	4,983.17	4,214.60	4,140.99	73.61	57.258		
6,700.00	6,612.83	6,837.92	6,614.18	33.88	45.49	175.28	747.10	4,982.44	4,229.35	4,155.46	73.88	57.244 SF		
6,750.00	6,659.04	6,884.43	6,660.68	33.94	45.62	175.13	748.34	4,981.73	4,247.78	4,173.64	74.14	57.292		
6,800.00	6,703.62	6,939.07	6,715.28	33.99	45.76	174.95	749.88	4,980.83	4,269.76	4,195.35	74.41	57.385		
6,850.00	6,746.28	6,996.57	6,772.74	34.03	45.92	174.72	751.72	4,979.68	4,295.04	4,220.38	74.66	57.529		
6,900.00	6,786.76	7,051.53	6,827.65	34.08	46.08	174.44	753.73	4,978.36	4,323.48	4,248.58	74.89	57.727		
6,950.00	6,824.83	7,103.60	6,879.66	34.13	46.23	174.10	755.89	4,976.93	4,354.92	4,279.81	75.11	57.981		
7,000.00	6,860.23	7,138.94	6,914.95	34.20	46.33	173.66	757.51	4,975.89	4,389.25	4,313.97	75.28	58.308		
7,050.00	6,892.75	7,172.42	6,948.36	34.30	46.43	173.11	759.18	4,974.89	4,426.31	4,350.88	75.43	58.685		
7,100.00	6,922.20	7,202.90	6,978.79	34.43	46.52	172.41	760.82	4,973.96	4,465.87	4,390.32	75.55	59.109		
7,150.00	6,948.38	7,224.52	7,000.36	34.60	46.58	171.47	762.05	4,973.31	4,507.71	4,432.05	75.65	59.585		
7,200.00	6,971.15	7,243.89	7,019.69	34.82	46.64	170.20	763.19	4,972.75	4,551.56	4,475.83	75.73	60.101		
7,250.00	6,990.35	7,260.35	7,036.12	35.09	46.69	168.39	764.20	4,972.28	4,597.17	4,521.37	75.80	60.651		
7,300.00	7,005.87	7,273.83	7,049.56	35.43	46.73	165.64	765.05	4,971.90	4,644.22	4,568.37	75.85	61.232		
7,350.00	7,017.62	7,284.25	7,059.95	35.81	46.76	161.03	765.73	4,971.62	4,692.43	4,616.55	75.88	61.838		
7,400.00	7,025.52	7,291.56	7,067.24	36.26	46.78	152.00	766.21	4,971.42	4,741.49	4,665.58	75.91	62.464		
7,450.00	7,029.52	7,295.73	7,071.41	36.75	46.80	129.50	766.48	4,971.31	4,791.10	4,715.18	75.92	63.104		
7,483.86	7,030.00	7,296.77	7,072.44	37.12	46.80	95.43	766.55	4,971.28	4,824.85	4,748.92	75.93	63.543		
7,500.00	7,029.80	7,296.92	7,072.59	37.30	46.80	95.45	766.56	4,971.27	4,840.95	4,765.01	75.93	63.753		
7,600.00	7,028.57	7,297.86	7,073.53	38.58	46.80	95.60	766.63	4,971.25	4,940.69	4,864.74	75.95	65.054		
7,700.00	7,027.34	7,300.00	7,075.66	40.10	46.81	95.95	766.77	4,971.19	5,040.44	4,964.48	75.97	66.350		
7,800.00	7,026.10	7,300.00	7,075.66	41.83	46.81	95.95	766.77	4,971.19	5,140.21	5,064.22	75.98	67.649		
7,900.00	7,024.87	7,300.00	7,075.66	43.74	46.81	95.95	766.77	4,971.19	5,239.98	5,163.98	76.00	68.945		
8,000.00	7,023.63	7,300.00	7,075.66	45.82	46.81	95.95	766.77	4,971.19	5,339.76	5,263.74	76.02	70.239		
8,100.00	7,022.40	7,300.00	7,075.66	48.04	46.81	95.95	766.77	4,971.19	5,439.55	5,363.50	76.04	71.531		
8,200.00	7,021.17	7,300.00	7,075.66	50.38	46.81	95.95	766.77	4,971.19	5,539.34	5,463.28	76.07	72.821		
8,300.00	7,019.93	7,300.00	7,075.66	52.82	46.81	95.95	766.77	4,971.19	5,639.15	5,563.05	76.09	74.109		
8,400.00	7,018.70	7,300.00	7,075.66	55.35	46.81	95.95	766.77	4,971.19	5,738.96	5,662.84	76.12	75.394		
8,500.00	7,017.47	7,300.00	7,075.66	57.97	46.81	95.95	766.77	4,971.19	5,838.77	5,762.63	76.15	76.677		
8,600.00	7,016.23	7,300.00	7,075.66	60.65	46.81	95.95	766.77	4,971.19	5,938.60	5,862.42	76.18	77.958		
8,700.00	7,015.00	7,300.00	7,075.66	63.39	46.81	95.95	766.77	4,971.19	6,038.43	5,962.22	76.21	79.237		
8,800.00	7,013.76	7,300.00	7,075.66	66.19	46.81	95.95	766.77	4,971.19	6,138.26	6,062.02	76.24	80.513		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,300.00	7,075.66	69.03	46.81	95.95	766.77	4,971.19	6,238.10	6,161.83	76.27	81.787		
9,000.00	7,011.30	7,300.00	7,075.66	71.91	46.81	95.95	766.77	4,971.19	6,337.94	6,261.64	76.31	83.059		
9,100.00	7,010.06	7,300.00	7,075.66	74.83	46.81	95.95	766.77	4,971.19	6,437.79	6,361.45	76.34	84.328		
9,200.00	7,008.83	7,300.00	7,075.66	77.78	46.81	95.95	766.77	4,971.19	6,537.65	6,461.27	76.38	85.595		
9,300.00	7,007.60	7,300.00	7,075.66	80.76	46.81	95.95	766.77	4,971.19	6,637.51	6,561.09	76.42	86.860		
9,400.00	7,006.36	7,300.00	7,075.66	83.76	46.81	95.95	766.77	4,971.19	6,737.37	6,660.91	76.46	88.122		
9,500.00	7,005.13	7,300.00	7,075.66	86.79	46.81	95.95	766.77	4,971.19	6,837.24	6,760.74	76.50	89.381		
9,600.00	7,003.90	7,300.00	7,075.66	89.84	46.81	95.95	766.77	4,971.19	6,937.11	6,860.57	76.54	90.639		
9,700.00	7,002.66	7,300.00	7,075.66	92.90	46.81	95.95	766.77	4,971.19	7,036.98	6,960.40	76.58	91.893		
9,800.00	7,001.43	7,300.00	7,075.66	95.99	46.81	95.95	766.77	4,971.19	7,136.86	7,060.24	76.62	93.146		
9,900.00	7,000.19	7,300.00	7,075.66	99.08	46.81	95.95	766.77	4,971.19	7,236.74	7,160.08	76.66	94.395		
10,000.00	6,998.96	7,300.00	7,075.66	102.19	46.81	95.95	766.77	4,971.19	7,336.62	7,259.91	76.71	95.642		
10,100.00	6,997.73	7,300.00	7,075.66	105.32	46.81	95.95	766.77	4,971.19	7,436.51	7,359.76	76.75	96.887		
10,200.00	6,996.49	7,300.00	7,075.66	108.45	46.81	95.95	766.77	4,971.19	7,536.40	7,459.60	76.80	98.129		
10,300.00	6,995.26	7,300.00	7,075.66	111.60	46.81	95.95	766.77	4,971.19	7,636.30	7,559.45	76.85	99.368		
10,400.00	6,994.03	7,300.00	7,075.66	114.75	46.81	95.95	766.77	4,971.19	7,736.19	7,659.29	76.90	100.604		
10,500.00	6,992.79	7,300.00	7,075.66	117.92	46.81	95.95	766.77	4,971.19	7,836.09	7,759.14	76.95	101.838		
10,600.00	6,991.56	7,300.00	7,075.66	121.09	46.81	95.95	766.77	4,971.19	7,935.99	7,858.99	77.00	103.069		
10,700.00	6,990.33	7,300.00	7,075.66	124.27	46.81	95.95	766.77	4,971.19	8,035.90	7,958.85	77.05	104.297		
10,800.00	6,989.09	7,318.37	7,093.98	127.46	46.86	98.88	767.99	4,970.72	8,135.76	8,058.62	77.14	105.463		
10,900.00	6,987.86	7,318.87	7,094.49	130.65	46.87	98.96	768.03	4,970.71	8,235.67	8,158.47	77.20	106.683		
11,000.00	6,986.62	7,319.38	7,094.99	133.85	46.87	99.04	768.06	4,970.69	8,335.58	8,258.33	77.25	107.901		
11,100.00	6,985.39	7,319.87	7,095.49	137.06	46.87	99.12	768.09	4,970.68	8,435.49	8,358.18	77.31	109.115		
11,200.00	6,984.16	7,320.36	7,095.98	140.27	46.87	99.19	768.13	4,970.67	8,535.40	8,458.04	77.36	110.327		
11,300.00	6,982.92	7,320.85	7,096.46	143.48	46.87	99.27	768.16	4,970.66	8,635.32	8,557.89	77.42	111.535		
11,400.00	6,981.69	7,321.33	7,096.94	146.70	46.87	99.35	768.19	4,970.65	8,735.23	8,657.75	77.48	112.741		
11,500.00	6,980.46	7,321.80	7,097.41	149.92	46.87	99.42	768.22	4,970.64	8,835.15	8,757.61	77.54	113.943		
11,600.00	6,979.22	7,322.27	7,097.88	153.15	46.88	99.49	768.25	4,970.62	8,935.07	8,857.47	77.60	115.143		
11,700.00	6,977.99	7,322.74	7,098.34	156.38	46.88	99.57	768.28	4,970.61	9,034.99	8,957.33	77.66	116.339		
11,800.00	6,976.75	7,323.19	7,098.80	159.62	46.88	99.64	768.32	4,970.60	9,134.92	9,057.19	77.72	117.532		
11,900.00	6,975.52	7,323.65	7,099.25	162.86	46.88	99.71	768.35	4,970.59	9,234.84	9,157.06	77.78	118.723		
12,000.00	6,974.29	7,324.10	7,099.70	166.10	46.88	99.78	768.37	4,970.58	9,334.77	9,256.92	77.85	119.910		
12,100.00	6,973.05	7,324.54	7,100.14	169.34	46.88	99.85	768.40	4,970.57	9,434.70	9,356.78	77.91	121.094		
12,200.00	6,971.82	7,324.98	7,100.58	172.59	46.88	99.92	768.43	4,970.56	9,534.63	9,456.65	77.98	122.275		
12,300.00	6,970.59	7,325.41	7,101.01	175.84	46.88	99.99	768.46	4,970.55	9,634.56	9,556.52	78.04	123.452		
12,400.00	6,969.35	7,325.84	7,101.44	179.09	46.89	100.05	768.49	4,970.54	9,734.49	9,656.38	78.11	124.626		
12,500.00	6,968.12	7,326.27	7,101.87	182.35	46.89	100.12	768.52	4,970.53	9,834.42	9,756.25	78.18	125.797		
12,600.00	6,966.89	7,326.69	7,102.29	185.60	46.89	100.19	768.55	4,970.52	9,934.36	9,856.12	78.24	126.965		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.97	-682.06	5,578.50	5,620.26					
100.00	100.00	54.02	54.02	3.28	3.28	96.97	-682.05	5,578.48	5,620.02	5,613.45	6.57	855.818		
200.00	200.00	162.07	162.07	3.34	3.30	96.97	-681.90	5,578.34	5,619.88	5,613.24	6.64	846.843		
300.00	299.98	270.08	270.08	3.44	3.33	23.84	-681.60	5,578.07	5,618.00	5,611.22	6.78	829.013		
400.00	399.84	377.95	377.95	3.60	3.38	23.90	-681.15	5,577.66	5,612.78	5,605.79	6.99	803.504		
500.00	499.45	485.53	485.53	3.81	3.45	24.01	-680.55	5,577.11	5,604.24	5,596.98	7.26	772.246		
600.00	598.70	592.68	592.67	4.08	3.53	24.15	-679.82	5,576.43	5,592.39	5,584.80	7.59	737.264		
700.00	697.47	699.26	699.25	4.40	3.62	24.34	-678.93	5,575.62	5,577.25	5,569.28	7.96	700.280		
774.77	770.92	778.50	778.48	4.68	3.70	24.51	-678.18	5,574.93	5,563.79	5,555.51	8.28	672.038		
800.00	795.65	805.16	805.13	4.78	3.73	24.53	-677.91	5,574.68	5,558.94	5,550.55	8.39	662.468		
900.00	893.64	910.81	910.77	5.20	3.84	24.61	-676.75	5,573.61	5,539.63	5,530.78	8.84	626.332		
1,000.00	991.63	1,016.42	1,016.37	5.66	3.97	24.69	-675.45	5,572.41	5,520.19	5,510.86	9.33	591.624		
1,100.00	1,089.63	1,121.99	1,121.92	6.15	4.10	24.77	-674.00	5,571.08	5,500.62	5,490.77	9.84	558.773		
1,200.00	1,187.62	1,227.52	1,227.43	6.65	4.25	24.85	-672.42	5,569.62	5,480.92	5,470.54	10.38	527.981		
1,300.00	1,285.62	1,335.11	1,334.99	7.17	4.45	24.93	-670.66	5,567.99	5,461.09	5,450.10	10.99	497.095		
1,400.00	1,383.61	1,435.05	1,434.90	7.71	4.75	25.01	-669.02	5,566.29	5,441.08	5,429.37	11.71	464.678		
1,500.00	1,481.60	1,522.43	1,522.27	8.25	5.04	25.08	-667.93	5,564.90	5,421.24	5,408.82	12.42	436.473		
1,600.00	1,579.60	1,643.77	1,643.58	8.80	5.45	25.18	-666.55	5,562.93	5,401.43	5,388.16	13.26	407.221		
1,700.00	1,677.59	1,778.23	1,777.99	9.36	5.93	25.30	-665.82	5,559.63	5,380.85	5,366.68	14.18	379.600		
1,800.00	1,775.59	1,858.14	1,857.88	9.92	6.23	25.38	-665.71	5,557.54	5,360.20	5,345.28	14.92	359.380		
1,900.00	1,873.58	1,900.00	3,208.97	10.49	6.27	27.32	-684.70	5,305.37	5,321.72	5,306.85	14.87	357.930		
2,000.00	1,971.57	3,317.91	3,292.92	11.06	12.52	27.48	-686.02	5,326.85	5,278.44	5,257.26	21.18	249.254		
2,100.00	2,069.57	3,365.00	3,338.45	11.64	12.75	27.56	-686.45	5,314.87	5,236.26	5,214.42	21.85	239.664		
2,200.00	2,167.56	3,384.62	3,357.48	12.22	12.85	27.59	-686.67	5,310.07	5,194.94	5,172.51	22.43	231.618		
2,300.00	2,265.56	3,439.94	3,411.16	12.80	13.12	27.69	-687.73	5,296.74	5,154.45	5,131.30	23.15	222.694		
2,400.00	2,363.55	3,732.33	3,693.38	13.38	14.61	28.30	-696.60	5,220.96	5,112.34	5,087.62	24.12	206.816		
2,500.00	2,461.54	2,500.00	3,858.16	13.97	8.54	28.70	-703.34	5,171.38	5,067.85	5,048.44	19.41	261.070		
2,600.00	2,559.54	4,021.00	3,969.12	14.55	16.17	28.97	-707.71	5,136.30	5,022.14	4,995.32	26.82	187.232		
2,700.00	2,657.53	4,051.11	3,997.86	15.14	16.33	29.05	-708.80	5,127.40	4,977.14	4,949.66	27.48	181.089		
2,800.00	2,755.53	4,078.50	4,024.11	15.73	16.48	29.11	-709.85	5,119.63	4,933.28	4,905.14	28.14	175.292		
2,900.00	2,853.52	4,115.00	4,059.22	16.32	16.68	29.20	-711.35	5,109.78	4,890.59	4,861.75	28.84	169.582		
3,000.00	2,951.52	4,142.06	4,085.34	16.91	16.82	29.27	-712.48	5,102.78	4,848.98	4,819.47	29.51	164.338		
3,100.00	3,049.51	4,181.89	4,123.87	17.51	17.03	29.36	-714.06	5,092.84	4,808.39	4,778.16	30.22	159.104		
3,200.00	3,147.50	4,208.00	4,149.19	18.10	17.17	29.42	-715.04	5,086.55	4,768.83	4,737.94	30.89	154.361		
3,300.00	3,245.50	4,263.02	4,202.70	18.70	17.45	29.55	-717.06	5,073.88	4,730.19	4,698.52	31.67	149.371		
3,400.00	3,343.49	4,302.00	4,240.71	19.29	17.65	29.64	-718.49	5,065.36	4,692.62	4,660.23	32.39	144.880		
3,500.00	3,441.49	4,344.18	4,281.95	19.89	17.86	29.74	-719.98	5,056.62	4,656.09	4,622.97	33.12	140.567		
3,600.00	3,539.48	4,396.00	4,332.75	20.48	18.11	29.86	-721.67	5,046.57	4,620.67	4,586.78	33.89	136.329		
3,700.00	3,637.47	4,438.06	4,374.08	21.08	18.32	29.95	-722.94	5,038.85	4,586.19	4,551.56	34.63	132.434		
3,800.00	3,735.47	4,490.00	4,425.18	21.68	18.57	30.06	-724.36	5,029.65	4,552.50	4,517.09	35.40	128.593		
3,900.00	3,833.46	4,534.07	4,468.61	22.27	18.78	30.16	-725.46	5,022.31	4,519.79	4,483.64	36.15	125.039		
4,000.00	3,931.46	4,583.00	4,516.97	22.87	19.01	30.26	-726.57	5,014.87	4,488.27	4,451.36	36.91	121.601		
4,100.00	4,029.45	4,583.00	4,516.97	23.47	19.01	30.26	-726.57	5,014.87	4,458.14	4,420.64	37.50	118.882		
4,200.00	4,127.44	4,641.38	4,574.83	24.07	19.28	30.38	-727.74	5,007.18	4,428.97	4,390.68	38.29	115.666		
4,300.00	4,225.44	4,677.00	4,610.22	24.67	19.44	30.44	-728.36	5,003.23	4,401.37	4,362.37	39.00	112.852		
4,400.00	4,323.43	4,727.69	4,660.66	25.27	19.66	30.54	-729.00	4,998.26	4,374.95	4,335.19	39.76	110.034		
4,507.81	4,429.08	4,771.00	4,703.80	25.92	19.85	30.61	-729.25	4,994.44	4,347.57	4,307.03	40.54	107.253		
4,600.00	4,519.70	4,824.49	4,757.14	26.45	20.08	30.47	-729.09	4,990.43	4,326.35	4,285.11	41.24	104.899		
4,700.00	4,618.56	4,864.00	4,796.57	26.98	20.25	30.32	-728.61	4,988.07	4,307.37	4,265.45	41.92	102.749		
4,800.00	4,717.88	4,918.18	4,850.68	27.46	20.47	30.21	-727.82	4,985.52	4,292.52	4,249.90	42.62	100.704		
4,900.00	4,817.54	4,969.72	4,902.19	27.89	20.69	30.12	-727.20	4,983.73	4,281.84	4,238.55	43.29	98.901		
5,000.00	4,917.43	5,034.22	4,966.67	28.28	20.95	30.07	-726.67	4,982.05	4,275.11	4,231.12	43.99	97.193		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,065.90	4,998.34	28.57	21.08	103.20	-726.51	4,981.39	4,272.52	4,228.07	44.45	96.117		
5,100.00	5,017.42	5,065.90	4,998.34	28.62	21.08	103.20	-726.51	4,981.39	4,272.36	4,227.84	44.52	95.966		
5,130.92	5,048.34	5,065.90	4,998.34	28.73	21.08	103.20	-726.51	4,981.39	4,272.25	4,227.61	44.64	95.704 CC, ES		
5,200.00	5,117.42	5,065.90	4,998.34	28.95	21.08	103.20	-726.51	4,981.39	4,272.81	4,227.91	44.90	95.161		
5,300.00	5,217.42	5,065.90	4,998.34	29.28	21.08	103.20	-726.51	4,981.39	4,275.59	4,230.33	45.26	94.467		
5,400.00	5,317.42	5,065.90	4,998.34	29.62	21.08	103.20	-726.51	4,981.39	4,280.71	4,235.12	45.60	93.883		
5,500.00	5,417.42	5,065.90	4,998.34	29.96	21.08	103.20	-726.51	4,981.39	4,288.16	4,242.25	45.91	93.405		
5,600.00	5,517.42	5,065.90	4,998.34	30.29	21.08	103.20	-726.51	4,981.39	4,297.92	4,251.72	46.20	93.031		
5,700.00	5,617.42	5,065.90	4,998.34	30.64	21.08	103.20	-726.51	4,981.39	4,309.98	4,263.52	46.46	92.759		
5,800.00	5,717.42	5,065.90	4,998.34	30.98	21.08	103.20	-726.51	4,981.39	4,324.32	4,277.62	46.71	92.586		
5,900.00	5,817.42	5,065.90	4,998.34	31.33	21.08	103.20	-726.51	4,981.39	4,340.92	4,294.00	46.92	92.509 SF		
6,000.00	5,917.42	5,065.90	4,998.34	31.68	21.08	103.20	-726.51	4,981.39	4,359.75	4,312.63	47.12	92.527		
6,100.00	6,017.42	5,065.90	4,998.34	32.03	21.08	103.20	-726.51	4,981.39	4,380.78	4,333.49	47.29	92.637		
6,200.00	6,117.42	5,065.90	4,998.34	32.38	21.08	103.20	-726.51	4,981.39	4,403.98	4,356.54	47.44	92.837		
6,300.00	6,217.42	5,065.90	4,998.34	32.74	21.08	103.20	-726.51	4,981.39	4,429.32	4,381.75	47.56	93.124		
6,400.00	6,317.42	5,065.90	4,998.34	33.09	21.08	103.20	-726.51	4,981.39	4,456.76	4,409.09	47.67	93.497		
6,476.01	6,393.43	5,065.90	4,998.34	33.37	21.08	103.20	-726.51	4,981.39	4,478.99	4,431.26	47.73	93.835		
6,500.00	6,417.42	5,065.90	4,998.34	33.45	21.08	-164.27	-726.51	4,981.39	4,486.67	4,438.92	47.75	93.966		
6,550.00	6,467.25	5,065.90	4,998.34	33.59	21.08	-163.76	-726.51	4,981.39	4,505.64	4,457.88	47.76	94.334		
6,600.00	6,516.64	5,065.90	4,998.34	33.71	21.08	-163.10	-726.51	4,981.39	4,528.49	4,480.73	47.76	94.813		
6,650.00	6,565.26	5,065.90	4,998.34	33.80	21.08	-162.26	-726.51	4,981.39	4,555.02	4,507.28	47.75	95.401		
6,700.00	6,612.83	5,065.90	4,998.34	33.88	21.08	-161.20	-726.51	4,981.39	4,585.01	4,537.29	47.72	96.090		
6,750.00	6,659.04	5,065.90	4,998.34	33.94	21.08	-159.87	-726.51	4,981.39	4,618.20	4,570.53	47.67	96.872		
6,800.00	6,703.62	5,065.90	4,998.34	33.99	21.08	-158.19	-726.51	4,981.39	4,654.32	4,606.70	47.62	97.735		
6,850.00	6,746.28	5,065.90	4,998.34	34.03	21.08	-156.04	-726.51	4,981.39	4,693.09	4,645.53	47.56	98.670		
6,900.00	6,786.76	5,065.90	4,998.34	34.08	21.08	-153.25	-726.51	4,981.39	4,734.21	4,686.71	47.50	99.663		
6,950.00	6,824.83	5,065.90	4,998.34	34.13	21.08	-149.56	-726.51	4,981.39	4,777.36	4,729.92	47.44	100.704		
7,000.00	6,860.23	5,065.90	4,998.34	34.20	21.08	-144.58	-726.51	4,981.39	4,822.22	4,774.84	47.38	101.778		
7,050.00	6,892.75	5,065.90	4,998.34	34.30	21.08	-137.69	-726.51	4,981.39	4,868.49	4,821.16	47.33	102.872		
7,100.00	6,922.20	5,065.90	4,998.34	34.43	21.08	-127.97	-726.51	4,981.39	4,915.83	4,868.55	47.28	103.973		
7,150.00	6,948.38	5,065.90	4,998.34	34.60	21.08	-114.43	-726.51	4,981.39	4,963.92	4,916.68	47.25	105.067		
7,200.00	6,971.15	5,065.90	4,998.34	34.82	21.08	-96.95	-726.51	4,981.39	5,012.47	4,965.24	47.22	106.141		
7,250.00	6,990.35	5,065.90	4,998.34	35.09	21.08	-77.88	-726.51	4,981.39	5,061.14	5,013.92	47.22	107.182		
7,300.00	7,005.87	5,065.90	4,998.34	35.43	21.08	-61.03	-726.51	4,981.39	5,109.66	5,062.42	47.23	108.177		
7,350.00	7,017.62	5,065.90	4,998.34	35.81	21.08	-48.26	-726.51	4,981.39	5,157.72	5,110.45	47.27	109.114		
7,400.00	7,025.52	5,065.90	4,998.34	36.26	21.08	-39.13	-726.51	4,981.39	5,205.04	5,157.72	47.33	109.983		
7,450.00	7,029.52	5,065.90	4,998.34	36.75	21.08	-32.64	-726.51	4,981.39	5,251.37	5,203.96	47.41	110.774		
7,483.86	7,030.00	5,065.90	4,998.34	37.12	21.08	-29.28	-726.51	4,981.39	5,282.05	5,234.57	47.47	111.265		
7,500.00	7,029.80	5,065.90	4,998.34	37.30	21.08	-29.28	-726.51	4,981.39	5,296.52	5,249.01	47.51	111.489		
7,600.00	7,028.57	5,065.90	4,998.34	38.58	21.08	-29.28	-726.51	4,981.39	5,386.42	5,338.68	47.74	112.826		
7,700.00	7,027.34	5,065.90	4,998.34	40.10	21.08	-29.28	-726.51	4,981.39	5,476.67	5,428.69	47.98	114.140		
7,800.00	7,026.10	5,065.90	4,998.34	41.83	21.08	-29.28	-726.51	4,981.39	5,567.25	5,519.03	48.23	115.432		
7,900.00	7,024.87	5,065.90	4,998.34	43.74	21.08	-29.28	-726.51	4,981.39	5,658.16	5,609.67	48.48	116.705		
8,000.00	7,023.63	5,065.90	4,998.34	45.82	21.08	-29.28	-726.51	4,981.39	5,749.36	5,700.62	48.74	117.961		
8,100.00	7,022.40	5,065.90	4,998.34	48.04	21.08	-29.28	-726.51	4,981.39	5,840.85	5,791.85	49.00	119.203		
8,200.00	7,021.17	5,065.90	4,998.34	50.38	21.08	-29.28	-726.51	4,981.39	5,932.62	5,883.35	49.26	120.430		
8,300.00	7,019.93	5,065.90	4,998.34	52.82	21.08	-29.28	-726.51	4,981.39	6,024.64	5,975.12	49.53	121.647		
8,400.00	7,018.70	5,065.90	4,998.34	55.35	21.08	-29.28	-726.51	4,981.39	6,116.92	6,067.13	49.79	122.852		
8,500.00	7,017.47	5,065.90	4,998.34	57.97	21.08	-29.28	-726.51	4,981.39	6,209.44	6,159.38	50.06	124.049		
8,600.00	7,016.23	5,065.90	4,998.34	60.65	21.08	-29.28	-726.51	4,981.39	6,302.19	6,251.86	50.32	125.238		
8,700.00	7,015.00	5,065.90	4,998.34	63.39	21.08	-29.28	-726.51	4,981.39	6,395.15	6,344.56	50.59	126.421		
8,800.00	7,013.76	5,065.90	4,998.34	66.19	21.08	-29.28	-726.51	4,981.39	6,488.32	6,437.47	50.85	127.597		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 1304-MWD+IFR1													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	5,065.90	4,998.34	69.03	21.08	-29.28	-726.51	4,981.39	6,581.70	6,530.59	51.11	128.768		
9,000.00	7,011.30	5,065.90	4,998.34	71.91	21.08	-29.28	-726.51	4,981.39	6,675.27	6,623.89	51.37	129.934		
9,100.00	7,010.06	5,065.90	4,998.34	74.83	21.08	-29.28	-726.51	4,981.39	6,769.02	6,717.38	51.63	131.096		
9,200.00	7,008.83	5,065.90	4,998.34	77.78	21.08	-29.28	-726.51	4,981.39	6,862.94	6,811.05	51.89	132.256		
9,300.00	7,007.60	5,065.90	4,998.34	80.76	21.08	-29.28	-726.51	4,981.39	6,957.04	6,904.89	52.15	133.412		
9,400.00	7,006.36	5,065.90	4,998.34	83.76	21.08	-29.28	-726.51	4,981.39	7,051.30	6,998.90	52.40	134.565		
9,500.00	7,005.13	5,065.90	4,998.34	86.79	21.08	-29.28	-726.51	4,981.39	7,145.71	7,093.06	52.65	135.716		
9,600.00	7,003.90	5,065.90	4,998.34	89.84	21.08	-29.28	-726.51	4,981.39	7,240.28	7,187.37	52.90	136.866		
9,700.00	7,002.66	5,065.90	4,998.34	92.90	21.08	-29.28	-726.51	4,981.39	7,334.98	7,281.84	53.15	138.014		
9,800.00	7,001.43	5,065.90	4,998.34	95.99	21.08	-29.28	-726.51	4,981.39	7,429.83	7,376.44	53.39	139.160		
9,900.00	7,000.19	5,065.90	4,998.34	99.08	21.08	-29.28	-726.51	4,981.39	7,524.81	7,471.18	53.63	140.305		
10,000.00	6,998.96	5,065.90	4,998.34	102.19	21.08	-29.28	-726.51	4,981.39	7,619.92	7,566.05	53.87	141.449		
10,100.00	6,997.73	5,065.90	4,998.34	105.32	21.08	-29.28	-726.51	4,981.39	7,715.15	7,661.05	54.11	142.592		
10,200.00	6,996.49	5,065.90	4,998.34	108.45	21.08	-29.28	-726.51	4,981.39	7,810.51	7,756.17	54.34	143.735		
10,300.00	6,995.26	5,065.90	4,998.34	111.60	21.08	-29.28	-726.51	4,981.39	7,905.97	7,851.40	54.57	144.876		
10,400.00	6,994.03	5,065.90	4,998.34	114.75	21.08	-29.28	-726.51	4,981.39	8,001.55	7,946.75	54.80	146.017		
10,500.00	6,992.79	5,065.90	4,998.34	117.92	21.08	-29.28	-726.51	4,981.39	8,097.24	8,042.21	55.02	147.157		
10,600.00	6,991.56	5,065.90	4,998.34	121.09	21.08	-29.28	-726.51	4,981.39	8,193.02	8,137.78	55.25	148.297		
10,700.00	6,990.33	5,065.90	4,998.34	124.27	21.08	-29.28	-726.51	4,981.39	8,288.91	8,233.44	55.47	149.436		
10,800.00	6,989.09	5,065.90	4,998.34	127.46	21.08	-29.28	-726.51	4,981.39	8,384.89	8,329.21	55.69	150.575		
10,900.00	6,987.86	5,065.90	4,998.34	130.65	21.08	-29.28	-726.51	4,981.39	8,480.97	8,425.07	55.90	151.713		
11,000.00	6,986.62	5,065.90	4,998.34	133.85	21.08	-29.28	-726.51	4,981.39	8,577.13	8,521.02	56.11	152.850		
11,100.00	6,985.39	5,065.90	4,998.34	137.06	21.08	-29.28	-726.51	4,981.39	8,673.39	8,617.06	56.33	153.987		
11,200.00	6,984.16	5,065.90	4,998.34	140.27	21.08	-29.28	-726.51	4,981.39	8,769.72	8,713.19	56.53	155.123		
11,300.00	6,982.92	5,065.90	4,998.34	143.48	21.08	-29.28	-726.51	4,981.39	8,866.14	8,809.40	56.74	156.259		
11,400.00	6,981.69	5,065.90	4,998.34	146.70	21.08	-29.28	-726.51	4,981.39	8,962.64	8,905.69	56.94	157.394		
11,500.00	6,980.46	5,065.90	4,998.34	149.92	21.08	-29.28	-726.51	4,981.39	9,059.21	9,002.06	57.15	158.529		
11,600.00	6,979.22	5,065.90	4,998.34	153.15	21.08	-29.28	-726.51	4,981.39	9,155.85	9,098.51	57.34	159.663		
11,700.00	6,977.99	5,065.90	4,998.34	156.38	21.08	-29.28	-726.51	4,981.39	9,252.57	9,195.03	57.54	160.796		
11,800.00	6,976.75	5,065.90	4,998.34	159.62	21.08	-29.28	-726.51	4,981.39	9,349.36	9,291.62	57.74	161.928		
11,900.00	6,975.52	5,065.90	4,998.34	162.86	21.08	-29.28	-726.51	4,981.39	9,446.21	9,388.28	57.93	163.060		
12,000.00	6,974.29	5,065.90	4,998.34	166.10	21.08	-29.28	-726.51	4,981.39	9,543.13	9,485.00	58.12	164.191		
12,100.00	6,973.05	5,065.90	4,998.34	169.34	21.08	-29.28	-726.51	4,981.39	9,640.11	9,581.80	58.31	165.321		
12,200.00	6,971.82	5,065.90	4,998.34	172.59	21.08	-29.28	-726.51	4,981.39	9,737.15	9,678.65	58.50	166.450		
12,300.00	6,970.59	5,065.90	4,998.34	175.84	21.08	-29.28	-726.51	4,981.39	9,834.25	9,775.57	58.68	167.578		
12,400.00	6,969.35	5,065.90	4,998.34	179.09	21.08	-29.28	-726.51	4,981.39	9,931.41	9,872.54	58.87	168.705		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	96.75	-662.03	5,590.18	5,629.47					
100.00	100.00	54.21	54.21	3.28	3.28	96.75	-662.12	5,590.15	5,629.23	5,622.66	6.57	857.227		
200.00	200.00	153.56	153.55	3.34	3.31	96.76	-662.73	5,589.98	5,629.13	5,622.48	6.65	846.845		
300.00	299.98	261.31	261.30	3.44	3.40	23.64	-663.48	5,589.81	5,627.46	5,620.62	6.85	821.924		
400.00	399.84	385.30	385.30	3.60	3.58	23.72	-664.11	5,589.22	5,622.26	5,615.07	7.18	782.663		
500.00	499.45	486.30	486.29	3.81	3.78	23.83	-664.30	5,588.52	5,613.61	5,606.03	7.58	740.219		
600.00	598.70	2,017.03	1,995.09	4.08	12.05	24.13	-574.55	5,396.66	5,591.79	5,578.03	13.76	406.456		
700.00	697.47	2,238.14	2,206.55	4.40	14.39	24.39	-544.27	5,339.64	5,550.63	5,535.44	15.19	365.370		
774.77	770.92	2,292.59	2,258.48	4.68	15.00	24.67	-536.51	5,325.23	5,517.74	5,502.05	15.69	351.659		
800.00	795.65	2,313.64	2,278.56	4.78	15.23	24.66	-533.44	5,319.70	5,506.41	5,490.53	15.88	346.739		
900.00	893.64	2,406.72	2,367.35	5.20	16.27	24.63	-520.00	5,295.22	5,461.47	5,444.80	16.68	327.452		
1,000.00	991.63	2,527.43	2,482.30	5.66	17.67	24.58	-502.01	5,263.07	5,416.15	5,398.48	17.67	306.430		
1,100.00	1,089.63	1,100.00	2,721.42	6.15	5.92	24.43	-460.31	5,192.30	5,369.59	5,359.76	9.84	545.905		
1,200.00	1,187.62	2,838.39	2,776.02	6.65	21.70	24.39	-450.33	5,175.13	5,321.44	5,301.17	20.27	262.510		
1,300.00	1,285.62	2,869.07	2,805.00	7.17	22.11	24.37	-445.37	5,166.37	5,274.22	5,253.39	20.83	253.166		
1,400.00	1,383.61	2,900.34	2,834.67	7.71	22.53	24.36	-440.60	5,157.72	5,227.97	5,206.55	21.42	244.099		
1,500.00	1,481.60	2,990.24	2,920.20	8.25	23.61	24.32	-427.60	5,133.24	5,182.19	5,159.86	22.33	232.087		
1,600.00	1,579.60	3,100.00	3,024.44	8.80	24.98	24.28	-412.13	5,102.57	5,135.70	5,112.34	23.36	219.867		
1,700.00	1,677.59	3,152.10	3,073.93	9.36	25.59	24.27	-404.77	5,088.06	5,089.59	5,065.51	24.08	211.363		
1,800.00	1,775.59	3,200.00	3,119.67	9.92	26.17	24.25	-398.08	5,075.51	5,044.65	5,019.86	24.79	203.493		
1,900.00	1,873.58	3,243.87	3,161.68	10.49	26.63	24.23	-392.20	5,064.35	5,000.46	4,974.98	25.47	196.299		
2,000.00	1,971.57	3,317.33	3,232.16	11.06	27.40	24.22	-383.29	5,045.63	4,956.58	4,930.28	26.30	188.431		
2,100.00	2,069.57	3,371.62	3,284.38	11.64	27.95	24.22	-377.21	5,032.05	4,913.24	4,886.21	27.04	181.735		
2,200.00	2,167.56	3,432.28	3,342.85	12.22	28.54	24.23	-370.79	5,017.26	4,870.53	4,842.74	27.79	175.236		
2,300.00	2,265.56	3,500.00	3,408.24	12.80	29.17	24.23	-363.97	5,001.02	4,828.29	4,799.70	28.58	168.925		
2,400.00	2,363.55	3,565.45	3,471.52	13.38	29.76	24.24	-357.39	4,985.66	4,786.49	4,757.13	29.36	163.005		
2,500.00	2,461.54	4,056.00	3,939.56	13.97	35.51	24.14	-295.22	4,853.87	4,741.68	4,709.50	32.18	147.363		
2,600.00	2,559.54	4,100.00	3,980.86	14.55	36.16	24.11	-288.21	4,840.41	4,692.83	4,659.87	32.96	142.388		
2,700.00	2,657.53	4,150.99	4,028.90	15.14	36.85	24.08	-280.45	4,825.17	4,644.70	4,610.94	33.76	137.575		
2,800.00	2,755.53	4,200.00	4,075.40	15.73	37.52	24.07	-273.83	4,811.19	4,597.69	4,563.14	34.56	133.041		
2,900.00	2,853.52	4,231.95	4,105.83	16.32	37.90	24.06	-269.70	4,802.37	4,551.55	4,516.28	35.26	129.068		
3,000.00	2,951.52	4,284.68	4,156.11	16.91	38.52	24.04	-262.58	4,788.18	4,506.19	4,470.12	36.07	124.929		
3,100.00	3,049.51	4,665.54	4,515.52	17.51	43.79	23.79	-203.25	4,677.39	4,459.49	4,420.93	38.55	115.671		
3,200.00	3,147.50	4,725.69	4,571.62	18.10	44.76	23.76	-193.84	4,657.83	4,408.83	4,369.36	39.47	111.703		
3,300.00	3,245.50	4,761.02	4,604.70	18.70	45.30	23.73	-188.29	4,646.75	4,359.12	4,318.87	40.26	108.281		
3,400.00	3,343.49	4,800.00	4,641.34	19.29	45.91	23.70	-182.04	4,634.99	4,310.45	4,269.38	41.07	104.954		
3,500.00	3,441.49	4,849.55	4,688.03	19.89	46.59	23.66	-173.91	4,620.54	4,262.66	4,220.72	41.94	101.636		
3,600.00	3,539.48	4,900.00	4,735.65	20.48	47.28	23.61	-165.43	4,606.20	4,215.58	4,172.75	42.82	98.444		
3,700.00	3,637.47	4,968.16	4,800.12	21.08	48.17	23.55	-153.93	4,587.28	4,169.09	4,125.29	43.79	95.197		
3,800.00	3,735.47	5,000.00	4,830.28	21.68	48.58	23.52	-148.62	4,578.58	4,123.31	4,078.72	44.59	92.474		
3,900.00	3,833.46	5,062.46	4,889.65	22.27	49.31	23.46	-138.40	4,562.10	4,078.29	4,032.77	45.52	89.593		
4,000.00	3,931.46	5,100.00	4,925.50	22.87	49.75	23.43	-132.41	4,552.68	4,034.42	3,988.09	46.34	87.067		
4,100.00	4,029.45	5,165.35	4,988.16	23.47	50.41	23.39	-122.92	4,536.77	3,991.39	3,944.15	47.24	84.492		
4,200.00	4,127.44	5,200.00	5,021.52	24.07	50.76	23.37	-118.55	4,528.49	3,949.19	3,901.18	48.02	82.244		
4,300.00	4,225.44	5,237.32	5,057.62	24.67	51.05	23.37	-114.29	4,520.02	3,908.25	3,859.48	48.77	80.135		
4,400.00	4,323.43	5,264.17	5,083.73	25.27	51.26	23.36	-111.46	4,514.43	3,868.89	3,819.40	49.49	78.179		
4,507.81	4,429.08	5,300.00	5,118.73	25.92	51.54	23.37	-108.00	4,507.62	3,828.21	3,777.93	50.28	76.143		
4,600.00	4,519.70	5,340.26	5,158.20	26.45	51.77	23.09	-104.48	4,500.50	3,795.95	3,745.00	50.95	74.501		
4,700.00	4,618.56	5,400.00	5,216.89	26.98	52.12	22.84	-99.89	4,490.34	3,764.76	3,713.04	51.72	72.792		
4,800.00	4,717.88	5,441.11	5,257.38	27.46	52.31	22.62	-97.13	4,483.80	3,737.80	3,685.38	52.41	71.314		
4,900.00	4,817.54	5,500.00	5,315.57	27.89	52.59	22.43	-93.68	4,475.41	3,715.47	3,662.33	53.14	69.918		
5,000.00	4,917.43	5,500.00	5,315.57	28.28	52.59	22.29	-93.68	4,475.41	3,697.81	3,644.11	53.69	68.868		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,553.78	5,368.89	28.57	52.78	95.33	-90.97	4,468.90	3,686.59	3,632.32	54.27	67.935		
5,100.00	5,017.42	5,560.40	5,375.45	28.62	52.80	95.32	-90.66	4,468.19	3,684.64	3,630.26	54.37	67.767		
5,200.00	5,117.42	5,600.00	5,414.83	28.95	52.94	95.30	-88.90	4,464.29	3,674.39	3,619.41	54.98	66.829		
5,300.00	5,217.42	5,664.22	5,478.75	29.28	53.12	95.26	-86.13	4,458.80	3,665.45	3,609.81	55.65	65.871		
5,400.00	5,317.42	5,731.52	5,545.78	29.62	53.30	95.23	-83.17	4,453.64	3,657.40	3,601.09	56.32	64.945		
5,500.00	5,417.42	5,800.00	5,614.04	29.96	53.48	95.19	-80.25	4,448.98	3,650.23	3,593.25	56.98	64.057		
5,600.00	5,517.42	5,863.54	5,677.43	30.29	53.63	95.16	-77.90	4,445.21	3,643.98	3,586.35	57.63	63.233		
5,700.00	5,617.42	5,930.53	5,744.31	30.64	53.79	95.13	-76.05	4,441.82	3,638.69	3,580.42	58.27	62.442		
5,800.00	5,717.42	6,000.00	5,813.70	30.98	53.94	95.12	-74.87	4,438.82	3,634.23	3,575.32	58.92	61.685		
5,900.00	5,817.42	6,079.27	5,892.92	31.33	54.11	95.11	-74.14	4,435.89	3,630.48	3,570.90	59.58	60.933		
6,000.00	5,917.42	6,164.58	5,978.18	31.68	54.29	95.11	-73.75	4,433.16	3,627.25	3,566.98	60.26	60.190		
6,100.00	6,017.42	6,253.77	6,067.34	32.03	54.48	95.11	-73.72	4,430.57	3,624.35	3,563.39	60.96	59.459		
6,200.00	6,117.42	6,341.22	6,154.75	32.38	54.66	95.12	-74.20	4,428.24	3,621.75	3,560.11	61.64	58.756		
6,300.00	6,217.42	6,434.95	6,248.45	32.74	54.86	95.14	-75.01	4,426.07	3,619.51	3,557.16	62.35	58.055		
6,400.00	6,317.42	6,549.45	6,362.91	33.09	55.10	95.16	-76.36	4,423.14	3,617.07	3,553.95	63.12	57.304		
6,476.01	6,393.43	6,630.03	6,443.45	33.37	55.28	95.18	-77.43	4,420.82	3,614.98	3,551.29	63.69	56.759		
6,493.59	6,411.01	6,646.56	6,459.97	33.43	55.31	-172.48	-77.68	4,420.34	3,614.73	3,550.92	63.81	56.646 CC		
6,500.00	6,417.42	6,652.59	6,465.99	33.45	55.32	-172.48	-77.77	4,420.16	3,614.77	3,550.91	63.86	56.607 ES		
6,550.00	6,467.25	6,699.54	6,512.91	33.59	55.43	-172.44	-78.57	4,418.83	3,617.23	3,553.04	64.19	56.350		
6,600.00	6,516.64	6,756.65	6,569.99	33.71	55.55	-172.37	-79.55	4,417.16	3,623.55	3,559.00	64.55	56.134		
6,650.00	6,565.26	6,813.17	6,626.48	33.80	55.68	-172.26	-80.38	4,415.41	3,633.60	3,568.70	64.90	55.988		
6,700.00	6,612.83	6,868.53	6,681.80	33.88	55.80	-172.10	-81.20	4,413.58	3,647.33	3,582.10	65.23	55.912 SF		
6,750.00	6,659.04	6,914.75	6,727.99	33.94	55.91	-171.90	-81.92	4,411.97	3,664.68	3,599.15	65.52	55.928		
6,800.00	6,703.62	6,948.87	6,762.09	33.99	55.99	-171.63	-82.48	4,410.86	3,685.72	3,619.96	65.76	56.045		
6,850.00	6,746.28	6,981.54	6,794.74	34.03	56.06	-171.28	-83.07	4,409.89	3,710.35	3,644.36	65.98	56.230		
6,900.00	6,786.76	7,024.12	6,837.30	34.08	56.16	-170.86	-83.87	4,408.72	3,738.37	3,672.14	66.23	56.449		
6,950.00	6,824.83	7,080.64	6,893.78	34.13	56.28	-170.38	-84.92	4,406.97	3,769.38	3,702.88	66.50	56.682		
7,000.00	6,860.23	7,199.30	7,012.31	34.20	56.57	-169.93	-86.87	4,401.87	3,802.97	3,736.01	66.96	56.796		
7,050.00	6,892.75	7,219.45	7,032.43	34.30	56.62	-169.13	-87.13	4,400.81	3,838.91	3,771.81	67.10	57.213		
7,100.00	6,922.20	7,237.15	7,050.11	34.43	56.66	-168.11	-87.32	4,399.95	3,877.54	3,810.32	67.22	57.686		
7,150.00	6,948.38	7,252.91	7,065.85	34.60	56.70	-166.77	-87.44	4,399.24	3,918.59	3,851.27	67.32	58.207		
7,200.00	6,971.15	7,266.66	7,079.59	34.82	56.73	-164.97	-87.52	4,398.66	3,961.78	3,894.37	67.41	58.772		
7,250.00	6,990.35	7,278.32	7,091.24	35.09	56.76	-162.44	-87.57	4,398.20	4,006.81	3,939.33	67.48	59.375		
7,300.00	7,005.87	7,300.00	7,112.91	35.43	56.81	-158.90	-87.60	4,397.43	4,053.41	3,985.83	67.58	59.975		
7,350.00	7,017.62	7,300.00	7,112.91	35.81	56.81	-152.93	-87.60	4,397.43	4,101.19	4,033.58	67.61	60.660		
7,400.00	7,025.52	7,300.00	7,112.91	36.26	56.81	-142.46	-87.60	4,397.43	4,149.91	4,082.28	67.63	61.361		
7,450.00	7,029.52	7,300.00	7,112.91	36.75	56.81	-122.21	-87.60	4,397.43	4,199.25	4,131.60	67.65	62.070		
7,483.86	7,030.00	7,300.00	7,112.91	37.12	56.81	-99.55	-87.60	4,397.43	4,232.85	4,165.18	67.67	62.551		
7,500.00	7,029.80	7,306.20	7,119.10	37.30	56.83	-100.26	-87.61	4,397.22	4,248.88	4,181.18	67.70	62.761		
7,600.00	7,028.57	7,307.70	7,120.60	38.58	56.83	-100.43	-87.61	4,397.17	4,348.22	4,280.47	67.75	64.176		
7,700.00	7,027.34	7,309.17	7,122.07	40.10	56.84	-100.60	-87.61	4,397.12	4,447.60	4,379.79	67.81	65.588		
7,800.00	7,026.10	7,310.63	7,123.53	41.83	56.84	-100.77	-87.61	4,397.08	4,547.01	4,479.13	67.87	66.995		
7,900.00	7,024.87	7,312.06	7,124.96	43.74	56.84	-100.93	-87.60	4,397.03	4,646.43	4,578.50	67.93	68.398		
8,000.00	7,023.63	7,313.48	7,126.38	45.82	56.85	-101.10	-87.60	4,396.99	4,745.89	4,677.89	68.00	69.797		
8,100.00	7,022.40	7,314.88	7,127.78	48.04	56.85	-101.26	-87.60	4,396.94	4,845.36	4,777.30	68.06	71.192		
8,200.00	7,021.17	7,316.27	7,129.16	50.38	56.85	-101.42	-87.60	4,396.90	4,944.85	4,876.73	68.13	72.584		
8,300.00	7,019.93	7,317.64	7,130.53	52.82	56.86	-101.57	-87.60	4,396.85	5,044.37	4,976.18	68.19	73.971		
8,400.00	7,018.70	7,318.99	7,131.88	55.35	56.86	-101.73	-87.60	4,396.81	5,143.90	5,075.64	68.26	75.356		
8,500.00	7,017.47	7,320.32	7,133.22	57.97	56.86	-101.88	-87.60	4,396.77	5,243.45	5,175.12	68.33	76.736		
8,600.00	7,016.23	7,321.64	7,134.53	60.65	56.87	-102.03	-87.60	4,396.72	5,343.02	5,274.62	68.40	78.113		
8,700.00	7,015.00	7,322.94	7,135.84	63.39	56.87	-102.18	-87.60	4,396.68	5,442.60	5,374.13	68.47	79.487		
8,800.00	7,013.76	7,324.23	7,137.12	66.19	56.87	-102.32	-87.60	4,396.64	5,542.19	5,473.65	68.54	80.857		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,325.50	7,138.39	69.03	56.87	-102.47	-87.60	4,396.60	5,641.80	5,573.19	68.61	82.224		
9,000.00	7,011.30	7,326.76	7,139.65	71.91	56.88	-102.61	-87.60	4,396.56	5,741.43	5,672.74	68.69	83.588		
9,100.00	7,010.06	7,328.00	7,140.89	74.83	56.88	-102.75	-87.60	4,396.53	5,841.06	5,772.30	68.76	84.948		
9,200.00	7,008.83	7,329.23	7,142.12	77.78	56.88	-102.89	-87.60	4,396.49	5,940.71	5,871.88	68.83	86.305		
9,300.00	7,007.60	7,330.44	7,143.33	80.76	56.89	-103.03	-87.60	4,396.45	6,040.37	5,971.46	68.91	87.659		
9,400.00	7,006.36	7,331.64	7,144.53	83.76	56.89	-103.16	-87.60	4,396.41	6,140.04	6,071.06	68.98	89.009		
9,500.00	7,005.13	7,332.83	7,145.72	86.79	56.89	-103.29	-87.60	4,396.38	6,239.72	6,170.66	69.06	90.356		
9,600.00	7,003.90	7,334.00	7,146.89	89.84	56.89	-103.43	-87.60	4,396.34	6,339.41	6,270.28	69.13	91.700		
9,700.00	7,002.66	7,335.16	7,148.05	92.90	56.90	-103.56	-87.60	4,396.31	6,439.11	6,369.90	69.21	93.041		
9,800.00	7,001.43	7,336.31	7,149.19	95.99	56.90	-103.69	-87.60	4,396.27	6,538.81	6,469.53	69.28	94.378		
9,900.00	7,000.19	7,337.44	7,150.33	99.08	56.90	-103.81	-87.60	4,396.24	6,638.53	6,569.17	69.36	95.712		
10,000.00	6,998.96	7,338.56	7,151.45	102.19	56.91	-103.94	-87.60	4,396.20	6,738.26	6,668.82	69.44	97.042		
10,100.00	6,997.73	7,339.67	7,152.55	105.32	56.91	-104.06	-87.60	4,396.17	6,837.99	6,768.47	69.51	98.370		
10,200.00	6,996.49	7,340.76	7,153.65	108.45	56.91	-104.19	-87.60	4,396.14	6,937.73	6,868.14	69.59	99.693		
10,300.00	6,995.26	7,341.85	7,154.73	111.60	56.91	-104.31	-87.60	4,396.11	7,037.47	6,967.81	69.67	101.014		
10,400.00	6,994.03	7,342.92	7,155.81	114.75	56.92	-104.43	-87.59	4,396.07	7,137.23	7,067.48	69.75	102.331		
10,500.00	6,992.79	7,343.98	7,156.87	117.92	56.92	-104.54	-87.59	4,396.04	7,236.99	7,167.16	69.82	103.645		
10,600.00	6,991.56	7,345.03	7,157.92	121.09	56.92	-104.66	-87.59	4,396.01	7,336.75	7,266.85	69.90	104.956		
10,700.00	6,990.33	7,346.07	7,158.95	124.27	56.92	-104.78	-87.59	4,395.98	7,436.53	7,366.54	69.98	106.263		
10,800.00	6,989.09	7,347.10	7,159.98	127.46	56.93	-104.89	-87.59	4,395.95	7,536.30	7,466.24	70.06	107.567		
10,900.00	6,987.86	7,348.11	7,161.00	130.65	56.93	-105.00	-87.59	4,395.92	7,636.09	7,565.95	70.14	108.867		
11,000.00	6,986.62	7,349.12	7,162.00	133.85	56.93	-105.12	-87.59	4,395.89	7,735.88	7,665.65	70.22	110.164		
11,100.00	6,985.39	7,350.12	7,163.00	137.06	56.93	-105.23	-87.59	4,395.86	7,835.67	7,765.37	70.30	111.457		
11,200.00	6,984.16	7,351.10	7,163.98	140.27	56.94	-105.34	-87.59	4,395.83	7,935.47	7,865.09	70.38	112.747		
11,300.00	6,982.92	7,352.08	7,164.96	143.48	56.94	-105.44	-87.59	4,395.81	8,035.27	7,964.81	70.46	114.033		
11,400.00	6,981.69	7,353.04	7,165.92	146.70	56.94	-105.55	-87.59	4,395.78	8,135.08	8,064.54	70.55	115.316		
11,500.00	6,980.46	7,354.00	7,166.87	149.92	56.94	-105.65	-87.59	4,395.75	8,234.89	8,164.27	70.63	116.595		
11,600.00	6,979.22	7,354.94	7,167.82	153.15	56.94	-105.76	-87.59	4,395.72	8,334.71	8,264.00	70.71	117.871		
11,700.00	6,977.99	7,355.88	7,168.75	156.38	56.95	-105.86	-87.59	4,395.70	8,434.53	8,363.74	70.79	119.143		
11,800.00	6,976.75	7,356.80	7,169.68	159.62	56.95	-105.96	-87.59	4,395.67	8,534.36	8,463.48	70.88	120.412		
11,900.00	6,975.52	7,357.72	7,170.60	162.86	56.95	-106.06	-87.58	4,395.64	8,634.19	8,563.23	70.96	121.677		
12,000.00	6,974.29	7,358.63	7,171.50	166.10	56.95	-106.16	-87.58	4,395.62	8,734.02	8,662.98	71.04	122.938		
12,100.00	6,973.05	7,359.52	7,172.40	169.34	56.96	-106.26	-87.58	4,395.59	8,833.86	8,762.73	71.13	124.195		
12,200.00	6,971.82	7,360.41	7,173.29	172.59	56.96	-106.36	-87.58	4,395.57	8,933.70	8,862.49	71.21	125.449		
12,300.00	6,970.59	7,361.30	7,174.17	175.84	56.96	-106.46	-87.58	4,395.54	9,033.54	8,962.24	71.30	126.700		
12,400.00	6,969.35	7,362.17	7,175.04	179.09	56.96	-106.55	-87.58	4,395.52	9,133.39	9,062.00	71.38	127.946		
12,500.00	6,968.12	7,363.03	7,175.91	182.35	56.96	-106.65	-87.58	4,395.49	9,233.24	9,161.77	71.47	129.189		
12,600.00	6,966.89	7,363.89	7,176.76	185.60	56.97	-106.74	-87.58	4,395.47	9,333.09	9,261.53	71.56	130.428		
12,700.00	6,965.65	7,364.73	7,177.61	188.86	56.97	-106.83	-87.58	4,395.45	9,432.95	9,361.30	71.64	131.663		
12,800.00	6,964.42	7,365.57	7,178.45	192.12	56.97	-106.92	-87.58	4,395.42	9,532.81	9,461.07	71.73	132.894		
12,900.00	6,963.18	7,366.40	7,179.28	195.38	56.97	-107.01	-87.58	4,395.40	9,632.67	9,560.85	71.82	134.122		
13,000.00	6,961.95	7,367.23	7,180.10	198.65	56.97	-107.10	-87.58	4,395.38	9,732.53	9,660.62	71.91	135.346		
13,100.00	6,960.72	7,368.04	7,180.92	201.91	56.98	-107.19	-87.57	4,395.36	9,832.40	9,760.40	72.00	136.565		
13,200.00	6,959.48	7,368.85	7,181.72	205.18	56.98	-107.28	-87.57	4,395.33	9,932.27	9,860.18	72.09	137.781		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	1,272.98	1,251.59	3.28	9.93	98.13	-771.52	5,404.01	5,611.84					
100.00	100.00	1,433.12	1,403.93	3.28	11.84	98.46	-797.84	5,362.26	5,587.80	5,575.08	12.72	439.392		
200.00	200.00	1,500.00	1,467.45	3.34	12.65	98.61	-809.42	5,344.84	5,564.01	5,550.70	13.31	418.170		
300.00	299.98	1,541.40	1,506.79	3.44	13.13	25.78	-816.86	5,334.33	5,539.40	5,525.66	13.74	403.272		
400.00	399.84	1,600.00	1,562.62	3.60	13.81	26.18	-827.17	5,319.79	5,512.49	5,498.11	14.38	383.367		
500.00	499.45	1,686.95	1,645.58	3.81	14.78	26.69	-842.28	5,298.56	5,483.03	5,467.73	15.30	358.439		
600.00	598.70	600.00	1,816.32	4.08	3.69	27.53	-872.63	5,253.76	5,450.21	5,442.13	8.08	674.276		
700.00	697.47	1,971.80	1,917.01	4.40	18.04	28.22	-889.03	5,226.00	5,413.14	5,394.96	18.19	297.667		
774.77	770.92	2,016.41	1,959.59	4.68	18.56	28.67	-895.77	5,214.52	5,384.00	5,365.22	18.78	286.703		
800.00	795.65	2,036.97	1,979.21	4.78	18.79	28.74	-898.91	5,209.26	5,373.96	5,354.93	19.03	282.397		
900.00	893.64	2,114.21	2,052.91	5.20	19.66	29.00	-910.96	5,189.51	5,334.30	5,314.31	19.99	266.888		
1,000.00	991.63	2,177.39	2,113.20	5.66	20.37	29.22	-921.01	5,173.55	5,295.10	5,274.23	20.87	253.738		
1,100.00	1,089.63	2,233.90	2,167.17	6.15	21.00	29.43	-930.19	5,159.53	5,256.49	5,234.76	21.73	241.923		
1,200.00	1,187.62	2,300.00	2,230.31	6.65	21.71	29.67	-941.48	5,143.54	5,218.63	5,195.94	22.70	229.940		
1,300.00	1,285.62	2,468.07	2,391.26	7.17	23.49	30.26	-966.97	5,102.46	5,180.66	5,156.23	24.43	212.051		
1,400.00	1,383.61	2,538.69	2,458.95	7.71	24.23	30.50	-976.35	5,084.65	5,141.75	5,116.33	25.42	202.264		
1,500.00	1,481.60	2,600.00	2,517.68	8.25	24.88	30.72	-985.54	5,069.64	5,103.74	5,077.37	26.37	193.557		
1,600.00	1,579.60	2,880.14	2,784.63	8.80	28.18	31.76	-1,026.37	4,995.30	5,063.69	5,034.58	29.11	173.939		
1,700.00	1,677.59	3,028.25	2,924.78	9.36	30.16	32.34	-1,048.19	4,952.66	5,022.25	4,991.32	30.92	162.404		
1,800.00	1,775.59	3,166.61	3,055.16	9.92	32.13	32.91	-1,068.84	4,911.20	4,979.95	4,947.23	32.73	152.173		
1,900.00	1,873.58	3,235.34	3,119.96	10.49	33.09	33.19	-1,078.30	4,890.36	4,937.35	4,903.45	33.90	145.653		
2,000.00	1,971.57	3,281.81	3,163.96	11.06	33.73	33.37	-1,084.39	4,876.68	4,895.55	4,860.67	34.88	140.354		
2,100.00	2,069.57	3,418.72	3,293.32	11.64	35.61	33.94	-1,103.74	4,836.28	4,854.13	4,817.47	36.66	132.393		
2,200.00	2,167.56	3,448.11	3,321.07	12.22	36.02	34.07	-1,108.13	4,827.65	4,812.79	4,775.22	37.56	128.128		
2,300.00	2,265.56	3,500.00	3,370.18	12.80	36.73	34.29	-1,115.79	4,812.74	4,772.38	4,733.71	38.67	123.419		
2,400.00	2,363.55	3,630.83	3,494.58	13.38	38.36	34.81	-1,131.02	4,775.25	4,731.48	4,691.19	40.29	117.447		
2,500.00	2,461.54	4,123.52	3,953.70	13.97	46.88	37.05	-1,194.12	4,610.08	4,685.61	4,639.90	45.71	102.504		
2,600.00	2,559.54	4,190.55	4,014.71	14.55	48.38	37.42	-1,205.01	4,584.56	4,638.01	4,590.68	47.34	97.978		
2,700.00	2,657.53	4,228.10	4,049.01	15.14	49.15	37.62	-1,210.99	4,570.47	4,591.15	4,542.58	48.57	94.531		
2,800.00	2,755.53	4,261.41	4,079.63	15.73	49.82	37.80	-1,216.08	4,558.39	4,545.40	4,495.65	49.75	91.365		
2,900.00	2,853.52	4,300.00	4,115.33	16.32	50.59	38.00	-1,221.72	4,544.88	4,500.79	4,449.78	51.01	88.239		
3,000.00	2,951.52	4,420.01	4,226.65	16.91	52.79	38.63	-1,238.35	4,503.22	4,456.59	4,403.51	53.09	83.948		
3,100.00	3,049.51	4,478.87	4,281.05	17.51	53.92	38.95	-1,247.16	4,482.57	4,412.49	4,357.88	54.61	80.804		
3,200.00	3,147.50	4,526.71	4,325.19	18.10	54.82	39.23	-1,254.87	4,465.80	4,369.05	4,313.02	56.02	77.984		
3,300.00	3,245.50	4,565.65	4,361.20	18.70	55.54	39.45	-1,261.41	4,452.49	4,326.71	4,269.35	57.36	75.428		
3,400.00	3,343.49	4,600.00	4,393.03	19.29	56.18	39.65	-1,267.34	4,441.03	4,285.54	4,226.88	58.66	73.060		
3,500.00	3,441.49	4,649.91	4,439.38	19.89	57.03	39.95	-1,276.20	4,424.79	4,245.47	4,185.34	60.13	70.599		
3,600.00	3,539.48	4,700.00	4,486.01	20.48	57.88	40.25	-1,285.33	4,408.94	4,206.53	4,144.89	61.63	68.254		
3,700.00	3,637.47	4,742.42	4,525.69	21.08	58.51	40.50	-1,292.92	4,395.96	4,168.67	4,105.69	62.98	66.188		
3,800.00	3,735.47	4,800.00	4,579.92	21.68	59.36	40.83	-1,302.41	4,379.13	4,131.90	4,067.40	64.50	64.059		
3,900.00	3,833.46	4,855.32	4,632.42	22.27	60.05	41.14	-1,310.53	4,363.70	4,096.05	4,030.18	65.88	62.178		
4,000.00	3,931.46	4,900.00	4,675.06	22.87	60.60	41.37	-1,316.30	4,351.69	4,061.01	3,993.85	67.16	60.468		
4,100.00	4,029.45	4,950.71	4,723.79	23.47	61.08	41.62	-1,322.04	4,338.88	4,027.09	3,958.71	68.38	58.895		
4,200.00	4,127.44	5,000.00	4,771.52	24.07	61.55	41.85	-1,326.86	4,327.56	3,994.60	3,925.02	69.58	57.409		
4,300.00	4,225.44	5,065.87	4,835.54	24.67	62.07	42.15	-1,332.76	4,313.22	3,963.10	3,892.30	70.80	55.973		
4,400.00	4,323.43	5,130.76	4,898.64	25.27	62.55	42.45	-1,338.47	4,299.24	3,932.07	3,860.07	72.01	54.606		
4,507.81	4,429.08	5,200.00	4,966.29	25.92	63.03	42.75	-1,343.91	4,285.50	3,899.90	3,826.62	73.28	53.221		
4,600.00	4,519.70	5,226.58	4,992.35	26.45	63.17	42.50	-1,345.80	4,280.63	3,874.44	3,800.27	74.16	52.241		
4,700.00	4,618.56	5,270.04	5,035.09	26.98	63.40	42.32	-1,348.64	4,273.28	3,850.58	3,775.46	75.12	51.261		
4,800.00	4,717.88	5,300.00	5,064.64	27.46	63.56	42.14	-1,350.41	4,268.65	3,830.68	3,754.72	75.96	50.429		
4,900.00	4,817.54	5,364.64	5,128.57	27.89	63.80	42.08	-1,353.81	4,259.77	3,814.51	3,737.71	76.80	49.670		
5,000.00	4,917.43	5,417.19	5,180.71	28.28	63.98	42.01	-1,356.15	4,253.60	3,802.26	3,724.73	77.53	49.043		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,466.94	5,230.15	28.57	64.12	115.13	-1,358.04	4,248.44	3,794.93	3,716.86	78.08	48.606		
5,100.00	5,017.42	5,477.47	5,240.63	28.62	64.15	115.14	-1,358.40	4,247.42	3,793.66	3,715.48	78.19	48.521		
5,200.00	5,117.42	5,539.37	5,302.26	28.95	64.31	115.20	-1,360.30	4,241.96	3,786.97	3,708.17	78.80	48.058		
5,300.00	5,217.42	5,600.00	5,362.69	29.28	64.45	115.25	-1,361.94	4,237.36	3,781.26	3,701.86	79.39	47.628		
5,400.00	5,317.42	5,664.43	5,426.96	29.62	64.58	115.30	-1,363.50	4,233.24	3,776.53	3,696.56	79.97	47.225		
5,500.00	5,417.42	5,724.91	5,487.35	29.96	64.70	115.34	-1,364.82	4,230.13	3,772.82	3,692.29	80.52	46.854		
5,600.00	5,517.42	5,783.01	5,545.41	30.29	64.80	115.36	-1,365.66	4,228.04	3,770.19	3,689.14	81.05	46.516		
5,700.00	5,617.42	5,860.44	5,622.81	30.64	64.93	115.38	-1,366.25	4,226.33	3,768.50	3,686.90	81.59	46.186		
5,800.00	5,717.42	5,941.88	5,704.25	30.98	65.06	115.40	-1,366.62	4,225.03	3,767.25	3,685.11	82.14	45.865		
5,900.00	5,817.42	6,024.57	5,786.93	31.33	65.19	115.41	-1,366.93	4,224.25	3,766.55	3,683.87	82.68	45.555		
6,000.00	5,917.42	6,119.28	5,881.64	31.68	65.35	115.41	-1,367.26	4,223.60	3,766.09	3,682.84	83.25	45.240		
6,100.00	6,017.42	6,208.48	5,970.83	32.03	65.49	115.42	-1,367.60	4,223.21	3,765.85	3,682.05	83.80	44.937		
6,132.67	6,050.09	6,237.74	6,000.09	32.14	65.54	115.42	-1,367.73	4,223.14	3,765.84	3,681.85	83.99	44.839 CC		
6,200.00	6,117.42	6,298.04	6,060.39	32.38	65.64	115.43	-1,368.00	4,223.07	3,765.90	3,681.54	84.36	44.639		
6,300.00	6,217.42	6,401.74	6,164.09	32.74	65.82	115.44	-1,368.47	4,223.01	3,766.04	3,681.09	84.95	44.331		
6,400.00	6,317.42	6,499.46	6,261.81	33.09	65.98	115.44	-1,368.80	4,222.98	3,766.16	3,680.63	85.53	44.031		
6,476.01	6,393.43	6,565.62	6,327.97	33.37	66.10	115.44	-1,368.93	4,223.13	3,766.37	3,680.41	85.96	43.815 ES		
6,500.00	6,417.42	6,586.48	6,348.83	33.45	66.13	-152.21	-1,368.96	4,223.21	3,766.88	3,680.79	86.09	43.756		
6,550.00	6,467.25	6,634.69	6,397.04	33.59	66.22	-152.08	-1,369.03	4,223.46	3,770.55	3,684.21	86.34	43.673		
6,600.00	6,516.64	6,684.65	6,447.00	33.71	66.31	-151.83	-1,369.13	4,223.71	3,777.66	3,691.11	86.55	43.646 SF		
6,650.00	6,565.26	6,737.45	6,499.79	33.80	66.40	-151.46	-1,369.22	4,223.95	3,788.17	3,701.42	86.75	43.670		
6,700.00	6,612.83	6,790.70	6,553.05	33.88	66.49	-150.97	-1,369.24	4,224.13	3,801.95	3,715.05	86.91	43.748		
6,750.00	6,659.04	6,829.34	6,591.69	33.94	66.56	-150.28	-1,369.24	4,224.27	3,819.02	3,732.01	87.01	43.894		
6,800.00	6,703.62	6,863.77	6,626.12	33.99	66.63	-149.40	-1,369.33	4,224.45	3,839.38	3,752.31	87.07	44.096		
6,850.00	6,746.28	6,900.00	6,662.35	34.03	66.69	-148.32	-1,369.52	4,224.70	3,862.93	3,775.82	87.11	44.346		
6,900.00	6,786.76	6,900.00	6,662.35	34.08	66.69	-146.79	-1,369.52	4,224.70	3,889.63	3,802.59	87.04	44.690		
6,950.00	6,824.83	6,900.00	6,662.35	34.13	66.69	-144.91	-1,369.52	4,224.70	3,919.47	3,832.54	86.93	45.086		
7,000.00	6,860.23	6,900.00	6,662.35	34.20	66.69	-142.61	-1,369.52	4,224.70	3,952.20	3,865.39	86.81	45.528		
7,050.00	6,892.75	6,900.00	6,662.35	34.30	66.69	-139.79	-1,369.52	4,224.70	3,987.56	3,900.89	86.67	46.011		
7,100.00	6,922.20	6,900.00	6,662.35	34.43	66.69	-136.33	-1,369.52	4,224.70	4,025.25	3,938.73	86.51	46.529		
7,150.00	6,948.38	6,900.00	6,662.35	34.60	66.69	-132.11	-1,369.52	4,224.70	4,064.98	3,978.63	86.35	47.076		
7,200.00	6,971.15	6,900.00	6,662.35	34.82	66.69	-126.95	-1,369.52	4,224.70	4,106.45	4,020.26	86.19	47.646		
7,250.00	6,990.35	6,900.00	6,662.35	35.09	66.69	-120.70	-1,369.52	4,224.70	4,149.36	4,063.33	86.03	48.233		
7,300.00	7,005.87	6,900.00	6,662.35	35.43	66.69	-113.24	-1,369.52	4,224.70	4,193.40	4,107.52	85.88	48.831		
7,350.00	7,017.62	6,900.00	6,662.35	35.81	66.69	-104.59	-1,369.52	4,224.70	4,238.27	4,152.54	85.74	49.434		
7,400.00	7,025.52	6,900.00	6,662.35	36.26	66.69	-94.98	-1,369.52	4,224.70	4,283.68	4,198.07	85.61	50.038		
7,450.00	7,029.52	6,900.00	6,662.35	36.75	66.69	-84.93	-1,369.52	4,224.70	4,329.32	4,243.82	85.50	50.637		
7,483.86	7,030.00	6,900.00	6,662.35	37.12	66.69	-78.20	-1,369.52	4,224.70	4,360.23	4,274.79	85.43	51.037		
7,500.00	7,029.80	6,900.00	6,662.35	37.30	66.69	-78.20	-1,369.52	4,224.70	4,374.94	4,289.53	85.40	51.226		
7,600.00	7,028.57	6,900.00	6,662.35	38.58	66.69	-78.20	-1,369.52	4,224.70	4,466.34	4,381.08	85.26	52.385		
7,700.00	7,027.34	6,900.00	6,662.35	40.10	66.69	-78.20	-1,369.52	4,224.70	4,558.10	4,472.93	85.16	53.522		
7,800.00	7,026.10	6,900.00	6,662.35	41.83	66.69	-78.20	-1,369.52	4,224.70	4,650.19	4,565.09	85.10	54.641		
7,900.00	7,024.87	6,900.00	6,662.35	43.74	66.69	-78.20	-1,369.52	4,224.70	4,742.61	4,657.53	85.08	55.741		
8,000.00	7,023.63	6,900.00	6,662.35	45.82	66.69	-78.20	-1,369.52	4,224.70	4,835.33	4,750.24	85.09	56.825		
8,100.00	7,022.40	6,900.00	6,662.35	48.04	66.69	-78.20	-1,369.52	4,224.70	4,928.34	4,843.21	85.13	57.894		
8,200.00	7,021.17	6,900.00	6,662.35	50.38	66.69	-78.20	-1,369.52	4,224.70	5,021.61	4,936.43	85.19	58.948		
8,300.00	7,019.93	6,900.00	6,662.35	52.82	66.69	-78.20	-1,369.52	4,224.70	5,115.14	5,029.88	85.27	59.990		
8,400.00	7,018.70	6,900.00	6,662.35	55.35	66.69	-78.20	-1,369.52	4,224.70	5,208.91	5,123.55	85.36	61.021		
8,500.00	7,017.47	6,900.00	6,662.35	57.97	66.69	-78.20	-1,369.52	4,224.70	5,302.91	5,217.43	85.48	62.040		
8,600.00	7,016.23	6,900.00	6,662.35	60.65	66.69	-78.20	-1,369.52	4,224.70	5,397.12	5,311.52	85.60	63.050		
8,700.00	7,015.00	6,900.00	6,662.35	63.39	66.69	-78.20	-1,369.52	4,224.70	5,491.54	5,405.80	85.74	64.051		
8,800.00	7,013.76	6,900.00	6,662.35	66.19	66.69	-78.20	-1,369.52	4,224.70	5,586.15	5,500.27	85.88	65.044		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 100-GYRO-NS													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	6,900.00	6,662.35	69.03	66.69	-78.20	-1,369.52	4,224.70	5,680.94	5,594.91	86.04	66.030		
9,000.00	7,011.30	6,900.00	6,662.35	71.91	66.69	-78.20	-1,369.52	4,224.70	5,775.92	5,689.72	86.20	67.009		
9,100.00	7,010.06	6,900.00	6,662.35	74.83	66.69	-78.20	-1,369.52	4,224.70	5,871.05	5,784.69	86.36	67.982		
9,200.00	7,008.83	6,900.00	6,662.35	77.78	66.69	-78.20	-1,369.52	4,224.70	5,966.35	5,879.82	86.53	68.949		
9,300.00	7,007.60	6,900.00	6,662.35	80.76	66.69	-78.20	-1,369.52	4,224.70	6,061.80	5,975.09	86.71	69.912		
9,400.00	7,006.36	6,900.00	6,662.35	83.76	66.69	-78.20	-1,369.52	4,224.70	6,157.39	6,070.51	86.88	70.869		
9,500.00	7,005.13	6,900.00	6,662.35	86.79	66.69	-78.20	-1,369.52	4,224.70	6,253.12	6,166.06	87.06	71.823		
9,600.00	7,003.90	6,900.00	6,662.35	89.84	66.69	-78.20	-1,369.52	4,224.70	6,348.99	6,261.74	87.24	72.772		
9,700.00	7,002.66	6,900.00	6,662.35	92.90	66.69	-78.20	-1,369.52	4,224.70	6,444.98	6,357.55	87.43	73.718		
9,800.00	7,001.43	6,900.00	6,662.35	95.99	66.69	-78.20	-1,369.52	4,224.70	6,541.08	6,453.47	87.61	74.661		
9,900.00	7,000.19	6,900.00	6,662.35	99.08	66.69	-78.20	-1,369.52	4,224.70	6,637.31	6,549.51	87.79	75.601		
10,000.00	6,998.96	6,900.00	6,662.35	102.19	66.69	-78.20	-1,369.52	4,224.70	6,733.64	6,645.66	87.98	76.538		
10,100.00	6,997.73	6,900.00	6,662.35	105.32	66.69	-78.20	-1,369.52	4,224.70	6,830.08	6,741.92	88.16	77.472		
10,200.00	6,996.49	6,900.00	6,662.35	108.45	66.69	-78.20	-1,369.52	4,224.70	6,926.62	6,838.28	88.35	78.404		
10,300.00	6,995.26	6,900.00	6,662.35	111.60	66.69	-78.20	-1,369.52	4,224.70	7,023.26	6,934.73	88.53	79.333		
10,400.00	6,994.03	6,900.00	6,662.35	114.75	66.69	-78.20	-1,369.52	4,224.70	7,119.99	7,031.28	88.71	80.260		
10,500.00	6,992.79	6,900.00	6,662.35	117.92	66.69	-78.20	-1,369.52	4,224.70	7,216.81	7,127.91	88.89	81.186		
10,600.00	6,991.56	6,900.00	6,662.35	121.09	66.69	-78.20	-1,369.52	4,224.70	7,313.71	7,224.64	89.07	82.109		
10,700.00	6,990.33	6,900.00	6,662.35	124.27	66.69	-78.20	-1,369.52	4,224.70	7,410.70	7,321.45	89.25	83.031		
10,800.00	6,989.09	6,900.00	6,662.35	127.46	66.69	-78.20	-1,369.52	4,224.70	7,507.76	7,418.33	89.43	83.951		
10,900.00	6,987.86	6,900.00	6,662.35	130.65	66.69	-78.20	-1,369.52	4,224.70	7,604.91	7,515.30	89.61	84.869		
11,000.00	6,986.62	6,900.00	6,662.35	133.85	66.69	-78.20	-1,369.52	4,224.70	7,702.12	7,612.34	89.78	85.786		
11,100.00	6,985.39	6,900.00	6,662.35	137.06	66.69	-78.20	-1,369.52	4,224.70	7,799.41	7,709.45	89.96	86.701		
11,200.00	6,984.16	6,900.00	6,662.35	140.27	66.69	-78.20	-1,369.52	4,224.70	7,896.76	7,806.63	90.13	87.615		
11,300.00	6,982.92	6,900.00	6,662.35	143.48	66.69	-78.20	-1,369.52	4,224.70	7,994.18	7,903.88	90.30	88.528		
11,400.00	6,981.69	6,900.00	6,662.35	146.70	66.69	-78.20	-1,369.52	4,224.70	8,091.66	8,001.19	90.47	89.439		
11,500.00	6,980.46	6,900.00	6,662.35	149.92	66.69	-78.20	-1,369.52	4,224.70	8,189.20	8,098.56	90.64	90.349		
11,600.00	6,979.22	6,900.00	6,662.35	153.15	66.69	-78.20	-1,369.52	4,224.70	8,286.80	8,196.00	90.81	91.258		
11,700.00	6,977.99	6,900.00	6,662.35	156.38	66.69	-78.20	-1,369.52	4,224.70	8,384.46	8,293.49	90.97	92.165		
11,800.00	6,976.75	6,900.00	6,662.35	159.62	66.69	-78.20	-1,369.52	4,224.70	8,482.17	8,391.04	91.14	93.071		
11,900.00	6,975.52	6,900.00	6,662.35	162.86	66.69	-78.20	-1,369.52	4,224.70	8,579.94	8,488.64	91.30	93.976		
12,000.00	6,974.29	6,900.00	6,662.35	166.10	66.69	-78.20	-1,369.52	4,224.70	8,677.75	8,586.29	91.46	94.880		
12,100.00	6,973.05	6,900.00	6,662.35	169.34	66.69	-78.20	-1,369.52	4,224.70	8,775.62	8,684.00	91.62	95.783		
12,200.00	6,971.82	6,900.00	6,662.35	172.59	66.69	-78.20	-1,369.52	4,224.70	8,873.53	8,781.75	91.78	96.685		
12,300.00	6,970.59	6,900.00	6,662.35	175.84	66.69	-78.20	-1,369.52	4,224.70	8,971.49	8,879.55	91.94	97.585		
12,400.00	6,969.35	6,900.00	6,662.35	179.09	66.69	-78.20	-1,369.52	4,224.70	9,069.49	8,977.40	92.09	98.485		
12,500.00	6,968.12	6,900.00	6,662.35	182.35	66.69	-78.20	-1,369.52	4,224.70	9,167.54	9,075.29	92.24	99.383		
12,600.00	6,966.89	6,900.00	6,662.35	185.60	66.69	-78.20	-1,369.52	4,224.70	9,265.63	9,173.23	92.40	100.280		
12,700.00	6,965.65	6,900.00	6,662.35	188.86	66.69	-78.20	-1,369.52	4,224.70	9,363.76	9,271.21	92.55	101.176		
12,800.00	6,964.42	6,900.00	6,662.35	192.12	66.69	-78.20	-1,369.52	4,224.70	9,461.92	9,369.22	92.70	102.071		
12,900.00	6,963.18	6,900.00	6,662.35	195.38	66.69	-78.20	-1,369.52	4,224.70	9,560.13	9,467.28	92.85	102.965		
13,000.00	6,961.95	6,900.00	6,662.35	198.65	66.69	-78.20	-1,369.52	4,224.70	9,658.37	9,565.38	93.00	103.858		
13,100.00	6,960.72	6,900.00	6,662.35	201.91	66.69	-78.20	-1,369.52	4,224.70	9,756.65	9,663.51	93.14	104.750		
13,200.00	6,959.48	6,900.00	6,662.35	205.18	66.69	-78.20	-1,369.52	4,224.70	9,854.96	9,761.68	93.29	105.640		
13,300.00	6,958.25	6,900.00	6,662.35	208.45	66.69	-78.20	-1,369.52	4,224.70	9,953.31	9,859.88	93.43	106.530		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	87.33	24.05	515.27	515.88					
100.00	100.00	100.12	100.11	3.28	3.29	87.35	23.81	514.59	515.19	508.62	6.57	78.380		
200.00	200.00	203.03	203.01	3.34	3.34	87.40	23.31	512.81	513.44	506.76	6.67	76.934		
300.00	299.98	301.92	301.88	3.44	3.44	14.40	22.48	510.81	509.69	502.80	6.88	74.029		
400.00	399.84	400.05	399.99	3.60	3.59	14.64	21.91	509.50	503.26	496.07	7.20	69.932		
500.00	499.45	503.08	503.01	3.81	3.80	14.98	21.63	507.68	493.07	485.46	7.61	64.780		
600.00	598.70	606.18	606.08	4.08	4.05	15.46	21.47	505.06	478.78	470.67	8.11	59.048		
700.00	697.47	703.04	702.89	4.40	4.32	16.05	21.50	502.11	460.71	452.06	8.65	53.250		
774.77	770.92	776.43	776.25	4.68	4.54	16.74	20.70	500.22	445.41	436.31	9.10	48.940		
800.00	795.65	801.83	801.64	4.78	4.61	16.99	20.25	499.50	439.89	430.62	9.26	47.490		
900.00	893.64	896.38	896.14	5.20	4.92	18.02	18.40	496.85	418.11	408.22	9.89	42.266		
1,000.00	991.63	991.37	991.09	5.66	5.24	19.08	17.11	495.04	397.33	386.77	10.57	37.607		
1,100.00	1,089.63	1,091.21	1,090.92	6.15	5.59	20.27	16.02	493.21	376.78	365.49	11.29	33.376		
1,200.00	1,187.62	1,195.32	1,194.96	6.65	5.97	21.64	15.09	489.92	355.07	343.02	12.05	29.460		
1,300.00	1,285.62	1,286.24	1,285.81	7.17	6.31	22.94	14.65	486.45	332.93	320.12	12.81	25.995		
1,400.00	1,383.61	1,379.17	1,378.72	7.71	6.64	23.98	16.39	485.53	313.41	299.84	13.58	23.086		
1,500.00	1,481.60	1,477.34	1,476.81	8.25	7.00	24.82	20.15	485.39	294.59	280.23	14.37	20.506		
1,600.00	1,579.60	1,577.17	1,576.46	8.80	7.37	25.34	26.16	485.15	275.44	260.27	15.17	18.156		
1,700.00	1,677.59	1,677.45	1,676.45	9.36	7.74	25.61	33.69	484.36	255.57	239.58	15.99	15.987		
1,800.00	1,775.59	1,771.45	1,769.88	9.92	8.10	25.10	43.95	484.45	236.08	219.28	16.80	14.049		
1,900.00	1,873.58	1,871.53	1,869.20	10.49	8.49	24.08	56.20	485.17	217.07	199.44	17.63	12.316		
2,000.00	1,971.57	1,972.96	1,969.62	11.06	8.91	22.32	70.49	484.63	196.74	178.30	18.44	10.669		
2,100.00	2,069.57	2,071.39	2,066.88	11.64	9.34	19.83	85.53	483.14	175.60	156.34	19.26	9.117		
2,200.00	2,167.56	2,169.24	2,163.59	12.22	9.77	16.77	100.26	481.32	154.52	134.44	20.09	7.693		
2,300.00	2,265.56	2,267.68	2,260.96	12.80	10.21	12.94	114.58	478.90	133.38	112.47	20.91	6.378		
2,400.00	2,363.55	2,365.83	2,358.07	13.38	10.65	7.86	128.43	475.75	112.21	90.46	21.75	5.159		
2,500.00	2,461.54	2,463.56	2,454.78	13.97	11.10	0.57	141.99	471.82	91.44	68.80	22.64	4.040		
2,600.00	2,559.54	2,560.88	2,551.07	14.55	11.56	-10.72	155.45	467.42	72.44	48.75	23.69	3.058		
2,700.00	2,657.53	2,658.14	2,647.29	15.14	12.02	-28.72	168.58	462.32	57.23	32.05	25.19	2.272		
2,800.00	2,755.53	2,754.95	2,743.07	15.73	12.48	-54.85	181.49	456.64	50.53	23.32	27.21	1.857		
2,805.25	2,760.67	2,760.03	2,748.10	15.76	12.50	-56.35	182.17	456.33	50.51	23.20	27.31	1.850 CC, ES		
2,900.00	2,853.52	2,851.57	2,838.65	16.32	12.94	-81.89	194.19	450.48	56.18	27.47	28.71	1.957		
3,000.00	2,951.52	2,947.99	2,934.04	16.91	13.40	-101.25	206.66	443.93	71.72	42.27	29.45	2.436		
3,100.00	3,049.51	3,044.61	3,029.65	17.51	13.87	-113.28	218.96	437.19	92.42	62.39	30.04	3.077		
3,200.00	3,147.50	3,141.77	3,125.84	18.10	14.34	-120.84	230.98	430.73	115.16	84.45	30.71	3.749		
3,300.00	3,245.50	3,238.79	3,221.83	18.70	14.82	-124.95	244.30	426.18	138.42	106.91	31.50	4.393		
3,400.00	3,343.49	3,335.75	3,317.77	19.29	15.30	-127.95	257.51	421.39	162.31	129.98	32.33	5.020		
3,500.00	3,441.49	3,432.50	3,413.56	19.89	15.77	-130.32	270.17	416.55	186.28	153.10	33.18	5.615		
3,600.00	3,539.48	3,529.34	3,509.45	20.48	16.25	-132.25	282.63	411.36	210.69	176.65	34.04	6.189		
3,700.00	3,637.47	3,626.93	3,606.17	21.08	16.73	-133.94	294.58	406.08	235.03	200.10	34.93	6.728		
3,800.00	3,735.47	3,722.58	3,700.97	21.68	17.20	-135.29	306.18	400.96	259.42	223.63	35.79	7.249		
3,900.00	3,833.46	3,820.31	3,797.82	22.27	17.68	-136.49	318.02	395.27	284.34	247.64	36.70	7.748		
4,000.00	3,931.46	3,918.54	3,895.38	22.87	18.15	-137.89	327.73	389.32	308.65	271.06	37.59	8.211		
4,100.00	4,029.45	4,026.42	4,002.83	23.47	18.64	-139.79	334.70	382.83	331.84	293.23	38.61	8.596		
4,200.00	4,127.44	4,132.22	4,108.50	24.07	19.09	-142.00	336.82	378.58	351.85	312.36	39.49	8.909		
4,300.00	4,225.44	4,228.99	4,205.19	24.67	19.47	-144.19	336.07	374.79	371.32	331.09	40.23	9.229		
4,400.00	4,323.43	4,334.44	4,310.60	25.27	19.89	-146.32	335.01	371.65	390.34	349.27	41.07	9.504		
4,507.81	4,429.08	4,437.42	4,413.52	25.92	20.29	-148.28	333.23	369.12	410.56	368.70	41.86	9.808		
4,600.00	4,519.70	4,529.87	4,505.93	26.45	20.65	-149.91	331.90	366.83	427.04	384.45	42.59	10.027		
4,700.00	4,618.56	4,643.21	4,619.27	26.98	21.09	-151.17	331.66	367.53	439.45	395.95	43.50	10.102		
4,800.00	4,717.88	4,740.42	4,716.46	27.46	21.47	-151.84	332.22	369.07	448.21	403.93	44.28	10.121		
4,900.00	4,817.54	4,839.18	4,815.20	27.89	21.86	-152.20	333.37	370.47	454.22	409.13	45.08	10.075		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,937.74	4,913.74	28.28	22.26	-152.28	334.85	371.60	457.46	411.58	45.88	9.970		
5,082.58	5,000.00	5,019.01	4,995.00	28.57	22.59	-79.04	336.09	372.36	458.00	411.46	46.54	9.841		
5,100.00	5,017.42	5,035.91	5,011.90	28.62	22.66	-79.00	336.36	372.48	457.94	411.26	46.67	9.811		
5,149.02	5,066.45	5,083.46	5,059.45	28.79	22.86	-78.89	337.21	372.72	457.86	410.80	47.05	9.730		
5,200.00	5,117.42	5,134.02	5,110.00	28.95	23.07	-78.77	338.16	372.88	457.88	410.42	47.46	9.647		
5,300.00	5,217.42	5,232.76	5,208.71	29.28	23.48	-78.54	340.04	373.06	458.08	409.82	48.26	9.491		
5,400.00	5,317.42	5,331.15	5,307.09	29.62	23.89	-78.31	341.94	372.88	458.65	409.58	49.06	9.348		
5,500.00	5,417.42	5,427.57	5,403.48	29.96	24.30	-78.07	344.03	372.32	459.67	409.82	49.85	9.222		
5,600.00	5,517.42	5,525.44	5,501.31	30.29	24.72	-77.77	346.79	371.03	461.54	410.89	50.65	9.112		
5,700.00	5,617.42	5,637.28	5,613.11	30.64	25.19	-77.50	349.15	370.27	462.71	411.12	51.59	8.969		
5,800.00	5,717.42	5,737.67	5,713.49	30.98	25.59	-77.52	348.75	371.16	461.76	409.38	52.37	8.817		
5,889.67	5,807.09	5,824.27	5,800.09	31.29	25.94	-77.47	349.15	371.54	461.46	408.39	53.06	8.696		
5,900.00	5,817.42	5,834.24	5,810.06	31.33	25.98	-77.46	349.22	371.55	461.46	408.32	53.14	8.683		
6,000.00	5,917.42	5,931.20	5,907.01	31.68	26.38	-77.34	350.22	371.37	461.88	407.94	53.93	8.564		
6,100.00	6,017.42	6,028.16	6,003.96	32.03	26.79	-77.20	351.57	370.61	462.94	408.22	54.72	8.460		
6,200.00	6,117.42	6,125.69	6,101.47	32.38	27.21	-77.02	353.31	369.34	464.61	409.09	55.52	8.368		
6,300.00	6,217.42	6,221.57	6,197.31	32.74	27.62	-76.82	355.42	367.51	466.96	410.66	56.31	8.293		
6,400.00	6,317.42	6,355.11	6,330.82	33.09	28.17	-76.76	356.11	366.91	467.97	410.59	57.38	8.156		
6,476.01	6,393.43	6,591.55	6,558.34	33.37	28.96	-76.22	346.72	423.58	444.79	389.78	55.01	8.086		
6,500.00	6,417.42	6,635.74	6,598.68	33.45	29.09	16.78	344.70	441.49	434.80	380.62	54.18	8.025		
6,550.00	6,467.25	6,725.55	6,676.57	33.59	29.33	19.39	341.14	485.95	406.66	354.87	51.80	7.851		
6,600.00	6,516.64	6,771.43	6,714.85	33.71	29.45	22.51	339.82	511.20	373.79	322.26	51.53	7.254		
6,650.00	6,565.26	6,814.43	6,750.12	33.80	29.56	27.22	338.92	535.78	337.69	286.54	51.15	6.602		
6,700.00	6,612.83	6,854.51	6,782.19	33.88	29.66	34.45	337.97	559.79	298.56	248.00	50.56	5.905		
6,750.00	6,659.04	6,886.48	6,807.15	33.94	29.74	44.59	337.06	579.74	257.26	206.97	50.30	5.115		
6,800.00	6,703.62	6,911.27	6,826.09	33.99	29.82	57.78	336.33	595.72	214.93	164.39	50.54	4.252		
6,850.00	6,746.28	6,928.93	6,839.32	34.03	29.93	71.90	335.90	607.42	173.17	121.34	51.82	3.342		
6,900.00	6,786.76	6,940.37	6,847.76	34.08	30.00	83.53	335.67	615.13	134.75	79.86	54.90	2.455		
6,950.00	6,824.83	6,946.52	6,852.26	34.13	30.03	90.53	335.56	619.32	105.33	45.12	60.21	1.749		
6,995.87	6,857.41	6,948.22	6,853.50	34.20	30.04	92.56	335.53	620.48	94.76	30.85	63.91	1.483 Level 3, SF		
7,000.00	6,860.23	6,948.20	6,853.49	34.20	30.04	92.54	335.53	620.47	94.85	30.88	63.97	1.483 Level 3		
7,050.00	6,892.75	6,946.08	6,851.94	34.30	30.03	89.88	335.57	619.02	109.19	48.10	61.08	1.788		
7,100.00	6,922.20	6,940.74	6,848.03	34.43	30.00	82.98	335.66	615.38	140.73	84.19	56.55	2.489		
7,150.00	6,948.38	6,932.64	6,842.07	34.60	29.95	72.76	335.82	609.90	180.24	126.58	53.66	3.359		
7,200.00	6,971.15	6,922.18	6,834.29	34.82	29.88	60.97	336.06	602.92	222.98	170.80	52.18	4.273		
7,250.00	6,990.35	6,909.70	6,824.90	35.09	29.81	49.69	336.37	594.69	266.84	215.31	51.53	5.179		
7,300.00	7,005.87	6,893.00	6,812.17	35.43	29.75	39.74	336.86	583.90	310.77	259.65	51.12	6.079		
7,350.00	7,017.62	6,878.47	6,800.95	35.81	29.72	32.74	337.30	574.68	354.12	302.74	51.37	6.893		
7,400.00	7,025.52	6,859.64	6,786.23	36.26	29.67	27.08	337.83	562.94	396.47	344.92	51.55	7.691		
7,450.00	7,029.52	6,839.36	6,770.17	36.75	29.62	22.85	338.35	550.58	437.54	385.69	51.85	8.439		
7,483.86	7,030.00	6,824.89	6,758.57	37.12	29.58	20.59	338.69	541.94	464.51	412.41	52.10	8.915		
7,500.00	7,029.80	6,817.92	6,752.94	37.30	29.57	20.26	338.84	537.83	477.22	424.99	52.23	9.137		
7,600.00	7,028.57	6,775.05	6,717.85	38.58	29.46	18.46	339.73	513.23	557.35	504.42	52.93	10.530		
7,700.00	7,027.34	6,733.54	6,683.27	40.10	29.35	17.04	340.88	490.27	639.27	585.75	53.52	11.944		
7,800.00	7,026.10	6,703.00	6,657.51	41.83	29.27	16.17	341.95	473.91	722.75	668.37	54.38	13.292		
7,900.00	7,024.87	6,674.33	6,632.87	43.74	29.19	15.45	343.07	459.32	808.02	752.94	55.09	14.668		
8,000.00	7,023.63	6,653.77	6,614.79	45.82	29.14	14.96	343.92	449.56	895.17	839.32	55.85	16.028		
8,100.00	7,022.40	6,635.46	6,598.43	48.04	29.08	14.56	344.71	441.37	983.83	927.34	56.49	17.415		
8,200.00	7,021.17	6,607.00	6,572.56	50.38	29.01	13.98	345.99	429.60	1,073.96	1,017.15	56.81	18.904		
8,300.00	7,019.93	6,607.00	6,572.56	52.82	29.01	13.98	345.99	429.60	1,164.80	1,107.26	57.55	20.241		
8,400.00	7,018.70	6,578.14	6,545.97	55.35	28.92	13.44	347.39	418.46	1,256.49	1,198.77	57.72	21.769		
8,500.00	7,017.47	6,555.28	6,524.80	57.97	28.85	13.06	348.58	409.90	1,348.70	1,290.75	57.95	23.273		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,600.00	7,016.23	6,533.65	6,504.69	60.65	28.78	12.74	349.79	402.04	1,441.36	1,383.19	58.17	24.780		
8,700.00	7,015.00	6,512.00	6,484.48	63.39	28.72	12.44	351.07	394.39	1,534.44	1,476.08	58.36	26.295		
8,800.00	7,013.76	6,512.00	6,484.48	66.19	28.72	12.44	351.07	394.39	1,628.09	1,569.37	58.72	27.725		
8,900.00	7,012.53	6,512.00	6,484.48	69.03	28.72	12.44	351.07	394.39	1,722.45	1,663.42	59.03	29.178		
9,000.00	7,011.30	6,512.00	6,484.48	71.91	28.72	12.44	351.07	394.39	1,817.42	1,758.12	59.29	30.651		
9,100.00	7,010.06	6,512.00	6,484.48	74.83	28.72	12.44	351.07	394.39	1,912.90	1,853.38	59.52	32.139		
9,200.00	7,008.83	6,512.00	6,484.48	77.78	28.72	12.44	351.07	394.39	2,008.82	1,949.10	59.71	33.640		
9,300.00	7,007.60	6,512.00	6,484.48	80.76	28.72	12.44	351.07	394.39	2,105.12	2,045.23	59.89	35.153		
9,400.00	7,006.36	6,472.72	6,447.11	83.76	28.59	11.91	353.15	382.51	2,199.54	2,139.69	59.85	36.751		
9,500.00	7,005.13	6,468.66	6,443.19	86.79	28.57	11.85	353.33	381.49	2,295.99	2,236.01	59.98	38.277		
9,600.00	7,003.90	6,464.88	6,439.52	89.84	28.56	11.80	353.50	380.58	2,392.69	2,332.59	60.11	39.808		
9,700.00	7,002.66	6,461.36	6,436.10	92.90	28.55	11.75	353.64	379.76	2,489.62	2,429.40	60.22	41.343		
9,800.00	7,001.43	6,458.07	6,432.90	95.99	28.54	11.70	353.78	379.02	2,586.75	2,526.43	60.32	42.882		
9,900.00	7,000.19	6,417.00	6,392.48	99.08	28.40	11.11	355.05	371.97	2,686.08	2,625.79	60.29	44.552		
10,000.00	6,998.96	6,417.00	6,392.48	102.19	28.40	11.11	355.05	371.97	2,783.26	2,722.85	60.40	46.079		
10,100.00	6,997.73	6,417.00	6,392.48	105.32	28.40	11.11	355.05	371.97	2,880.63	2,820.12	60.50	47.611		
10,200.00	6,996.49	6,417.00	6,392.48	108.45	28.40	11.11	355.05	371.97	2,978.17	2,917.57	60.60	49.145		
10,300.00	6,995.26	6,417.00	6,392.48	111.60	28.40	11.11	355.05	371.97	3,075.87	3,015.19	60.69	50.683		
10,400.00	6,994.03	6,417.00	6,392.48	114.75	28.40	11.11	355.05	371.97	3,173.72	3,112.95	60.77	52.222		
10,500.00	6,992.79	6,417.00	6,392.48	117.92	28.40	11.11	355.05	371.97	3,271.70	3,210.84	60.85	53.763		
10,600.00	6,991.56	6,417.00	6,392.48	121.09	28.40	11.11	355.05	371.97	3,369.79	3,308.86	60.93	55.306		
10,700.00	6,990.33	6,417.00	6,392.48	124.27	28.40	11.11	355.05	371.97	3,468.00	3,406.99	61.00	56.849		
10,800.00	6,989.09	6,417.00	6,392.48	127.46	28.40	11.11	355.05	371.97	3,566.30	3,505.22	61.07	58.393		
10,900.00	6,987.86	6,417.00	6,392.48	130.65	28.40	11.11	355.05	371.97	3,664.69	3,603.55	61.14	59.936		
11,000.00	6,986.62	6,417.00	6,392.48	133.85	28.40	11.11	355.05	371.97	3,763.17	3,701.96	61.21	61.480		
11,100.00	6,985.39	6,417.00	6,392.48	137.06	28.40	11.11	355.05	371.97	3,861.73	3,800.46	61.28	63.023		
11,200.00	6,984.16	6,417.00	6,392.48	140.27	28.40	11.11	355.05	371.97	3,960.36	3,899.02	61.34	64.565		
11,300.00	6,982.92	6,417.00	6,392.48	143.48	28.40	11.11	355.05	371.97	4,059.06	3,997.66	61.40	66.106		
11,400.00	6,981.69	6,417.00	6,392.48	146.70	28.40	11.11	355.05	371.97	4,157.82	4,096.36	61.46	67.646		
11,500.00	6,980.46	6,417.00	6,392.48	149.92	28.40	11.11	355.05	371.97	4,256.64	4,195.11	61.53	69.184		
11,600.00	6,979.22	6,417.00	6,392.48	153.15	28.40	11.11	355.05	371.97	4,355.51	4,293.92	61.59	70.721		
11,700.00	6,977.99	6,417.00	6,392.48	156.38	28.40	11.11	355.05	371.97	4,454.43	4,392.78	61.65	72.256		
11,800.00	6,976.75	6,417.00	6,392.48	159.62	28.40	11.11	355.05	371.97	4,553.40	4,491.69	61.71	73.789		
11,900.00	6,975.52	6,417.00	6,392.48	162.86	28.40	11.11	355.05	371.97	4,652.41	4,590.64	61.77	75.320		
12,000.00	6,974.29	6,417.00	6,392.48	166.10	28.40	11.11	355.05	371.97	4,751.47	4,689.64	61.83	76.849		
12,100.00	6,973.05	6,417.00	6,392.48	169.34	28.40	11.11	355.05	371.97	4,850.56	4,788.67	61.89	78.375		
12,200.00	6,971.82	6,417.00	6,392.48	172.59	28.40	11.11	355.05	371.97	4,949.69	4,887.74	61.95	79.898		
12,300.00	6,970.59	6,417.00	6,392.48	175.84	28.40	11.11	355.05	371.97	5,048.85	4,986.84	62.01	81.419		
12,400.00	6,969.35	6,417.00	6,392.48	179.09	28.40	11.11	355.05	371.97	5,148.05	5,085.98	62.07	82.938		
12,500.00	6,968.12	6,417.00	6,392.48	182.35	28.40	11.11	355.05	371.97	5,247.28	5,185.15	62.13	84.453		
12,600.00	6,966.89	6,417.00	6,392.48	185.60	28.40	11.11	355.05	371.97	5,346.53	5,284.34	62.19	85.965		
12,700.00	6,965.65	6,417.00	6,392.48	188.86	28.40	11.11	355.05	371.97	5,445.82	5,383.56	62.26	87.474		
12,800.00	6,964.42	6,417.00	6,392.48	192.12	28.40	11.11	355.05	371.97	5,545.13	5,482.81	62.32	88.980		
12,900.00	6,963.18	6,417.00	6,392.48	195.38	28.40	11.11	355.05	371.97	5,644.46	5,582.08	62.38	90.483		
13,000.00	6,961.95	6,417.00	6,392.48	198.65	28.40	11.11	355.05	371.97	5,743.81	5,681.37	62.44	91.982		
13,100.00	6,960.72	6,417.00	6,392.48	201.91	28.40	11.11	355.05	371.97	5,843.19	5,780.68	62.51	93.478		
13,200.00	6,959.48	6,417.00	6,392.48	205.18	28.40	11.11	355.05	371.97	5,942.59	5,880.02	62.57	94.970		
13,300.00	6,958.25	6,417.00	6,392.48	208.45	28.40	11.11	355.05	371.97	6,042.01	5,979.37	62.64	96.459		
13,400.00	6,957.02	6,417.00	6,392.48	211.72	28.40	11.11	355.05	371.97	6,141.45	6,078.75	62.70	97.944		
13,500.00	6,955.78	6,417.00	6,392.48	214.99	28.40	11.11	355.05	371.97	6,240.90	6,178.13	62.77	99.425		
13,600.00	6,954.55	6,417.00	6,392.48	218.27	28.40	11.11	355.05	371.97	6,340.38	6,277.54	62.84	100.902		
13,700.00	6,953.32	6,417.00	6,392.48	221.54	28.40	11.11	355.05	371.97	6,439.87	6,376.96	62.90	102.375		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 133-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,800.00	6,952.08	6,417.00	6,392.48	224.82	28.40	11.11	355.05	371.97	6,539.37	6,476.40	62.97	103.844		
13,900.00	6,950.85	6,417.00	6,392.48	228.10	28.40	11.11	355.05	371.97	6,638.89	6,575.85	63.04	105.309		
14,000.00	6,949.61	6,417.00	6,392.48	231.37	28.40	11.11	355.05	371.97	6,738.43	6,675.31	63.11	106.770		
14,100.00	6,948.38	6,417.00	6,392.48	234.65	28.40	11.11	355.05	371.97	6,837.97	6,774.79	63.18	108.227		
14,200.00	6,947.15	6,417.00	6,392.48	237.93	28.40	11.11	355.05	371.97	6,937.53	6,874.28	63.25	109.680		
14,300.00	6,945.91	6,417.00	6,392.48	241.22	28.40	11.11	355.05	371.97	7,037.11	6,973.78	63.32	111.128		
14,400.00	6,944.68	6,417.00	6,392.48	244.50	28.40	11.11	355.05	371.97	7,136.69	7,073.29	63.40	112.572		
14,500.00	6,943.45	6,417.00	6,392.48	247.78	28.40	11.11	355.05	371.97	7,236.29	7,172.82	63.47	114.012		
14,600.00	6,942.21	6,417.00	6,392.48	251.07	28.40	11.11	355.05	371.97	7,335.89	7,272.35	63.54	115.447		
14,700.00	6,940.98	6,417.00	6,392.48	254.35	28.40	11.11	355.05	371.97	7,435.51	7,371.90	63.62	116.878		
14,800.00	6,939.74	6,417.00	6,392.48	257.64	28.40	11.11	355.05	371.97	7,535.14	7,471.45	63.69	118.304		
14,900.00	6,938.51	6,417.00	6,392.48	260.92	28.40	11.11	355.05	371.97	7,634.78	7,571.01	63.77	119.726		
15,000.00	6,937.28	6,417.00	6,392.48	264.21	28.40	11.11	355.05	371.97	7,734.43	7,670.58	63.85	121.143		
15,100.00	6,936.04	6,417.00	6,392.48	267.50	28.40	11.11	355.05	371.97	7,834.08	7,770.16	63.92	122.556		
15,200.00	6,934.81	6,417.00	6,392.48	270.79	28.40	11.11	355.05	371.97	7,933.75	7,869.75	64.00	123.963		
15,300.00	6,933.58	6,417.00	6,392.48	274.08	28.40	11.11	355.05	371.97	8,033.42	7,969.34	64.08	125.367		
15,400.00	6,932.34	6,417.00	6,392.48	277.37	28.40	11.11	355.05	371.97	8,133.10	8,068.94	64.16	126.765		
15,500.00	6,931.11	6,417.00	6,392.48	280.66	28.40	11.11	355.05	371.97	8,232.79	8,168.55	64.24	128.159		
15,589.88	6,930.00	6,417.00	6,392.48	283.62	28.40	11.11	355.05	371.97	8,322.40	8,258.09	64.31	129.407		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	90.65	-5.82	512.21	512.29					
100.00	100.00	99.37	99.36	3.28	3.30	90.71	-6.35	511.11	511.19	504.61	6.58	77.634		
200.00	200.00	200.43	200.41	3.34	3.38	90.80	-7.12	509.83	509.93	503.22	6.71	75.959		
300.00	299.98	302.86	302.83	3.44	3.51	17.81	-7.77	508.08	506.57	499.62	6.95	72.839		
400.00	399.84	402.93	402.87	3.60	3.69	18.10	-8.28	506.05	499.58	492.29	7.29	68.502		
500.00	499.45	509.06	508.96	3.81	3.93	18.59	-8.89	503.28	488.72	480.98	7.74	63.144		
600.00	598.70	612.57	612.39	4.08	4.20	19.27	-9.46	499.24	473.33	465.08	8.26	57.315		
700.00	697.47	705.17	704.93	4.40	4.47	20.11	-10.13	495.82	454.96	446.16	8.80	51.693		
774.77	770.92	780.42	780.13	4.68	4.70	20.95	-10.62	493.20	439.35	430.08	9.27	47.404		
800.00	795.65	805.70	805.39	4.78	4.78	21.22	-10.71	492.24	433.71	424.28	9.43	45.980		
900.00	893.64	895.38	895.03	5.20	5.08	22.26	-11.46	489.69	412.42	402.36	10.06	41.005		
1,000.00	991.63	991.98	991.61	5.66	5.41	23.53	-12.51	487.79	392.17	381.42	10.75	36.480		
1,100.00	1,089.63	1,093.02	1,092.60	6.15	5.77	25.10	-14.16	485.31	371.74	360.25	11.49	32.343		
1,200.00	1,187.62	1,192.77	1,192.26	6.65	6.14	26.97	-16.49	481.85	350.73	338.46	12.27	28.590		
1,300.00	1,285.62	1,289.65	1,289.04	7.17	6.51	29.08	-19.06	478.18	329.86	316.79	13.07	25.246		
1,400.00	1,383.61	1,385.91	1,385.20	7.71	6.89	31.47	-21.77	474.63	309.61	295.72	13.90	22.280		
1,500.00	1,481.60	1,481.28	1,480.49	8.25	7.27	34.10	-24.30	471.56	290.37	275.62	14.76	19.676		
1,600.00	1,579.60	1,577.75	1,576.90	8.80	7.65	36.93	-26.13	469.16	272.27	256.62	15.65	17.397		
1,700.00	1,677.59	1,679.33	1,678.42	9.36	8.06	40.32	-27.85	466.00	254.29	237.70	16.59	15.330		
1,800.00	1,775.59	1,773.92	1,772.84	9.92	8.46	44.50	-31.40	461.79	236.98	219.40	17.58	13.482		
1,900.00	1,873.58	1,868.10	1,866.66	10.49	8.86	50.00	-37.99	456.94	222.29	203.64	18.64	11.923		
2,000.00	1,971.57	1,962.23	1,960.36	11.06	9.26	56.35	-45.86	452.44	211.20	191.43	19.77	10.685		
2,100.00	2,069.57	2,057.00	2,054.78	11.64	9.67	62.93	-53.38	449.34	203.96	183.06	20.90	9.760		
2,200.00	2,167.56	2,154.94	2,152.23	12.22	10.10	70.51	-62.03	444.93	199.87	177.81	22.06	9.059		
2,260.58	2,226.92	2,212.91	2,209.85	12.57	10.36	75.29	-67.46	441.64	199.13	176.37	22.75	8.752 CC		
2,300.00	2,265.56	2,250.87	2,247.60	12.80	10.53	78.35	-70.86	439.72	199.43	176.24	23.19	8.600 ES		
2,400.00	2,363.55	2,345.65	2,341.95	13.38	10.95	85.54	-79.19	436.18	203.19	178.97	24.22	8.389		
2,500.00	2,461.54	2,442.68	2,438.60	13.97	11.37	92.10	-87.39	434.17	210.41	185.21	25.20	8.351		
2,600.00	2,559.54	2,540.11	2,535.62	14.55	11.81	98.64	-95.51	430.42	219.98	193.86	26.12	8.423		
2,700.00	2,657.53	2,635.85	2,630.90	15.14	12.24	104.76	-103.60	425.65	232.35	205.40	26.96	8.619		
2,800.00	2,755.53	2,732.05	2,726.64	15.73	12.68	110.20	-111.82	421.12	247.28	219.52	27.76	8.908		
2,900.00	2,853.52	2,829.67	2,823.84	16.32	13.13	114.95	-119.95	417.15	263.94	235.38	28.56	9.242		
3,000.00	2,951.52	2,926.87	2,920.70	16.91	13.57	118.88	-127.65	414.51	281.49	252.14	29.35	9.591		
3,100.00	3,049.51	3,019.16	3,012.55	17.51	13.99	122.38	-135.63	410.66	301.28	271.22	30.06	10.023		
3,200.00	3,147.50	3,120.32	3,113.27	18.10	14.46	125.79	-144.04	406.37	321.86	290.96	30.90	10.417		
3,300.00	3,245.50	3,221.38	3,213.97	18.70	14.92	129.18	-150.07	400.42	341.89	310.18	31.71	10.782		
3,400.00	3,343.49	3,321.63	3,313.94	19.29	15.38	132.27	-154.69	394.46	361.74	329.23	32.51	11.128		
3,500.00	3,441.49	3,418.34	3,410.44	19.89	15.81	134.87	-158.60	389.48	381.59	348.32	33.27	11.469		
3,600.00	3,539.48	3,514.64	3,506.51	20.48	16.25	137.10	-163.45	384.83	402.80	368.75	34.05	11.831		
3,700.00	3,637.47	3,609.24	3,600.91	21.08	16.68	139.16	-167.23	380.18	423.77	388.97	34.80	12.177		
3,800.00	3,735.47	3,694.66	3,685.99	21.68	17.07	140.94	-172.05	374.22	447.64	412.21	35.43	12.633		
3,900.00	3,833.46	3,788.81	3,779.67	22.27	17.52	142.70	-178.17	367.18	472.97	436.78	36.19	13.068		
4,000.00	3,931.46	3,883.01	3,873.38	22.87	17.96	144.28	-184.67	359.97	499.11	462.15	36.96	13.503		
4,100.00	4,029.45	3,980.73	3,970.59	23.47	18.43	145.73	-191.43	352.68	525.46	487.67	37.79	13.904		
4,200.00	4,127.44	4,076.70	4,066.10	24.07	18.88	147.02	-197.78	345.81	551.70	513.09	38.60	14.292		
4,300.00	4,225.44	4,170.18	4,159.08	24.67	19.33	148.03	-205.27	339.77	578.70	539.30	39.40	14.688		
4,400.00	4,323.43	4,275.40	4,263.81	25.27	19.82	149.02	-213.46	333.75	605.23	564.87	40.36	14.995		
4,507.81	4,429.08	4,385.50	4,373.57	25.92	20.34	150.03	-220.16	328.26	632.14	590.80	41.35	15.289		
4,600.00	4,519.70	4,476.46	4,464.25	26.45	20.76	150.87	-226.16	324.41	653.88	611.74	42.15	15.514		
4,700.00	4,618.56	4,595.52	4,583.04	26.98	21.29	151.61	-233.09	320.82	673.39	630.16	43.23	15.577		
4,800.00	4,717.88	4,730.10	4,717.54	27.46	21.83	152.08	-236.66	321.76	684.90	640.55	44.35	15.443		
4,900.00	4,817.54	4,832.16	4,819.59	27.89	22.21	152.44	-235.89	322.76	690.86	645.70	45.16	15.299		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,929.36	4,916.79	28.28	22.57	152.70	-234.64	323.08	693.83	647.91	45.92	15.109		
5,082.58	5,000.00	5,008.89	4,996.31	28.57	22.88	-134.02	-233.44	322.68	694.32	647.78	46.54	14.918		
5,100.00	5,017.42	5,025.69	5,013.10	28.62	22.95	-133.99	-233.18	322.53	694.24	647.57	46.67	14.875		
5,175.94	5,093.36	5,098.96	5,086.36	28.87	23.23	-133.87	-232.05	321.64	694.10	646.86	47.24	14.694		
5,200.00	5,117.42	5,122.35	5,109.74	28.95	23.33	-133.83	-231.70	321.28	694.11	646.69	47.42	14.638		
5,300.00	5,217.42	5,221.13	5,208.50	29.28	23.72	-133.66	-230.37	319.64	694.38	646.19	48.18	14.411		
5,400.00	5,317.42	5,322.42	5,309.78	29.62	24.13	-133.70	-230.86	319.91	694.52	645.53	48.99	14.176		
5,500.00	5,417.42	5,423.38	5,410.75	29.96	24.54	-133.72	-231.07	320.02	694.58	644.78	49.80	13.948		
5,558.93	5,476.35	5,483.57	5,470.94	30.16	24.78	-133.68	-230.67	319.76	694.50	644.23	50.28	13.814		
5,600.00	5,517.42	5,517.17	5,504.53	30.29	24.93	-133.66	-230.58	319.44	694.69	644.14	50.55	13.743		
5,700.00	5,617.42	5,611.34	5,598.68	30.64	25.32	-133.61	-231.22	317.91	696.31	645.00	51.31	13.572		
5,800.00	5,717.42	5,716.04	5,703.36	30.98	25.76	-133.48	-231.02	315.85	697.61	645.46	52.15	13.378		
5,900.00	5,817.42	5,812.99	5,800.28	31.33	26.17	-133.30	-230.13	313.62	698.66	645.73	52.92	13.202		
6,000.00	5,917.42	5,928.33	5,915.61	31.68	26.64	-133.21	-230.02	311.99	699.71	645.88	53.84	12.997		
6,100.00	6,017.42	6,029.87	6,017.13	32.03	27.05	-133.08	-228.04	311.78	698.53	643.90	54.63	12.786		
6,195.16	6,112.58	6,118.34	6,105.58	32.36	27.40	-132.94	-226.51	310.96	698.04	642.70	55.35	12.612		
6,200.00	6,117.42	6,122.82	6,110.06	32.38	27.42	-132.93	-226.48	310.94	698.05	642.66	55.38	12.604		
6,300.00	6,217.42	6,223.98	6,211.21	32.74	27.84	-132.81	-225.40	309.84	698.12	641.92	56.20	12.423		
6,400.00	6,317.42	6,325.57	6,312.77	33.09	28.25	-132.64	-223.75	308.63	697.89	640.88	57.00	12.243		
6,476.01	6,393.43	6,403.18	6,390.37	33.37	28.56	-132.54	-222.62	308.07	697.54	639.92	57.62	12.105		
6,500.00	6,417.42	6,428.98	6,416.15	33.45	28.66	-40.20	-221.97	307.69	697.05	639.23	57.82	12.055		
6,550.00	6,467.25	6,493.95	6,481.10	33.59	28.92	-40.68	-220.99	308.49	693.16	634.87	58.29	11.892		
6,600.00	6,516.64	6,600.00	6,570.34	33.71	29.31	-42.68	-222.30	318.92	683.00	624.14	58.86	11.604		
6,650.00	6,565.26	6,735.80	6,714.16	33.80	29.76	-49.44	-230.80	364.30	664.85	606.19	58.67	11.333		
6,700.00	6,612.83	6,785.76	6,759.56	33.88	29.91	-53.91	-234.02	384.90	643.36	584.29	59.07	10.891		
6,750.00	6,659.04	6,840.53	6,808.99	33.94	30.07	-59.55	-236.53	408.35	620.13	560.73	59.40	10.441		
6,800.00	6,703.62	6,891.82	6,854.53	33.99	30.21	-65.92	-237.86	431.89	595.45	535.72	59.74	9.968		
6,850.00	6,746.28	7,012.11	6,951.05	34.03	30.54	-80.92	-237.48	502.92	567.83	509.05	58.78	9.660		
6,900.00	6,786.76	7,023.42	6,959.30	34.08	30.58	-84.90	-237.24	510.66	542.28	482.27	60.01	9.037		
6,950.00	6,824.83	7,029.85	6,963.98	34.13	30.60	-87.92	-237.09	515.07	519.85	458.59	61.26	8.486		
7,000.00	6,860.23	7,031.58	6,965.24	34.20	30.60	-89.94	-237.05	516.26	501.23	438.79	62.44	8.027		
7,050.00	6,892.75	7,028.82	6,963.23	34.30	30.59	-90.94	-237.12	514.36	487.05	423.56	63.48	7.672		
7,100.00	6,922.20	7,021.79	6,958.12	34.43	30.57	-90.95	-237.27	509.55	477.70	413.41	64.29	7.430		
7,150.00	6,948.38	7,012.05	6,950.75	34.60	30.54	-90.17	-237.46	503.16	473.36	408.56	64.80	7.305		
7,168.28	6,957.11	7,006.06	6,946.52	34.68	30.52	-89.51	-237.58	498.92	473.04	408.13	64.92	7.287 SF		
7,200.00	6,971.15	6,995.86	6,939.17	34.82	30.49	-88.25	-237.78	491.86	473.99	408.98	65.01	7.291		
7,250.00	6,990.35	6,979.80	6,927.20	35.09	30.45	-85.94	-238.01	481.14	479.21	414.25	64.96	7.377		
7,300.00	7,005.87	6,964.01	6,915.02	35.43	30.41	-83.31	-238.16	471.11	488.67	423.91	64.77	7.545		
7,350.00	7,017.62	6,948.37	6,902.55	35.81	30.36	-80.37	-238.24	461.66	501.92	437.42	64.50	7.781		
7,400.00	7,025.52	6,932.84	6,889.80	36.26	30.32	-77.19	-238.23	452.80	518.42	454.18	64.24	8.070		
7,450.00	7,029.52	6,917.39	6,876.77	36.75	30.28	-73.81	-238.15	444.50	537.65	473.60	64.04	8.395		
7,483.86	7,030.00	6,899.00	6,860.84	37.12	30.23	-70.68	-237.96	435.31	552.03	488.31	63.72	8.664		
7,500.00	7,029.80	6,904.06	6,865.28	37.30	30.25	-71.16	-238.02	437.74	559.10	495.13	63.98	8.739		
7,600.00	7,028.57	6,859.27	6,825.72	38.58	30.12	-66.92	-237.13	416.77	609.40	546.04	63.37	9.617		
7,700.00	7,027.34	6,819.21	6,789.83	40.10	30.00	-63.23	-235.68	399.03	667.99	605.08	62.91	10.619		
7,800.00	7,026.10	6,777.91	6,752.44	41.83	29.88	-59.56	-233.57	381.63	733.19	670.74	62.45	11.741		
7,900.00	7,024.87	6,735.24	6,713.65	43.74	29.75	-55.95	-230.76	364.07	803.29	741.29	62.00	12.956		
8,000.00	7,023.63	6,708.00	6,688.82	45.82	29.67	-53.74	-228.64	353.05	877.33	815.33	62.00	14.151		
8,100.00	7,022.40	6,708.00	6,688.82	48.04	29.67	-53.74	-228.64	353.05	955.72	893.15	62.57	15.275		
8,200.00	7,021.17	6,676.37	6,659.59	50.38	29.57	-51.27	-226.27	341.24	1,036.37	973.97	62.41	16.607		
8,300.00	7,019.93	6,665.33	6,649.21	52.82	29.53	-50.43	-225.54	337.54	1,120.25	1,057.63	62.62	17.889		
8,400.00	7,018.70	6,655.46	6,639.86	55.35	29.50	-49.70	-224.95	334.41	1,206.30	1,143.49	62.80	19.208		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,500.00	7,017.47	6,646.58	6,631.41	57.97	29.47	-49.05	-224.45	331.76	1,294.12	1,231.17	62.95	20.557		
8,600.00	7,016.23	6,613.00	6,599.02	60.65	29.36	-46.68	-222.90	323.03	1,384.30	1,321.53	62.77	22.054		
8,700.00	7,015.00	6,613.00	6,599.02	63.39	29.36	-46.68	-222.90	323.03	1,474.38	1,411.39	62.99	23.406		
8,800.00	7,013.76	6,613.00	6,599.02	66.19	29.36	-46.68	-222.90	323.03	1,565.67	1,502.50	63.17	24.784		
8,900.00	7,012.53	6,613.00	6,599.02	69.03	29.36	-46.68	-222.90	323.03	1,657.96	1,594.65	63.32	26.184		
9,000.00	7,011.30	6,613.00	6,599.02	71.91	29.36	-46.68	-222.90	323.03	1,751.10	1,687.67	63.44	27.603		
9,100.00	7,010.06	6,613.00	6,599.02	74.83	29.36	-46.68	-222.90	323.03	1,844.96	1,781.42	63.54	29.037		
9,200.00	7,008.83	6,613.00	6,599.02	77.78	29.36	-46.68	-222.90	323.03	1,939.43	1,875.81	63.62	30.484		
9,300.00	7,007.60	6,613.00	6,599.02	80.76	29.36	-46.68	-222.90	323.03	2,034.44	1,970.74	63.69	31.942		
9,400.00	7,006.36	6,613.00	6,599.02	83.76	29.36	-46.68	-222.90	323.03	2,129.89	2,066.14	63.75	33.409		
9,500.00	7,005.13	6,613.00	6,599.02	86.79	29.36	-46.68	-222.90	323.03	2,225.75	2,161.95	63.81	34.883		
9,600.00	7,003.90	6,613.00	6,599.02	89.84	29.36	-46.68	-222.90	323.03	2,321.96	2,258.10	63.85	36.364		
9,700.00	7,002.66	6,613.00	6,599.02	92.90	29.36	-46.68	-222.90	323.03	2,418.47	2,354.58	63.90	37.850		
9,800.00	7,001.43	6,613.00	6,599.02	95.99	29.36	-46.68	-222.90	323.03	2,515.26	2,451.32	63.93	39.341		
9,900.00	7,000.19	6,613.00	6,599.02	99.08	29.36	-46.68	-222.90	323.03	2,612.29	2,548.32	63.97	40.835		
10,000.00	6,998.96	6,574.01	6,560.79	102.19	29.22	-44.12	-221.69	315.50	2,707.81	2,643.97	63.85	42.409		
10,100.00	6,997.73	6,571.33	6,558.15	105.32	29.21	-43.96	-221.63	315.09	2,805.02	2,741.14	63.88	43.911		
10,200.00	6,996.49	6,568.81	6,555.66	108.45	29.20	-43.80	-221.57	314.71	2,902.40	2,838.49	63.91	45.414		
10,300.00	6,995.26	6,566.42	6,553.30	111.60	29.19	-43.65	-221.52	314.36	2,999.95	2,936.01	63.94	46.918		
10,400.00	6,994.03	6,564.16	6,551.06	114.75	29.18	-43.51	-221.48	314.04	3,097.63	3,033.66	63.97	48.423		
10,500.00	6,992.79	6,562.02	6,548.94	117.92	29.17	-43.38	-221.43	313.75	3,195.45	3,131.45	64.00	49.929		
10,600.00	6,991.56	6,559.99	6,546.93	121.09	29.17	-43.26	-221.40	313.47	3,293.39	3,229.36	64.03	51.435		
10,700.00	6,990.33	6,558.05	6,545.01	124.27	29.16	-43.14	-221.36	313.22	3,391.44	3,327.38	64.06	52.941		
10,800.00	6,989.09	6,518.00	6,505.13	127.46	29.01	-40.83	-220.96	309.57	3,491.19	3,427.20	63.99	54.562		
10,900.00	6,987.86	6,518.00	6,505.13	130.65	29.01	-40.83	-220.96	309.57	3,589.29	3,525.26	64.03	56.060		
11,000.00	6,986.62	6,518.00	6,505.13	133.85	29.01	-40.83	-220.96	309.57	3,687.49	3,623.43	64.07	57.558		
11,100.00	6,985.39	6,518.00	6,505.13	137.06	29.01	-40.83	-220.96	309.57	3,785.79	3,721.69	64.11	59.055		
11,200.00	6,984.16	6,518.00	6,505.13	140.27	29.01	-40.83	-220.96	309.57	3,884.18	3,820.03	64.15	60.552		
11,300.00	6,982.92	6,518.00	6,505.13	143.48	29.01	-40.83	-220.96	309.57	3,982.64	3,918.46	64.19	62.048		
11,400.00	6,981.69	6,518.00	6,505.13	146.70	29.01	-40.83	-220.96	309.57	4,081.18	4,016.96	64.23	63.543		
11,500.00	6,980.46	6,518.00	6,505.13	149.92	29.01	-40.83	-220.96	309.57	4,179.79	4,115.53	64.27	65.037		
11,600.00	6,979.22	6,518.00	6,505.13	153.15	29.01	-40.83	-220.96	309.57	4,278.47	4,214.16	64.31	66.529		
11,700.00	6,977.99	6,518.00	6,505.13	156.38	29.01	-40.83	-220.96	309.57	4,377.20	4,312.85	64.35	68.020		
11,800.00	6,976.75	6,518.00	6,505.13	159.62	29.01	-40.83	-220.96	309.57	4,475.99	4,411.60	64.39	69.510		
11,900.00	6,975.52	6,518.00	6,505.13	162.86	29.01	-40.83	-220.96	309.57	4,574.84	4,510.40	64.44	70.997		
12,000.00	6,974.29	6,518.00	6,505.13	166.10	29.01	-40.83	-220.96	309.57	4,673.73	4,609.25	64.48	72.483		
12,100.00	6,973.05	6,518.00	6,505.13	169.34	29.01	-40.83	-220.96	309.57	4,772.67	4,708.14	64.52	73.967		
12,200.00	6,971.82	6,518.00	6,505.13	172.59	29.01	-40.83	-220.96	309.57	4,871.65	4,807.08	64.57	75.448		
12,300.00	6,970.59	6,518.00	6,505.13	175.84	29.01	-40.83	-220.96	309.57	4,970.67	4,906.06	64.62	76.927		
12,400.00	6,969.35	6,518.00	6,505.13	179.09	29.01	-40.83	-220.96	309.57	5,069.74	5,005.07	64.66	78.403		
12,500.00	6,968.12	6,518.00	6,505.13	182.35	29.01	-40.83	-220.96	309.57	5,168.83	5,104.12	64.71	79.877		
12,600.00	6,966.89	6,518.00	6,505.13	185.60	29.01	-40.83	-220.96	309.57	5,267.96	5,203.21	64.76	81.349		
12,700.00	6,965.65	6,518.00	6,505.13	188.86	29.01	-40.83	-220.96	309.57	5,367.13	5,302.32	64.81	82.817		
12,800.00	6,964.42	6,518.00	6,505.13	192.12	29.01	-40.83	-220.96	309.57	5,466.32	5,401.47	64.86	84.283		
12,900.00	6,963.18	6,518.00	6,505.13	195.38	29.01	-40.83	-220.96	309.57	5,565.54	5,500.64	64.91	85.746		
13,000.00	6,961.95	6,518.00	6,505.13	198.65	29.01	-40.83	-220.96	309.57	5,664.80	5,599.84	64.96	87.206		
13,100.00	6,960.72	6,518.00	6,505.13	201.91	29.01	-40.83	-220.96	309.57	5,764.07	5,699.06	65.01	88.663		
13,200.00	6,959.48	6,518.00	6,505.13	205.18	29.01	-40.83	-220.96	309.57	5,863.37	5,798.31	65.06	90.117		
13,300.00	6,958.25	6,518.00	6,505.13	208.45	29.01	-40.83	-220.96	309.57	5,962.70	5,897.58	65.12	91.567		
13,400.00	6,957.02	6,518.00	6,505.13	211.72	29.01	-40.83	-220.96	309.57	6,062.04	5,996.87	65.17	93.014		
13,500.00	6,955.78	6,518.00	6,505.13	214.99	29.01	-40.83	-220.96	309.57	6,161.41	6,096.18	65.23	94.458		
13,600.00	6,954.55	6,518.00	6,505.13	218.27	29.01	-40.83	-220.96	309.57	6,260.80	6,195.51	65.29	95.898		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWVD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,700.00	6,953.32	6,518.00	6,505.13	221.54	29.01	-40.83	-220.96	309.57	6,360.21	6,294.86	65.34	97.335		
13,800.00	6,952.08	6,518.00	6,505.13	224.82	29.01	-40.83	-220.96	309.57	6,459.63	6,394.23	65.40	98.768		
13,900.00	6,950.85	6,518.00	6,505.13	228.10	29.01	-40.83	-220.96	309.57	6,559.07	6,493.61	65.46	100.198		
14,000.00	6,949.61	6,518.00	6,505.13	231.37	29.01	-40.83	-220.96	309.57	6,658.53	6,593.01	65.52	101.624		
14,100.00	6,948.38	6,518.00	6,505.13	234.65	29.01	-40.83	-220.96	309.57	6,758.01	6,692.43	65.58	103.046		
14,200.00	6,947.15	6,518.00	6,505.13	237.93	29.01	-40.83	-220.96	309.57	6,857.50	6,791.85	65.64	104.465		
14,300.00	6,945.91	6,518.00	6,505.13	241.22	29.01	-40.83	-220.96	309.57	6,957.00	6,891.30	65.71	105.880		
14,400.00	6,944.68	6,518.00	6,505.13	244.50	29.01	-40.83	-220.96	309.57	7,056.52	6,990.75	65.77	107.290		
14,500.00	6,943.45	6,518.00	6,505.13	247.78	29.01	-40.83	-220.96	309.57	7,156.06	7,090.22	65.83	108.697		
14,600.00	6,942.21	6,518.00	6,505.13	251.07	29.01	-40.83	-220.96	309.57	7,255.60	7,189.70	65.90	110.100		
14,700.00	6,940.98	6,518.00	6,505.13	254.35	29.01	-40.83	-220.96	309.57	7,355.16	7,289.19	65.97	111.499		
14,800.00	6,939.74	6,518.00	6,505.13	257.64	29.01	-40.83	-220.96	309.57	7,454.73	7,388.70	66.03	112.894		
14,900.00	6,938.51	6,518.00	6,505.13	260.92	29.01	-40.83	-220.96	309.57	7,554.31	7,488.21	66.10	114.285		
15,000.00	6,937.28	6,518.00	6,505.13	264.21	29.01	-40.83	-220.96	309.57	7,653.90	7,587.73	66.17	115.671		
15,100.00	6,936.04	6,518.00	6,505.13	267.50	29.01	-40.83	-220.96	309.57	7,753.50	7,687.26	66.24	117.054		
15,200.00	6,934.81	6,518.00	6,505.13	270.79	29.01	-40.83	-220.96	309.57	7,853.12	7,786.81	66.31	118.432		
15,300.00	6,933.58	6,518.00	6,505.13	274.08	29.01	-40.83	-220.96	309.57	7,952.74	7,886.36	66.38	119.806		
15,400.00	6,932.34	6,518.00	6,505.13	277.37	29.01	-40.83	-220.96	309.57	8,052.37	7,985.92	66.45	121.175		
15,500.00	6,931.11	6,518.00	6,505.13	280.66	29.01	-40.83	-220.96	309.57	8,152.01	8,085.49	66.52	122.541		
15,589.88	6,930.00	6,518.00	6,505.13	283.62	29.01	-40.83	-220.96	309.57	8,241.58	8,174.99	66.59	123.764		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	92.33	-20.76	510.82	511.29					
100.00	100.00	96.61	96.61	3.28	3.30	92.37	-21.15	510.31	510.76	504.18	6.58	77.594		
200.00	200.00	198.94	198.93	3.34	3.37	92.50	-22.24	509.36	509.88	503.17	6.71	75.972		
300.00	299.98	302.80	302.76	3.44	3.51	19.60	-23.56	507.72	506.71	499.76	6.96	72.851		
400.00	399.84	405.58	405.51	3.60	3.69	20.01	-24.80	505.33	499.53	492.23	7.30	68.413		
500.00	499.45	509.51	509.39	3.81	3.93	20.57	-25.56	502.20	488.40	480.66	7.74	63.078		
600.00	598.70	603.49	603.32	4.08	4.17	21.28	-26.32	499.26	473.97	465.75	8.23	57.616		
700.00	697.47	698.06	697.86	4.40	4.44	22.26	-27.57	497.25	457.43	448.65	8.78	52.112		
774.77	770.92	768.41	768.19	4.68	4.66	23.21	-28.87	496.21	443.58	434.35	9.23	48.071		
800.00	795.65	792.10	791.87	4.78	4.73	23.52	-29.35	495.96	438.74	429.35	9.39	46.741		
900.00	893.64	883.20	882.95	5.20	5.02	24.85	-31.70	495.70	420.52	410.50	10.02	41.966		
1,000.00	991.63	979.70	979.39	5.66	5.34	26.46	-34.98	496.38	403.67	392.96	10.71	37.677		
1,100.00	1,089.63	1,079.23	1,078.84	6.15	5.69	28.32	-38.68	496.90	387.05	375.59	11.46	33.779		
1,200.00	1,187.62	1,187.38	1,186.89	6.65	6.09	30.66	-43.12	495.63	369.35	357.08	12.27	30.104		
1,300.00	1,285.62	1,268.22	1,267.68	7.17	6.38	32.44	-45.87	495.83	353.26	340.24	13.02	27.124		
1,400.00	1,383.61	1,376.08	1,375.46	7.71	6.79	34.81	-48.99	498.23	339.59	325.71	13.88	24.463		
1,500.00	1,481.60	1,485.15	1,484.38	8.25	7.22	38.01	-53.45	494.83	321.79	307.01	14.79	21.765		
1,600.00	1,579.60	1,590.62	1,589.50	8.80	7.65	41.86	-58.31	487.93	302.07	286.36	15.72	19.219		
1,700.00	1,677.59	1,687.15	1,685.47	9.36	8.05	46.30	-63.99	479.19	282.09	265.39	16.70	16.892		
1,800.00	1,775.59	1,777.04	1,774.67	9.92	8.44	51.36	-71.21	470.86	264.99	247.24	17.75	14.933		
1,900.00	1,873.58	1,866.80	1,863.63	10.49	8.84	57.20	-80.45	463.27	252.57	233.73	18.84	13.405		
2,000.00	1,971.57	1,951.22	1,947.13	11.06	9.23	63.24	-91.51	457.59	246.69	226.78	19.92	12.385		
2,036.11	2,006.96	1,984.21	1,979.70	11.27	9.38	65.64	-96.40	455.97	246.40	226.08	20.31	12.130 CC, ES		
2,100.00	2,069.57	2,044.68	2,039.50	11.64	9.66	69.88	-105.09	453.56	247.22	226.21	21.01	11.765		
2,200.00	2,167.56	2,140.71	2,134.64	12.22	10.11	76.13	-117.95	451.17	251.40	229.32	22.08	11.385		
2,300.00	2,265.56	2,243.30	2,236.49	12.80	10.58	82.29	-129.95	449.05	257.34	234.17	23.17	11.107		
2,400.00	2,363.55	2,338.82	2,331.42	13.38	11.02	87.82	-140.23	446.29	264.84	240.69	24.15	10.965		
2,500.00	2,461.54	2,436.44	2,428.32	13.97	11.48	93.52	-151.01	441.58	274.73	249.61	25.12	10.938		
2,600.00	2,559.54	2,532.98	2,524.05	14.55	11.94	99.13	-161.59	434.88	286.90	260.87	26.03	11.023		
2,700.00	2,657.53	2,623.02	2,613.15	15.14	12.38	104.18	-172.15	427.37	302.40	275.59	26.81	11.280		
2,800.00	2,755.53	2,716.00	2,704.98	15.73	12.85	109.03	-183.95	418.85	321.37	293.78	27.59	11.650		
2,900.00	2,853.52	2,815.55	2,803.41	16.32	13.35	113.55	-196.11	410.35	341.98	313.55	28.44	12.026		
3,000.00	2,951.52	2,915.13	2,902.14	16.91	13.84	117.33	-207.17	403.45	362.97	333.68	29.29	12.394		
3,100.00	3,049.51	3,014.13	3,000.47	17.51	14.32	120.50	-217.32	398.03	384.08	353.95	30.13	12.748		
3,200.00	3,147.50	3,108.24	3,093.97	18.10	14.78	123.22	-226.68	392.85	405.91	375.00	30.91	13.132		
3,300.00	3,245.50	3,196.92	3,181.95	18.70	15.21	125.56	-236.36	387.41	429.66	398.04	31.62	13.590		
3,400.00	3,343.49	3,287.22	3,271.37	19.29	15.67	127.74	-247.26	381.22	455.42	423.07	32.35	14.080		
3,500.00	3,441.49	3,390.42	3,373.60	19.89	16.19	130.01	-259.34	373.97	481.58	448.32	33.26	14.478		
3,600.00	3,539.48	3,500.18	3,482.71	20.48	16.72	132.09	-269.76	368.03	505.63	471.37	34.26	14.759		
3,700.00	3,637.47	3,592.17	3,574.22	21.08	17.16	133.62	-278.02	363.86	529.35	494.31	35.04	15.107		
3,800.00	3,735.47	3,675.66	3,657.14	21.68	17.57	134.83	-287.01	359.99	554.98	519.26	35.72	15.537		
3,900.00	3,833.46	3,751.53	3,732.18	22.27	17.96	135.78	-297.37	355.91	583.64	547.35	36.28	16.086		
4,000.00	3,931.46	3,839.04	3,818.39	22.87	18.43	136.72	-311.49	350.74	614.80	577.77	37.03	16.604		
4,100.00	4,029.45	3,932.47	3,910.32	23.47	18.94	137.58	-327.32	345.45	646.65	608.77	37.88	17.072		
4,200.00	4,127.44	4,041.81	4,018.07	24.07	19.52	138.47	-345.04	339.82	677.80	638.82	38.97	17.391		
4,300.00	4,225.44	4,159.46	4,134.54	24.67	20.12	139.39	-360.87	335.22	706.13	665.98	40.15	17.587		
4,400.00	4,323.43	4,261.70	4,236.04	25.27	20.63	140.14	-372.75	332.18	732.61	691.50	41.11	17.821		
4,507.81	4,429.08	4,358.72	4,332.38	25.92	21.11	140.82	-383.82	329.08	761.23	719.25	41.98	18.132		
4,600.00	4,519.70	4,435.92	4,408.93	26.45	21.50	141.66	-393.08	325.24	786.00	743.35	42.64	18.432		
4,700.00	4,618.56	4,541.16	4,513.33	26.98	22.04	142.53	-404.94	319.29	810.21	766.60	43.61	18.579		
4,800.00	4,717.88	4,631.37	4,602.79	27.46	22.49	143.15	-415.02	313.64	832.05	787.68	44.37	18.754		
4,900.00	4,817.54	4,737.98	4,708.55	27.89	23.03	143.58	-426.97	307.45	850.95	805.64	45.32	18.778		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,848.31	4,818.05	28.28	23.59	143.65	-439.95	303.59	866.19	819.88	46.30	18.706		
5,082.58	5,000.00	4,947.62	4,916.79	28.57	24.07	-143.32	-450.19	301.30	875.10	827.92	47.18	18.547		
5,100.00	5,017.42	4,968.20	4,937.29	28.62	24.17	-143.37	-452.03	300.84	876.58	829.22	47.36	18.509		
5,200.00	5,117.42	5,094.74	5,063.48	28.95	24.75	-143.58	-460.93	298.12	883.54	835.12	48.42	18.248		
5,300.00	5,217.42	5,233.25	5,201.92	29.28	25.32	-143.71	-464.99	297.65	885.89	836.40	49.49	17.901		
5,400.00	5,317.42	5,343.71	5,312.37	29.62	25.75	-143.68	-465.20	297.03	886.38	836.06	50.32	17.614		
5,500.00	5,417.42	5,452.18	5,420.81	29.96	26.15	-143.52	-463.03	295.54	885.58	834.47	51.11	17.326		
5,600.00	5,517.42	5,551.76	5,520.31	30.29	26.51	-143.30	-460.00	293.49	884.37	832.51	51.86	17.054		
5,700.00	5,617.42	5,651.23	5,619.72	30.64	26.87	-143.07	-457.01	291.27	883.30	830.69	52.60	16.792		
5,800.00	5,717.42	5,757.19	5,725.65	30.98	27.25	-143.03	-455.56	291.72	881.95	828.55	53.39	16.518		
5,900.00	5,817.42	5,857.84	5,826.29	31.33	27.61	-143.06	-454.42	293.17	880.18	826.01	54.17	16.249		
5,964.52	5,881.94	5,906.49	5,874.94	31.55	27.80	-143.05	-453.98	293.23	879.64	825.04	54.61	16.109		
6,000.00	5,917.42	5,933.88	5,902.32	31.68	27.90	-143.05	-454.05	293.12	879.81	824.97	54.84	16.043		
6,100.00	6,017.42	6,051.68	6,020.11	32.03	28.36	-142.99	-453.73	292.17	880.14	824.42	55.72	15.795		
6,200.00	6,117.42	6,142.46	6,110.89	32.38	28.71	-142.94	-453.07	291.85	879.75	823.28	56.46	15.581		
6,300.00	6,217.42	6,252.68	6,221.09	32.74	29.13	-142.83	-451.44	290.97	879.05	821.75	57.29	15.343		
6,400.00	6,317.42	6,360.87	6,329.25	33.09	29.52	-142.73	-449.17	290.70	877.54	819.44	58.10	15.104		
6,476.01	6,393.43	6,480.59	6,448.86	33.37	29.95	-142.78	-445.91	294.14	874.89	816.11	58.78	14.884		
6,500.00	6,417.42	6,500.00	6,467.26	33.45	30.02	-50.67	-445.05	296.22	872.29	813.32	58.97	14.792		
6,550.00	6,467.25	6,550.00	6,515.18	33.59	30.51	-53.28	-442.18	323.91	863.33	804.23	59.09	14.609		
6,600.00	6,516.64	6,734.46	6,693.33	33.71	30.75	-56.99	-444.20	355.47	848.63	789.34	59.29	14.313		
6,650.00	6,565.26	6,787.25	6,739.96	33.80	30.89	-60.67	-447.32	380.01	831.61	771.89	59.72	13.926		
6,700.00	6,612.83	6,700.00	6,604.36	33.88	30.71	-66.47	-451.36	421.26	811.52	752.24	59.29	13.688		
6,750.00	6,659.04	6,978.34	6,894.87	33.94	31.31	-75.94	-454.20	490.89	790.40	730.56	59.83	13.210		
6,800.00	6,703.62	6,800.00	6,694.15	33.99	30.99	-77.98	-454.13	491.48	768.93	708.90	60.03	12.808		
6,850.00	6,746.28	7,039.60	6,938.07	34.03	31.41	-84.70	-454.50	534.30	749.07	687.70	61.37	12.205		
6,900.00	6,786.76	7,050.01	6,945.07	34.08	31.43	-87.24	-454.46	542.01	731.56	669.31	62.25	11.752		
6,950.00	6,824.83	7,052.10	6,946.46	34.13	31.43	-88.79	-454.45	543.57	716.88	653.81	63.07	11.367		
7,000.00	6,860.23	7,048.12	6,943.81	34.20	31.42	-89.53	-454.47	540.60	705.36	641.59	63.77	11.061		
7,050.00	6,892.75	7,039.60	6,938.07	34.30	31.41	-89.58	-454.50	534.31	697.16	632.84	64.32	10.839		
7,100.00	6,922.20	7,027.62	6,929.89	34.43	31.39	-89.04	-454.51	525.55	692.33	627.62	64.71	10.699		
7,148.53	6,947.66	7,013.40	6,920.01	34.60	31.37	-88.03	-454.47	515.32	690.81	625.87	64.94	10.638		
7,150.00	6,948.38	7,012.93	6,919.68	34.60	31.37	-87.99	-454.47	514.99	690.81	625.87	64.94	10.637 SF		
7,200.00	6,971.15	6,996.11	6,907.76	34.82	31.35	-86.52	-454.37	503.13	692.45	627.40	65.05	10.645		
7,250.00	6,990.35	6,979.15	6,895.47	35.09	31.31	-84.79	-454.21	491.44	697.04	631.94	65.09	10.708		
7,300.00	7,005.87	6,961.24	6,882.18	35.43	31.28	-82.78	-454.01	479.44	704.33	639.23	65.09	10.821		
7,350.00	7,017.62	6,942.39	6,867.86	35.81	31.24	-80.53	-453.76	467.19	714.01	648.94	65.07	10.973		
7,400.00	7,025.52	6,922.77	6,852.59	36.26	31.21	-78.08	-453.45	454.86	725.76	660.71	65.06	11.156		
7,450.00	7,029.52	6,904.29	6,837.90	36.75	31.17	-75.60	-453.11	443.66	739.24	674.13	65.11	11.354		
7,483.86	7,030.00	6,883.10	6,820.71	37.12	31.12	-73.34	-452.63	431.27	749.13	684.12	65.01	11.524		
7,500.00	7,029.80	6,873.08	6,812.50	37.30	31.10	-72.70	-452.32	425.55	754.03	689.06	64.96	11.607		
7,600.00	7,028.57	6,817.07	6,765.59	38.58	30.97	-69.11	-449.45	395.09	788.66	723.88	64.79	12.173		
7,700.00	7,027.34	6,783.18	6,736.42	40.10	30.88	-66.92	-447.04	378.01	830.96	765.88	65.08	12.768		
7,800.00	7,026.10	6,757.49	6,713.87	41.83	30.81	-65.27	-445.44	365.83	881.05	815.53	65.52	13.448		
7,900.00	7,024.87	6,734.33	6,693.22	43.74	30.75	-63.79	-444.20	355.42	937.93	871.99	65.94	14.224		
8,000.00	7,023.63	6,709.00	6,670.31	45.82	30.68	-62.20	-443.07	344.66	1,000.62	934.37	66.24	15.105		
8,100.00	7,022.40	6,709.00	6,670.31	48.04	30.68	-62.20	-443.07	344.66	1,068.39	1,001.47	66.92	15.964		
8,200.00	7,021.17	6,688.51	6,651.46	50.38	30.62	-60.93	-442.45	336.66	1,140.24	1,073.09	67.15	16.980		
8,300.00	7,019.93	6,664.00	6,628.45	52.82	30.55	-59.43	-442.18	328.22	1,216.22	1,148.95	67.27	18.079		
8,400.00	7,018.70	6,664.00	6,628.45	55.35	30.55	-59.43	-442.18	328.22	1,294.62	1,226.94	67.67	19.130		
8,500.00	7,017.47	6,664.00	6,628.45	57.97	30.55	-59.43	-442.18	328.22	1,375.82	1,307.83	67.99	20.236		
8,600.00	7,016.23	6,664.00	6,628.45	60.65	30.55	-59.43	-442.18	328.22	1,459.36	1,391.12	68.24	21.386		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	7,015.00	6,639.86	6,605.43	63.39	30.47	-57.99	-442.19	320.94	1,544.26	1,476.04	68.22	22.636		
8,800.00	7,013.76	6,630.83	6,596.76	66.19	30.45	-57.46	-442.19	318.43	1,630.89	1,562.56	68.32	23.870		
8,900.00	7,012.53	6,614.00	6,580.51	69.03	30.39	-56.48	-442.20	314.06	1,718.90	1,650.56	68.34	25.151		
9,000.00	7,011.30	6,614.00	6,580.51	71.91	30.39	-56.48	-442.20	314.06	1,807.91	1,739.43	68.48	26.401		
9,100.00	7,010.06	6,614.00	6,580.51	74.83	30.39	-56.48	-442.20	314.06	1,898.00	1,829.42	68.59	27.673		
9,200.00	7,008.83	6,614.00	6,580.51	77.78	30.39	-56.48	-442.20	314.06	1,989.05	1,920.37	68.68	28.962		
9,300.00	7,007.60	6,614.00	6,580.51	80.76	30.39	-56.48	-442.20	314.06	2,080.92	2,012.17	68.75	30.268		
9,400.00	7,006.36	6,614.00	6,580.51	83.76	30.39	-56.48	-442.20	314.06	2,173.50	2,104.69	68.81	31.586		
9,500.00	7,005.13	6,614.00	6,580.51	86.79	30.39	-56.48	-442.20	314.06	2,266.72	2,197.86	68.86	32.917		
9,600.00	7,003.90	6,614.00	6,580.51	89.84	30.39	-56.48	-442.20	314.06	2,360.49	2,291.58	68.91	34.257		
9,700.00	7,002.66	6,614.00	6,580.51	92.90	30.39	-56.48	-442.20	314.06	2,454.75	2,385.81	68.94	35.606		
9,800.00	7,001.43	6,574.07	6,541.54	95.99	30.26	-54.23	-442.60	305.40	2,547.86	2,479.03	68.83	37.018		
9,900.00	7,000.19	6,570.27	6,537.81	99.08	30.25	-54.02	-442.68	304.71	2,642.64	2,573.79	68.85	38.380		
10,000.00	6,998.96	6,566.69	6,534.28	102.19	30.24	-53.83	-442.76	304.07	2,737.77	2,668.90	68.88	39.748		
10,100.00	6,997.73	6,563.30	6,530.94	105.32	30.23	-53.65	-442.84	303.48	2,833.22	2,764.32	68.90	41.120		
10,200.00	6,996.49	6,560.08	6,527.77	108.45	30.22	-53.47	-442.92	302.94	2,928.95	2,860.02	68.92	42.496		
10,300.00	6,995.26	6,557.03	6,524.77	111.60	30.21	-53.31	-443.00	302.44	3,024.93	2,955.99	68.94	43.875		
10,400.00	6,994.03	6,519.00	6,487.09	114.75	30.08	-51.35	-444.35	297.44	3,122.34	3,053.46	68.88	45.331		
10,500.00	6,992.79	6,519.00	6,487.09	117.92	30.08	-51.35	-444.35	297.44	3,218.59	3,149.68	68.91	46.706		
10,600.00	6,991.56	6,519.00	6,487.09	121.09	30.08	-51.35	-444.35	297.44	3,315.06	3,246.12	68.94	48.083		
10,700.00	6,990.33	6,519.00	6,487.09	124.27	30.08	-51.35	-444.35	297.44	3,411.74	3,342.77	68.98	49.463		
10,800.00	6,989.09	6,519.00	6,487.09	127.46	30.08	-51.35	-444.35	297.44	3,508.60	3,439.60	69.01	50.845		
10,900.00	6,987.86	6,519.00	6,487.09	130.65	30.08	-51.35	-444.35	297.44	3,605.64	3,536.60	69.03	52.229		
11,000.00	6,986.62	6,519.00	6,487.09	133.85	30.08	-51.35	-444.35	297.44	3,702.83	3,633.77	69.06	53.614		
11,100.00	6,985.39	6,519.00	6,487.09	137.06	30.08	-51.35	-444.35	297.44	3,800.17	3,731.08	69.09	55.001		
11,200.00	6,984.16	6,519.00	6,487.09	140.27	30.08	-51.35	-444.35	297.44	3,897.64	3,828.52	69.12	56.388		
11,300.00	6,982.92	6,519.00	6,487.09	143.48	30.08	-51.35	-444.35	297.44	3,995.24	3,926.09	69.15	57.775		
11,400.00	6,981.69	6,519.00	6,487.09	146.70	30.08	-51.35	-444.35	297.44	4,092.95	4,023.77	69.18	59.163		
11,500.00	6,980.46	6,519.00	6,487.09	149.92	30.08	-51.35	-444.35	297.44	4,190.77	4,121.56	69.21	60.551		
11,600.00	6,979.22	6,519.00	6,487.09	153.15	30.08	-51.35	-444.35	297.44	4,288.70	4,219.46	69.24	61.938		
11,700.00	6,977.99	6,519.00	6,487.09	156.38	30.08	-51.35	-444.35	297.44	4,386.71	4,317.44	69.27	63.325		
11,800.00	6,976.75	6,519.00	6,487.09	159.62	30.08	-51.35	-444.35	297.44	4,484.82	4,415.51	69.30	64.712		
11,900.00	6,975.52	6,519.00	6,487.09	162.86	30.08	-51.35	-444.35	297.44	4,583.00	4,513.67	69.34	66.098		
12,000.00	6,974.29	6,519.00	6,487.09	166.10	30.08	-51.35	-444.35	297.44	4,681.26	4,611.89	69.37	67.483		
12,100.00	6,973.05	6,519.00	6,487.09	169.34	30.08	-51.35	-444.35	297.44	4,779.60	4,710.19	69.40	68.867		
12,200.00	6,971.82	6,519.00	6,487.09	172.59	30.08	-51.35	-444.35	297.44	4,878.00	4,808.56	69.44	70.250		
12,300.00	6,970.59	6,519.00	6,487.09	175.84	30.08	-51.35	-444.35	297.44	4,976.47	4,906.99	69.47	71.632		
12,400.00	6,969.35	6,519.00	6,487.09	179.09	30.08	-51.35	-444.35	297.44	5,074.99	5,005.48	69.51	73.012		
12,500.00	6,968.12	6,519.00	6,487.09	182.35	30.08	-51.35	-444.35	297.44	5,173.57	5,104.03	69.55	74.390		
12,600.00	6,966.89	6,519.00	6,487.09	185.60	30.08	-51.35	-444.35	297.44	5,272.21	5,202.63	69.58	75.767		
12,700.00	6,965.65	6,519.00	6,487.09	188.86	30.08	-51.35	-444.35	297.44	5,370.90	5,301.27	69.62	77.143		
12,800.00	6,964.42	6,519.00	6,487.09	192.12	30.08	-51.35	-444.35	297.44	5,469.63	5,399.97	69.66	78.516		
12,900.00	6,963.18	6,519.00	6,487.09	195.38	30.08	-51.35	-444.35	297.44	5,568.41	5,498.71	69.70	79.888		
13,000.00	6,961.95	6,519.00	6,487.09	198.65	30.08	-51.35	-444.35	297.44	5,667.23	5,597.49	69.74	81.257		
13,100.00	6,960.72	6,519.00	6,487.09	201.91	30.08	-51.35	-444.35	297.44	5,766.09	5,696.31	69.79	82.625		
13,200.00	6,959.48	6,519.00	6,487.09	205.18	30.08	-51.35	-444.35	297.44	5,864.99	5,795.16	69.83	83.990		
13,300.00	6,958.25	6,519.00	6,487.09	208.45	30.08	-51.35	-444.35	297.44	5,963.93	5,894.06	69.87	85.353		
13,400.00	6,957.02	6,519.00	6,487.09	211.72	30.08	-51.35	-444.35	297.44	6,062.90	5,992.99	69.92	86.713		
13,500.00	6,955.78	6,519.00	6,487.09	214.99	30.08	-51.35	-444.35	297.44	6,161.91	6,091.95	69.97	88.071		
13,600.00	6,954.55	6,519.00	6,487.09	218.27	30.08	-51.35	-444.35	297.44	6,260.95	6,190.94	70.01	89.427		
13,700.00	6,953.32	6,519.00	6,487.09	221.54	30.08	-51.35	-444.35	297.44	6,360.02	6,289.96	70.06	90.780		
13,800.00	6,952.08	6,519.00	6,487.09	224.82	30.08	-51.35	-444.35	297.44	6,459.11	6,389.00	70.11	92.130		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 39-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
13,900.00	6,950.85	6,519.00	6,487.09	228.10	30.08	-51.35	-444.35	297.44	6,558.24	6,488.08	70.16	93.478	
14,000.00	6,949.61	6,519.00	6,487.09	231.37	30.08	-51.35	-444.35	297.44	6,657.39	6,587.18	70.21	94.823	
14,100.00	6,948.38	6,519.00	6,487.09	234.65	30.08	-51.35	-444.35	297.44	6,756.56	6,686.30	70.26	96.165	
14,200.00	6,947.15	6,519.00	6,487.09	237.93	30.08	-51.35	-444.35	297.44	6,855.76	6,785.45	70.31	97.505	
14,300.00	6,945.91	6,519.00	6,487.09	241.22	30.08	-51.35	-444.35	297.44	6,954.98	6,884.62	70.37	98.841	
14,400.00	6,944.68	6,519.00	6,487.09	244.50	30.08	-51.35	-444.35	297.44	7,054.22	6,983.81	70.42	100.174	
14,500.00	6,943.45	6,519.00	6,487.09	247.78	30.08	-51.35	-444.35	297.44	7,153.49	7,083.02	70.47	101.505	
14,600.00	6,942.21	6,519.00	6,487.09	251.07	30.08	-51.35	-444.35	297.44	7,252.77	7,182.24	70.53	102.832	
14,700.00	6,940.98	6,479.04	6,447.32	254.35	29.94	-49.40	-445.97	294.04	7,351.29	7,280.73	70.56	104.180	
14,800.00	6,939.74	6,477.93	6,446.20	257.64	29.94	-49.35	-446.01	293.96	7,450.57	7,379.95	70.62	105.501	
14,900.00	6,938.51	6,476.84	6,445.12	260.92	29.93	-49.30	-446.05	293.89	7,549.87	7,479.19	70.68	106.820	
15,000.00	6,937.28	6,475.77	6,444.05	264.21	29.93	-49.25	-446.09	293.82	7,649.19	7,578.45	70.74	108.135	
15,100.00	6,936.04	6,474.73	6,443.01	267.50	29.93	-49.20	-446.12	293.75	7,748.52	7,677.72	70.80	109.447	
15,200.00	6,934.81	6,473.71	6,442.00	270.79	29.92	-49.15	-446.16	293.68	7,847.86	7,777.01	70.86	110.756	
15,300.00	6,933.58	6,472.71	6,441.00	274.08	29.92	-49.10	-446.19	293.62	7,947.23	7,876.31	70.92	112.061	
15,400.00	6,932.34	6,471.74	6,440.03	277.37	29.92	-49.06	-446.23	293.56	8,046.60	7,975.62	70.98	113.363	
15,500.00	6,931.11	6,470.79	6,439.08	280.66	29.91	-49.01	-446.26	293.50	8,146.00	8,074.95	71.04	114.662	
15,589.88	6,930.00	6,469.95	6,438.25	283.62	29.91	-48.97	-446.29	293.45	8,235.34	8,164.24	71.10	115.826	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 168-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	84.06	53.93	518.33	521.18					
100.00	100.00	99.19	99.19	3.28	3.29	84.08	53.70	517.76	520.58	514.00	6.57	79.205		
200.00	200.00	202.43	202.41	3.34	3.32	84.13	53.07	516.06	518.87	512.21	6.66	77.911		
300.00	299.98	298.78	298.75	3.44	3.41	10.98	53.33	514.57	515.65	508.79	6.86	75.208		
400.00	399.84	394.76	394.71	3.60	3.55	10.92	54.96	513.73	509.81	502.66	7.15	71.298		
500.00	499.45	490.40	490.27	3.81	3.73	10.70	58.75	513.28	501.20	493.67	7.53	66.532		
600.00	598.70	586.02	585.61	4.08	3.95	10.15	65.98	513.39	490.17	482.17	8.00	61.289		
700.00	697.47	683.53	682.75	4.40	4.20	9.50	74.50	513.68	476.13	467.59	8.54	55.755		
774.77	770.92	756.35	755.30	4.68	4.42	9.05	80.80	514.15	463.69	454.70	8.99	51.594		
800.00	795.65	781.52	780.36	4.78	4.50	8.86	83.12	514.28	459.17	450.02	9.15	50.192		
900.00	893.64	879.77	878.02	5.20	4.82	7.87	93.76	514.45	441.22	431.41	9.80	45.009		
1,000.00	991.63	979.04	976.21	5.66	5.19	6.24	108.36	513.98	423.48	412.97	10.52	40.263		
1,100.00	1,089.63	1,076.96	1,072.59	6.15	5.59	4.08	125.56	512.46	405.69	394.41	11.28	35.958		
1,200.00	1,187.62	1,174.15	1,168.05	6.65	6.02	1.57	143.77	510.76	388.64	376.55	12.09	32.151		
1,300.00	1,285.62	1,270.02	1,262.26	7.17	6.46	-1.07	161.44	509.17	372.40	359.47	12.92	28.821		
1,400.00	1,383.61	1,368.37	1,358.90	7.71	6.93	-4.01	179.63	507.72	357.22	343.43	13.79	25.908		
1,500.00	1,481.60	1,471.18	1,460.12	8.25	7.43	-7.23	197.54	505.52	342.04	327.35	14.69	23.289		
1,600.00	1,579.60	1,566.41	1,554.00	8.80	7.89	-10.37	213.23	502.93	327.00	311.42	15.58	20.987		
1,700.00	1,677.59	1,669.07	1,655.22	9.36	8.40	-14.08	230.17	500.00	312.99	296.47	16.52	18.951		
1,800.00	1,775.59	1,761.05	1,745.95	9.92	8.85	-17.65	244.92	497.08	299.77	282.33	17.44	17.186		
1,900.00	1,873.58	1,854.17	1,837.72	10.49	9.32	-21.50	260.64	495.59	289.70	271.32	18.39	15.755		
2,000.00	1,971.57	1,948.74	1,930.91	11.06	9.81	-25.48	276.72	495.39	282.28	262.93	19.35	14.589		
2,100.00	2,069.57	2,042.06	2,022.66	11.64	10.30	-29.70	293.80	495.56	277.65	257.33	20.32	13.662		
2,200.00	2,167.56	2,144.47	2,123.18	12.22	10.85	-34.69	313.37	494.90	274.95	253.57	21.38	12.860		
2,300.00	2,265.56	2,249.77	2,226.78	12.80	11.41	-40.14	331.86	491.69	271.72	249.24	22.48	12.087		
2,361.12	2,325.45	2,302.91	2,279.03	13.15	11.70	-43.04	341.36	489.55	270.71	247.62	23.09	11.723 CC, ES		
2,400.00	2,363.55	2,337.17	2,312.61	13.38	11.89	-44.96	348.02	488.23	271.13	247.65	23.48	11.547		
2,500.00	2,461.54	2,436.37	2,409.89	13.97	12.44	-50.30	367.17	485.13	274.10	249.52	24.57	11.154		
2,600.00	2,559.54	2,533.17	2,505.01	14.55	12.97	-55.13	385.01	483.09	278.87	253.23	25.63	10.879		
2,700.00	2,657.53	2,622.63	2,592.75	15.14	13.47	-59.17	402.46	482.77	287.04	260.44	26.60	10.792		
2,800.00	2,755.53	2,719.79	2,687.83	15.73	14.02	-63.24	422.41	483.00	297.99	270.34	27.65	10.776 SF		
2,900.00	2,853.52	2,817.61	2,783.57	16.32	14.58	-67.18	442.47	482.42	310.27	281.56	28.72	10.804		
3,000.00	2,951.52	2,915.27	2,879.18	16.91	15.15	-71.02	462.33	480.66	323.77	293.98	29.79	10.869		
3,100.00	3,049.51	3,013.96	2,975.88	17.51	15.71	-74.57	481.95	478.96	338.15	307.28	30.87	10.954		
3,200.00	3,147.50	3,112.60	3,072.61	18.10	16.27	-77.92	501.13	476.72	353.35	321.39	31.95	11.059		
3,300.00	3,245.50	3,212.64	3,170.90	18.70	16.83	-80.97	519.72	475.01	368.69	335.64	33.05	11.156		
3,400.00	3,343.49	3,311.30	3,267.88	19.29	17.38	-83.79	537.68	473.06	384.65	350.52	34.12	11.273		
3,500.00	3,441.49	3,411.55	3,366.55	19.89	17.93	-86.21	555.38	472.70	400.50	365.29	35.21	11.373		
3,600.00	3,539.48	3,509.47	3,462.97	20.48	18.47	-88.38	572.52	472.57	416.77	380.49	36.28	11.489		
3,700.00	3,637.47	3,609.06	3,561.09	21.08	19.01	-90.45	589.56	472.23	433.29	395.93	37.36	11.598		
3,800.00	3,735.47	3,702.25	3,652.95	21.68	19.52	-92.32	605.20	471.52	450.16	411.81	38.36	11.736		
3,900.00	3,833.46	3,792.43	3,741.52	22.27	20.03	-93.88	622.15	471.09	469.22	429.91	39.31	11.936		
4,000.00	3,931.46	3,886.73	3,833.98	22.87	20.57	-95.39	640.69	470.40	489.55	449.22	40.33	12.139		
4,100.00	4,029.45	3,983.86	3,929.18	23.47	21.13	-96.86	659.90	469.15	510.53	469.15	41.38	12.337		
4,200.00	4,127.44	4,082.60	4,026.09	24.07	21.70	-98.35	678.74	467.20	531.50	489.04	42.46	12.517		
4,300.00	4,225.44	4,180.75	4,122.48	24.67	22.25	-99.76	697.06	464.98	552.56	509.03	43.52	12.695		
4,400.00	4,323.43	4,279.57	4,219.64	25.27	22.81	-101.15	714.91	462.18	573.66	529.07	44.60	12.864		
4,507.81	4,429.08	4,387.19	4,325.31	25.92	23.42	-102.29	735.29	461.77	596.22	550.45	45.77	13.026		
4,600.00	4,519.70	4,477.20	4,413.79	26.45	23.93	-103.46	751.83	461.10	615.08	568.35	46.73	13.163		
4,700.00	4,618.56	4,574.85	4,509.82	26.98	24.48	-104.44	769.46	459.72	634.93	587.22	47.71	13.308		
4,800.00	4,717.88	4,674.51	4,607.86	27.46	25.04	-105.08	787.26	458.17	653.87	605.20	48.67	13.434		
4,900.00	4,817.54	4,775.82	4,707.47	27.89	25.61	-105.27	805.77	457.93	671.59	621.97	49.61	13.536		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 168-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,873.57	4,803.67	28.28	26.15	-105.23	823.08	457.23	688.18	637.72	50.46	13.638		
5,082.58	5,000.00	4,955.71	4,884.54	28.57	26.61	-31.87	837.43	456.19	701.31	650.16	51.14	13.713		
5,100.00	5,017.42	4,973.17	4,901.74	28.62	26.70	-31.76	840.41	455.90	704.00	652.72	51.28	13.728		
5,200.00	5,117.42	5,082.85	5,009.91	28.95	27.30	-31.09	858.50	454.50	718.79	666.58	52.21	13.768		
5,300.00	5,217.42	5,166.53	5,092.37	29.28	27.76	-30.57	872.67	453.67	733.87	681.05	52.82	13.894		
5,400.00	5,317.42	5,268.40	5,192.65	29.62	28.33	-29.98	890.49	451.92	749.89	696.23	53.66	13.976		
5,500.00	5,417.42	5,354.01	5,276.91	29.96	28.81	-29.55	905.54	449.78	766.43	712.15	54.29	14.119		
5,600.00	5,517.42	5,461.55	5,382.58	30.29	29.42	-28.95	925.36	447.79	783.48	728.28	55.20	14.193		
5,700.00	5,617.42	5,568.46	5,487.82	30.64	30.01	-28.34	944.16	446.99	799.32	743.21	56.10	14.247		
5,800.00	5,717.42	5,679.25	5,597.15	30.98	30.61	-27.86	961.95	445.08	814.37	757.34	57.03	14.280		
5,900.00	5,817.42	5,803.74	5,720.60	31.33	31.23	-27.45	977.91	443.40	826.26	768.21	58.05	14.234		
6,000.00	5,917.42	5,948.45	5,864.71	31.68	31.89	-27.23	990.44	440.44	835.12	776.02	59.10	14.131		
6,100.00	6,017.42	6,099.50	6,015.69	32.03	32.44	-27.18	993.94	439.42	837.45	777.52	59.93	13.973		
6,200.00	6,117.42	6,199.01	6,115.19	32.38	32.76	-27.19	992.94	439.83	836.38	775.72	60.66	13.789		
6,300.00	6,217.42	6,307.00	6,223.18	32.74	33.11	-27.18	992.21	440.34	835.57	774.20	61.37	13.615		
6,400.00	6,317.42	6,403.59	6,319.75	33.09	33.43	-27.08	991.70	442.32	834.18	772.07	62.11	13.430		
6,476.01	6,393.43	6,526.97	6,442.25	33.37	33.85	-26.23	993.24	455.29	831.56	769.00	62.56	13.292		
6,500.00	6,417.42	6,574.92	6,488.24	33.45	34.02	67.23	995.52	468.58	829.43	766.83	62.61	13.248		
6,550.00	6,467.25	6,637.95	6,546.19	33.59	34.24	69.74	999.97	492.93	822.85	759.97	62.89	13.085		
6,600.00	6,516.64	6,688.90	6,593.06	33.71	34.42	72.25	1,002.87	512.70	815.10	751.91	63.20	12.898		
6,650.00	6,565.26	6,725.63	6,627.05	33.80	34.54	74.46	1,004.61	526.50	806.88	743.32	63.56	12.694		
6,700.00	6,612.83	6,924.66	6,798.01	33.88	35.08	86.05	1,001.21	625.73	793.65	731.75	61.91	12.820		
6,750.00	6,659.04	6,949.81	6,817.05	33.94	35.13	88.94	999.71	642.09	780.52	717.98	62.54	12.481		
6,800.00	6,703.62	6,968.17	6,830.62	33.99	35.17	91.23	998.72	654.43	769.77	706.59	63.18	12.184		
6,850.00	6,746.28	6,981.14	6,840.02	34.03	35.20	92.89	998.08	663.33	761.91	698.14	63.77	11.949		
6,900.00	6,786.76	6,990.80	6,846.93	34.08	35.22	94.03	997.61	670.08	757.30	693.04	64.26	11.785		
6,940.50	6,817.79	6,994.66	6,849.65	34.12	35.22	94.42	997.43	672.80	756.13	691.53	64.60	11.706		
6,950.00	6,824.83	6,995.12	6,849.98	34.13	35.23	94.45	997.40	673.13	756.20	691.53	64.66	11.695		
7,000.00	6,860.23	6,995.18	6,850.02	34.20	35.23	94.23	997.40	673.17	758.68	693.73	64.95	11.681		
7,050.00	6,892.75	6,991.81	6,847.64	34.30	35.22	93.43	997.56	670.79	764.71	699.58	65.13	11.742		
7,100.00	6,922.20	6,985.65	6,843.26	34.43	35.21	92.11	997.86	666.47	774.12	708.91	65.21	11.871		
7,150.00	6,948.38	6,980.00	6,839.20	34.60	35.19	90.52	998.13	662.55	786.66	721.41	65.25	12.057		
7,200.00	6,971.15	6,968.16	6,830.61	34.82	35.17	88.21	998.72	654.42	802.00	736.76	65.24	12.293		
7,250.00	6,990.35	6,957.19	6,822.54	35.09	35.14	85.73	999.30	647.01	819.81	754.56	65.24	12.565		
7,300.00	7,005.87	6,944.80	6,813.30	35.43	35.12	82.94	1,000.00	638.79	839.69	774.42	65.27	12.864		
7,350.00	7,017.62	6,932.00	6,803.62	35.81	35.09	79.99	1,000.76	630.45	861.27	795.92	65.35	13.179		
7,400.00	7,025.52	6,915.90	6,791.26	36.26	35.06	76.74	1,001.77	620.19	884.16	818.69	65.47	13.506		
7,450.00	7,029.52	6,899.68	6,778.60	36.75	35.03	73.47	1,002.83	610.10	907.99	842.34	65.64	13.832		
7,483.86	7,030.00	6,885.00	6,766.97	37.12	35.00	71.08	1,003.85	601.20	924.50	858.74	65.76	14.059		
7,500.00	7,029.80	6,885.00	6,766.97	37.30	35.00	71.08	1,003.85	601.20	932.48	866.58	65.90	14.150		
7,600.00	7,028.57	6,844.74	6,733.98	38.58	34.91	68.99	1,006.21	578.26	985.10	918.71	66.39	14.838		
7,700.00	7,027.34	6,809.37	6,703.55	40.10	34.81	67.10	1,007.21	560.28	1,042.79	975.81	66.98	15.569		
7,800.00	7,026.10	6,781.43	6,678.54	41.83	34.73	65.55	1,006.85	547.84	1,105.09	1,037.49	67.61	16.346		
7,900.00	7,024.87	6,759.42	6,658.42	43.74	34.65	64.31	1,006.15	538.96	1,171.72	1,103.44	68.28	17.160		
8,000.00	7,023.63	6,736.43	6,637.09	45.82	34.58	63.02	1,005.13	530.44	1,242.17	1,173.26	68.91	18.027		
8,100.00	7,022.40	6,662.37	6,568.61	48.04	34.32	59.05	1,001.47	502.47	1,315.02	1,246.17	68.85	19.099		
8,200.00	7,021.17	6,600.00	6,511.46	50.38	34.11	55.91	997.27	477.86	1,389.03	1,320.12	68.91	20.158		
8,300.00	7,019.93	6,600.00	6,511.46	52.82	34.11	55.91	997.27	477.86	1,465.46	1,395.76	69.70	21.025		
8,400.00	7,018.70	6,600.00	6,511.46	55.35	34.11	55.91	997.27	477.86	1,544.59	1,474.20	70.39	21.944		
8,500.00	7,017.47	6,600.00	6,511.46	57.97	34.11	55.91	997.27	477.86	1,626.02	1,555.03	70.98	22.907		
8,600.00	7,016.23	6,600.00	6,511.46	60.65	34.11	55.91	997.27	477.86	1,709.42	1,637.92	71.50	23.907		
8,700.00	7,015.00	6,600.00	6,511.46	63.39	34.11	55.91	997.27	477.86	1,794.52	1,722.57	71.95	24.941		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 168-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,557.04	6,471.30	66.19	33.96	53.82	994.51	462.93	1,878.12	1,806.08	72.03	26.073		
8,900.00	7,012.53	6,552.18	6,466.65	69.03	33.94	53.58	994.26	461.54	1,965.26	1,892.89	72.37	27.154		
9,000.00	7,011.30	6,547.70	6,462.35	71.91	33.92	53.37	994.05	460.31	2,053.51	1,980.83	72.68	28.255		
9,100.00	7,010.06	6,505.00	6,420.68	74.83	33.77	51.36	992.67	451.20	2,145.10	2,072.40	72.70	29.507		
9,200.00	7,008.83	6,505.00	6,420.68	77.78	33.77	51.36	992.67	451.20	2,234.73	2,161.75	72.98	30.620		
9,300.00	7,007.60	6,505.00	6,420.68	80.76	33.77	51.36	992.67	451.20	2,325.21	2,251.97	73.24	31.748		
9,400.00	7,006.36	6,505.00	6,420.68	83.76	33.77	51.36	992.67	451.20	2,416.45	2,342.98	73.47	32.891		
9,500.00	7,005.13	6,505.00	6,420.68	86.79	33.77	51.36	992.67	451.20	2,508.35	2,434.67	73.67	34.046		
9,600.00	7,003.90	6,505.00	6,420.68	89.84	33.77	51.36	992.67	451.20	2,600.84	2,526.98	73.86	35.213		
9,700.00	7,002.66	6,505.00	6,420.68	92.90	33.77	51.36	992.67	451.20	2,693.88	2,619.85	74.03	36.389		
9,800.00	7,001.43	6,505.00	6,420.68	95.99	33.77	51.36	992.67	451.20	2,787.39	2,713.21	74.18	37.574		
9,900.00	7,000.19	6,505.00	6,420.68	99.08	33.77	51.36	992.67	451.20	2,881.35	2,807.02	74.32	38.767		
10,000.00	6,998.96	6,505.00	6,420.68	102.19	33.77	51.36	992.67	451.20	2,975.69	2,901.24	74.45	39.967		
10,100.00	6,997.73	6,505.00	6,420.68	105.32	33.77	51.36	992.67	451.20	3,070.40	2,995.82	74.57	41.172		
10,200.00	6,996.49	6,505.00	6,420.68	108.45	33.77	51.36	992.67	451.20	3,165.43	3,090.74	74.69	42.383		
10,300.00	6,995.26	6,505.00	6,420.68	111.60	33.77	51.36	992.67	451.20	3,260.75	3,185.96	74.79	43.599		
10,400.00	6,994.03	6,505.00	6,420.68	114.75	33.77	51.36	992.67	451.20	3,356.35	3,281.47	74.89	44.819		
10,500.00	6,992.79	6,505.00	6,420.68	117.92	33.77	51.36	992.67	451.20	3,452.20	3,377.22	74.98	46.042		
10,600.00	6,991.56	6,505.00	6,420.68	121.09	33.77	51.36	992.67	451.20	3,548.28	3,473.21	75.07	47.269		
10,700.00	6,990.33	6,505.00	6,420.68	124.27	33.77	51.36	992.67	451.20	3,644.57	3,569.42	75.15	48.498		
10,800.00	6,989.09	6,505.00	6,420.68	127.46	33.77	51.36	992.67	451.20	3,741.05	3,665.82	75.23	49.730		
10,900.00	6,987.86	6,505.00	6,420.68	130.65	33.77	51.36	992.67	451.20	3,837.71	3,762.41	75.30	50.964		
11,000.00	6,986.62	6,505.00	6,420.68	133.85	33.77	51.36	992.67	451.20	3,934.54	3,859.17	75.38	52.199		
11,100.00	6,985.39	6,505.00	6,420.68	137.06	33.77	51.36	992.67	451.20	4,031.53	3,956.08	75.45	53.436		
11,200.00	6,984.16	6,505.00	6,420.68	140.27	33.77	51.36	992.67	451.20	4,128.66	4,053.15	75.51	54.675		
11,300.00	6,982.92	6,505.00	6,420.68	143.48	33.77	51.36	992.67	451.20	4,225.92	4,150.34	75.58	55.914		
11,400.00	6,981.69	6,505.00	6,420.68	146.70	33.77	51.36	992.67	451.20	4,323.31	4,247.67	75.64	57.154		
11,500.00	6,980.46	6,505.00	6,420.68	149.92	33.77	51.36	992.67	451.20	4,420.81	4,345.11	75.71	58.395		
11,600.00	6,979.22	6,505.00	6,420.68	153.15	33.77	51.36	992.67	451.20	4,518.43	4,442.66	75.77	59.636		
11,700.00	6,977.99	6,505.00	6,420.68	156.38	33.77	51.36	992.67	451.20	4,616.14	4,540.32	75.83	60.878		
11,800.00	6,976.75	6,505.00	6,420.68	159.62	33.77	51.36	992.67	451.20	4,713.95	4,638.07	75.89	62.119		
11,900.00	6,975.52	6,505.00	6,420.68	162.86	33.77	51.36	992.67	451.20	4,811.86	4,735.91	75.94	63.361		
12,000.00	6,974.29	6,505.00	6,420.68	166.10	33.77	51.36	992.67	451.20	4,909.84	4,833.84	76.00	64.602		
12,100.00	6,973.05	6,505.00	6,420.68	169.34	33.77	51.36	992.67	451.20	5,007.91	4,931.85	76.06	65.843		
12,200.00	6,971.82	6,505.00	6,420.68	172.59	33.77	51.36	992.67	451.20	5,106.05	5,029.93	76.12	67.083		
12,300.00	6,970.59	6,505.00	6,420.68	175.84	33.77	51.36	992.67	451.20	5,204.26	5,128.09	76.17	68.322		
12,400.00	6,969.35	6,505.00	6,420.68	179.09	33.77	51.36	992.67	451.20	5,302.54	5,226.31	76.23	69.561		
12,500.00	6,968.12	6,505.00	6,420.68	182.35	33.77	51.36	992.67	451.20	5,400.88	5,324.59	76.28	70.800		
12,600.00	6,966.89	6,505.00	6,420.68	185.60	33.77	51.36	992.67	451.20	5,499.28	5,422.94	76.34	72.037		
12,700.00	6,965.65	6,505.00	6,420.68	188.86	33.77	51.36	992.67	451.20	5,597.74	5,521.34	76.40	73.273		
12,800.00	6,964.42	6,505.00	6,420.68	192.12	33.77	51.36	992.67	451.20	5,696.25	5,619.80	76.45	74.508		
12,900.00	6,963.18	6,462.88	6,378.92	195.38	33.63	49.48	992.04	445.81	5,793.42	5,716.97	76.45	75.778		
13,000.00	6,961.95	6,461.67	6,377.71	198.65	33.62	49.42	992.02	445.69	5,891.95	5,815.45	76.51	77.011		
13,100.00	6,960.72	6,460.49	6,376.54	201.91	33.62	49.37	992.01	445.57	5,990.53	5,913.97	76.56	78.243		
13,200.00	6,959.48	6,459.35	6,375.41	205.18	33.62	49.32	992.00	445.46	6,089.16	6,012.54	76.62	79.473		
13,300.00	6,958.25	6,458.24	6,374.30	208.45	33.61	49.27	991.99	445.36	6,187.82	6,111.15	76.67	80.702		
13,400.00	6,957.02	6,457.16	6,373.23	211.72	33.61	49.23	991.98	445.26	6,286.53	6,209.80	76.73	81.929		
13,500.00	6,955.78	6,456.12	6,372.18	214.99	33.60	49.18	991.97	445.17	6,385.27	6,308.48	76.79	83.155		
13,600.00	6,954.55	6,455.10	6,371.17	218.27	33.60	49.14	991.96	445.07	6,484.05	6,407.21	76.84	84.379		
13,700.00	6,953.32	6,454.11	6,370.18	221.54	33.60	49.09	991.95	444.99	6,582.87	6,505.97	76.90	85.601		
13,800.00	6,952.08	6,453.14	6,369.22	224.82	33.59	49.05	991.94	444.90	6,681.72	6,604.76	76.96	86.821		
13,900.00	6,950.85	6,452.20	6,368.28	228.10	33.59	49.01	991.93	444.82	6,780.60	6,703.58	77.02	88.039		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 168-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,000.00	6,949.61	6,410.00	6,326.15	231.37	33.45	47.24	991.71	442.49	6,880.83	6,803.80	77.03	89.327	
14,100.00	6,948.38	6,410.00	6,326.15	234.65	33.45	47.24	991.71	442.49	6,979.72	6,902.62	77.09	90.540	
14,200.00	6,947.15	6,410.00	6,326.15	237.93	33.45	47.24	991.71	442.49	7,078.63	7,001.48	77.15	91.750	
14,300.00	6,945.91	6,410.00	6,326.15	241.22	33.45	47.24	991.71	442.49	7,177.58	7,100.37	77.21	92.959	
14,400.00	6,944.68	6,410.00	6,326.15	244.50	33.45	47.24	991.71	442.49	7,276.55	7,199.28	77.27	94.166	
14,500.00	6,943.45	6,410.00	6,326.15	247.78	33.45	47.24	991.71	442.49	7,375.56	7,298.22	77.34	95.370	
14,600.00	6,942.21	6,410.00	6,326.15	251.07	33.45	47.24	991.71	442.49	7,474.59	7,397.19	77.40	96.573	
14,700.00	6,940.98	6,410.00	6,326.15	254.35	33.45	47.24	991.71	442.49	7,573.64	7,496.18	77.46	97.773	
14,800.00	6,939.74	6,410.00	6,326.15	257.64	33.45	47.24	991.71	442.49	7,672.72	7,595.20	77.53	98.971	
14,900.00	6,938.51	6,410.00	6,326.15	260.92	33.45	47.24	991.71	442.49	7,771.83	7,694.24	77.59	100.167	
15,000.00	6,937.28	6,410.00	6,326.15	264.21	33.45	47.24	991.71	442.49	7,870.95	7,793.30	77.65	101.360	
15,100.00	6,936.04	6,410.00	6,326.15	267.50	33.45	47.24	991.71	442.49	7,970.10	7,892.38	77.72	102.551	
15,200.00	6,934.81	6,410.00	6,326.15	270.79	33.45	47.24	991.71	442.49	8,069.27	7,991.49	77.78	103.740	
15,300.00	6,933.58	6,410.00	6,326.15	274.08	33.45	47.24	991.71	442.49	8,168.46	8,090.61	77.85	104.926	
15,400.00	6,932.34	6,410.00	6,326.15	277.37	33.45	47.24	991.71	442.49	8,267.67	8,189.75	77.92	106.110	
15,500.00	6,931.11	6,410.00	6,326.15	280.66	33.45	47.24	991.71	442.49	8,366.89	8,288.91	77.98	107.292	
15,589.88	6,930.00	6,410.00	6,326.15	283.62	33.45	47.24	991.71	442.49	8,456.10	8,378.05	78.04	108.351	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	85.68	38.99	516.66	518.18					
100.00	100.00	93.46	93.46	3.28	3.29	85.70	38.85	516.63	518.09	511.52	6.57	78.843		
200.00	200.00	194.90	194.90	3.34	3.32	85.75	38.39	516.50	517.93	511.27	6.65	77.836		
300.00	299.98	298.61	298.60	3.44	3.41	12.75	37.53	515.80	515.49	508.64	6.86	75.155		
400.00	399.84	398.00	397.99	3.60	3.56	12.97	36.87	514.71	509.25	502.09	7.16	71.096		
500.00	499.45	500.90	500.87	3.81	3.76	13.31	36.24	513.46	499.52	491.95	7.57	65.999		
600.00	598.70	600.76	600.72	4.08	3.99	13.78	35.52	511.69	485.87	477.82	8.05	60.377		
700.00	697.47	694.94	694.89	4.40	4.23	14.30	35.43	510.35	469.27	460.70	8.57	54.745		
774.77	770.92	770.10	770.04	4.68	4.45	14.75	35.90	509.51	454.96	445.94	9.02	50.459		
800.00	795.65	795.53	795.47	4.78	4.52	14.89	36.09	509.13	449.74	440.56	9.17	49.023		
900.00	893.64	892.12	892.03	5.20	4.81	15.33	37.78	507.74	429.12	419.32	9.79	43.814		
1,000.00	991.63	988.88	988.72	5.66	5.12	15.56	41.25	506.55	408.77	398.32	10.45	39.114		
1,100.00	1,089.63	1,083.59	1,083.31	6.15	5.43	15.61	45.93	505.88	388.99	377.85	11.14	34.933		
1,200.00	1,187.62	1,178.48	1,178.03	6.65	5.76	15.52	51.59	506.02	370.07	358.22	11.85	31.230		
1,300.00	1,285.62	1,279.45	1,278.79	7.17	6.12	15.31	58.25	506.15	351.15	338.55	12.60	27.859		
1,400.00	1,383.61	1,379.45	1,378.43	7.71	6.50	14.80	66.41	505.52	331.56	318.18	13.38	24.785		
1,500.00	1,481.60	1,478.90	1,477.13	8.25	6.89	13.46	78.50	504.20	311.52	297.36	14.17	21.985		
1,600.00	1,579.60	1,579.69	1,576.82	8.80	7.31	11.42	93.18	501.88	290.95	275.97	14.98	19.418		
1,700.00	1,677.59	1,679.91	1,675.92	9.36	7.74	9.05	107.74	498.43	269.65	253.84	15.81	17.053		
1,800.00	1,775.59	1,779.39	1,774.32	9.92	8.18	6.37	121.61	493.94	247.72	231.07	16.65	14.875		
1,900.00	1,873.58	1,875.25	1,869.27	10.49	8.61	3.52	134.09	489.43	225.99	208.48	17.51	12.904		
2,000.00	1,971.57	1,968.13	1,961.21	11.06	9.03	0.13	146.85	486.40	206.47	188.07	18.40	11.222		
2,100.00	2,069.57	2,066.88	2,059.02	11.64	9.48	-4.05	160.19	483.67	188.25	168.95	19.31	9.750		
2,200.00	2,167.56	2,164.92	2,156.25	12.22	9.93	-8.75	172.36	480.81	170.61	150.37	20.25	8.427		
2,300.00	2,265.56	2,262.68	2,253.31	12.80	10.38	-14.17	183.64	477.97	153.91	132.67	21.23	7.249		
2,400.00	2,363.55	2,358.29	2,348.01	13.38	10.83	-21.37	196.35	474.43	139.32	117.00	22.32	6.241		
2,500.00	2,461.54	2,454.05	2,442.57	13.97	11.30	-30.47	211.16	471.37	129.46	105.92	23.53	5.501		
2,600.00	2,559.54	2,551.26	2,538.64	14.55	11.78	-40.86	225.56	467.77	122.77	97.93	24.84	4.943		
2,645.01	2,603.65	2,592.81	2,579.63	14.82	11.99	-45.52	232.23	466.60	121.91	96.51	25.40	4.799 CC, ES		
2,700.00	2,657.53	2,645.17	2,631.19	15.14	12.25	-51.37	241.33	465.53	122.97	96.86	26.10	4.710		
2,800.00	2,755.53	2,742.36	2,726.78	15.73	12.75	-62.10	258.65	462.81	128.67	101.30	27.37	4.701 SF		
2,900.00	2,853.52	2,839.70	2,822.58	16.32	13.25	-71.94	275.58	459.42	138.23	109.69	28.54	4.843		
3,000.00	2,951.52	2,937.16	2,918.55	16.91	13.76	-79.47	292.47	458.44	150.98	121.36	29.62	5.097		
3,100.00	3,049.51	3,034.98	3,014.93	17.51	14.26	-85.84	309.19	457.38	165.75	135.10	30.65	5.407		
3,200.00	3,147.50	3,133.10	3,111.70	18.10	14.77	-91.54	325.24	455.29	181.89	150.23	31.66	5.745		
3,300.00	3,245.50	3,230.76	3,208.13	18.70	15.27	-96.57	340.43	452.41	199.13	166.50	32.63	6.103		
3,400.00	3,343.49	3,328.71	3,304.90	19.29	15.77	-100.99	355.17	448.95	217.49	183.91	33.58	6.477		
3,500.00	3,441.49	3,426.34	3,401.40	19.89	16.27	-104.51	369.84	446.52	236.34	201.81	34.53	6.845		
3,600.00	3,539.48	3,523.44	3,497.36	20.48	16.77	-107.57	384.33	443.72	256.07	220.61	35.46	7.221		
3,700.00	3,637.47	3,621.01	3,593.66	21.08	17.28	-109.78	399.97	442.59	276.22	239.80	36.42	7.584		
3,800.00	3,735.47	3,717.05	3,688.50	21.68	17.78	-111.83	414.99	440.76	296.89	259.54	37.35	7.949		
3,900.00	3,833.46	3,811.07	3,781.29	22.27	18.27	-113.64	429.96	438.23	318.61	280.37	38.24	8.332		
4,000.00	3,931.46	3,905.37	3,874.24	22.87	18.77	-115.28	445.46	434.79	341.61	302.47	39.14	8.728		
4,100.00	4,029.45	4,001.55	3,969.03	23.47	19.28	-116.85	461.19	430.57	365.33	325.25	40.08	9.116		
4,200.00	4,127.44	4,101.29	4,067.42	24.07	19.81	-118.36	476.85	425.94	389.02	347.94	41.08	9.470		
4,300.00	4,225.44	4,201.03	4,166.03	24.67	20.33	-119.85	491.16	421.31	412.03	369.96	42.07	9.794		
4,400.00	4,323.43	4,298.67	4,262.68	25.27	20.82	-121.30	504.04	416.35	434.85	391.84	43.01	10.111		
4,507.81	4,429.08	4,415.44	4,378.39	25.92	21.41	-122.78	519.03	411.80	458.55	414.34	44.21	10.373		
4,600.00	4,519.70	4,511.92	4,474.20	26.45	21.88	-124.00	530.13	409.80	476.11	430.96	45.15	10.544		
4,700.00	4,618.56	4,623.14	4,584.96	26.98	22.40	-125.08	540.11	408.36	491.24	445.04	46.20	10.634		
4,800.00	4,717.88	4,725.67	4,687.23	27.46	22.85	-125.85	547.16	406.96	503.24	456.15	47.09	10.686		
4,900.00	4,817.54	4,837.52	4,798.99	27.89	23.32	-126.54	551.37	405.26	511.52	463.51	48.01	10.655		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,942.42	4,903.88	28.28	23.73	-127.09	551.97	403.81	515.73	466.92	48.80	10.567		
5,082.58	5,000.00	5,024.06	4,985.50	28.57	24.04	-54.10	552.42	402.76	517.57	468.15	49.42	10.473		
5,100.00	5,017.42	5,041.31	5,002.76	28.62	24.11	-54.11	552.54	402.53	517.83	468.28	49.55	10.451		
5,200.00	5,117.42	5,140.46	5,101.90	28.95	24.49	-54.15	553.15	401.06	519.39	469.10	50.29	10.328		
5,300.00	5,217.42	5,239.33	5,200.75	29.28	24.87	-54.24	553.48	399.18	521.13	470.10	51.03	10.213		
5,400.00	5,317.42	5,340.76	5,302.15	29.62	25.27	-54.34	553.79	397.15	522.93	471.15	51.78	10.099		
5,500.00	5,417.42	5,440.36	5,401.73	29.96	25.65	-54.47	553.78	395.25	524.48	471.96	52.53	9.985		
5,600.00	5,517.42	5,537.00	5,498.35	30.29	26.04	-54.52	554.45	393.43	526.42	473.15	53.26	9.883		
5,700.00	5,617.42	5,652.84	5,614.18	30.64	26.50	-54.42	555.91	392.92	527.56	473.43	54.12	9.747		
5,800.00	5,717.42	5,755.47	5,716.75	30.98	26.90	-54.11	557.72	395.37	526.65	471.73	54.92	9.589		
5,888.38	5,805.80	5,837.58	5,798.80	31.29	27.23	-53.76	560.09	397.60	526.21	470.60	55.61	9.463		
5,900.00	5,817.42	5,848.86	5,810.08	31.33	27.27	-53.71	560.44	397.85	526.21	470.51	55.70	9.448		
6,000.00	5,917.42	5,946.33	5,907.53	31.68	27.66	-53.59	561.49	398.27	526.50	470.04	56.47	9.324		
6,100.00	6,017.42	6,042.24	6,003.44	32.03	28.04	-53.64	561.69	397.31	527.43	470.22	57.21	9.219		
6,200.00	6,117.42	6,142.27	6,103.45	32.38	28.44	-53.65	562.62	395.87	529.14	471.15	57.99	9.124		
6,300.00	6,217.42	6,260.11	6,221.27	32.74	28.89	-53.81	560.76	395.83	528.14	469.32	58.82	8.979		
6,400.00	6,317.42	6,397.04	6,357.92	33.09	29.40	-53.32	560.98	403.15	524.43	464.87	59.56	8.805		
6,476.01	6,393.43	6,580.59	6,534.99	33.37	30.03	-49.95	562.18	449.37	508.93	450.48	58.44	8.708		
6,500.00	6,417.42	6,622.09	6,573.29	33.45	30.16	44.15	561.65	465.34	501.17	443.07	58.10	8.626		
6,550.00	6,467.25	6,694.99	6,638.39	33.59	30.37	48.89	561.37	498.06	481.24	423.64	57.60	8.354		
6,600.00	6,516.64	6,783.25	6,712.28	33.71	30.61	57.36	561.01	546.23	456.38	400.23	56.15	8.128		
6,650.00	6,565.26	6,834.84	6,752.42	33.80	30.74	65.43	560.40	578.61	428.45	372.30	56.15	7.631		
6,700.00	6,612.83	6,872.38	6,780.23	33.88	30.83	73.28	560.03	603.82	400.33	343.43	56.90	7.035		
6,750.00	6,659.04	6,899.49	6,799.54	33.94	30.92	80.20	559.80	622.84	373.83	315.57	58.26	6.416		
6,800.00	6,703.62	6,915.66	6,810.78	33.99	30.95	85.24	559.75	634.47	350.83	290.78	60.05	5.842		
6,850.00	6,746.28	6,926.84	6,818.41	34.03	30.98	88.93	559.73	642.63	332.90	271.08	61.82	5.385		
6,900.00	6,786.76	6,932.80	6,822.44	34.08	31.00	91.05	559.73	647.03	321.51	258.26	63.25	5.083		
6,949.14	6,824.19	6,934.38	6,823.50	34.13	31.00	91.68	559.73	648.20	317.68	253.67	64.02	4.963		
6,950.00	6,824.83	6,934.37	6,823.50	34.13	31.00	91.68	559.73	648.20	317.69	253.66	64.02	4.962		
7,000.00	6,860.23	6,932.24	6,822.06	34.20	30.99	90.93	559.73	646.62	321.78	257.78	64.00	5.028		
7,050.00	6,892.75	6,926.98	6,818.51	34.30	30.98	88.91	559.73	642.74	333.41	270.13	63.28	5.269		
7,100.00	6,922.20	6,919.06	6,813.12	34.43	30.96	85.75	559.74	636.94	351.60	289.48	62.11	5.660		
7,150.00	6,948.38	6,908.88	6,806.10	34.60	30.93	81.63	559.77	629.56	375.08	314.27	60.81	6.168		
7,200.00	6,971.15	6,896.75	6,797.62	34.82	30.90	76.74	559.83	620.88	402.56	342.98	59.59	6.756		
7,250.00	6,990.35	6,885.00	6,789.30	35.09	30.87	71.64	559.92	612.59	432.88	374.22	58.66	7.380		
7,300.00	7,005.87	6,867.55	6,776.72	35.43	30.82	65.71	560.07	600.50	465.04	407.21	57.83	8.041		
7,350.00	7,017.62	6,851.03	6,764.56	35.81	30.78	60.15	560.23	589.32	498.27	440.93	57.34	8.690		
7,400.00	7,025.52	6,833.51	6,751.41	36.26	30.73	54.87	560.42	577.75	531.95	474.87	57.08	9.319		
7,450.00	7,029.52	6,815.12	6,737.33	36.75	30.69	50.01	560.62	565.92	565.59	508.59	57.01	9.921		
7,483.86	7,030.00	6,790.00	6,717.65	37.12	30.63	46.15	560.93	550.31	588.36	531.81	56.55	10.404		
7,500.00	7,029.80	6,790.00	6,717.65	37.30	30.63	46.15	560.93	550.31	598.96	542.11	56.85	10.536		
7,600.00	7,028.57	6,761.35	6,694.55	38.58	30.55	44.19	561.23	533.37	668.50	610.98	57.51	11.623		
7,700.00	7,027.34	6,731.11	6,669.40	40.10	30.47	42.20	561.39	516.58	742.49	684.44	58.05	12.790		
7,800.00	7,026.10	6,695.00	6,638.41	41.83	30.37	39.93	561.37	498.07	820.23	761.87	58.36	14.054		
7,900.00	7,024.87	6,695.00	6,638.41	43.74	30.37	39.93	561.37	498.07	900.98	841.49	59.49	15.146		
8,000.00	7,023.63	6,658.76	6,606.41	45.82	30.26	37.79	561.38	481.05	983.78	924.14	59.65	16.494		
8,100.00	7,022.40	6,639.03	6,588.67	48.04	30.20	36.69	561.49	472.41	1,068.84	1,008.75	60.09	17.786		
8,200.00	7,021.17	6,600.00	6,553.00	50.38	30.09	34.67	561.94	456.61	1,156.05	1,095.90	60.16	19.218		
8,300.00	7,019.93	6,600.00	6,553.00	52.82	30.09	34.67	561.94	456.61	1,243.76	1,182.97	60.79	20.460		
8,400.00	7,018.70	6,600.00	6,553.00	55.35	30.09	34.67	561.94	456.61	1,333.21	1,271.90	61.30	21.748		
8,500.00	7,017.47	6,571.44	6,526.45	57.97	30.00	33.29	562.25	446.08	1,423.39	1,361.98	61.41	23.179		
8,600.00	7,016.23	6,556.30	6,512.25	60.65	29.95	32.58	562.32	440.83	1,514.53	1,452.89	61.64	24.569		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 165-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,700.00	7,015.00	6,542.33	6,499.08	63.39	29.90	31.95	562.31	436.18	1,606.41	1,544.55	61.86	25.970		
8,800.00	7,013.76	6,505.00	6,463.56	66.19	29.78	30.31	562.00	424.70	1,699.40	1,637.56	61.83	27.483		
8,900.00	7,012.53	6,505.00	6,463.56	69.03	29.78	30.31	562.00	424.70	1,792.16	1,730.03	62.13	28.846		
9,000.00	7,011.30	6,505.00	6,463.56	71.91	29.78	30.31	562.00	424.70	1,885.67	1,823.29	62.38	30.229		
9,100.00	7,010.06	6,505.00	6,463.56	74.83	29.78	30.31	562.00	424.70	1,979.80	1,917.21	62.60	31.628		
9,200.00	7,008.83	6,505.00	6,463.56	77.78	29.78	30.31	562.00	424.70	2,074.49	2,011.71	62.79	33.041		
9,300.00	7,007.60	6,505.00	6,463.56	80.76	29.78	30.31	562.00	424.70	2,169.66	2,106.71	62.95	34.465		
9,400.00	7,006.36	6,505.00	6,463.56	83.76	29.78	30.31	562.00	424.70	2,265.24	2,202.14	63.10	35.900		
9,500.00	7,005.13	6,505.00	6,463.56	86.79	29.78	30.31	562.00	424.70	2,361.19	2,297.96	63.23	37.342		
9,600.00	7,003.90	6,505.00	6,463.56	89.84	29.78	30.31	562.00	424.70	2,457.46	2,394.11	63.35	38.792		
9,700.00	7,002.66	6,466.13	6,426.00	92.90	29.65	28.72	561.52	414.73	2,552.44	2,489.14	63.30	40.322		
9,800.00	7,001.43	6,461.82	6,421.80	95.99	29.63	28.56	561.47	413.77	2,648.89	2,585.50	63.40	41.784		
9,900.00	7,000.19	6,457.77	6,417.84	99.08	29.62	28.40	561.43	412.90	2,745.57	2,682.08	63.48	43.248		
10,000.00	6,998.96	6,453.94	6,414.10	102.19	29.60	28.25	561.39	412.11	2,842.44	2,778.88	63.57	44.716		
10,100.00	6,997.73	6,450.33	6,410.56	105.32	29.59	28.11	561.36	411.38	2,939.50	2,875.85	63.65	46.186		
10,200.00	6,996.49	6,410.00	6,370.79	108.45	29.45	26.65	561.06	404.75	3,038.10	2,974.50	63.61	47.764		
10,300.00	6,995.26	6,410.00	6,370.79	111.60	29.45	26.65	561.06	404.75	3,135.24	3,071.55	63.69	49.223		
10,400.00	6,994.03	6,410.00	6,370.79	114.75	29.45	26.65	561.06	404.75	3,232.56	3,168.78	63.78	50.684		
10,500.00	6,992.79	6,410.00	6,370.79	117.92	29.45	26.65	561.06	404.75	3,330.03	3,266.17	63.86	52.148		
10,600.00	6,991.56	6,410.00	6,370.79	121.09	29.45	26.65	561.06	404.75	3,427.65	3,363.71	63.93	53.614		
10,700.00	6,990.33	6,410.00	6,370.79	124.27	29.45	26.65	561.06	404.75	3,525.40	3,461.39	64.00	55.081		
10,800.00	6,989.09	6,410.00	6,370.79	127.46	29.45	26.65	561.06	404.75	3,623.27	3,559.20	64.07	56.548		
10,900.00	6,987.86	6,410.00	6,370.79	130.65	29.45	26.65	561.06	404.75	3,721.26	3,657.12	64.14	58.017		
11,000.00	6,986.62	6,410.00	6,370.79	133.85	29.45	26.65	561.06	404.75	3,819.35	3,755.14	64.21	59.486		
11,100.00	6,985.39	6,410.00	6,370.79	137.06	29.45	26.65	561.06	404.75	3,917.54	3,853.27	64.27	60.955		
11,200.00	6,984.16	6,410.00	6,370.79	140.27	29.45	26.65	561.06	404.75	4,015.82	3,951.48	64.33	62.423		
11,300.00	6,982.92	6,410.00	6,370.79	143.48	29.45	26.65	561.06	404.75	4,114.18	4,049.78	64.39	63.892		
11,400.00	6,981.69	6,410.00	6,370.79	146.70	29.45	26.65	561.06	404.75	4,212.61	4,148.16	64.45	65.359		
11,500.00	6,980.46	6,410.00	6,370.79	149.92	29.45	26.65	561.06	404.75	4,311.12	4,246.61	64.51	66.826		
11,600.00	6,979.22	6,410.00	6,370.79	153.15	29.45	26.65	561.06	404.75	4,409.70	4,345.13	64.57	68.291		
11,700.00	6,977.99	6,410.00	6,370.79	156.38	29.45	26.65	561.06	404.75	4,508.34	4,443.71	64.63	69.756		
11,800.00	6,976.75	6,410.00	6,370.79	159.62	29.45	26.65	561.06	404.75	4,607.04	4,542.35	64.69	71.219		
11,900.00	6,975.52	6,410.00	6,370.79	162.86	29.45	26.65	561.06	404.75	4,705.79	4,641.04	64.75	72.680		
12,000.00	6,974.29	6,410.00	6,370.79	166.10	29.45	26.65	561.06	404.75	4,804.60	4,739.79	64.80	74.140		
12,100.00	6,973.05	6,410.00	6,370.79	169.34	29.45	26.65	561.06	404.75	4,903.45	4,838.59	64.86	75.598		
12,200.00	6,971.82	6,410.00	6,370.79	172.59	29.45	26.65	561.06	404.75	5,002.35	4,937.43	64.92	77.054		
12,300.00	6,970.59	6,410.00	6,370.79	175.84	29.45	26.65	561.06	404.75	5,101.29	5,036.31	64.98	78.508		
12,400.00	6,969.35	6,410.00	6,370.79	179.09	29.45	26.65	561.06	404.75	5,200.27	5,135.24	65.04	79.959		
12,500.00	6,968.12	6,410.00	6,370.79	182.35	29.45	26.65	561.06	404.75	5,299.29	5,234.20	65.09	81.409		
12,600.00	6,966.89	6,410.00	6,370.79	185.60	29.45	26.65	561.06	404.75	5,398.35	5,333.19	65.15	82.856		
12,700.00	6,965.65	6,410.00	6,370.79	188.86	29.45	26.65	561.06	404.75	5,497.44	5,432.23	65.21	84.300		
12,800.00	6,964.42	6,410.00	6,370.79	192.12	29.45	26.65	561.06	404.75	5,596.56	5,531.29	65.27	85.742		
12,900.00	6,963.18	6,410.00	6,370.79	195.38	29.45	26.65	561.06	404.75	5,695.72	5,630.38	65.33	87.181		
13,000.00	6,961.95	6,410.00	6,370.79	198.65	29.45	26.65	561.06	404.75	5,794.90	5,729.51	65.39	88.617		
13,100.00	6,960.72	6,410.00	6,370.79	201.91	29.45	26.65	561.06	404.75	5,894.11	5,828.66	65.45	90.050		
13,200.00	6,959.48	6,410.00	6,370.79	205.18	29.45	26.65	561.06	404.75	5,993.35	5,927.83	65.52	91.480		
13,300.00	6,958.25	6,410.00	6,370.79	208.45	29.45	26.65	561.06	404.75	6,092.61	6,027.03	65.58	92.907		
13,400.00	6,957.02	6,410.00	6,370.79	211.72	29.45	26.65	561.06	404.75	6,191.89	6,126.25	65.64	94.332		
13,500.00	6,955.78	6,410.00	6,370.79	214.99	29.45	26.65	561.06	404.75	6,291.20	6,225.50	65.70	95.752		
13,600.00	6,954.55	6,410.00	6,370.79	218.27	29.45	26.65	561.06	404.75	6,390.53	6,324.76	65.77	97.170		
13,700.00	6,953.32	6,410.00	6,370.79	221.54	29.45	26.65	561.06	404.75	6,489.88	6,424.05	65.83	98.584		
13,800.00	6,952.08	6,410.00	6,370.79	224.82	29.45	26.65	561.06	404.75	6,589.25	6,523.35	65.90	99.995		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 165-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
13,900.00	6,950.85	6,410.00	6,370.79	228.10	29.45	26.65	561.06	404.75	6,688.64	6,622.68	65.96	101.403	
14,000.00	6,949.61	6,410.00	6,370.79	231.37	29.45	26.65	561.06	404.75	6,788.04	6,722.02	66.03	102.807	
14,100.00	6,948.38	6,410.00	6,370.79	234.65	29.45	26.65	561.06	404.75	6,887.47	6,821.37	66.09	104.207	
14,200.00	6,947.15	6,368.68	6,329.71	237.93	29.29	25.28	560.82	400.26	6,985.89	6,919.77	66.12	105.650	
14,300.00	6,945.91	6,367.49	6,328.53	241.22	29.29	25.24	560.81	400.15	7,085.29	7,019.10	66.19	107.044	
14,400.00	6,944.68	6,366.34	6,327.38	244.50	29.28	25.20	560.81	400.06	7,184.70	7,118.45	66.26	108.435	
14,500.00	6,943.45	6,365.21	6,326.26	247.78	29.28	25.17	560.80	399.96	7,284.13	7,217.81	66.33	109.822	
14,600.00	6,942.21	6,364.11	6,325.17	251.07	29.27	25.13	560.79	399.87	7,383.58	7,317.18	66.40	111.204	
14,700.00	6,940.98	6,363.04	6,324.10	254.35	29.27	25.10	560.79	399.78	7,483.03	7,416.56	66.47	112.583	
14,800.00	6,939.74	6,361.99	6,323.05	257.64	29.27	25.07	560.78	399.70	7,582.50	7,515.96	66.54	113.959	
14,900.00	6,938.51	6,360.97	6,322.03	260.92	29.26	25.03	560.78	399.62	7,681.98	7,615.37	66.61	115.330	
15,000.00	6,937.28	6,359.96	6,321.03	264.21	29.26	25.00	560.77	399.54	7,781.47	7,714.79	66.68	116.697	
15,100.00	6,936.04	6,358.99	6,320.06	267.50	29.26	24.97	560.76	399.46	7,880.98	7,814.23	66.75	118.060	
15,200.00	6,934.81	6,358.03	6,319.10	270.79	29.25	24.94	560.76	399.39	7,980.50	7,913.67	66.83	119.420	
15,300.00	6,933.58	6,357.09	6,318.17	274.08	29.25	24.91	560.75	399.32	8,080.02	8,013.12	66.90	120.775	
15,400.00	6,932.34	6,315.00	6,276.14	277.37	29.09	23.67	560.52	397.09	8,180.55	8,113.61	66.94	122.205	
15,500.00	6,931.11	6,315.00	6,276.14	280.66	29.09	23.67	560.52	397.09	8,280.06	8,213.04	67.02	123.550	
15,589.88	6,930.00	6,315.00	6,276.14	283.62	29.09	23.67	560.52	397.09	8,369.50	8,302.42	67.09	124.756	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	95.69	-50.63	508.03	510.60					
100.00	100.00	100.67	100.66	3.28	3.30	95.75	-51.07	507.05	509.68	503.09	6.59	77.389		
200.00	200.00	205.02	204.99	3.34	3.38	95.91	-52.23	504.89	507.72	501.00	6.72	75.535		
300.00	299.98	303.81	303.72	3.44	3.51	23.09	-53.97	502.32	503.72	496.76	6.96	72.388		
400.00	399.84	395.71	395.57	3.60	3.68	23.69	-56.64	500.65	497.45	490.17	7.28	68.353		
500.00	499.45	489.06	488.85	3.81	3.88	24.56	-60.30	500.38	489.69	482.00	7.69	63.718		
600.00	598.70	585.41	585.07	4.08	4.12	25.81	-65.19	500.76	479.75	471.57	8.18	58.664		
700.00	697.47	694.66	694.02	4.40	4.44	27.84	-73.14	500.14	466.45	457.66	8.79	53.088		
774.77	770.92	776.20	775.14	4.68	4.71	29.92	-80.81	497.18	452.94	443.64	9.30	48.701		
800.00	795.65	803.06	801.78	4.78	4.80	30.70	-83.91	495.74	447.90	438.42	9.48	47.241		
900.00	893.64	893.07	890.87	5.20	5.14	33.65	-95.78	490.80	428.97	418.79	10.17	42.165		
1,000.00	991.63	984.86	981.44	5.66	5.52	37.14	-109.95	486.08	412.48	401.53	10.95	37.676		
1,100.00	1,089.63	1,081.86	1,076.89	6.15	5.95	41.30	-126.30	480.69	398.06	386.24	11.81	33.697		
1,200.00	1,187.62	1,170.51	1,164.07	6.65	6.36	45.37	-141.62	475.90	386.23	373.53	12.70	30.413		
1,300.00	1,285.62	1,260.20	1,252.23	7.17	6.79	49.66	-157.69	472.20	378.29	364.66	13.63	27.752		
1,400.00	1,383.61	1,351.10	1,341.44	7.71	7.24	54.19	-174.88	469.13	374.20	359.61	14.59	25.640		
1,500.00	1,481.60	1,451.02	1,439.81	8.25	7.74	58.92	-192.28	467.22	373.03	357.42	15.61	23.903		
1,600.00	1,579.60	1,554.93	1,542.68	8.80	8.24	63.48	-206.79	465.25	371.94	355.31	16.63	22.365		
1,658.12	1,636.55	1,612.20	1,599.44	9.13	8.51	66.00	-214.29	463.65	371.62	354.41	17.21	21.592 CC		
1,700.00	1,677.59	1,652.29	1,639.18	9.36	8.70	67.75	-219.44	462.59	371.81	354.19	17.62	21.098 ES		
1,800.00	1,775.59	1,750.76	1,736.72	9.92	9.19	72.19	-232.46	458.98	373.56	354.92	18.63	20.050		
1,900.00	1,873.58	1,842.34	1,827.19	10.49	9.65	76.56	-245.63	453.81	377.63	358.04	19.60	19.270		
2,000.00	1,971.57	1,936.21	1,919.95	11.06	10.13	80.80	-259.40	449.65	384.97	364.41	20.56	18.722		
2,100.00	2,069.57	2,024.59	2,006.98	11.64	10.60	84.92	-273.73	444.11	395.40	373.93	21.47	18.420		
2,200.00	2,167.56	2,117.91	2,098.78	12.22	11.11	88.94	-289.83	439.45	409.51	387.12	22.38	18.295		
2,300.00	2,265.56	2,208.68	2,188.17	12.80	11.60	92.44	-305.20	436.13	425.66	402.40	23.26	18.301		
2,400.00	2,363.55	2,292.42	2,270.37	13.38	12.07	95.49	-320.92	433.00	445.23	421.18	24.04	18.519		
2,500.00	2,461.54	2,382.72	2,358.57	13.97	12.60	98.57	-340.01	429.60	468.55	443.67	24.88	18.832		
2,600.00	2,559.54	2,478.40	2,452.22	14.55	13.15	101.36	-359.41	427.45	492.46	466.68	25.78	19.100		
2,700.00	2,657.53	2,569.97	2,541.69	15.14	13.69	103.95	-378.60	423.95	518.06	491.43	26.63	19.452		
2,800.00	2,755.53	2,659.81	2,629.28	15.73	14.24	106.62	-397.47	417.29	544.89	517.44	27.45	19.851		
2,900.00	2,853.52	2,754.44	2,721.32	16.32	14.82	109.18	-418.23	410.12	573.76	545.43	28.33	20.255		
3,000.00	2,951.52	2,866.02	2,830.41	16.91	15.48	111.95	-439.98	401.51	601.29	571.89	29.41	20.448		
3,100.00	3,049.51	2,969.05	2,931.68	17.51	16.07	114.12	-457.97	395.45	627.49	597.12	30.38	20.657		
3,200.00	3,147.50	3,075.67	3,036.74	18.10	16.67	116.09	-475.38	390.40	653.12	621.74	31.38	20.810		
3,300.00	3,245.50	3,193.31	3,153.16	18.70	17.29	117.96	-491.87	386.89	676.74	644.25	32.49	20.831		
3,400.00	3,343.49	3,276.67	3,235.75	19.29	17.72	119.21	-502.85	384.27	700.03	666.76	33.27	21.042		
3,500.00	3,441.49	3,355.83	3,313.96	19.89	18.14	120.42	-514.49	380.41	725.59	691.60	34.00	21.344		
3,600.00	3,539.48	3,445.92	3,402.70	20.48	18.65	121.71	-529.24	375.63	753.22	718.38	34.83	21.623		
3,700.00	3,637.47	3,546.25	3,501.57	21.08	19.21	122.97	-545.74	371.41	780.97	745.17	35.79	21.819		
3,800.00	3,735.47	3,642.58	3,596.61	21.68	19.74	124.11	-560.92	367.24	808.42	771.71	36.71	22.024		
3,900.00	3,833.46	3,726.22	3,679.05	22.27	20.21	125.11	-574.20	362.65	836.66	799.18	37.48	22.323		
4,000.00	3,931.46	3,809.59	3,761.01	22.87	20.69	126.01	-588.85	358.15	866.66	828.40	38.25	22.657		
4,100.00	4,029.45	3,896.10	3,845.88	23.47	21.19	126.87	-604.91	353.36	897.82	858.75	39.06	22.984		
4,200.00	4,127.44	3,987.48	3,935.39	24.07	21.74	127.69	-622.59	348.40	929.83	889.89	39.94	23.281		
4,300.00	4,225.44	4,082.03	4,028.05	24.67	22.30	128.49	-640.76	343.48	961.82	920.96	40.86	23.541		
4,400.00	4,323.43	4,177.46	4,121.51	25.27	22.87	129.24	-659.34	338.32	994.27	952.49	41.79	23.793		
4,507.81	4,429.08	4,274.10	4,216.30	25.92	23.45	129.94	-677.55	333.58	1,028.64	985.92	42.72	24.078		
4,600.00	4,519.70	4,337.68	4,278.39	26.45	23.84	130.83	-690.65	329.69	1,059.03	1,015.77	43.26	24.480		
4,700.00	4,618.56	4,449.55	4,387.70	26.98	24.53	131.82	-713.47	323.00	1,089.73	1,045.36	44.37	24.558		
4,800.00	4,717.88	4,532.98	4,469.17	27.46	25.04	132.52	-730.58	317.47	1,118.66	1,073.56	45.09	24.808		
4,900.00	4,817.54	4,633.17	4,566.90	27.89	25.77	133.11	-753.52	309.78	1,143.85	1,097.61	46.24	24.736		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,755.23	4,686.86	28.28	26.38	133.51	-772.80	302.63	1,167.02	1,119.88	47.13	24.759		
5,082.58	5,000.00	4,843.30	4,773.46	28.57	26.90	-153.11	-787.53	296.37	1,182.74	1,134.86	47.89	24.699		
5,100.00	5,017.42	4,855.50	4,785.44	28.62	26.97	-153.12	-789.68	295.54	1,186.01	1,138.04	47.97	24.724		
5,200.00	5,117.42	4,943.95	4,872.08	28.95	27.50	-153.25	-806.63	290.01	1,205.89	1,157.22	48.67	24.776		
5,300.00	5,217.42	5,061.00	4,986.96	29.28	28.19	-153.45	-828.19	283.77	1,224.73	1,175.03	49.71	24.638		
5,400.00	5,317.42	5,161.12	5,085.35	29.62	28.78	-153.64	-846.12	279.23	1,242.80	1,192.25	50.55	24.585		
5,500.00	5,417.42	5,260.56	5,183.07	29.96	29.36	-153.82	-863.98	274.76	1,260.90	1,209.52	51.39	24.537		
5,600.00	5,517.42	5,353.72	5,274.61	30.29	29.90	-153.99	-880.82	270.70	1,279.07	1,226.91	52.16	24.523		
5,700.00	5,617.42	5,478.64	5,397.36	30.64	30.63	-154.29	-903.63	267.00	1,296.90	1,243.63	53.28	24.342		
5,800.00	5,717.42	5,655.56	5,572.52	30.98	31.55	-154.66	-928.21	264.58	1,309.79	1,254.99	54.81	23.899		
5,900.00	5,817.42	5,833.70	5,750.10	31.33	32.34	-154.80	-941.52	261.82	1,317.11	1,261.02	56.10	23.479		
6,000.00	5,917.42	5,974.28	5,890.61	31.68	32.87	-154.76	-944.66	259.27	1,319.81	1,262.76	57.04	23.138		
6,100.00	6,017.42	6,076.45	5,992.75	32.03	33.23	-154.66	-944.89	256.66	1,321.10	1,263.29	57.81	22.852		
6,200.00	6,117.42	6,182.59	6,098.86	32.38	33.60	-154.56	-945.27	253.96	1,322.53	1,263.94	58.59	22.572		
6,300.00	6,217.42	6,300.35	6,216.59	32.74	33.99	-154.47	-944.43	252.10	1,322.53	1,263.14	59.39	22.267		
6,400.00	6,317.42	6,424.31	6,340.54	33.09	34.37	-154.48	-943.04	252.81	1,321.30	1,261.11	60.19	21.952		
6,476.01	6,393.43	6,533.36	6,449.52	33.37	34.69	-154.50	-940.08	254.87	1,318.91	1,258.12	60.79	21.698		
6,500.00	6,417.42	6,632.46	6,548.20	33.45	34.96	-62.61	-935.32	262.46	1,316.87	1,255.98	60.89	21.628		
6,550.00	6,467.25	6,668.14	6,583.56	33.59	35.05	-63.42	-933.87	266.98	1,310.45	1,249.18	61.27	21.389		
6,600.00	6,516.64	6,728.48	6,643.02	33.71	35.21	-64.85	-932.21	277.04	1,302.27	1,240.69	61.59	21.145		
6,650.00	6,565.26	6,850.00	6,700.50	33.80	35.01	-66.94	-932.16	293.94	1,291.35	1,229.96	61.38	21.037		
6,700.00	6,612.83	6,854.52	6,762.27	33.88	35.53	-69.75	-933.41	317.05	1,279.04	1,216.83	62.21	20.559		
6,750.00	6,659.04	6,888.08	6,792.60	33.94	35.62	-72.00	-935.01	331.30	1,266.20	1,203.62	62.58	20.233		
6,800.00	6,703.62	6,800.00	6,917.43	33.99	35.59	-79.00	-940.76	405.42	1,252.74	1,191.10	61.64	20.325		
6,850.00	6,746.28	7,128.28	6,990.60	34.03	36.07	-84.69	-941.67	464.89	1,238.25	1,175.32	62.93	19.677		
6,900.00	6,786.76	7,141.06	6,999.34	34.08	36.09	-86.65	-941.74	474.22	1,223.85	1,160.38	63.46	19.284		
6,950.00	6,824.83	7,143.65	7,001.08	34.13	36.09	-87.97	-941.76	476.14	1,211.09	1,147.11	63.98	18.930		
7,000.00	6,860.23	7,140.39	6,998.89	34.20	36.09	-88.82	-941.74	473.72	1,200.14	1,135.68	64.46	18.619		
7,050.00	6,892.75	7,133.48	6,994.19	34.30	36.08	-89.31	-941.69	468.66	1,191.08	1,126.19	64.90	18.353		
7,100.00	6,922.20	7,124.16	6,987.73	34.43	36.07	-89.51	-941.65	461.94	1,183.97	1,118.66	65.31	18.129		
7,150.00	6,948.38	7,113.15	6,979.93	34.60	36.06	-89.46	-941.61	454.18	1,178.82	1,113.12	65.70	17.941		
7,200.00	6,971.15	7,100.93	6,971.04	34.82	36.04	-89.17	-941.60	445.78	1,175.61	1,109.51	66.10	17.786		
7,250.00	6,990.35	7,086.52	6,960.28	35.09	36.02	-88.63	-941.62	436.19	1,174.29	1,107.80	66.49	17.661		
7,262.48	6,994.57	7,079.68	6,955.08	35.18	36.01	-88.32	-941.62	431.75	1,174.24	1,107.66	66.59	17.635		
7,300.00	7,005.87	7,059.75	6,939.59	35.43	35.98	-87.38	-941.52	419.22	1,174.69	1,107.83	66.86	17.570		
7,350.00	7,017.62	7,034.36	6,919.20	35.81	35.93	-86.06	-941.18	404.11	1,176.61	1,109.38	67.24	17.499		
7,400.00	7,025.52	7,012.84	6,901.46	36.26	35.91	-84.81	-940.72	391.89	1,179.95	1,112.28	67.66	17.439		
7,450.00	7,029.52	6,984.32	6,877.01	36.75	35.84	-83.15	-939.81	377.25	1,184.61	1,116.54	68.07	17.402		
7,483.86	7,030.00	6,963.76	6,859.22	37.12	35.79	-81.94	-939.01	366.97	1,188.37	1,120.02	68.35	17.386		
7,500.00	7,029.80	6,953.85	6,850.60	37.30	35.77	-81.52	-938.58	362.11	1,190.34	1,121.85	68.49	17.381		
7,600.00	7,028.57	6,899.00	6,802.34	38.58	35.64	-79.20	-935.65	336.22	1,205.91	1,136.47	69.44	17.367		
7,700.00	7,027.34	6,876.54	6,782.24	40.10	35.59	-78.24	-934.39	326.25	1,228.00	1,157.22	70.79	17.348 SF		
7,800.00	7,026.10	6,856.97	6,764.51	41.83	35.54	-77.40	-933.51	318.04	1,256.96	1,184.77	72.19	17.411		
7,900.00	7,024.87	6,839.27	6,748.28	43.74	35.49	-76.63	-932.87	311.00	1,292.42	1,218.84	73.59	17.563		
8,000.00	7,023.63	6,803.00	6,714.55	45.82	35.40	-75.05	-932.08	297.71	1,334.33	1,259.60	74.73	17.855		
8,100.00	7,022.40	6,803.00	6,714.55	48.04	35.40	-75.05	-932.08	297.71	1,381.09	1,304.95	76.13	18.140		
8,200.00	7,021.17	6,803.00	6,714.55	50.38	35.40	-75.05	-932.08	297.71	1,433.31	1,355.91	77.40	18.519		
8,300.00	7,019.93	6,803.00	6,714.55	52.82	35.40	-75.05	-932.08	297.71	1,490.42	1,411.90	78.52	18.983		
8,400.00	7,018.70	6,803.00	6,714.55	55.35	35.40	-75.05	-932.08	297.71	1,551.87	1,472.38	79.50	19.521		
8,500.00	7,017.47	6,768.07	6,681.39	57.97	35.31	-73.53	-931.87	286.75	1,615.80	1,535.67	80.13	20.164		
8,600.00	7,016.23	6,760.45	6,674.06	60.65	35.29	-73.20	-931.89	284.66	1,683.83	1,602.98	80.85	20.827		
8,700.00	7,015.00	6,753.51	6,667.36	63.39	35.27	-72.90	-931.93	282.84	1,754.81	1,673.34	81.47	21.539		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,747.17	6,661.22	66.19	35.26	-72.62	-931.98	281.26	1,828.41	1,746.39	82.01	22.294		
8,900.00	7,012.53	6,708.00	6,622.92	69.03	35.15	-70.92	-932.63	273.16	1,905.61	1,823.32	82.29	23.157		
9,000.00	7,011.30	6,708.00	6,622.92	71.91	35.15	-70.92	-932.63	273.16	1,983.23	1,900.49	82.74	23.969		
9,100.00	7,010.06	6,708.00	6,622.92	74.83	35.15	-70.92	-932.63	273.16	2,062.77	1,979.65	83.12	24.815		
9,200.00	7,008.83	6,708.00	6,622.92	77.78	35.15	-70.92	-932.63	273.16	2,144.03	2,060.58	83.45	25.691		
9,300.00	7,007.60	6,708.00	6,622.92	80.76	35.15	-70.92	-932.63	273.16	2,226.81	2,143.08	83.74	26.593		
9,400.00	7,006.36	6,708.00	6,622.92	83.76	35.15	-70.92	-932.63	273.16	2,310.96	2,226.98	83.98	27.518		
9,500.00	7,005.13	6,708.00	6,622.92	86.79	35.15	-70.92	-932.63	273.16	2,396.33	2,312.14	84.19	28.464		
9,600.00	7,003.90	6,708.00	6,622.92	89.84	35.15	-70.92	-932.63	273.16	2,482.78	2,398.41	84.37	29.428		
9,700.00	7,002.66	6,708.00	6,622.92	92.90	35.15	-70.92	-932.63	273.16	2,570.22	2,485.70	84.52	30.409		
9,800.00	7,001.43	6,708.00	6,622.92	95.99	35.15	-70.92	-932.63	273.16	2,658.55	2,573.89	84.66	31.404		
9,900.00	7,000.19	6,708.00	6,622.92	99.08	35.15	-70.92	-932.63	273.16	2,747.67	2,662.90	84.77	32.413		
10,000.00	6,998.96	6,708.00	6,622.92	102.19	35.15	-70.92	-932.63	273.16	2,837.52	2,752.65	84.87	33.433		
10,100.00	6,997.73	6,708.00	6,622.92	105.32	35.15	-70.92	-932.63	273.16	2,928.03	2,843.07	84.96	34.464		
10,200.00	6,996.49	6,708.00	6,622.92	108.45	35.15	-70.92	-932.63	273.16	3,019.14	2,934.11	85.04	35.504		
10,300.00	6,995.26	6,708.00	6,622.92	111.60	35.15	-70.92	-932.63	273.16	3,110.80	3,025.69	85.10	36.553		
10,400.00	6,994.03	6,673.15	6,588.51	114.75	35.06	-69.43	-933.68	267.69	3,202.25	3,117.14	85.11	37.627		
10,500.00	6,992.79	6,668.96	6,584.37	117.92	35.05	-69.25	-933.84	267.09	3,294.69	3,209.54	85.16	38.690		
10,600.00	6,991.56	6,664.93	6,580.39	121.09	35.04	-69.08	-933.99	266.53	3,387.54	3,302.34	85.20	39.759		
10,700.00	6,990.33	6,661.06	6,576.56	124.27	35.03	-68.92	-934.15	266.01	3,480.77	3,395.53	85.24	40.834		
10,800.00	6,989.09	6,657.34	6,572.87	127.46	35.02	-68.77	-934.30	265.51	3,574.35	3,489.07	85.28	41.913		
10,900.00	6,987.86	6,653.75	6,569.31	130.65	35.01	-68.62	-934.45	265.04	3,668.26	3,582.94	85.32	42.997		
11,000.00	6,986.62	6,650.29	6,565.88	133.85	35.00	-68.47	-934.60	264.60	3,762.46	3,677.12	85.35	44.084		
11,100.00	6,985.39	6,646.95	6,562.58	137.06	34.99	-68.33	-934.75	264.18	3,856.95	3,771.57	85.38	45.175		
11,200.00	6,984.16	6,613.00	6,528.88	140.27	34.90	-66.94	-936.49	260.42	3,952.21	3,866.83	85.38	46.289		
11,300.00	6,982.92	6,613.00	6,528.88	143.48	34.90	-66.94	-936.49	260.42	4,047.09	3,961.68	85.41	47.383		
11,400.00	6,981.69	6,613.00	6,528.88	146.70	34.90	-66.94	-936.49	260.42	4,142.22	4,056.78	85.44	48.480		
11,500.00	6,980.46	6,613.00	6,528.88	149.92	34.90	-66.94	-936.49	260.42	4,237.57	4,152.10	85.47	49.580		
11,600.00	6,979.22	6,613.00	6,528.88	153.15	34.90	-66.94	-936.49	260.42	4,333.13	4,247.64	85.50	50.682		
11,700.00	6,977.99	6,613.00	6,528.88	156.38	34.90	-66.94	-936.49	260.42	4,428.89	4,343.37	85.52	51.786		
11,800.00	6,976.75	6,613.00	6,528.88	159.62	34.90	-66.94	-936.49	260.42	4,524.83	4,439.28	85.55	52.892		
11,900.00	6,975.52	6,613.00	6,528.88	162.86	34.90	-66.94	-936.49	260.42	4,620.94	4,535.37	85.57	54.000		
12,000.00	6,974.29	6,613.00	6,528.88	166.10	34.90	-66.94	-936.49	260.42	4,717.22	4,631.62	85.60	55.110		
12,100.00	6,973.05	6,613.00	6,528.88	169.34	34.90	-66.94	-936.49	260.42	4,813.64	4,728.02	85.62	56.221		
12,200.00	6,971.82	6,613.00	6,528.88	172.59	34.90	-66.94	-936.49	260.42	4,910.21	4,824.57	85.64	57.333		
12,300.00	6,970.59	6,613.00	6,528.88	175.84	34.90	-66.94	-936.49	260.42	5,006.92	4,921.25	85.67	58.446		
12,400.00	6,969.35	6,613.00	6,528.88	179.09	34.90	-66.94	-936.49	260.42	5,103.75	5,018.06	85.69	59.560		
12,500.00	6,968.12	6,613.00	6,528.88	182.35	34.90	-66.94	-936.49	260.42	5,200.70	5,114.98	85.71	60.675		
12,600.00	6,966.89	6,613.00	6,528.88	185.60	34.90	-66.94	-936.49	260.42	5,297.76	5,212.02	85.74	61.790		
12,700.00	6,965.65	6,613.00	6,528.88	188.86	34.90	-66.94	-936.49	260.42	5,394.93	5,309.17	85.76	62.905		
12,800.00	6,964.42	6,613.00	6,528.88	192.12	34.90	-66.94	-936.49	260.42	5,492.21	5,406.42	85.79	64.021		
12,900.00	6,963.18	6,613.00	6,528.88	195.38	34.90	-66.94	-936.49	260.42	5,589.58	5,503.76	85.81	65.137		
13,000.00	6,961.95	6,613.00	6,528.88	198.65	34.90	-66.94	-936.49	260.42	5,687.04	5,601.20	85.84	66.253		
13,100.00	6,960.72	6,613.00	6,528.88	201.91	34.90	-66.94	-936.49	260.42	5,784.58	5,698.72	85.86	67.369		
13,200.00	6,959.48	6,613.00	6,528.88	205.18	34.90	-66.94	-936.49	260.42	5,882.21	5,796.32	85.89	68.485		
13,300.00	6,958.25	6,613.00	6,528.88	208.45	34.90	-66.94	-936.49	260.42	5,979.92	5,894.00	85.92	69.600		
13,400.00	6,957.02	6,613.00	6,528.88	211.72	34.90	-66.94	-936.49	260.42	6,077.71	5,991.76	85.95	70.716		
13,500.00	6,955.78	6,613.00	6,528.88	214.99	34.90	-66.94	-936.49	260.42	6,175.56	6,089.58	85.97	71.830		
13,600.00	6,954.55	6,613.00	6,528.88	218.27	34.90	-66.94	-936.49	260.42	6,273.48	6,187.48	86.00	72.945		
13,700.00	6,953.32	6,613.00	6,528.88	221.54	34.90	-66.94	-936.49	260.42	6,371.47	6,285.43	86.03	74.058		
13,800.00	6,952.08	6,613.00	6,528.88	224.82	34.90	-66.94	-936.49	260.42	6,469.51	6,383.45	86.06	75.171		
13,900.00	6,950.85	6,613.00	6,528.88	228.10	34.90	-66.94	-936.49	260.42	6,567.62	6,481.52	86.09	76.284		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 39-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,000.00	6,949.61	6,613.00	6,528.88	231.37	34.90	-66.94	-936.49	260.42	6,665.78	6,579.66	86.13	77.395	
14,100.00	6,948.38	6,613.00	6,528.88	234.65	34.90	-66.94	-936.49	260.42	6,764.00	6,677.84	86.16	78.506	
14,200.00	6,947.15	6,613.00	6,528.88	237.93	34.90	-66.94	-936.49	260.42	6,862.27	6,776.07	86.19	79.615	
14,300.00	6,945.91	6,574.58	6,490.65	241.22	34.80	-65.40	-938.46	257.18	6,959.99	6,873.76	86.23	80.714	
14,400.00	6,944.68	6,573.10	6,489.17	244.50	34.79	-65.34	-938.52	257.08	7,058.30	6,972.04	86.27	81.821	
14,500.00	6,943.45	6,571.65	6,487.73	247.78	34.79	-65.28	-938.59	256.98	7,156.67	7,070.37	86.30	82.927	
14,600.00	6,942.21	6,570.24	6,486.32	251.07	34.79	-65.23	-938.65	256.88	7,255.07	7,168.74	86.34	84.031	
14,700.00	6,940.98	6,568.86	6,484.95	254.35	34.78	-65.17	-938.71	256.79	7,353.52	7,267.15	86.38	85.135	
14,800.00	6,939.74	6,567.52	6,483.61	257.64	34.78	-65.12	-938.77	256.70	7,452.01	7,365.60	86.41	86.237	
14,900.00	6,938.51	6,566.20	6,482.30	260.92	34.78	-65.07	-938.83	256.62	7,550.54	7,464.08	86.45	87.338	
15,000.00	6,937.28	6,564.92	6,481.02	264.21	34.77	-65.02	-938.88	256.53	7,649.10	7,562.61	86.49	88.437	
15,100.00	6,936.04	6,563.67	6,479.77	267.50	34.77	-64.97	-938.93	256.45	7,747.70	7,661.16	86.53	89.535	
15,200.00	6,934.81	6,562.45	6,478.55	270.79	34.77	-64.92	-938.99	256.38	7,846.33	7,759.76	86.57	90.632	
15,300.00	6,933.58	6,561.25	6,477.36	274.08	34.76	-64.87	-939.04	256.30	7,945.00	7,858.38	86.62	91.727	
15,400.00	6,932.34	6,560.08	6,476.20	277.37	34.76	-64.83	-939.08	256.23	8,043.69	7,957.04	86.66	92.821	
15,500.00	6,931.11	6,558.94	6,475.06	280.66	34.76	-64.78	-939.13	256.16	8,142.42	8,055.72	86.70	93.914	
15,589.88	6,930.00	6,557.93	6,474.05	283.62	34.75	-64.74	-939.17	256.10	8,231.19	8,144.45	86.74	94.894	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	88.98	9.12	513.88	514.01					
100.00	100.00	97.11	97.11	3.28	3.30	89.00	8.95	513.14	513.24	506.65	6.58	77.967		
200.00	200.00	197.10	197.09	3.34	3.37	89.05	8.50	512.43	512.51	505.80	6.71	76.400		
300.00	299.98	300.09	300.07	3.44	3.50	15.99	8.32	511.36	509.79	502.85	6.95	73.375		
400.00	399.84	405.16	405.13	3.60	3.69	16.20	8.31	509.37	502.88	495.59	7.30	68.916		
500.00	499.45	500.79	500.74	3.81	3.90	16.51	8.51	507.29	492.36	484.65	7.71	63.859		
600.00	598.70	595.08	595.02	4.08	4.14	17.01	8.17	506.17	479.50	471.31	8.19	58.529		
700.00	697.47	694.18	694.11	4.40	4.42	17.82	7.01	505.49	463.89	455.14	8.75	53.004		
774.77	770.92	771.02	770.92	4.68	4.65	18.70	5.33	504.58	449.78	440.56	9.22	48.790		
800.00	795.65	796.89	796.78	4.78	4.73	19.01	4.65	504.13	444.59	435.21	9.38	47.380		
900.00	893.64	888.77	888.64	5.20	5.02	20.09	2.80	503.02	424.67	414.66	10.01	42.409		
1,000.00	991.63	982.49	982.34	5.66	5.33	21.13	1.98	503.02	406.02	395.34	10.68	38.011		
1,100.00	1,089.63	1,078.18	1,078.04	6.15	5.64	22.17	1.86	503.86	388.31	376.93	11.38	34.125		
1,200.00	1,187.62	1,173.81	1,173.65	6.65	5.97	23.26	1.92	505.33	371.38	359.28	12.11	30.679		
1,300.00	1,285.62	1,274.08	1,273.91	7.17	6.32	24.48	2.21	507.02	354.72	341.85	12.87	27.559		
1,400.00	1,383.61	1,374.13	1,373.95	7.71	6.67	25.72	3.14	508.20	337.64	323.98	13.66	24.719		
1,500.00	1,481.60	1,474.53	1,474.34	8.25	7.04	27.05	4.45	508.88	320.16	305.70	14.47	22.127		
1,600.00	1,579.60	1,572.94	1,572.73	8.80	7.41	28.43	6.14	509.16	302.42	287.12	15.30	19.769		
1,700.00	1,677.59	1,671.86	1,671.64	9.36	7.79	29.99	7.92	509.35	284.76	268.61	16.15	17.634		
1,800.00	1,775.59	1,770.86	1,770.62	9.92	8.18	31.75	9.81	509.22	267.00	249.98	17.02	15.687		
1,900.00	1,873.58	1,868.29	1,868.03	10.49	8.56	33.72	11.67	509.07	249.48	231.56	17.92	13.924		
2,000.00	1,971.57	1,968.67	1,968.39	11.06	8.96	36.00	13.88	508.78	232.09	213.26	18.84	12.322		
2,100.00	2,069.57	2,078.10	2,077.60	11.64	9.40	38.33	19.60	505.65	211.68	191.95	19.72	10.732		
2,200.00	2,167.56	2,181.83	2,180.81	12.22	9.82	41.07	26.87	498.25	187.08	166.46	20.62	9.074		
2,300.00	2,265.56	2,278.67	2,276.99	12.80	10.23	45.47	31.96	488.27	160.97	139.32	21.65	7.436		
2,400.00	2,363.55	2,372.55	2,370.32	13.38	10.63	51.63	35.76	478.85	136.94	114.10	22.83	5.997		
2,500.00	2,461.54	2,467.48	2,464.80	13.97	11.04	59.89	39.52	470.44	116.05	91.92	24.13	4.809		
2,600.00	2,559.54	2,563.45	2,560.40	14.55	11.45	70.91	43.31	462.90	99.22	73.70	25.52	3.889		
2,700.00	2,657.53	2,659.75	2,656.30	15.14	11.87	85.60	47.10	455.02	87.39	60.51	26.88	3.251		
2,800.00	2,755.53	2,756.66	2,752.80	15.73	12.29	103.34	50.71	446.83	83.25	55.35	27.90	2.984		
2,807.95	2,763.32	2,764.48	2,760.57	15.78	12.33	104.85	51.07	446.10	83.23	55.27	27.96	2.977 CC, ES		
2,900.00	2,853.52	2,853.22	2,848.72	16.32	12.72	122.12	55.97	437.12	86.68	58.34	28.34	3.058		
3,000.00	2,951.52	2,949.67	2,944.55	16.91	13.15	137.97	61.07	427.47	98.90	70.42	28.48	3.472		
3,100.00	3,049.51	3,046.72	3,040.94	17.51	13.59	150.15	67.74	418.43	115.52	86.81	28.71	4.023		
3,200.00	3,147.50	3,142.25	3,135.92	18.10	14.03	158.61	73.67	410.06	135.96	106.84	29.13	4.668		
3,300.00	3,245.50	3,239.71	3,232.87	18.70	14.47	164.75	79.24	401.73	158.66	128.92	29.75	5.334		
3,400.00	3,343.49	3,338.13	3,330.79	19.29	14.91	169.51	85.91	394.46	181.19	150.70	30.49	5.943		
3,500.00	3,441.49	3,435.05	3,427.27	19.89	15.35	173.06	92.42	387.84	204.14	172.88	31.25	6.531		
3,600.00	3,539.48	3,532.06	3,523.86	20.48	15.79	175.80	98.62	381.45	227.59	195.52	32.07	7.097		
3,700.00	3,637.47	3,629.18	3,620.61	21.08	16.23	177.94	104.55	375.35	251.24	218.34	32.91	7.635		
3,800.00	3,735.47	3,726.19	3,717.25	21.68	16.67	179.72	110.50	369.34	275.08	241.32	33.76	8.148		
3,900.00	3,833.46	3,822.77	3,813.69	22.27	17.09	-179.58	112.64	364.48	299.09	264.48	34.61	8.641		
4,000.00	3,931.46	3,919.24	3,910.00	22.87	17.52	-179.02	114.51	359.55	323.28	287.81	35.47	9.115		
4,100.00	4,029.45	4,031.19	4,021.84	23.47	18.00	-178.52	116.84	355.42	346.23	309.68	36.55	9.474		
4,200.00	4,127.44	4,131.36	4,122.01	24.07	18.41	-178.53	117.40	355.81	365.64	328.20	37.43	9.768		
4,300.00	4,225.44	4,227.60	4,218.24	24.67	18.79	-178.85	115.91	356.42	385.37	347.11	38.26	10.073		
4,400.00	4,323.43	4,323.91	4,314.53	25.27	19.17	-179.14	114.24	356.63	405.55	366.46	39.09	10.375		
4,507.81	4,429.08	4,444.88	4,435.47	25.92	19.65	-179.40	113.17	358.45	425.79	385.63	40.16	10.601		
4,600.00	4,519.70	4,531.96	4,522.53	26.45	20.00	-179.45	113.52	360.44	440.60	399.68	40.92	10.767		
4,700.00	4,618.56	4,629.50	4,620.04	26.98	20.40	-179.36	114.92	362.11	453.61	411.85	41.76	10.863		
4,800.00	4,717.88	4,727.58	4,718.09	27.46	20.81	-179.15	117.16	363.21	463.49	420.89	42.60	10.880		
4,900.00	4,817.54	4,826.12	4,816.59	27.89	21.22	-178.89	119.72	363.93	470.19	426.75	43.43	10.825		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,922.87	4,913.33	28.28	21.63	-178.71	121.56	364.55	473.69	429.45	44.24	10.707		
5,082.58	5,000.00	4,997.04	4,987.49	28.57	21.94	-105.54	121.75	364.28	475.11	430.29	44.82	10.601		
5,100.00	5,017.42	5,013.97	5,004.42	28.62	22.01	-105.54	121.66	364.09	475.32	430.37	44.95	10.573		
5,200.00	5,117.42	5,112.12	5,102.56	28.95	22.42	-105.51	121.54	362.60	476.82	431.07	45.74	10.423		
5,300.00	5,217.42	5,211.79	5,202.21	29.28	22.85	-105.40	121.94	360.78	478.47	431.91	46.56	10.276		
5,400.00	5,317.42	5,311.21	5,301.60	29.62	23.28	-105.27	122.55	358.71	480.32	432.94	47.38	10.139		
5,500.00	5,417.42	5,412.81	5,403.18	29.96	23.71	-105.11	123.42	356.74	481.97	433.75	48.22	9.995		
5,600.00	5,517.42	5,514.23	5,504.59	30.29	24.13	-105.19	122.33	355.59	483.34	434.29	49.05	9.853		
5,700.00	5,617.42	5,615.52	5,605.87	30.64	24.56	-105.28	121.37	354.75	484.38	434.50	49.89	9.710		
5,800.00	5,717.42	5,715.15	5,705.50	30.98	24.98	-105.26	121.25	353.83	485.31	434.60	50.71	9.571		
5,900.00	5,817.42	5,819.86	5,810.20	31.33	25.42	-105.18	121.74	352.84	486.12	434.53	51.59	9.423		
6,000.00	5,917.42	5,923.05	5,913.38	31.68	25.85	-105.18	121.86	353.32	485.63	433.19	52.44	9.260		
6,100.00	6,017.42	6,021.56	6,011.89	32.03	26.26	-105.05	123.03	353.52	485.12	431.87	53.25	9.110		
6,200.00	6,117.42	6,122.97	6,113.29	32.38	26.69	-104.89	124.42	353.53	484.76	430.67	54.09	8.961		
6,300.00	6,217.42	6,220.55	6,210.87	32.74	27.10	-104.80	125.32	353.72	484.34	429.44	54.90	8.823		
6,400.00	6,317.42	6,473.05	6,458.61	33.09	28.08	-105.86	126.97	392.52	470.43	415.84	54.58	8.619		
6,476.01	6,393.43	6,623.27	6,596.42	33.37	28.62	-108.04	128.42	451.69	442.45	390.27	52.19	8.479		
6,500.00	6,417.42	6,641.59	6,612.50	33.45	28.69	-16.42	128.71	460.47	430.90	378.41	52.49	8.209		
6,550.00	6,467.25	6,688.47	6,653.22	33.59	28.87	-18.75	128.53	483.70	404.06	351.45	52.61	7.680		
6,600.00	6,516.64	6,753.32	6,708.03	33.71	29.16	-23.57	126.39	518.26	373.32	321.83	51.48	7.251		
6,650.00	6,565.26	6,817.70	6,758.73	33.80	29.46	-32.15	123.60	557.79	336.99	287.24	49.75	6.774		
6,700.00	6,612.83	6,850.59	6,783.43	33.88	29.67	-40.98	122.14	579.45	297.79	247.72	50.07	5.947		
6,750.00	6,659.04	6,878.25	6,803.62	33.94	29.82	-52.31	120.92	598.32	257.34	206.58	50.77	5.069		
6,800.00	6,703.62	6,898.36	6,817.96	33.99	29.94	-64.30	120.04	612.39	217.16	164.77	52.39	4.145		
6,850.00	6,746.28	6,913.86	6,828.79	34.03	30.05	-75.65	119.41	623.47	179.28	124.24	55.04	3.257		
6,900.00	6,786.76	6,922.02	6,834.38	34.08	30.11	-83.10	119.12	629.41	147.15	87.96	59.19	2.486		
6,950.00	6,824.83	6,924.51	6,836.06	34.13	30.13	-86.33	119.04	631.23	126.46	63.24	63.22	2.000		
6,982.43	6,848.10	6,923.72	6,835.53	34.18	30.12	-86.34	119.06	630.65	122.29	58.37	63.91	1.913 SF		
7,000.00	6,860.23	6,922.63	6,834.79	34.20	30.11	-85.72	119.10	629.85	123.52	60.22	63.30	1.951		
7,050.00	6,892.75	6,917.36	6,831.19	34.30	30.07	-81.76	119.29	626.00	139.35	80.36	58.99	2.362		
7,100.00	6,922.20	6,909.39	6,825.69	34.43	30.02	-75.00	119.59	620.25	168.33	114.04	54.29	3.100		
7,150.00	6,948.38	6,899.27	6,818.61	34.60	29.94	-66.31	120.00	613.03	204.46	153.28	51.18	3.995		
7,200.00	6,971.15	6,886.64	6,809.64	34.82	29.87	-56.60	120.55	604.16	244.02	194.61	49.42	4.938		
7,250.00	6,990.35	6,872.02	6,799.11	35.09	29.79	-47.28	121.19	594.02	284.98	236.42	48.56	5.868		
7,300.00	7,005.87	6,855.65	6,787.17	35.43	29.69	-39.16	121.91	582.87	326.21	277.92	48.29	6.756		
7,350.00	7,017.62	6,837.77	6,773.91	35.81	29.59	-32.52	122.71	570.90	367.03	318.66	48.36	7.589		
7,400.00	7,025.52	6,818.56	6,759.42	36.26	29.48	-27.25	123.58	558.31	407.00	358.35	48.65	8.367		
7,450.00	7,029.52	6,804.00	6,748.29	36.75	29.40	-23.56	124.24	548.95	445.86	396.34	49.52	9.004		
7,483.86	7,030.00	6,787.15	6,735.18	37.12	29.32	-21.03	124.99	538.39	471.42	421.75	49.67	9.492		
7,500.00	7,029.80	6,781.46	6,730.69	37.30	29.29	-20.68	125.24	534.90	483.54	433.62	49.92	9.686		
7,600.00	7,028.57	6,748.89	6,704.39	38.58	29.14	-18.80	126.56	515.74	561.09	509.70	51.39	10.918		
7,700.00	7,027.34	6,709.00	6,670.88	40.10	28.96	-16.81	127.99	494.17	642.33	590.23	52.10	12.329		
7,800.00	7,026.10	6,688.43	6,653.19	41.83	28.87	-15.93	128.54	483.68	725.77	672.37	53.40	13.592		
7,900.00	7,024.87	6,652.97	6,622.43	43.74	28.73	-14.65	128.80	466.03	810.88	757.01	53.87	15.052		
8,000.00	7,023.63	6,614.00	6,588.29	45.82	28.58	-13.55	128.12	447.26	897.17	843.02	54.15	16.568		
8,100.00	7,022.40	6,614.00	6,588.29	48.04	28.58	-13.55	128.12	447.26	984.93	929.59	55.34	17.799		
8,200.00	7,021.17	6,578.46	6,556.58	50.38	28.45	-12.69	127.25	431.24	1,073.36	1,017.85	55.51	19.337		
8,300.00	7,019.93	6,561.75	6,541.40	52.82	28.39	-12.31	127.00	424.27	1,163.29	1,107.29	56.01	20.771		
8,400.00	7,018.70	6,546.63	6,527.52	55.35	28.34	-11.96	126.86	418.27	1,254.22	1,197.79	56.44	22.224		
8,500.00	7,017.47	6,519.00	6,501.84	57.97	28.24	-11.36	126.81	408.09	1,346.22	1,289.61	56.61	23.782		
8,600.00	7,016.23	6,519.00	6,501.84	60.65	28.24	-11.36	126.81	408.09	1,438.55	1,381.43	57.12	25.185		
8,700.00	7,015.00	6,501.32	6,485.25	63.39	28.18	-10.99	126.86	401.97	1,531.66	1,474.33	57.34	26.714		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	6,482.42	6,467.46	66.19	28.11	-10.62	126.93	395.61	1,625.17	1,567.66	57.51	28.259		
8,900.00	7,012.53	6,464.51	6,450.53	69.03	28.05	-10.28	127.00	389.75	1,719.04	1,661.37	57.67	29.807		
9,000.00	7,011.30	6,447.52	6,434.42	71.91	27.99	-9.98	127.07	384.33	1,813.25	1,755.43	57.83	31.357		
9,100.00	7,010.06	6,424.00	6,412.05	74.83	27.90	-9.59	127.18	377.08	1,907.79	1,849.89	57.91	32.945		
9,200.00	7,008.83	6,424.00	6,412.05	77.78	27.90	-9.59	127.18	377.08	2,002.60	1,944.43	58.16	34.431		
9,300.00	7,007.60	6,424.00	6,412.05	80.76	27.90	-9.59	127.18	377.08	2,097.88	2,039.50	58.38	35.932		
9,400.00	7,006.36	6,424.00	6,412.05	83.76	27.90	-9.59	127.18	377.08	2,193.58	2,135.00	58.58	37.447		
9,500.00	7,005.13	6,424.00	6,412.05	86.79	27.90	-9.59	127.18	377.08	2,289.65	2,230.90	58.75	38.972		
9,600.00	7,003.90	6,424.00	6,412.05	89.84	27.90	-9.59	127.18	377.08	2,386.05	2,327.14	58.91	40.506		
9,700.00	7,002.66	6,424.00	6,412.05	92.90	27.90	-9.59	127.18	377.08	2,482.73	2,423.68	59.04	42.049		
9,800.00	7,001.43	6,424.00	6,412.05	95.99	27.90	-9.59	127.18	377.08	2,579.66	2,520.49	59.17	43.598		
9,900.00	7,000.19	6,424.00	6,412.05	99.08	27.90	-9.59	127.18	377.08	2,676.82	2,617.53	59.28	45.152		
10,000.00	6,998.96	6,424.00	6,412.05	102.19	27.90	-9.59	127.18	377.08	2,774.18	2,714.79	59.39	46.711		
10,100.00	6,997.73	6,383.24	6,372.70	105.32	27.75	-8.98	127.24	366.53	2,869.60	2,810.26	59.34	48.358		
10,200.00	6,996.49	6,380.23	6,369.76	108.45	27.74	-8.94	127.23	365.89	2,966.99	2,907.56	59.43	49.922		
10,300.00	6,995.26	6,377.39	6,366.97	111.60	27.73	-8.90	127.23	365.30	3,064.53	3,005.01	59.52	51.489		
10,400.00	6,994.03	6,374.70	6,364.34	114.75	27.72	-8.86	127.22	364.76	3,162.20	3,102.60	59.60	53.057		
10,500.00	6,992.79	6,372.15	6,361.84	117.92	27.71	-8.83	127.21	364.27	3,260.00	3,200.32	59.68	54.625		
10,600.00	6,991.56	6,329.00	6,319.16	121.09	27.55	-8.31	126.92	358.04	3,359.99	3,300.35	59.64	56.334		
10,700.00	6,990.33	6,329.00	6,319.16	124.27	27.55	-8.31	126.92	358.04	3,457.77	3,398.05	59.73	57.891		
10,800.00	6,989.09	6,329.00	6,319.16	127.46	27.55	-8.31	126.92	358.04	3,555.68	3,495.87	59.81	59.449		
10,900.00	6,987.86	6,329.00	6,319.16	130.65	27.55	-8.31	126.92	358.04	3,653.70	3,593.81	59.89	61.007		
11,000.00	6,986.62	6,329.00	6,319.16	133.85	27.55	-8.31	126.92	358.04	3,751.83	3,691.86	59.97	62.567		
11,100.00	6,985.39	6,329.00	6,319.16	137.06	27.55	-8.31	126.92	358.04	3,850.05	3,790.01	60.04	64.126		
11,200.00	6,984.16	6,329.00	6,319.16	140.27	27.55	-8.31	126.92	358.04	3,948.36	3,888.25	60.11	65.685		
11,300.00	6,982.92	6,329.00	6,319.16	143.48	27.55	-8.31	126.92	358.04	4,046.76	3,986.58	60.18	67.244		
11,400.00	6,981.69	6,329.00	6,319.16	146.70	27.55	-8.31	126.92	358.04	4,145.23	4,084.98	60.25	68.801		
11,500.00	6,980.46	6,329.00	6,319.16	149.92	27.55	-8.31	126.92	358.04	4,243.77	4,183.45	60.32	70.358		
11,600.00	6,979.22	6,329.00	6,319.16	153.15	27.55	-8.31	126.92	358.04	4,342.38	4,282.00	60.38	71.914		
11,700.00	6,977.99	6,329.00	6,319.16	156.38	27.55	-8.31	126.92	358.04	4,441.05	4,380.60	60.45	73.468		
11,800.00	6,976.75	6,329.00	6,319.16	159.62	27.55	-8.31	126.92	358.04	4,539.78	4,479.27	60.51	75.020		
11,900.00	6,975.52	6,329.00	6,319.16	162.86	27.55	-8.31	126.92	358.04	4,638.57	4,577.99	60.58	76.571		
12,000.00	6,974.29	6,329.00	6,319.16	166.10	27.55	-8.31	126.92	358.04	4,737.40	4,676.76	60.64	78.119		
12,100.00	6,973.05	6,329.00	6,319.16	169.34	27.55	-8.31	126.92	358.04	4,836.28	4,775.58	60.71	79.665		
12,200.00	6,971.82	6,329.00	6,319.16	172.59	27.55	-8.31	126.92	358.04	4,935.21	4,874.44	60.77	81.209		
12,300.00	6,970.59	6,329.00	6,319.16	175.84	27.55	-8.31	126.92	358.04	5,034.18	4,973.35	60.84	82.751		
12,400.00	6,969.35	6,329.00	6,319.16	179.09	27.55	-8.31	126.92	358.04	5,133.19	5,072.29	60.90	84.289		
12,500.00	6,968.12	6,329.00	6,319.16	182.35	27.55	-8.31	126.92	358.04	5,232.24	5,171.28	60.96	85.825		
12,600.00	6,966.89	6,329.00	6,319.16	185.60	27.55	-8.31	126.92	358.04	5,331.32	5,270.30	61.03	87.359		
12,700.00	6,965.65	6,329.00	6,319.16	188.86	27.55	-8.31	126.92	358.04	5,430.44	5,369.35	61.09	88.889		
12,800.00	6,964.42	6,329.00	6,319.16	192.12	27.55	-8.31	126.92	358.04	5,529.59	5,468.43	61.16	90.416		
12,900.00	6,963.18	6,329.00	6,319.16	195.38	27.55	-8.31	126.92	358.04	5,628.77	5,567.55	61.22	91.939		
13,000.00	6,961.95	6,329.00	6,319.16	198.65	27.55	-8.31	126.92	358.04	5,727.98	5,666.69	61.29	93.460		
13,100.00	6,960.72	6,329.00	6,319.16	201.91	27.55	-8.31	126.92	358.04	5,827.21	5,765.86	61.35	94.976		
13,200.00	6,959.48	6,329.00	6,319.16	205.18	27.55	-8.31	126.92	358.04	5,926.47	5,865.05	61.42	96.490		
13,300.00	6,958.25	6,329.00	6,319.16	208.45	27.55	-8.31	126.92	358.04	6,025.76	5,964.27	61.49	97.999		
13,400.00	6,957.02	6,329.00	6,319.16	211.72	27.55	-8.31	126.92	358.04	6,125.06	6,063.51	61.56	99.505		
13,500.00	6,955.78	6,329.00	6,319.16	214.99	27.55	-8.31	126.92	358.04	6,224.39	6,162.77	61.62	101.008		
13,600.00	6,954.55	6,329.00	6,319.16	218.27	27.55	-8.31	126.92	358.04	6,323.75	6,262.05	61.69	102.506		
13,700.00	6,953.32	6,329.00	6,319.16	221.54	27.55	-8.31	126.92	358.04	6,423.12	6,361.36	61.76	104.000		
13,800.00	6,952.08	6,329.00	6,319.16	224.82	27.55	-8.31	126.92	358.04	6,522.51	6,460.68	61.83	105.490		
13,900.00	6,950.85	6,329.00	6,319.16	228.10	27.55	-8.31	126.92	358.04	6,621.92	6,560.02	61.90	106.977		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 39-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,000.00	6,949.61	6,329.00	6,319.16	231.37	27.55	-8.31	126.92	358.04	6,721.34	6,659.37	61.97	108.459	
14,100.00	6,948.38	6,329.00	6,319.16	234.65	27.55	-8.31	126.92	358.04	6,820.79	6,758.74	62.04	109.937	
14,200.00	6,947.15	6,329.00	6,319.16	237.93	27.55	-8.31	126.92	358.04	6,920.25	6,858.13	62.12	111.410	
14,300.00	6,945.91	6,329.00	6,319.16	241.22	27.55	-8.31	126.92	358.04	7,019.72	6,957.53	62.19	112.879	
14,400.00	6,944.68	6,329.00	6,319.16	244.50	27.55	-8.31	126.92	358.04	7,119.21	7,056.95	62.26	114.344	
14,500.00	6,943.45	6,329.00	6,319.16	247.78	27.55	-8.31	126.92	358.04	7,218.71	7,156.38	62.34	115.804	
14,600.00	6,942.21	6,329.00	6,319.16	251.07	27.55	-8.31	126.92	358.04	7,318.23	7,255.82	62.41	117.260	
14,700.00	6,940.98	6,329.00	6,319.16	254.35	27.55	-8.31	126.92	358.04	7,417.76	7,355.28	62.49	118.711	
14,800.00	6,939.74	6,329.00	6,319.16	257.64	27.55	-8.31	126.92	358.04	7,517.30	7,454.74	62.56	120.158	
14,900.00	6,938.51	6,329.00	6,319.16	260.92	27.55	-8.31	126.92	358.04	7,616.86	7,554.22	62.64	121.600	
15,000.00	6,937.28	6,329.00	6,319.16	264.21	27.55	-8.31	126.92	358.04	7,716.42	7,653.71	62.72	123.037	
15,100.00	6,936.04	6,329.00	6,319.16	267.50	27.55	-8.31	126.92	358.04	7,816.00	7,753.21	62.79	124.470	
15,200.00	6,934.81	6,329.00	6,319.16	270.79	27.55	-8.31	126.92	358.04	7,915.59	7,852.72	62.87	125.898	
15,300.00	6,933.58	6,329.00	6,319.16	274.08	27.55	-8.31	126.92	358.04	8,015.19	7,952.23	62.95	127.321	
15,400.00	6,932.34	6,329.00	6,319.16	277.37	27.55	-8.31	126.92	358.04	8,114.79	8,051.76	63.03	128.739	
15,500.00	6,931.11	6,329.00	6,319.16	280.66	27.55	-8.31	126.92	358.04	8,214.41	8,151.30	63.11	130.152	
15,589.88	6,930.00	6,329.00	6,319.16	283.62	27.55	-8.31	126.92	358.04	8,303.96	8,240.77	63.19	131.418	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	0.00	-76.20	226.98	-923.92	4,883.57					
100.00	100.00	0.00	0.00	3.28	0.00	-76.20	226.98	-923.92	4,785.52	4,778.62	6.91	692.718		
200.00	200.00	0.00	0.00	3.34	0.00	-76.20	226.98	-923.92	4,687.56	4,680.78	6.78	690.985		
300.00	299.98	0.00	0.00	3.44	0.00	-153.58	226.98	-923.92	4,590.02	4,583.36	6.66	689.350		
400.00	399.84	0.00	0.00	3.60	0.00	-156.76	226.98	-923.92	4,493.34	4,486.81	6.53	687.892		
500.00	499.45	0.00	0.00	3.81	0.00	-159.22	226.98	-923.92	4,397.71	4,391.30	6.41	686.174		
600.00	598.70	0.00	0.00	4.08	0.00	-161.16	226.98	-923.92	4,303.32	4,297.03	6.29	684.014		
700.00	697.47	0.00	0.00	4.40	0.00	-162.72	226.98	-923.92	4,210.36	4,204.18	6.18	681.154		
774.77	770.92	0.00	0.00	4.68	0.00	-163.70	226.98	-923.92	4,141.92	4,135.82	6.10	678.564		
800.00	795.65	0.00	0.00	4.78	0.00	-163.70	226.98	-923.92	4,119.01	4,112.93	6.08	677.680		
900.00	893.64	0.00	0.00	5.20	0.00	-163.70	226.98	-923.92	4,028.46	4,022.45	6.01	670.556		
1,000.00	991.63	0.00	0.00	5.66	0.00	-163.70	226.98	-923.92	3,938.37	3,932.42	5.95	661.710		
1,100.00	1,089.63	0.00	0.00	6.15	0.00	-163.70	226.98	-923.92	3,848.77	3,842.85	5.91	650.958		
1,200.00	1,187.62	0.00	0.00	6.65	0.00	-163.70	226.98	-923.92	3,759.69	3,753.80	5.89	638.139		
1,300.00	1,285.62	0.00	0.00	7.17	0.00	-163.70	226.98	-923.92	3,671.18	3,665.29	5.89	623.136		
1,400.00	1,383.61	0.00	0.00	7.71	0.00	-163.70	226.98	-923.92	3,583.27	3,577.35	5.91	605.893		
1,500.00	1,481.60	0.00	0.00	8.25	0.00	-163.70	226.98	-923.92	3,496.01	3,490.05	5.96	586.426		
1,600.00	1,579.60	0.00	0.00	8.80	0.00	-163.70	226.98	-923.92	3,409.45	3,403.41	6.04	564.842		
1,700.00	1,677.59	0.00	0.00	9.36	0.00	-163.70	226.98	-923.92	3,323.64	3,317.50	6.14	541.333		
1,800.00	1,775.59	0.00	0.00	9.92	0.00	-163.70	226.98	-923.92	3,238.65	3,232.38	6.27	516.180		
1,900.00	1,873.58	0.00	0.00	10.49	0.00	-163.70	226.98	-923.92	3,154.54	3,148.10	6.44	489.729		
2,000.00	1,971.57	0.00	0.00	11.06	0.00	-163.70	226.98	-923.92	3,071.38	3,064.74	6.64	462.379		
2,100.00	2,069.57	0.00	0.00	11.64	0.00	-163.70	226.98	-923.92	2,989.26	2,982.38	6.88	434.546		
2,200.00	2,167.56	0.00	0.00	12.22	0.00	-163.70	226.98	-923.92	2,908.25	2,901.10	7.15	406.646		
2,300.00	2,265.56	0.00	0.00	12.80	0.00	-163.70	226.98	-923.92	2,828.46	2,821.00	7.46	379.064		
2,400.00	2,363.55	0.00	0.00	13.38	0.00	-163.70	226.98	-923.92	2,749.99	2,742.18	7.81	352.142		
2,500.00	2,461.54	0.00	0.00	13.97	0.00	-163.70	226.98	-923.92	2,672.96	2,664.77	8.20	326.165		
2,600.00	2,559.54	0.00	0.00	14.55	0.00	-163.70	226.98	-923.92	2,597.50	2,588.88	8.62	301.356		
2,700.00	2,657.53	0.00	0.00	15.14	0.00	-163.70	226.98	-923.92	2,523.74	2,514.66	9.08	277.880		
2,800.00	2,755.53	0.00	0.00	15.73	0.00	-163.70	226.98	-923.92	2,451.84	2,442.26	9.58	255.847		
2,900.00	2,853.52	0.00	0.00	16.32	0.00	-163.70	226.98	-923.92	2,381.97	2,371.85	10.12	235.318		
3,000.00	2,951.52	0.00	0.00	16.91	0.00	-163.70	226.98	-923.92	2,314.32	2,303.62	10.70	216.317		
3,100.00	3,049.51	0.00	0.00	17.51	0.00	-163.70	226.98	-923.92	2,249.07	2,237.76	11.31	198.836		
3,200.00	3,147.50	0.00	0.00	18.10	0.00	-163.70	226.98	-923.92	2,186.46	2,174.50	11.96	182.843		
3,300.00	3,245.50	0.00	0.00	18.70	0.00	-163.70	226.98	-923.92	2,126.70	2,114.06	12.64	168.288		
3,400.00	3,343.49	0.00	0.00	19.29	0.00	-163.70	226.98	-923.92	2,070.05	2,056.71	13.35	155.111		
3,500.00	3,441.49	0.00	0.00	19.89	0.00	-163.70	226.98	-923.92	2,016.78	2,002.70	14.08	143.246		
3,600.00	3,539.48	0.00	0.00	20.48	0.00	-163.70	226.98	-923.92	1,967.14	1,952.31	14.83	132.621		
3,700.00	3,637.47	0.00	0.00	21.08	0.00	-163.70	226.98	-923.92	1,921.44	1,905.83	15.60	123.164		
3,800.00	3,735.47	0.00	0.00	21.68	0.00	-163.70	226.98	-923.92	1,879.94	1,863.57	16.38	114.803		
3,900.00	3,833.46	0.00	0.00	22.27	0.00	-163.70	226.98	-923.92	1,842.94	1,825.80	17.15	107.469		
4,000.00	3,931.46	0.00	0.00	22.87	0.00	-163.70	226.98	-923.92	1,810.72	1,792.81	17.91	101.094		
4,100.00	4,029.45	0.00	0.00	23.47	0.00	-163.70	226.98	-923.92	1,783.53	1,764.88	18.65	95.617		
4,200.00	4,127.44	0.00	0.00	24.07	0.00	-163.70	226.98	-923.92	1,761.60	1,742.24	19.36	90.976		
4,300.00	4,225.44	0.00	0.00	24.67	0.00	-163.70	226.98	-923.92	1,745.14	1,725.11	20.03	87.118		
4,400.00	4,323.43	0.00	0.00	25.27	0.00	-163.70	226.98	-923.92	1,734.29	1,713.64	20.65	83.988		
4,507.81	4,429.08	0.00	0.00	25.92	0.00	-163.70	226.98	-923.92	1,729.02	1,707.77	21.25	81.376		
4,581.14	4,501.11	0.00	0.00	26.34	0.00	-163.70	226.98	-923.92	1,728.36	1,706.76	21.61	79.996		
4,600.00	4,519.70	0.00	0.00	26.45	0.00	-163.70	226.98	-923.92	1,728.41	1,706.71	21.69	79.681		
4,700.00	4,618.56	0.00	0.00	26.98	0.00	-163.71	226.98	-923.92	1,730.08	1,707.99	22.09	78.308		
4,800.00	4,717.88	0.00	0.00	27.46	0.00	-163.73	226.98	-923.92	1,734.18	1,711.77	22.41	77.386		
4,900.00	4,817.54	23.48	23.48	27.89	0.05	-163.78	226.94	-923.94	1,740.50	1,717.76	22.74	76.532		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	112.15	112.15	28.28	0.41	-163.87	226.43	-924.45	1,745.52	1,722.03	23.48	74.330		
5,082.58	5,000.00	186.67	186.66	28.57	0.73	-90.76	225.93	-925.27	1,747.58	1,723.46	24.12	72.460		
5,100.00	5,017.42	202.48	202.47	28.62	0.80	-90.76	225.80	-925.49	1,747.82	1,723.57	24.25	72.074		
5,200.00	5,117.42	297.36	297.33	28.95	1.22	-90.79	224.89	-927.01	1,749.44	1,724.40	25.04	69.867		
5,300.00	5,217.42	398.54	398.49	29.28	1.67	-90.83	223.77	-928.74	1,751.16	1,725.29	25.87	67.682		
5,400.00	5,317.42	495.16	495.07	29.62	2.10	-90.90	221.47	-930.35	1,752.86	1,726.18	26.68	65.706		
5,500.00	5,417.42	603.25	603.07	29.96	2.58	-91.03	217.44	-932.12	1,754.58	1,727.02	27.56	63.665		
5,600.00	5,517.42	700.60	700.28	30.29	3.01	-91.19	212.40	-933.41	1,756.00	1,727.63	28.37	61.892		
5,700.00	5,617.42	793.13	792.58	30.64	3.43	-91.40	206.10	-934.89	1,757.76	1,728.60	29.16	60.284		
5,800.00	5,717.42	884.15	883.28	30.98	3.85	-91.64	198.73	-936.72	1,760.00	1,730.06	29.94	58.787		
5,900.00	5,817.42	963.96	962.76	31.33	4.22	-91.86	191.75	-938.92	1,763.04	1,732.39	30.64	57.531		
6,000.00	5,917.42	1,044.29	1,042.69	31.68	4.61	-92.10	184.38	-942.08	1,767.29	1,735.94	31.36	56.363		
6,100.00	6,017.42	1,132.92	1,130.82	32.03	5.03	-92.36	176.08	-946.38	1,772.52	1,740.39	32.13	55.169		
6,200.00	6,117.42	1,224.92	1,222.31	32.38	5.47	-92.63	167.63	-951.17	1,778.14	1,745.21	32.93	54.000		
6,300.00	6,217.42	1,316.73	1,313.65	32.74	5.91	-92.86	160.08	-956.52	1,784.37	1,750.65	33.73	52.905		
6,400.00	6,317.42	1,423.79	1,420.20	33.09	6.43	-93.13	151.53	-962.54	1,790.42	1,755.77	34.65	51.677		
6,476.01	6,393.43	1,494.81	1,490.78	33.37	6.78	-93.33	144.82	-966.54	1,795.11	1,759.85	35.27	50.900		
6,500.00	6,417.42	1,526.64	1,522.39	33.45	6.93	-1.10	141.44	-968.27	1,796.12	1,760.58	35.54	50.544		
6,550.00	6,467.25	1,593.91	1,589.12	33.59	7.27	-1.35	133.59	-971.39	1,794.97	1,758.89	36.09	49.741		
6,600.00	6,516.64	1,666.28	1,660.73	33.71	7.64	-1.70	123.40	-973.79	1,789.36	1,752.69	36.67	48.796		
6,650.00	6,565.26	1,736.43	1,729.98	33.80	8.00	-2.11	112.24	-975.13	1,779.29	1,742.07	37.23	47.795		
6,700.00	6,612.83	1,806.74	1,799.41	33.88	8.36	-2.56	101.20	-975.62	1,764.87	1,727.10	37.77	46.726		
6,750.00	6,659.04	1,876.77	1,868.65	33.94	8.72	-3.07	90.77	-975.19	1,746.15	1,707.85	38.29	45.598		
6,800.00	6,703.62	1,902.15	1,893.75	33.99	8.85	-3.35	87.02	-975.08	1,723.90	1,685.40	38.49	44.783		
6,850.00	6,746.28	1,932.22	1,923.49	34.03	9.01	-3.73	82.53	-975.11	1,698.55	1,659.83	38.71	43.874		
6,900.00	6,786.76	1,960.00	1,950.95	34.08	9.15	-4.16	78.32	-975.34	1,670.22	1,631.31	38.90	42.931		
6,950.00	6,824.83	1,992.27	1,982.83	34.13	9.32	-4.72	73.36	-975.77	1,639.00	1,599.88	39.12	41.895		
7,000.00	6,860.23	2,021.47	2,011.68	34.20	9.47	-5.39	68.83	-976.28	1,605.01	1,565.70	39.31	40.831		
7,050.00	6,892.75	2,048.62	2,038.48	34.30	9.62	-6.21	64.57	-976.85	1,568.43	1,528.95	39.47	39.734		
7,100.00	6,922.20	2,085.49	2,074.89	34.43	9.81	-7.42	58.79	-977.66	1,529.36	1,489.65	39.71	38.511		
7,150.00	6,948.38	2,121.67	2,110.64	34.60	10.00	-9.05	53.27	-978.25	1,487.85	1,447.90	39.95	37.246		
7,200.00	6,971.15	2,152.76	2,141.38	34.82	10.16	-11.21	48.64	-978.58	1,444.21	1,404.06	40.14	35.976		
7,250.00	6,990.35	2,164.79	2,153.28	35.09	10.23	-13.69	46.88	-978.73	1,398.87	1,358.67	40.19	34.804		
7,300.00	7,005.87	2,176.35	2,164.71	35.43	10.29	-17.38	45.19	-978.92	1,352.15	1,311.90	40.24	33.600		
7,350.00	7,017.62	2,185.50	2,173.76	35.81	10.34	-23.16	43.87	-979.09	1,304.30	1,264.02	40.28	32.380		
7,400.00	7,025.52	2,192.11	2,180.31	36.26	10.37	-33.10	42.92	-979.24	1,255.58	1,215.27	40.31	31.148		
7,450.00	7,029.52	2,196.06	2,184.21	36.75	10.39	-51.96	42.35	-979.33	1,206.28	1,165.94	40.33	29.908		
7,483.86	7,030.00	2,197.16	2,185.30	37.12	10.40	-73.16	42.19	-979.36	1,172.69	1,132.35	40.35	29.066		
7,500.00	7,029.80	2,197.38	2,185.52	37.30	10.40	-73.25	42.16	-979.36	1,156.67	1,116.32	40.35	28.664		
7,600.00	7,028.57	2,198.75	2,186.88	38.58	10.40	-73.81	41.97	-979.40	1,057.47	1,017.07	40.40	26.177		
7,700.00	7,027.34	2,200.20	2,188.30	40.10	10.41	-74.40	41.76	-979.43	958.42	917.96	40.46	23.686		
7,800.00	7,026.10	2,201.71	2,189.80	41.83	10.42	-75.02	41.54	-979.47	859.60	819.03	40.57	21.187		
7,900.00	7,024.87	2,203.30	2,191.38	43.74	10.43	-75.67	41.32	-979.51	761.08	720.34	40.74	18.681		
8,000.00	7,023.63	2,204.98	2,193.04	45.82	10.44	-76.36	41.08	-979.56	662.99	621.98	41.02	16.164		
8,100.00	7,022.40	2,206.75	2,194.79	48.04	10.45	-77.09	40.83	-979.61	565.57	524.09	41.48	13.633		
8,200.00	7,021.17	2,208.62	2,196.63	50.38	10.46	-77.87	40.56	-979.66	469.23	426.91	42.32	11.088		
8,300.00	7,019.93	2,210.59	2,198.59	52.82	10.47	-78.69	40.28	-979.71	374.81	330.88	43.93	8.533		
8,400.00	7,018.70	2,212.68	2,200.66	55.35	10.48	-79.55	39.98	-979.78	284.20	236.94	47.25	6.014		
8,500.00	7,017.47	2,214.90	2,202.85	57.97	10.49	-80.48	39.67	-979.84	202.60	148.11	54.50	3.718		
8,600.00	7,016.23	2,217.26	2,205.19	60.65	10.50	-81.46	39.34	-979.91	146.00	78.96	67.04	2.178		
8,648.72	7,015.63	2,218.47	2,206.38	61.99	10.51	-81.96	39.17	-979.95	137.64	66.57	71.07	1.937 CC, ES, SF		
8,700.00	7,015.00	2,219.77	2,207.68	63.39	10.51	-82.50	38.98	-979.99	146.88	77.12	69.76	2.105		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 39-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	2,222.46	2,210.33	66.19	10.53	-83.62	38.60	-980.08	204.49	144.62	59.87	3.415		
8,900.00	7,012.53	2,225.33	2,213.17	69.03	10.54	-84.81	38.20	-980.17	286.44	233.69	52.75	5.430		
9,000.00	7,011.30	2,228.40	2,216.21	71.91	10.56	-86.09	37.77	-980.28	377.17	328.29	48.88	7.716		
9,100.00	7,010.06	2,231.71	2,219.48	74.83	10.58	-87.45	37.30	-980.39	471.65	424.95	46.70	10.100		
9,200.00	7,008.83	2,235.27	2,223.01	77.78	10.60	-88.92	36.81	-980.52	568.01	522.64	45.37	12.519		
9,300.00	7,007.60	2,239.12	2,226.82	80.76	10.62	-90.49	36.27	-980.66	665.42	620.91	44.51	14.949		
9,400.00	7,006.36	2,243.30	2,230.95	83.76	10.64	-92.18	35.69	-980.82	763.49	719.55	43.93	17.379		
9,500.00	7,005.13	2,247.84	2,235.45	86.79	10.66	-94.01	35.06	-981.01	861.98	818.46	43.52	19.805		
9,600.00	7,003.90	2,252.80	2,240.36	89.84	10.69	-95.97	34.37	-981.21	960.77	917.54	43.23	22.225		
9,700.00	7,002.66	2,258.24	2,245.74	92.90	10.72	-98.08	33.62	-981.45	1,059.77	1,016.76	43.01	24.638		
9,800.00	7,001.43	2,257.77	2,245.27	95.99	10.71	-97.89	33.66	-981.40	1,158.96	1,116.12	42.84	27.054		
9,900.00	7,000.19	2,261.63	2,249.08	99.08	10.74	-99.37	33.11	-981.56	1,258.25	1,215.53	42.72	29.456		
10,000.00	6,998.96	2,265.58	2,253.00	102.19	10.76	-100.85	32.55	-981.72	1,357.63	1,315.01	42.62	31.851		
10,100.00	6,997.73	2,269.64	2,257.01	105.32	10.78	-102.35	31.97	-981.89	1,457.09	1,414.53	42.56	34.238		
10,200.00	6,996.49	2,273.80	2,261.12	108.45	10.80	-103.86	31.37	-982.07	1,556.61	1,514.10	42.51	36.618		
10,300.00	6,995.26	2,278.07	2,265.34	111.60	10.82	-105.37	30.76	-982.25	1,656.18	1,613.70	42.48	38.989		
10,400.00	6,994.03	2,282.45	2,269.68	114.75	10.85	-106.88	30.12	-982.43	1,755.79	1,713.33	42.46	41.353		
10,500.00	6,992.79	2,286.95	2,274.12	117.92	10.87	-108.40	29.47	-982.63	1,855.43	1,812.98	42.45	43.708		
10,600.00	6,991.56	2,291.58	2,278.69	121.09	10.90	-109.92	28.79	-982.83	1,955.10	1,912.65	42.45	46.054		
10,700.00	6,990.33	2,296.33	2,283.39	124.27	10.92	-111.43	28.09	-983.04	2,054.79	2,012.33	42.46	48.392		
10,800.00	6,989.09	2,301.21	2,288.21	127.46	10.95	-112.94	27.37	-983.26	2,154.50	2,112.02	42.48	50.720		
10,900.00	6,987.86	2,306.24	2,293.18	130.65	10.97	-114.45	26.62	-983.49	2,254.23	2,211.73	42.50	53.039		
11,000.00	6,986.62	2,311.40	2,298.28	133.85	11.00	-115.94	25.85	-983.73	2,353.98	2,311.45	42.53	55.348		
11,100.00	6,985.39	2,316.72	2,303.53	137.06	11.03	-117.42	25.05	-983.97	2,453.73	2,411.17	42.56	57.648		
11,200.00	6,984.16	2,322.20	2,308.94	140.27	11.06	-118.89	24.22	-984.23	2,553.50	2,510.90	42.60	59.937		
11,300.00	6,982.92	2,327.84	2,314.51	143.48	11.09	-120.35	23.37	-984.50	2,653.28	2,610.63	42.65	62.215		
11,400.00	6,981.69	2,333.65	2,320.25	146.70	11.12	-121.79	22.48	-984.78	2,753.06	2,710.36	42.69	64.483		
11,500.00	6,980.46	2,339.65	2,326.16	149.92	11.15	-123.21	21.56	-985.07	2,852.85	2,810.10	42.75	66.740		
11,600.00	6,979.22	2,345.83	2,332.26	153.15	11.18	-124.61	20.60	-985.38	2,952.64	2,909.84	42.80	68.985		
11,700.00	6,977.99	2,352.21	2,338.56	156.38	11.22	-125.99	19.61	-985.69	3,052.44	3,009.58	42.86	71.218		
11,800.00	6,976.75	2,347.57	2,333.98	159.62	11.19	-124.99	20.34	-985.45	3,152.27	3,109.39	42.88	73.518		
11,900.00	6,975.52	2,350.37	2,336.75	162.86	11.21	-125.60	19.91	-985.58	3,252.09	3,209.17	42.93	75.759		
12,000.00	6,974.29	2,353.11	2,339.45	166.10	11.22	-126.18	19.49	-985.71	3,351.93	3,308.95	42.98	77.992		
12,100.00	6,973.05	2,355.80	2,342.11	169.34	11.24	-126.74	19.08	-985.84	3,451.76	3,408.73	43.03	80.216		
12,200.00	6,971.82	2,358.43	2,344.71	172.59	11.25	-127.28	18.67	-985.96	3,551.61	3,508.52	43.09	82.432		
12,300.00	6,970.59	2,361.02	2,347.26	175.84	11.27	-127.80	18.28	-986.08	3,651.46	3,608.31	43.14	84.639		
12,400.00	6,969.35	2,363.55	2,349.76	179.09	11.28	-128.30	17.89	-986.19	3,751.31	3,708.11	43.20	86.838		
12,500.00	6,968.12	2,366.04	2,352.21	182.35	11.29	-128.78	17.51	-986.30	3,851.17	3,807.91	43.26	89.027		
12,600.00	6,966.89	2,368.47	2,354.62	185.60	11.31	-129.24	17.14	-986.41	3,951.03	3,907.72	43.32	91.208		
12,700.00	6,965.65	2,370.87	2,356.98	188.86	11.32	-129.68	16.78	-986.52	4,050.90	4,007.52	43.38	93.380		
12,800.00	6,964.42	2,373.21	2,359.30	192.12	11.33	-130.12	16.42	-986.62	4,150.78	4,107.33	43.44	95.543		
12,900.00	6,963.18	2,375.52	2,361.57	195.38	11.34	-130.53	16.07	-986.72	4,250.65	4,207.14	43.51	97.698		
13,000.00	6,961.95	2,377.78	2,363.81	198.65	11.36	-130.93	15.73	-986.82	4,350.53	4,306.96	43.57	99.842		
13,100.00	6,960.72	2,380.00	2,366.00	201.91	11.37	-131.32	15.39	-986.91	4,450.42	4,406.78	43.64	101.978		
13,200.00	6,959.48	2,382.18	2,368.16	205.18	11.38	-131.70	15.06	-987.00	4,550.30	4,506.60	43.71	104.105		
13,300.00	6,958.25	2,384.33	2,370.27	208.45	11.39	-132.06	14.73	-987.09	4,650.20	4,606.42	43.78	106.222		
13,400.00	6,957.02	2,386.43	2,372.35	211.72	11.40	-132.41	14.41	-987.18	4,750.09	4,706.24	43.85	108.330		
13,500.00	6,955.78	2,388.50	2,374.39	214.99	11.41	-132.75	14.10	-987.27	4,849.99	4,806.07	43.92	110.429		
13,600.00	6,954.55	2,390.53	2,376.40	218.27	11.43	-133.08	13.79	-987.35	4,949.88	4,905.89	43.99	112.518		
13,700.00	6,953.32	2,392.53	2,378.37	221.54	11.44	-133.40	13.49	-987.43	5,049.79	5,005.72	44.07	114.598		
13,800.00	6,952.08	2,394.49	2,380.31	224.82	11.45	-133.71	13.19	-987.51	5,149.69	5,105.55	44.14	116.669		
13,900.00	6,950.85	2,396.42	2,382.22	228.10	11.46	-134.01	12.90	-987.59	5,249.60	5,205.38	44.21	118.729		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 39-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,000.00	6,949.61	2,398.32	2,384.09	231.37	11.47	-134.30	12.62	-987.67	5,349.51	5,305.21	44.29	120.781	
14,100.00	6,948.38	2,400.19	2,385.94	234.65	11.48	-134.58	12.34	-987.74	5,449.42	5,405.05	44.37	122.822	
14,200.00	6,947.15	2,402.02	2,387.75	237.93	11.49	-134.85	12.06	-987.82	5,549.33	5,504.88	44.45	124.854	
14,300.00	6,945.91	2,403.83	2,389.54	241.22	11.50	-135.12	11.79	-987.89	5,649.24	5,604.72	44.53	126.876	
14,400.00	6,944.68	2,405.61	2,391.29	244.50	11.51	-135.38	11.52	-987.96	5,749.16	5,704.56	44.61	128.888	
14,500.00	6,943.45	2,407.36	2,393.02	247.78	11.52	-135.63	11.26	-988.02	5,849.08	5,804.39	44.69	130.891	
14,600.00	6,942.21	2,409.08	2,394.72	251.07	11.53	-135.87	11.00	-988.09	5,949.00	5,904.23	44.77	132.883	
14,700.00	6,940.98	2,410.77	2,396.39	254.35	11.53	-136.11	10.74	-988.15	6,048.92	6,004.07	44.85	134.866	
14,800.00	6,939.74	2,412.44	2,398.04	257.64	11.54	-136.34	10.49	-988.22	6,148.85	6,103.91	44.93	136.839	
14,900.00	6,938.51	2,414.08	2,399.66	260.92	11.55	-136.57	10.25	-988.28	6,248.77	6,203.75	45.02	138.802	
15,000.00	6,937.28	2,432.00	2,417.37	264.21	11.65	-138.88	7.57	-988.93	6,348.74	6,303.56	45.18	140.515	
15,100.00	6,936.04	2,432.00	2,417.37	267.50	11.65	-138.88	7.57	-988.93	6,448.66	6,403.40	45.26	142.479	
15,200.00	6,934.81	2,432.00	2,417.37	270.79	11.65	-138.88	7.57	-988.93	6,548.58	6,503.24	45.34	144.433	
15,300.00	6,933.58	2,432.00	2,417.37	274.08	11.65	-138.88	7.57	-988.93	6,648.51	6,603.09	45.42	146.377	
15,400.00	6,932.34	2,432.00	2,417.37	277.37	11.65	-138.88	7.57	-988.93	6,748.44	6,702.94	45.50	148.311	
15,500.00	6,931.11	2,432.00	2,417.37	280.66	11.65	-138.88	7.57	-988.93	6,848.37	6,802.78	45.58	150.236	
15,589.88	6,930.00	2,432.00	2,417.37	283.62	11.65	-138.88	7.57	-988.93	6,938.19	6,892.53	45.66	151.958	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-74.59	257.22	-933.38	968.88					
100.00	100.00	58.99	58.99	3.28	3.29	-74.59	257.25	-933.46	968.27	961.70	6.57	147.321		
200.00	200.00	150.44	150.44	3.34	3.34	-74.59	257.54	-934.19	969.13	962.45	6.68	145.126		
300.00	299.98	259.92	259.91	3.44	3.46	-147.78	257.58	-935.20	971.50	964.60	6.90	140.727		
400.00	399.84	346.66	346.63	3.60	3.60	-147.96	256.26	-936.54	977.01	969.81	7.20	135.655		
500.00	499.45	432.65	432.52	3.81	3.77	-148.30	253.41	-939.38	986.76	979.18	7.59	130.080		
600.00	598.70	509.48	509.12	4.08	3.95	-148.72	249.29	-943.67	1,001.27	993.24	8.03	124.696		
700.00	697.47	581.55	580.70	4.40	4.15	-149.24	243.70	-949.81	1,021.15	1,012.62	8.53	119.723		
774.77	770.92	637.72	636.24	4.68	4.33	-149.75	238.09	-956.09	1,039.64	1,030.70	8.94	116.237		
800.00	795.65	659.04	657.28	4.78	4.40	-150.02	235.81	-958.64	1,046.38	1,037.28	9.10	115.016		
900.00	893.64	756.96	753.80	5.20	4.76	-151.30	224.63	-970.76	1,073.60	1,063.84	9.76	110.037		
1,000.00	991.63	856.48	851.80	5.66	5.16	-152.61	211.82	-982.44	1,100.46	1,089.98	10.48	105.041		
1,100.00	1,089.63	995.50	988.32	6.15	5.77	-154.52	190.06	-996.89	1,126.44	1,115.02	11.42	98.636		
1,200.00	1,187.62	1,152.78	1,141.86	6.65	6.53	-156.89	157.24	-1,005.31	1,147.32	1,134.78	12.54	91.486		
1,300.00	1,285.62	1,248.16	1,234.31	7.17	7.03	-158.43	133.96	-1,008.25	1,166.76	1,153.34	13.42	86.938		
1,400.00	1,383.61	1,375.48	1,357.24	7.71	7.72	-160.49	100.87	-1,009.53	1,184.80	1,170.29	14.52	81.618		
1,500.00	1,481.60	1,463.34	1,441.86	8.25	8.23	-161.91	77.23	-1,009.96	1,203.43	1,188.02	15.42	78.053		
1,600.00	1,579.60	1,548.99	1,524.46	8.80	8.74	-163.24	54.60	-1,010.65	1,223.22	1,206.90	16.32	74.960		
1,700.00	1,677.59	1,635.84	1,608.39	9.36	9.26	-164.51	32.32	-1,012.13	1,244.58	1,227.35	17.23	72.237		
1,800.00	1,775.59	1,735.38	1,704.94	9.92	9.86	-165.87	8.17	-1,013.58	1,266.38	1,248.16	18.22	69.497		
1,900.00	1,873.58	1,831.02	1,797.79	10.49	10.44	-167.11	-14.75	-1,014.74	1,288.55	1,269.36	19.19	67.137		
2,000.00	1,971.57	1,904.99	1,869.71	11.06	10.88	-168.03	-32.04	-1,015.88	1,311.63	1,291.62	20.01	65.544		
2,100.00	2,069.57	1,971.18	1,934.45	11.64	11.27	-168.73	-45.46	-1,018.74	1,337.34	1,316.58	20.75	64.435		
2,200.00	2,167.56	2,200.00	2,063.84	12.22	12.46	-169.78	-65.24	-1,024.71	1,363.12	1,340.75	22.37	60.935		
2,300.00	2,265.56	2,222.10	2,182.85	12.80	12.54	-170.53	-79.06	-1,026.98	1,385.89	1,363.00	22.89	60.539		
2,400.00	2,363.55	2,335.42	2,295.87	13.38	13.02	-170.99	-86.92	-1,029.03	1,408.26	1,384.44	23.81	59.134		
2,500.00	2,461.54	2,452.00	2,412.35	13.97	13.48	-171.32	-91.36	-1,030.23	1,429.50	1,404.78	24.72	57.819		
2,600.00	2,559.54	2,556.14	2,516.49	14.55	13.86	-171.49	-92.61	-1,030.54	1,449.67	1,424.11	25.56	56.726		
2,700.00	2,657.53	2,669.63	2,629.97	15.14	14.24	-171.61	-92.39	-1,030.56	1,469.39	1,442.99	26.40	55.653		
2,800.00	2,755.53	2,761.82	2,722.15	15.73	14.52	-171.66	-90.78	-1,030.45	1,488.74	1,461.61	27.13	54.872		
2,900.00	2,853.52	2,857.20	2,817.50	16.32	14.82	-171.67	-88.28	-1,030.69	1,508.32	1,480.45	27.88	54.104		
3,000.00	2,951.52	2,951.10	2,911.36	16.91	15.12	-171.67	-85.71	-1,031.08	1,528.05	1,499.43	28.62	53.382		
3,100.00	3,049.51	3,038.28	2,998.51	17.51	15.40	-171.68	-83.50	-1,031.93	1,548.35	1,519.00	29.35	52.757		
3,200.00	3,147.50	3,138.69	3,098.87	18.10	15.73	-171.69	-81.18	-1,033.38	1,569.14	1,539.00	30.14	52.062		
3,300.00	3,245.50	3,244.64	3,204.74	18.70	16.08	-171.65	-77.06	-1,034.16	1,588.97	1,558.02	30.96	51.330		
3,400.00	3,343.49	3,334.39	3,294.42	19.29	16.38	-171.62	-73.69	-1,035.18	1,609.24	1,577.54	31.70	50.762		
3,500.00	3,441.49	3,478.74	3,438.69	19.89	16.87	-171.60	-69.08	-1,035.53	1,628.93	1,596.22	32.71	49.805		
3,600.00	3,539.48	3,555.13	3,515.05	20.48	17.13	-171.61	-66.83	-1,035.09	1,647.57	1,614.16	33.41	49.319		
3,700.00	3,637.47	3,649.31	3,609.19	21.08	17.46	-171.62	-64.31	-1,034.85	1,666.66	1,632.46	34.19	48.745		
3,800.00	3,735.47	3,745.75	3,705.61	21.68	17.80	-171.63	-61.99	-1,034.85	1,686.03	1,651.04	34.99	48.183		
3,900.00	3,833.46	3,863.42	3,823.24	22.27	18.22	-171.66	-59.11	-1,033.89	1,704.56	1,668.66	35.90	47.482		
4,000.00	3,931.46	3,965.82	3,925.60	22.87	18.59	-171.69	-56.71	-1,032.53	1,722.65	1,685.91	36.74	46.893		
4,100.00	4,029.45	4,054.68	4,014.42	23.47	18.91	-171.70	-54.40	-1,031.36	1,740.73	1,703.22	37.51	46.407		
4,200.00	4,127.44	4,140.79	4,100.50	24.07	19.22	-171.70	-51.87	-1,031.00	1,759.61	1,721.34	38.27	45.978		
4,300.00	4,225.44	4,239.98	4,199.63	24.67	19.59	-171.69	-48.68	-1,031.00	1,778.86	1,739.76	39.10	45.495		
4,400.00	4,323.43	4,366.44	4,326.01	25.27	20.05	-171.68	-44.34	-1,029.85	1,797.20	1,757.13	40.07	44.851		
4,507.81	4,429.08	4,461.85	4,421.36	25.92	20.41	-171.68	-41.45	-1,028.43	1,816.42	1,775.51	40.91	44.396		
4,600.00	4,519.70	4,540.55	4,500.04	26.45	20.70	-171.73	-39.36	-1,027.75	1,832.02	1,790.41	41.62	44.021		
4,700.00	4,618.56	4,634.89	4,594.34	26.98	21.06	-171.76	-37.04	-1,027.29	1,846.07	1,803.65	42.42	43.519		
4,800.00	4,717.88	4,721.78	4,681.21	27.46	21.40	-171.79	-35.30	-1,027.25	1,857.19	1,814.02	43.17	43.016		
4,900.00	4,817.54	4,815.43	4,774.85	27.89	21.76	-171.78	-33.36	-1,027.79	1,865.47	1,821.51	43.96	42.437		
5,000.00	4,917.43	4,945.35	4,904.74	28.28	22.27	-171.75	-31.00	-1,027.52	1,869.58	1,824.64	44.94	41.604		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,054.03	5,013.39	28.57	22.69	-98.57	-29.31	-1,025.58	1,869.10	1,823.37	45.73	40.870		
5,100.00	5,017.42	5,076.93	5,036.28	28.62	22.78	-98.56	-28.92	-1,024.98	1,868.61	1,822.71	45.90	40.713		
5,200.00	5,117.42	5,156.20	5,115.53	28.95	23.09	-98.54	-28.02	-1,023.27	1,866.28	1,819.70	46.58	40.066		
5,300.00	5,217.42	5,243.68	5,203.00	29.28	23.44	-98.53	-27.53	-1,021.98	1,864.73	1,817.43	47.31	39.419		
5,384.34	5,301.76	5,305.44	5,264.76	29.57	23.68	-98.52	-27.25	-1,021.63	1,864.22	1,816.37	47.85	38.959		
5,400.00	5,317.42	5,316.88	5,276.19	29.62	23.73	-98.52	-27.20	-1,021.66	1,864.23	1,816.28	47.95	38.877		
5,500.00	5,417.42	5,485.98	5,445.24	29.96	24.41	-98.56	-28.10	-1,019.20	1,863.07	1,813.93	49.13	37.919		
5,600.00	5,517.42	5,588.03	5,547.17	30.29	24.83	-98.66	-30.78	-1,014.85	1,859.23	1,809.27	49.96	37.217		
5,700.00	5,617.42	5,660.48	5,619.57	30.64	25.13	-98.70	-31.86	-1,012.52	1,856.31	1,805.68	50.62	36.668		
5,800.00	5,717.42	5,743.61	5,702.69	30.98	25.46	-98.69	-31.11	-1,011.41	1,854.82	1,803.48	51.34	36.129		
5,900.00	5,817.42	5,829.52	5,788.58	31.33	25.80	-98.64	-29.42	-1,010.86	1,853.90	1,801.84	52.06	35.608		
5,940.34	5,857.76	5,861.72	5,820.76	31.47	25.93	-98.60	-28.36	-1,010.95	1,853.82	1,801.47	52.34	35.417		
6,000.00	5,917.42	5,901.32	5,860.33	31.68	26.09	-98.55	-26.75	-1,011.38	1,854.11	1,801.41	52.70	35.181		
6,100.00	6,017.42	5,965.01	5,923.91	32.03	26.34	-98.45	-23.63	-1,013.21	1,856.21	1,802.94	53.27	34.843		
6,200.00	6,117.42	6,131.50	6,090.18	32.38	27.00	-98.21	-16.25	-1,017.11	1,858.16	1,803.67	54.49	34.100		
6,300.00	6,217.42	6,238.53	6,197.19	32.74	27.44	-98.18	-15.18	-1,016.28	1,857.24	1,801.90	55.35	33.557		
6,388.96	6,306.38	6,310.72	6,269.38	33.06	27.73	-98.17	-14.87	-1,016.00	1,856.84	1,800.86	55.98	33.172		
6,400.00	6,317.42	6,320.22	6,278.88	33.09	27.77	-98.17	-14.80	-1,016.01	1,856.85	1,800.79	56.06	33.124		
6,476.01	6,393.43	6,390.94	6,349.60	33.37	28.06	-98.14	-13.90	-1,016.30	1,857.02	1,800.37	56.65	32.781		
6,500.00	6,417.42	6,413.39	6,372.04	33.45	28.15	-5.80	-13.46	-1,016.46	1,856.67	1,799.84	56.83	32.670		
6,550.00	6,467.25	6,460.34	6,418.98	33.59	28.34	-5.80	-12.33	-1,016.87	1,853.11	1,795.91	57.20	32.397		
6,600.00	6,516.64	6,513.47	6,472.08	33.71	28.56	-5.85	-10.80	-1,017.42	1,845.72	1,788.12	57.60	32.046		
6,650.00	6,565.26	6,580.83	6,539.43	33.80	28.83	-5.97	-9.59	-1,017.53	1,834.14	1,776.07	58.06	31.589		
6,700.00	6,612.83	6,637.28	6,595.88	33.88	29.07	-6.18	-9.31	-1,017.08	1,818.43	1,759.98	58.45	31.109		
6,750.00	6,659.04	6,691.54	6,650.13	33.94	29.29	-6.48	-9.51	-1,016.32	1,798.86	1,740.04	58.82	30.583		
6,800.00	6,703.62	6,714.17	6,672.75	33.99	29.38	-6.79	-9.48	-1,016.23	1,776.06	1,717.07	58.99	30.105		
6,850.00	6,746.28	6,743.54	6,702.13	34.03	29.50	-7.19	-9.40	-1,016.26	1,750.17	1,690.97	59.19	29.567		
6,900.00	6,786.76	6,777.76	6,736.35	34.08	29.65	-7.70	-9.17	-1,016.54	1,721.30	1,661.89	59.41	28.974		
6,950.00	6,824.83	6,820.80	6,779.38	34.13	29.82	-8.38	-8.76	-1,016.88	1,689.33	1,629.66	59.67	28.312		
7,000.00	6,860.23	6,860.69	6,819.27	34.20	29.99	-9.23	-8.27	-1,017.10	1,654.38	1,594.48	59.90	27.618		
7,050.00	6,892.75	6,888.18	6,846.76	34.30	30.10	-10.27	-8.04	-1,017.27	1,616.80	1,556.75	60.06	26.922		
7,100.00	6,922.20	6,914.64	6,873.22	34.43	30.21	-11.65	-7.96	-1,017.46	1,576.87	1,516.67	60.20	26.195		
7,150.00	6,948.38	6,938.32	6,896.90	34.60	30.31	-13.47	-8.00	-1,017.66	1,534.80	1,474.49	60.32	25.445		
7,200.00	6,971.15	6,959.29	6,917.87	34.82	30.40	-15.96	-8.10	-1,017.86	1,490.86	1,430.44	60.42	24.673		
7,250.00	6,990.35	6,977.23	6,935.80	35.09	30.48	-19.47	-8.18	-1,018.05	1,445.29	1,384.78	60.51	23.884		
7,300.00	7,005.87	6,991.92	6,950.50	35.43	30.54	-24.69	-8.24	-1,018.23	1,398.36	1,337.78	60.59	23.081		
7,350.00	7,017.62	7,003.26	6,961.83	35.81	30.58	-32.90	-8.28	-1,018.38	1,350.37	1,289.72	60.65	22.267		
7,400.00	7,025.52	7,011.15	6,969.72	36.26	30.62	-46.62	-8.31	-1,018.49	1,301.59	1,240.90	60.69	21.445		
7,450.00	7,029.52	7,015.49	6,974.06	36.75	30.64	-69.24	-8.32	-1,018.55	1,252.34	1,191.61	60.74	20.620		
7,483.86	7,030.00	7,016.39	6,974.96	37.12	30.64	-89.00	-8.32	-1,018.56	1,218.87	1,158.11	60.76	20.061		
7,500.00	7,029.80	7,016.43	6,975.00	37.30	30.64	-89.01	-8.32	-1,018.56	1,202.91	1,142.14	60.77	19.794		
7,600.00	7,028.57	7,016.64	6,975.21	38.58	30.64	-89.08	-8.32	-1,018.57	1,104.17	1,043.31	60.86	18.144		
7,700.00	7,027.34	7,016.85	6,975.42	40.10	30.64	-89.15	-8.33	-1,018.57	1,005.68	944.69	60.98	16.491		
7,800.00	7,026.10	7,017.07	6,975.64	41.83	30.64	-89.22	-8.33	-1,018.57	907.51	846.34	61.18	14.834		
7,900.00	7,024.87	7,017.29	6,975.86	43.74	30.64	-89.28	-8.33	-1,018.58	809.80	748.33	61.46	13.175		
8,000.00	7,023.63	7,017.51	6,976.08	45.82	30.64	-89.35	-8.33	-1,018.58	712.72	650.80	61.91	11.512		
8,100.00	7,022.40	7,017.74	6,976.31	48.04	30.65	-89.43	-8.33	-1,018.58	616.57	553.94	62.62	9.846		
8,200.00	7,021.17	7,017.97	6,976.54	50.38	30.65	-89.50	-8.33	-1,018.59	521.87	458.07	63.80	8.180		
8,300.00	7,019.93	7,018.20	6,976.77	52.82	30.65	-89.57	-8.33	-1,018.59	429.58	363.74	65.84	6.525		
8,400.00	7,018.70	7,018.43	6,977.00	55.35	30.65	-89.64	-8.33	-1,018.59	341.66	272.17	69.49	4.917		
8,500.00	7,017.47	7,018.67	6,977.24	57.97	30.65	-89.72	-8.33	-1,018.60	262.53	186.46	76.08	3.451		
8,600.00	7,016.23	7,018.91	6,977.48	60.65	30.65	-89.80	-8.33	-1,018.60	202.77	116.54	86.23	2.352		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,689.04	7,015.13	7,019.13	6,977.70	63.09	30.65	-89.86	-8.33	-1,018.60	182.17	89.06	93.11	1.956 CC, ES		
8,700.00	7,015.00	7,019.16	6,977.73	63.39	30.65	-89.87	-8.33	-1,018.60	182.50	89.18	93.33	1.956 SF		
8,800.00	7,013.76	7,019.41	6,977.98	66.19	30.65	-89.95	-8.33	-1,018.61	213.30	124.51	88.80	2.402		
8,900.00	7,012.53	7,019.66	6,978.23	69.03	30.65	-90.03	-8.33	-1,018.61	278.73	197.91	80.81	3.449		
9,000.00	7,011.30	7,019.92	6,978.49	71.91	30.65	-90.11	-8.33	-1,018.62	360.39	285.36	75.03	4.803		
9,100.00	7,010.06	7,020.18	6,978.75	74.83	30.66	-90.19	-8.34	-1,018.62	449.53	378.16	71.36	6.299		
9,200.00	7,008.83	7,020.44	6,979.01	77.78	30.66	-90.28	-8.34	-1,018.62	542.46	473.45	69.01	7.860		
9,300.00	7,007.60	7,020.71	6,979.28	80.76	30.66	-90.36	-8.34	-1,018.63	637.54	570.09	67.45	9.452		
9,400.00	7,006.36	7,020.99	6,979.56	83.76	30.66	-90.45	-8.34	-1,018.63	733.92	667.57	66.36	11.060		
9,500.00	7,005.13	7,021.26	6,979.83	86.79	30.66	-90.53	-8.34	-1,018.64	831.17	765.59	65.58	12.675		
9,600.00	7,003.90	7,021.54	6,980.11	89.84	30.66	-90.62	-8.34	-1,018.64	928.99	864.00	65.00	14.293		
9,700.00	7,002.66	7,021.83	6,980.40	92.90	30.66	-90.71	-8.34	-1,018.64	1,027.24	962.68	64.56	15.913		
9,800.00	7,001.43	7,022.12	6,980.69	95.99	30.66	-90.80	-8.34	-1,018.65	1,125.79	1,061.58	64.21	17.532		
9,900.00	7,000.19	7,022.41	6,980.98	99.08	30.66	-90.90	-8.34	-1,018.65	1,224.58	1,160.63	63.95	19.150		
10,000.00	6,998.96	7,022.71	6,981.28	102.19	30.67	-90.99	-8.34	-1,018.66	1,323.55	1,259.82	63.73	20.767		
10,100.00	6,997.73	7,023.02	6,981.59	105.32	30.67	-91.09	-8.34	-1,018.66	1,422.67	1,359.10	63.56	22.382		
10,200.00	6,996.49	7,023.33	6,981.90	108.45	30.67	-91.18	-8.34	-1,018.67	1,521.90	1,458.47	63.42	23.996		
10,300.00	6,995.26	7,023.64	6,982.21	111.60	30.67	-91.28	-8.35	-1,018.67	1,621.22	1,557.91	63.31	25.607		
10,400.00	6,994.03	7,023.96	6,982.53	114.75	30.67	-91.38	-8.35	-1,018.68	1,720.62	1,657.40	63.22	27.216		
10,500.00	6,992.79	7,024.29	6,982.86	117.92	30.67	-91.49	-8.35	-1,018.68	1,820.09	1,756.94	63.15	28.822		
10,600.00	6,991.56	7,024.62	6,983.19	121.09	30.67	-91.59	-8.35	-1,018.69	1,919.62	1,856.52	63.09	30.426		
10,700.00	6,990.33	7,024.95	6,983.52	124.27	30.68	-91.69	-8.35	-1,018.69	2,019.19	1,956.14	63.05	32.028		
10,800.00	6,989.09	7,025.30	6,983.86	127.46	30.68	-91.80	-8.35	-1,018.70	2,118.80	2,055.79	63.01	33.626		
10,900.00	6,987.86	7,025.64	6,984.21	130.65	30.68	-91.91	-8.35	-1,018.70	2,218.44	2,155.46	62.98	35.222		
11,000.00	6,986.62	7,026.00	6,984.57	133.85	30.68	-92.02	-8.35	-1,018.71	2,318.12	2,255.15	62.97	36.816		
11,100.00	6,985.39	7,026.36	6,984.93	137.06	30.68	-92.14	-8.35	-1,018.71	2,417.82	2,354.87	62.95	38.406		
11,200.00	6,984.16	7,026.72	6,985.29	140.27	30.68	-92.25	-8.35	-1,018.72	2,517.55	2,454.60	62.95	39.993		
11,300.00	6,982.92	7,027.10	6,985.66	143.48	30.68	-92.37	-8.35	-1,018.72	2,617.30	2,554.35	62.95	41.578		
11,400.00	6,981.69	7,027.48	6,986.04	146.70	30.69	-92.49	-8.36	-1,018.73	2,717.06	2,654.11	62.96	43.159		
11,500.00	6,980.46	7,027.86	6,986.43	149.92	30.69	-92.61	-8.36	-1,018.73	2,816.84	2,753.88	62.96	44.737		
11,600.00	6,979.22	7,028.26	6,986.82	153.15	30.69	-92.73	-8.36	-1,018.74	2,916.64	2,853.66	62.98	46.312		
11,700.00	6,977.99	7,028.66	6,987.23	156.38	30.69	-92.86	-8.36	-1,018.75	3,016.45	2,953.46	63.00	47.883		
11,800.00	6,976.75	7,029.07	6,987.63	159.62	30.69	-92.99	-8.36	-1,018.75	3,116.28	3,053.26	63.02	49.451		
11,900.00	6,975.52	7,029.48	6,988.05	162.86	30.69	-93.12	-8.36	-1,018.76	3,216.11	3,153.07	63.04	51.016		
12,000.00	6,974.29	7,029.91	6,988.47	166.10	30.70	-93.25	-8.36	-1,018.77	3,315.95	3,252.88	63.07	52.577		
12,100.00	6,973.05	7,030.34	6,988.91	169.34	30.70	-93.38	-8.36	-1,018.77	3,415.81	3,352.71	63.10	54.135		
12,200.00	6,971.82	7,030.78	6,989.35	172.59	30.70	-93.52	-8.36	-1,018.78	3,515.67	3,452.54	63.13	55.689		
12,300.00	6,970.59	7,031.23	6,989.80	175.84	30.70	-93.66	-8.37	-1,018.79	3,615.54	3,552.37	63.17	57.239		
12,400.00	6,969.35	7,031.69	6,990.26	179.09	30.70	-93.81	-8.37	-1,018.79	3,715.41	3,652.21	63.20	58.786		
12,500.00	6,968.12	7,032.16	6,990.72	182.35	30.71	-93.95	-8.37	-1,018.80	3,815.29	3,752.05	63.24	60.328		
12,600.00	6,966.89	7,032.63	6,991.20	185.60	30.71	-94.10	-8.37	-1,018.81	3,915.18	3,851.90	63.28	61.867		
12,700.00	6,965.65	7,033.12	6,991.69	188.86	30.71	-94.25	-8.37	-1,018.82	4,015.08	3,951.75	63.33	63.402		
12,800.00	6,964.42	7,033.62	6,992.18	192.12	30.71	-94.41	-8.37	-1,018.82	4,114.98	4,051.60	63.37	64.933		
12,900.00	6,963.18	7,034.12	6,992.69	195.38	30.71	-94.57	-8.37	-1,018.83	4,214.88	4,151.46	63.42	66.460		
13,000.00	6,961.95	7,034.64	6,993.21	198.65	30.72	-94.73	-8.37	-1,018.84	4,314.79	4,251.32	63.47	67.983		
13,100.00	6,960.72	7,035.17	6,993.74	201.91	30.72	-94.90	-8.38	-1,018.85	4,414.70	4,351.18	63.52	69.502		
13,200.00	6,959.48	7,035.71	6,994.28	205.18	30.72	-95.06	-8.38	-1,018.86	4,514.62	4,451.04	63.57	71.017		
13,300.00	6,958.25	7,036.26	6,994.83	208.45	30.72	-95.24	-8.38	-1,018.87	4,614.53	4,550.91	63.63	72.527		
13,400.00	6,957.02	7,036.83	6,995.40	211.72	30.73	-95.41	-8.38	-1,018.88	4,714.46	4,650.78	63.68	74.033		
13,500.00	6,955.78	7,037.41	6,995.97	214.99	30.73	-95.59	-8.38	-1,018.88	4,814.38	4,750.65	63.74	75.535		
13,600.00	6,954.55	7,038.00	6,996.56	218.27	30.73	-95.78	-8.38	-1,018.89	4,914.31	4,850.52	63.80	77.032		
13,700.00	6,953.32	7,038.60	6,997.17	221.54	30.73	-95.96	-8.38	-1,018.90	5,014.25	4,950.39	63.86	78.525		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,800.00	6,952.08	7,039.22	6,997.78	224.82	30.74	-96.16	-8.39	-1,018.91	5,114.18	5,050.26	63.92	80.014		
13,900.00	6,950.85	7,039.85	6,998.42	228.10	30.74	-96.35	-8.39	-1,018.92	5,214.12	5,150.14	63.98	81.497		
14,000.00	6,949.61	7,040.50	6,999.06	231.37	30.74	-96.55	-8.39	-1,018.93	5,314.06	5,250.01	64.04	82.977		
14,100.00	6,948.38	7,041.16	6,999.73	234.65	30.74	-96.76	-8.39	-1,018.94	5,414.00	5,349.89	64.11	84.452		
14,200.00	6,947.15	7,041.84	7,000.40	237.93	30.75	-96.97	-8.39	-1,018.96	5,513.94	5,449.77	64.17	85.922		
14,300.00	6,945.91	7,042.53	7,001.10	241.22	30.75	-97.18	-8.39	-1,018.97	5,613.89	5,549.64	64.24	87.387		
14,400.00	6,944.68	7,043.24	7,001.81	244.50	30.75	-97.40	-8.40	-1,018.98	5,713.83	5,649.52	64.31	88.848		
14,500.00	6,943.45	7,043.97	7,002.54	247.78	30.76	-97.63	-8.40	-1,018.99	5,813.78	5,749.40	64.38	90.304		
14,600.00	6,942.21	7,044.72	7,003.29	251.07	30.76	-97.86	-8.40	-1,019.00	5,913.73	5,849.28	64.45	91.755		
14,700.00	6,940.98	7,045.49	7,004.06	254.35	30.76	-98.10	-8.40	-1,019.02	6,013.69	5,949.16	64.52	93.201		
14,800.00	6,939.74	7,046.28	7,004.85	257.64	30.76	-98.34	-8.40	-1,019.03	6,113.64	6,049.04	64.60	94.643		
14,900.00	6,938.51	7,047.09	7,005.65	260.92	30.77	-98.59	-8.40	-1,019.04	6,213.60	6,148.92	64.67	96.079		
15,000.00	6,937.28	7,047.92	7,006.49	264.21	30.77	-98.84	-8.41	-1,019.06	6,313.55	6,248.80	64.75	97.510		
15,100.00	6,936.04	15,100.00	6,978.17	267.50	64.78	-90.01	-8.32	-1,018.64	6,413.52	6,314.84	98.67	64.999		
15,200.00	6,934.81	7,040.51	6,999.08	270.79	30.74	-96.56	-8.38	-1,018.93	6,513.48	6,448.59	64.88	100.388		
15,300.00	6,933.58	7,040.84	6,999.41	274.08	30.74	-96.66	-8.38	-1,018.94	6,613.44	6,548.48	64.96	101.807		
15,400.00	6,932.34	7,041.17	6,999.74	277.37	30.74	-96.76	-8.38	-1,018.94	6,713.40	6,648.36	65.04	103.221		
15,500.00	6,931.11	7,041.50	7,000.07	280.66	30.74	-96.87	-8.38	-1,018.95	6,813.36	6,748.24	65.12	104.630		
15,589.88	6,930.00	7,041.80	7,000.37	283.62	30.75	-96.96	-8.38	-1,018.95	6,903.21	6,838.02	65.19	105.892		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-75.37	242.28	-928.37	960.18					
100.00	100.00	57.69	57.69	3.28	3.29	-75.37	242.30	-928.48	959.59	953.02	6.57	146.006		
200.00	200.00	146.39	146.38	3.34	3.34	-75.38	242.46	-929.49	960.73	954.06	6.68	143.909		
300.00	299.98	271.38	271.36	3.44	3.47	-148.61	242.15	-930.49	963.01	956.09	6.92	139.222		
400.00	399.84	445.89	445.65	3.60	3.79	-149.04	237.96	-923.90	963.58	956.15	7.43	129.671		
500.00	499.45	600.09	598.74	3.81	4.18	-149.77	229.02	-907.94	959.59	951.52	8.08	118.799		
600.00	598.70	760.31	756.25	4.08	4.74	-150.93	214.56	-882.58	952.49	943.61	8.88	107.214		
700.00	697.47	862.20	855.67	4.40	5.18	-151.87	203.52	-863.24	945.18	935.69	9.49	99.578		
774.77	770.92	945.93	937.39	4.68	5.58	-152.69	194.56	-847.35	941.95	931.92	10.03	93.883		
800.00	795.65	978.93	969.50	4.78	5.74	-153.01	190.92	-840.68	940.85	930.60	10.25	91.826		
900.00	893.64	1,099.50	1,086.27	5.20	6.39	-154.20	177.43	-813.86	934.50	923.42	11.07	84.384		
1,000.00	991.63	1,202.11	1,185.61	5.66	6.98	-155.15	167.09	-790.35	928.07	916.22	11.85	78.288		
1,100.00	1,089.63	1,306.61	1,286.35	6.15	7.62	-156.20	155.36	-765.15	920.46	907.77	12.68	72.571		
1,200.00	1,187.62	1,411.47	1,387.26	6.65	8.30	-157.37	141.88	-740.05	913.11	899.56	13.55	67.369		
1,300.00	1,285.62	1,492.35	1,465.02	7.17	8.83	-158.36	130.37	-721.00	906.35	892.00	14.35	63.164		
1,400.00	1,383.61	1,580.98	1,550.37	7.71	9.41	-159.57	116.04	-701.89	901.74	886.52	15.22	59.254		
1,500.00	1,481.60	1,667.98	1,633.78	8.25	10.00	-160.96	98.92	-684.13	898.52	882.39	16.13	55.716		
1,600.00	1,579.60	1,757.51	1,719.09	8.80	10.63	-162.63	77.77	-667.08	897.11	880.00	17.10	52.450		
1,638.53	1,617.35	1,791.76	1,751.58	9.02	10.87	-163.31	69.00	-660.73	896.97	879.48	17.49	51.275 CC		
1,700.00	1,677.59	1,844.54	1,801.53	9.36	11.25	-164.40	54.86	-651.21	897.36	879.24	18.12	49.523 ES		
1,800.00	1,775.59	1,945.71	1,896.63	9.92	12.00	-166.63	25.45	-633.15	899.13	879.84	19.30	46.596		
1,900.00	1,873.58	2,045.68	1,989.13	10.49	12.80	-169.06	-7.39	-614.24	901.33	880.77	20.56	43.842		
2,000.00	1,971.57	2,137.99	2,073.27	11.06	13.59	-171.49	-40.83	-596.27	904.90	883.04	21.85	41.407		
2,100.00	2,069.57	2,241.35	2,167.04	11.64	14.51	-174.23	-78.80	-575.14	909.50	886.19	23.31	39.015		
2,200.00	2,167.56	2,333.07	2,250.59	12.22	15.34	-176.58	-111.61	-556.26	915.76	891.08	24.68	37.100		
2,300.00	2,265.56	2,430.24	2,339.35	12.80	16.23	-178.98	-145.12	-535.26	922.60	896.47	26.13	35.313		
2,400.00	2,363.55	2,503.82	2,406.77	13.38	16.90	179.23	-170.61	-520.49	932.49	905.17	27.33	34.125		
2,500.00	2,461.54	2,598.88	2,494.12	13.97	17.76	177.00	-203.27	-502.04	944.54	915.78	28.76	32.839		
2,600.00	2,559.54	2,688.21	2,575.04	14.55	18.62	174.80	-236.29	-483.64	957.90	927.71	30.19	31.730		
2,700.00	2,657.53	2,765.70	2,643.53	15.14	19.41	172.72	-268.50	-467.05	973.87	942.35	31.52	30.896		
2,800.00	2,755.53	2,849.64	2,716.83	15.73	20.30	170.42	-305.21	-449.02	992.59	959.63	32.96	30.112		
2,900.00	2,853.52	2,946.83	2,803.18	16.32	21.30	168.01	-345.02	-428.95	1,012.78	978.23	34.56	29.308		
3,000.00	2,951.52	3,026.67	2,874.69	16.91	22.10	166.16	-376.78	-413.08	1,034.71	998.86	35.85	28.862		
3,100.00	3,049.51	3,098.46	2,938.74	17.51	22.83	164.52	-406.19	-399.40	1,059.30	1,022.30	37.00	28.630		
3,200.00	3,147.50	3,212.40	3,040.93	18.10	23.98	162.09	-451.87	-378.15	1,085.18	1,046.39	38.79	27.976		
3,300.00	3,245.50	3,328.65	3,147.21	18.70	25.09	159.96	-493.66	-356.46	1,109.96	1,069.44	40.52	27.391		
3,400.00	3,343.49	3,417.96	3,228.94	19.29	25.94	158.39	-524.94	-338.67	1,134.27	1,092.42	41.85	27.104		
3,500.00	3,441.49	3,514.51	3,317.91	19.89	26.84	156.84	-558.11	-321.14	1,160.31	1,117.06	43.25	26.829		
3,600.00	3,539.48	3,609.60	3,405.90	20.48	27.72	155.41	-589.46	-303.36	1,185.84	1,141.23	44.61	26.582		
3,700.00	3,637.47	3,682.01	3,472.50	21.08	28.40	154.32	-614.41	-289.74	1,212.97	1,167.33	45.64	26.577		
3,800.00	3,735.47	3,760.30	3,544.00	21.68	29.15	153.14	-642.95	-275.56	1,242.48	1,195.73	46.74	26.582		
3,900.00	3,833.46	3,865.90	3,641.46	22.27	30.13	151.73	-679.42	-257.61	1,272.09	1,223.85	48.24	26.370		
4,000.00	3,931.46	3,944.09	3,713.64	22.87	30.86	150.73	-706.30	-244.14	1,302.09	1,252.78	49.31	26.408		
4,100.00	4,029.45	4,007.65	3,771.46	23.47	31.48	149.86	-730.15	-232.86	1,334.41	1,284.28	50.14	26.616		
4,200.00	4,127.44	4,089.19	3,844.86	24.07	32.30	148.73	-762.38	-217.97	1,368.46	1,317.18	51.28	26.688		
4,300.00	4,225.44	4,169.26	3,916.62	24.67	33.13	147.63	-794.73	-203.26	1,403.67	1,351.28	52.39	26.793		
4,400.00	4,323.43	4,301.20	4,034.75	25.27	34.51	145.87	-847.08	-176.64	1,437.76	1,383.34	54.42	26.422		
4,507.81	4,429.08	4,393.78	4,118.01	25.92	35.48	144.72	-883.02	-157.99	1,474.71	1,418.98	55.73	26.463		
4,600.00	4,519.70	4,472.58	4,188.45	26.45	36.31	144.10	-914.11	-141.26	1,505.60	1,448.77	56.82	26.496		
4,700.00	4,618.56	4,546.12	4,253.89	26.98	37.10	143.53	-943.88	-125.78	1,537.97	1,480.20	57.77	26.623		
4,800.00	4,717.88	4,638.13	4,335.96	27.46	38.09	142.70	-980.97	-106.94	1,568.51	1,509.51	58.99	26.588		
4,900.00	4,817.54	4,706.78	4,396.76	27.89	38.84	142.12	-1,009.39	-92.52	1,597.75	1,537.99	59.75	26.739		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	4,880.47	4,551.08	28.28	40.73	140.00	-1,079.21	-54.16	1,623.99	1,561.69	62.31	26.065		
5,082.58	5,000.00	4,960.87	4,623.83	28.57	41.56	-147.69	-1,108.57	-36.58	1,641.70	1,578.46	63.24	25.959		
5,100.00	5,017.42	4,977.03	4,638.48	28.62	41.73	-147.91	-1,114.44	-33.08	1,645.31	1,581.89	63.42	25.942		
5,200.00	5,117.42	5,048.74	4,703.60	28.95	42.46	-148.84	-1,140.56	-18.29	1,667.02	1,602.93	64.09	26.012		
5,300.00	5,217.42	5,113.70	4,762.57	29.28	43.12	-149.65	-1,164.71	-5.69	1,690.63	1,626.01	64.62	26.162		
5,400.00	5,317.42	5,208.60	4,848.01	29.62	44.09	-150.85	-1,201.52	13.04	1,716.21	1,650.59	65.63	26.152		
5,500.00	5,417.42	5,500.00	5,105.96	29.96	46.68	-153.67	-1,288.93	60.78	1,737.81	1,668.64	69.18	25.121		
5,600.00	5,517.42	5,644.15	5,259.76	30.29	47.63	-154.74	-1,322.24	80.49	1,751.38	1,680.87	70.51	24.838		
5,700.00	5,617.42	5,762.72	5,375.76	30.64	48.34	-155.40	-1,343.35	92.90	1,763.25	1,691.78	71.47	24.670		
5,800.00	5,717.42	5,902.72	5,513.79	30.98	49.06	-155.98	-1,364.50	102.90	1,774.34	1,701.81	72.52	24.466		
5,900.00	5,817.42	6,066.91	5,676.98	31.33	49.74	-156.42	-1,380.62	110.72	1,781.09	1,707.50	73.59	24.201		
6,000.00	5,917.42	6,230.43	5,840.14	31.68	50.30	-156.69	-1,389.87	115.77	1,785.01	1,710.50	74.51	23.956		
6,100.00	6,017.42	6,360.66	5,970.33	32.03	50.65	-156.76	-1,392.38	117.18	1,786.33	1,711.11	75.22	23.748		
6,200.00	6,117.42	6,481.93	6,091.60	32.38	50.91	-156.75	-1,392.17	116.78	1,786.31	1,710.45	75.86	23.547		
6,300.00	6,217.42	6,599.12	6,208.75	32.74	51.11	-156.66	-1,389.85	114.71	1,785.19	1,708.72	76.47	23.344		
6,400.00	6,317.42	6,700.28	6,309.82	33.09	51.28	-156.53	-1,386.71	111.90	1,783.44	1,706.38	77.06	23.143		
6,476.01	6,393.43	6,762.00	6,371.47	33.37	51.37	-156.45	-1,384.87	109.71	1,782.44	1,704.94	77.50	22.999		
6,500.00	6,417.42	6,779.94	6,389.39	33.45	51.41	-64.13	-1,384.45	109.08	1,782.07	1,704.44	77.63	22.956		
6,550.00	6,467.25	6,813.57	6,423.01	33.59	51.48	-64.31	-1,384.02	108.14	1,780.37	1,702.52	77.85	22.869		
6,600.00	6,516.64	6,853.00	6,462.43	33.71	51.55	-64.71	-1,384.14	107.49	1,777.45	1,699.42	78.03	22.779		
6,650.00	6,565.26	6,904.92	6,514.34	33.80	51.67	-65.42	-1,384.49	106.81	1,773.03	1,694.84	78.19	22.676		
6,700.00	6,612.83	6,956.25	6,565.67	33.88	51.78	-66.38	-1,384.40	105.92	1,766.74	1,688.43	78.31	22.560		
6,750.00	6,659.04	6,989.19	6,598.60	33.94	51.85	-67.37	-1,384.50	105.33	1,759.25	1,680.90	78.36	22.451		
6,800.00	6,703.62	7,020.99	6,630.40	33.99	51.92	-68.51	-1,384.86	104.79	1,750.81	1,672.45	78.36	22.343		
6,850.00	6,746.28	7,053.36	6,662.76	34.03	52.01	-69.83	-1,385.52	104.34	1,741.54	1,663.20	78.34	22.231		
6,900.00	6,786.76	7,084.56	6,693.94	34.08	52.09	-71.28	-1,386.43	104.17	1,731.55	1,653.26	78.29	22.118		
6,950.00	6,824.83	7,113.50	6,722.87	34.13	52.17	-72.82	-1,387.53	104.25	1,721.03	1,642.82	78.20	22.007		
7,000.00	6,860.23	7,156.30	6,765.62	34.20	52.29	-74.81	-1,389.25	104.44	1,710.05	1,631.90	78.15	21.883		
7,050.00	6,892.75	7,202.75	6,812.06	34.30	52.43	-77.02	-1,390.56	103.98	1,698.52	1,620.42	78.09	21.750		
7,100.00	6,922.20	7,243.23	6,852.52	34.43	52.52	-79.19	-1,391.26	103.10	1,686.70	1,608.70	78.01	21.622		
7,150.00	6,948.38	7,279.66	6,888.94	34.60	52.60	-81.32	-1,391.61	102.06	1,674.92	1,597.00	77.92	21.495		
7,200.00	6,971.15	7,319.83	6,929.08	34.82	52.69	-83.61	-1,391.65	100.61	1,663.41	1,585.57	77.84	21.370		
7,250.00	6,990.35	7,364.59	6,973.78	35.09	52.77	-86.05	-1,391.00	98.45	1,652.29	1,574.53	77.76	21.248		
7,300.00	7,005.87	7,404.06	7,013.16	35.43	52.84	-88.32	-1,389.79	96.03	1,641.84	1,564.14	77.69	21.133		
7,350.00	7,017.62	7,406.19	7,015.29	35.81	52.85	-89.25	-1,389.82	96.06	1,632.57	1,554.91	77.66	21.022		
7,400.00	7,025.52	7,414.73	7,023.82	36.26	52.86	-90.27	-1,389.59	95.66	1,624.64	1,546.99	77.65	20.923		
7,450.00	7,029.52	7,419.69	7,028.77	36.75	52.87	-91.03	-1,389.46	95.45	1,618.20	1,540.54	77.66	20.837		
7,483.86	7,030.00	7,421.14	7,030.22	37.12	52.87	-91.39	-1,389.42	95.39	1,614.73	1,537.05	77.68	20.787		
7,500.00	7,029.80	7,421.47	7,030.56	37.30	52.87	-91.40	-1,389.41	95.38	1,613.33	1,535.64	77.69	20.765		
7,600.00	7,028.57	7,423.43	7,032.52	38.58	52.88	-91.47	-1,389.36	95.30	1,608.26	1,530.34	77.92	20.640		
7,631.71	7,028.18	7,424.02	7,033.10	39.06	52.88	-91.49	-1,389.35	95.28	1,607.95	1,529.89	78.06	20.599		
7,700.00	7,027.34	7,425.21	7,034.29	40.10	52.88	-91.54	-1,389.32	95.24	1,609.39	1,531.04	78.35	20.541		
7,800.00	7,026.10	7,426.83	7,035.91	41.83	52.88	-91.59	-1,389.28	95.18	1,616.73	1,537.76	78.97	20.474		
7,900.00	7,024.87	7,428.32	7,037.39	43.74	52.89	-91.65	-1,389.25	95.12	1,630.17	1,550.42	79.74	20.443 SF		
8,000.00	7,023.63	7,429.68	7,038.75	45.82	52.89	-91.70	-1,389.21	95.08	1,649.57	1,568.91	80.65	20.452		
8,100.00	7,022.40	7,430.94	7,040.01	48.04	52.89	-91.74	-1,389.18	95.03	1,674.73	1,593.05	81.68	20.504		
8,200.00	7,021.17	7,432.10	7,041.17	50.38	52.89	-91.78	-1,389.16	95.00	1,705.38	1,622.59	82.79	20.599		
8,300.00	7,019.93	7,433.17	7,042.24	52.82	52.90	-91.82	-1,389.13	94.96	1,741.25	1,657.28	83.97	20.737		
8,400.00	7,018.70	7,434.17	7,043.24	55.35	52.90	-91.86	-1,389.11	94.93	1,782.01	1,696.83	85.19	20.919		
8,500.00	7,017.47	7,435.11	7,044.18	57.97	52.90	-91.89	-1,389.09	94.90	1,827.34	1,740.92	86.43	21.143		
8,600.00	7,016.23	7,435.98	7,045.05	60.65	52.90	-91.92	-1,389.07	94.87	1,876.91	1,789.24	87.67	21.410		
8,700.00	7,015.00	7,436.80	7,045.87	63.39	52.90	-91.95	-1,389.05	94.85	1,930.39	1,841.50	88.89	21.716		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	7,437.56	7,046.63	66.19	52.90	-91.98	-1,389.03	94.83	1,987.46	1,897.38	90.09	22.062		
8,900.00	7,012.53	7,438.28	7,047.35	69.03	52.91	-92.00	-1,389.02	94.81	2,047.83	1,956.59	91.24	22.445		
9,000.00	7,011.30	7,438.96	7,048.03	71.91	52.91	-92.03	-1,389.00	94.79	2,111.21	2,018.87	92.34	22.863		
9,100.00	7,010.06	7,439.60	7,048.67	74.83	52.91	-92.05	-1,388.99	94.77	2,177.34	2,083.94	93.39	23.314		
9,200.00	7,008.83	7,440.21	7,049.28	77.78	52.91	-92.07	-1,388.98	94.75	2,245.97	2,151.59	94.39	23.796		
9,300.00	7,007.60	7,440.78	7,049.85	80.76	52.91	-92.09	-1,388.96	94.74	2,316.89	2,221.57	95.32	24.306		
9,400.00	7,006.36	7,441.33	7,050.39	83.76	52.91	-92.11	-1,388.95	94.72	2,389.89	2,293.70	96.20	24.844		
9,500.00	7,005.13	7,441.84	7,050.91	86.79	52.91	-92.13	-1,388.94	94.71	2,464.79	2,367.77	97.01	25.407		
9,600.00	7,003.90	7,442.33	7,051.40	89.84	52.91	-92.15	-1,388.93	94.70	2,541.41	2,443.63	97.78	25.992		
9,700.00	7,002.66	7,442.80	7,051.87	92.90	52.91	-92.16	-1,388.92	94.69	2,619.61	2,521.12	98.49	26.598		
9,800.00	7,001.43	7,443.25	7,052.31	95.99	52.91	-92.18	-1,388.91	94.67	2,699.25	2,600.10	99.15	27.224		
9,900.00	7,000.19	7,443.67	7,052.74	99.08	52.92	-92.19	-1,388.90	94.66	2,780.20	2,680.44	99.76	27.868		
10,000.00	6,998.96	7,444.08	7,053.14	102.19	52.92	-92.21	-1,388.90	94.65	2,862.36	2,762.03	100.34	28.527		
10,100.00	6,997.73	7,444.46	7,053.53	105.32	52.92	-92.22	-1,388.89	94.64	2,945.62	2,844.76	100.87	29.202		
10,200.00	6,996.49	7,444.84	7,053.90	108.45	52.92	-92.24	-1,388.88	94.63	3,029.90	2,928.53	101.36	29.891		
10,300.00	6,995.26	7,445.19	7,054.26	111.60	52.92	-92.25	-1,388.87	94.63	3,115.10	3,013.28	101.83	30.593		
10,400.00	6,994.03	7,445.53	7,054.60	114.75	52.92	-92.26	-1,388.87	94.62	3,201.16	3,098.91	102.26	31.306		
10,500.00	6,992.79	7,445.86	7,054.92	117.92	52.92	-92.27	-1,388.86	94.61	3,288.01	3,185.36	102.66	32.029		
10,600.00	6,991.56	7,446.17	7,055.24	121.09	52.92	-92.28	-1,388.85	94.60	3,375.59	3,272.56	103.03	32.763		
10,700.00	6,990.33	7,474.00	7,083.06	124.27	52.97	-93.27	-1,388.36	94.21	3,464.21	3,360.86	103.35	33.520		
10,800.00	6,989.09	7,474.00	7,083.06	127.46	52.97	-93.27	-1,388.36	94.21	3,553.07	3,449.39	103.68	34.270		
10,900.00	6,987.86	7,474.00	7,083.06	130.65	52.97	-93.27	-1,388.36	94.21	3,642.51	3,538.52	103.99	35.029		
11,000.00	6,986.62	7,474.00	7,083.06	133.85	52.97	-93.27	-1,388.36	94.21	3,732.49	3,628.21	104.28	35.794		
11,100.00	6,985.39	7,474.00	7,083.06	137.06	52.97	-93.27	-1,388.36	94.21	3,822.96	3,718.41	104.55	36.566		
11,200.00	6,984.16	7,474.00	7,083.06	140.27	52.97	-93.27	-1,388.36	94.21	3,913.90	3,809.09	104.81	37.344		
11,300.00	6,982.92	7,474.00	7,083.06	143.48	52.97	-93.27	-1,388.36	94.21	4,005.27	3,900.22	105.05	38.128		
11,400.00	6,981.69	7,474.00	7,083.06	146.70	52.97	-93.27	-1,388.36	94.21	4,097.04	3,991.77	105.28	38.917		
11,500.00	6,980.46	7,474.00	7,083.06	149.92	52.97	-93.27	-1,388.36	94.21	4,189.19	4,083.70	105.49	39.710		
11,600.00	6,979.22	7,474.00	7,083.06	153.15	52.97	-93.27	-1,388.36	94.21	4,281.69	4,176.00	105.70	40.509		
11,700.00	6,977.99	7,474.00	7,083.06	156.38	52.97	-93.27	-1,388.36	94.21	4,374.53	4,268.63	105.89	41.311		
11,800.00	6,976.75	7,474.00	7,083.06	159.62	52.97	-93.27	-1,388.36	94.21	4,467.67	4,361.59	106.08	42.117		
11,900.00	6,975.52	7,474.00	7,083.06	162.86	52.97	-93.27	-1,388.36	94.21	4,561.10	4,454.85	106.25	42.927		
12,000.00	6,974.29	7,474.00	7,083.06	166.10	52.97	-93.27	-1,388.36	94.21	4,654.81	4,548.39	106.42	43.740		
12,100.00	6,973.05	7,474.00	7,083.06	169.34	52.97	-93.27	-1,388.36	94.21	4,748.77	4,642.19	106.58	44.556		
12,200.00	6,971.82	7,474.00	7,083.06	172.59	52.97	-93.27	-1,388.36	94.21	4,842.97	4,736.24	106.73	45.375		
12,300.00	6,970.59	7,474.00	7,083.06	175.84	52.97	-93.27	-1,388.36	94.21	4,937.40	4,830.52	106.88	46.196		
12,400.00	6,969.35	7,474.00	7,083.06	179.09	52.97	-93.27	-1,388.36	94.21	5,032.05	4,925.03	107.02	47.020		
12,500.00	6,968.12	7,474.00	7,083.06	182.35	52.97	-93.27	-1,388.36	94.21	5,126.90	5,019.75	107.15	47.846		
12,600.00	6,966.89	7,474.00	7,083.06	185.60	52.97	-93.27	-1,388.36	94.21	5,221.94	5,114.66	107.28	48.674		
12,700.00	6,965.65	7,474.00	7,083.06	188.86	52.97	-93.27	-1,388.36	94.21	5,317.16	5,209.76	107.41	49.504		
12,800.00	6,964.42	7,474.00	7,083.06	192.12	52.97	-93.27	-1,388.36	94.21	5,412.56	5,305.03	107.53	50.336		
12,900.00	6,963.18	7,474.00	7,083.06	195.38	52.97	-93.27	-1,388.36	94.21	5,508.12	5,400.48	107.64	51.170		
13,000.00	6,961.95	7,474.00	7,083.06	198.65	52.97	-93.27	-1,388.36	94.21	5,603.83	5,496.08	107.76	52.004		
13,100.00	6,960.72	7,474.00	7,083.06	201.91	52.97	-93.27	-1,388.36	94.21	5,699.70	5,591.83	107.87	52.841		
13,200.00	6,959.48	7,474.00	7,083.06	205.18	52.97	-93.27	-1,388.36	94.21	5,795.70	5,687.73	107.97	53.678		
13,300.00	6,958.25	7,474.00	7,083.06	208.45	52.97	-93.27	-1,388.36	94.21	5,891.83	5,783.76	108.07	54.516		
13,400.00	6,957.02	7,474.00	7,083.06	211.72	52.97	-93.27	-1,388.36	94.21	5,988.09	5,879.92	108.17	55.356		
13,500.00	6,955.78	7,474.00	7,083.06	214.99	52.97	-93.27	-1,388.36	94.21	6,084.48	5,976.20	108.27	56.196		
13,600.00	6,954.55	7,474.00	7,083.06	218.27	52.97	-93.27	-1,388.36	94.21	6,180.97	6,072.61	108.37	57.037		
13,700.00	6,953.32	7,474.00	7,083.06	221.54	52.97	-93.27	-1,388.36	94.21	6,277.58	6,169.12	108.46	57.879		
13,800.00	6,952.08	7,474.00	7,083.06	224.82	52.97	-93.27	-1,388.36	94.21	6,374.29	6,265.74	108.55	58.722		
13,900.00	6,950.85	7,474.00	7,083.06	228.10	52.97	-93.27	-1,388.36	94.21	6,471.10	6,362.46	108.64	59.565		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,949.61	7,474.00	7,083.06	231.37	52.97	-93.27	-1,388.36	94.21	6,568.01	6,459.28	108.73	60.409		
14,100.00	6,948.38	7,474.00	7,083.06	234.65	52.97	-93.27	-1,388.36	94.21	6,665.01	6,556.19	108.81	61.253		
14,200.00	6,947.15	7,474.00	7,083.06	237.93	52.97	-93.27	-1,388.36	94.21	6,762.09	6,653.20	108.89	62.097		
14,300.00	6,945.91	7,474.00	7,083.06	241.22	52.97	-93.27	-1,388.36	94.21	6,859.26	6,750.28	108.98	62.942		
14,400.00	6,944.68	7,474.00	7,083.06	244.50	52.97	-93.27	-1,388.36	94.21	6,956.51	6,847.45	109.06	63.787		
14,500.00	6,943.45	7,474.00	7,083.06	247.78	52.97	-93.27	-1,388.36	94.21	7,053.84	6,944.70	109.14	64.632		
14,600.00	6,942.21	7,474.00	7,083.06	251.07	52.97	-93.27	-1,388.36	94.21	7,151.24	7,042.02	109.22	65.477		
14,700.00	6,940.98	7,474.00	7,083.06	254.35	52.97	-93.27	-1,388.36	94.21	7,248.71	7,139.41	109.29	66.323		
14,800.00	6,939.74	7,474.00	7,083.06	257.64	52.97	-93.27	-1,388.36	94.21	7,346.25	7,236.87	109.37	67.168		
14,900.00	6,938.51	7,474.00	7,083.06	260.92	52.97	-93.27	-1,388.36	94.21	7,443.85	7,334.40	109.45	68.013		
15,000.00	6,937.28	7,474.00	7,083.06	264.21	52.97	-93.27	-1,388.36	94.21	7,541.52	7,431.99	109.52	68.858		
15,100.00	6,936.04	7,474.00	7,083.06	267.50	52.97	-93.27	-1,388.36	94.21	7,639.24	7,529.65	109.60	69.703		
15,200.00	6,934.81	7,474.00	7,083.06	270.79	52.97	-93.27	-1,388.36	94.21	7,737.03	7,627.36	109.67	70.548		
15,300.00	6,933.58	7,474.00	7,083.06	274.08	52.97	-93.27	-1,388.36	94.21	7,834.87	7,725.13	109.74	71.393		
15,400.00	6,932.34	7,474.00	7,083.06	277.37	52.97	-93.27	-1,388.36	94.21	7,932.77	7,822.95	109.82	72.237		
15,500.00	6,931.11	7,474.00	7,083.06	280.66	52.97	-93.27	-1,388.36	94.21	8,030.71	7,920.83	109.89	73.081		
15,589.88	6,930.00	7,474.00	7,083.06	283.62	52.97	-93.27	-1,388.36	94.21	8,118.79	8,008.84	109.95	73.840		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-73.78	272.88	-938.11	977.69					
100.00	100.00	60.66	60.66	3.28	3.29	-73.78	272.92	-938.15	977.05	970.48	6.57	148.648	CC, ES	
200.00	200.00	155.69	155.68	3.34	3.34	-73.77	273.29	-938.54	977.54	970.86	6.68	146.317		
300.00	299.98	252.67	252.67	3.44	3.45	-146.91	274.01	-939.24	979.91	973.01	6.90	142.100		
400.00	399.84	348.85	348.83	3.60	3.61	-146.98	274.92	-940.24	985.55	978.35	7.21	136.713		
500.00	499.45	452.66	452.64	3.81	3.82	-147.13	275.92	-941.22	994.05	986.42	7.63	130.355		
600.00	598.70	551.48	551.45	4.08	4.06	-147.35	276.68	-942.01	1,005.29	997.18	8.11	123.888		
700.00	697.47	649.71	649.67	4.40	4.32	-147.63	277.54	-942.89	1,019.62	1,010.95	8.67	117.591		
774.77	770.92	723.96	723.92	4.68	4.54	-147.93	277.55	-943.64	1,032.20	1,023.07	9.13	113.083		
800.00	795.65	748.03	747.98	4.78	4.61	-148.08	277.38	-943.93	1,036.74	1,027.45	9.29	111.649		
900.00	893.64	847.60	847.53	5.20	4.92	-148.75	276.03	-945.30	1,054.80	1,044.86	9.94	106.151		
1,000.00	991.63	956.83	956.69	5.66	5.27	-149.56	272.55	-946.43	1,072.26	1,061.60	10.66	100.626		
1,100.00	1,089.63	1,055.13	1,054.77	6.15	5.60	-150.45	265.94	-947.64	1,089.33	1,077.96	11.37	95.792		
1,200.00	1,187.62	1,141.84	1,141.23	6.65	5.91	-151.24	259.55	-949.20	1,107.09	1,095.01	12.07	91.699		
1,300.00	1,285.62	1,225.16	1,224.13	7.17	6.22	-152.07	251.81	-951.95	1,126.18	1,113.40	12.78	88.106		
1,400.00	1,383.61	1,308.15	1,306.39	7.71	6.54	-153.01	241.66	-956.12	1,146.74	1,133.23	13.51	84.894		
1,500.00	1,481.60	1,425.28	1,421.96	8.25	7.03	-154.47	223.72	-962.49	1,167.78	1,153.36	14.41	81.013		
1,600.00	1,579.60	1,543.54	1,538.34	8.80	7.56	-155.99	203.06	-966.01	1,186.55	1,171.18	15.36	77.239		
1,700.00	1,677.59	1,631.20	1,624.23	9.36	7.97	-157.17	185.72	-968.69	1,205.82	1,189.64	16.18	74.515		
1,800.00	1,775.59	1,754.66	1,744.21	9.92	8.60	-158.99	156.88	-972.26	1,225.49	1,208.26	17.23	71.122		
1,900.00	1,873.58	1,881.77	1,866.77	10.49	9.28	-160.96	123.25	-971.91	1,242.59	1,224.24	18.34	67.746		
2,000.00	1,971.57	1,975.84	1,956.65	11.06	9.84	-162.51	95.54	-970.59	1,259.49	1,240.18	19.31	65.221		
2,100.00	2,069.57	2,061.36	2,037.53	11.64	10.38	-164.00	67.78	-969.50	1,277.52	1,257.27	20.25	63.080		
2,200.00	2,167.56	2,133.00	2,104.49	12.22	10.86	-165.31	42.32	-968.92	1,297.25	1,276.14	21.12	61.433		
2,300.00	2,265.56	2,194.59	2,161.42	12.80	11.31	-166.49	18.81	-969.39	1,319.82	1,297.90	21.92	60.215		
2,400.00	2,363.55	2,260.01	2,221.21	13.38	11.81	-167.77	-7.63	-971.44	1,345.76	1,323.02	22.75	59.159		
2,500.00	2,461.54	2,344.01	2,297.35	13.97	12.48	-169.43	-43.00	-974.50	1,373.77	1,350.01	23.76	57.819		
2,600.00	2,559.54	2,425.52	2,371.00	14.55	13.16	-171.02	-77.80	-977.17	1,402.91	1,378.15	24.76	56.665		
2,700.00	2,657.53	2,488.06	2,427.50	15.14	13.69	-172.19	-104.47	-980.03	1,434.40	1,408.84	25.56	56.127		
2,800.00	2,755.53	2,566.58	2,498.43	15.73	14.37	-173.61	-137.86	-984.44	1,467.93	1,441.42	26.52	55.354		
2,900.00	2,853.52	2,644.21	2,568.53	16.32	15.05	-174.96	-170.87	-989.17	1,502.96	1,475.49	27.47	54.714		
3,000.00	2,951.52	2,713.85	2,631.31	16.91	15.67	-176.14	-200.65	-993.84	1,539.59	1,511.26	28.33	54.353		
3,100.00	3,049.51	2,793.14	2,702.52	17.51	16.39	-177.44	-235.00	-999.79	1,577.95	1,548.66	29.29	53.873		
3,200.00	3,147.50	2,887.82	2,787.78	18.10	17.26	-178.92	-275.58	-1,006.65	1,616.89	1,586.45	30.44	53.119		
3,300.00	3,245.50	2,980.18	2,871.21	18.70	18.11	-179.72	-314.72	-1,012.95	1,656.14	1,624.57	31.56	52.475		
3,400.00	3,343.49	3,079.11	2,960.56	19.29	19.02	-178.31	-356.72	-1,019.11	1,695.71	1,662.94	32.76	51.761		
3,500.00	3,441.49	3,207.62	3,077.90	19.89	20.18	-176.65	-408.67	-1,026.01	1,734.60	1,700.29	34.30	50.564		
3,600.00	3,539.48	3,285.17	3,148.73	20.48	20.89	-175.69	-440.06	-1,029.42	1,773.28	1,738.04	35.24	50.323		
3,700.00	3,637.47	3,386.01	3,241.12	21.08	21.80	-174.50	-480.22	-1,033.80	1,812.25	1,775.80	36.45	49.721		
3,800.00	3,735.47	3,477.79	3,325.48	21.68	22.62	-173.49	-516.19	-1,037.42	1,851.17	1,813.63	37.54	49.311		
3,900.00	3,833.46	3,552.82	3,394.28	22.27	23.30	-172.67	-545.97	-1,040.47	1,890.88	1,852.44	38.43	49.197		
4,000.00	3,931.46	3,657.37	3,490.37	22.87	24.24	-171.59	-586.96	-1,044.64	1,930.76	1,891.07	39.68	48.655		
4,100.00	4,029.45	3,729.00	3,556.35	23.47	24.89	-170.89	-614.68	-1,047.51	1,970.91	1,930.39	40.53	48.633		
4,200.00	4,127.44	3,785.20	3,607.91	24.07	25.40	-170.36	-636.86	-1,050.24	2,012.51	1,971.33	41.18	48.876		
4,300.00	4,225.44	3,848.50	3,665.53	24.67	25.99	-169.75	-662.81	-1,054.12	2,055.99	2,014.08	41.91	49.059		
4,400.00	4,323.43	3,938.18	3,746.75	25.27	26.85	-168.88	-700.49	-1,059.12	2,099.98	2,056.99	42.99	48.848		
4,507.81	4,429.08	4,036.24	3,835.30	25.92	27.80	-167.95	-742.32	-1,064.08	2,147.75	2,103.57	44.18	48.612		
4,600.00	4,519.70	4,127.48	3,917.70	26.45	28.68	-167.29	-781.31	-1,068.02	2,187.15	2,141.86	45.29	48.293		
4,700.00	4,618.56	4,260.60	4,038.73	26.98	29.95	-166.33	-836.47	-1,073.44	2,226.58	2,179.67	46.90	47.471		
4,800.00	4,717.88	4,334.78	4,106.39	27.46	30.65	-165.89	-866.76	-1,075.87	2,262.18	2,214.44	47.74	47.384		
4,900.00	4,817.54	4,440.58	4,202.67	27.89	31.65	-165.16	-910.51	-1,079.15	2,295.15	2,246.19	48.96	46.874		
5,000.00	4,917.43	4,520.90	4,276.10	28.28	32.41	-164.67	-942.91	-1,081.95	2,325.02	2,275.19	49.83	46.657		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,600.87	4,349.55	28.57	33.14	-122.67	-974.34	-1,085.55	2,347.69	2,297.00	50.69	46.315		
5,100.00	5,017.42	4,618.48	4,365.79	28.62	33.31	-122.80	-981.11	-1,086.42	2,352.24	2,301.36	50.88	46.234		
5,200.00	5,117.42	4,727.03	4,466.48	28.95	34.27	-123.56	-1,021.16	-1,092.79	2,378.38	2,326.36	52.02	45.723		
5,300.00	5,217.42	4,902.76	4,631.68	29.28	35.73	-124.63	-1,080.21	-1,102.56	2,402.47	2,348.57	53.89	44.577		
5,400.00	5,317.42	5,042.97	4,764.83	29.62	36.83	-125.41	-1,123.69	-1,108.80	2,424.48	2,369.18	55.30	43.840		
5,500.00	5,417.42	5,182.10	4,897.87	29.96	37.88	-126.12	-1,164.07	-1,114.05	2,444.98	2,388.32	56.66	43.155		
5,600.00	5,517.42	5,339.37	5,049.65	30.29	38.99	-126.82	-1,204.78	-1,119.97	2,463.79	2,405.67	58.12	42.390		
5,700.00	5,617.42	5,502.80	5,208.95	30.64	40.03	-127.42	-1,240.85	-1,125.49	2,479.99	2,420.45	59.55	41.649		
5,800.00	5,717.42	5,669.96	5,373.34	30.98	40.97	-127.89	-1,270.54	-1,130.99	2,493.49	2,432.60	60.89	40.951		
5,900.00	5,817.42	5,871.57	5,573.05	31.33	41.96	-128.30	-1,297.53	-1,136.30	2,503.94	2,441.60	62.33	40.169		
6,000.00	5,917.42	6,014.44	5,715.23	31.68	42.57	-128.52	-1,311.28	-1,138.20	2,510.81	2,447.47	63.34	39.640		
6,100.00	6,017.42	6,120.46	5,820.83	32.03	43.01	-128.67	-1,320.73	-1,139.53	2,517.36	2,453.22	64.15	39.245		
6,200.00	6,117.42	6,208.68	5,908.73	32.38	43.37	-128.78	-1,327.95	-1,141.06	2,523.86	2,459.00	64.86	38.914		
6,300.00	6,217.42	6,298.94	5,998.68	32.74	43.74	-128.87	-1,335.04	-1,143.48	2,530.87	2,465.30	65.57	38.595		
6,400.00	6,317.42	6,441.62	6,141.00	33.09	44.28	-128.96	-1,344.01	-1,148.07	2,537.38	2,470.86	66.52	38.144		
6,476.01	6,393.43	6,555.99	6,255.23	33.37	44.67	-128.99	-1,348.60	-1,151.30	2,540.97	2,473.73	67.23	37.794		
6,500.00	6,417.42	6,591.61	6,290.83	33.45	44.78	-36.64	-1,349.52	-1,152.29	2,541.50	2,474.06	67.45	37.683		
6,550.00	6,467.25	6,652.73	6,351.91	33.59	44.96	-36.77	-1,350.50	-1,154.11	2,540.09	2,472.29	67.80	37.466		
6,600.00	6,516.64	6,713.83	6,412.97	33.71	45.13	-37.14	-1,350.77	-1,156.13	2,535.30	2,467.18	68.12	37.219		
6,650.00	6,565.26	6,773.72	6,472.82	33.80	45.29	-37.75	-1,350.40	-1,158.31	2,527.20	2,458.79	68.41	36.943		
6,700.00	6,612.83	6,832.80	6,531.85	33.88	45.43	-38.61	-1,349.52	-1,160.53	2,515.86	2,447.19	68.66	36.640		
6,750.00	6,659.04	6,909.69	6,608.67	33.94	45.61	-39.85	-1,347.60	-1,163.33	2,501.26	2,432.32	68.94	36.284		
6,800.00	6,703.62	6,969.84	6,668.76	33.99	45.75	-41.34	-1,345.51	-1,165.13	2,483.31	2,414.17	69.14	35.916		
6,850.00	6,746.28	7,014.01	6,712.91	34.03	45.85	-43.07	-1,344.41	-1,165.99	2,462.64	2,393.35	69.29	35.539		
6,900.00	6,786.76	7,051.11	6,750.00	34.08	45.95	-45.09	-1,343.90	-1,166.37	2,439.51	2,370.09	69.42	35.140		
6,950.00	6,824.83	7,083.28	6,782.17	34.13	46.03	-47.41	-1,343.88	-1,166.43	2,414.19	2,344.66	69.53	34.721		
7,000.00	6,860.23	7,112.82	6,811.70	34.20	46.12	-50.07	-1,344.23	-1,166.26	2,386.89	2,317.27	69.62	34.283		
7,050.00	6,892.75	7,145.53	6,844.41	34.30	46.21	-53.19	-1,344.84	-1,165.93	2,357.80	2,288.07	69.73	33.814		
7,100.00	6,922.20	7,176.77	6,875.64	34.43	46.31	-56.71	-1,345.35	-1,165.66	2,327.08	2,257.25	69.83	33.324		
7,150.00	6,948.38	7,204.60	6,903.47	34.60	46.40	-60.59	-1,345.73	-1,165.44	2,294.98	2,225.05	69.94	32.815		
7,200.00	6,971.15	7,222.72	6,921.59	34.82	46.45	-64.62	-1,345.59	-1,165.35	2,261.80	2,191.77	70.03	32.298		
7,250.00	6,990.35	7,237.43	6,936.29	35.09	46.49	-68.88	-1,346.09	-1,165.34	2,227.83	2,157.70	70.13	31.766		
7,300.00	7,005.87	7,249.58	6,948.44	35.43	46.53	-73.33	-1,346.19	-1,165.38	2,193.32	2,123.06	70.26	31.217		
7,350.00	7,017.62	7,259.02	6,957.89	35.81	46.56	-77.88	-1,346.26	-1,165.44	2,158.53	2,088.11	70.41	30.655		
7,400.00	7,025.52	7,265.63	6,964.49	36.26	46.58	-82.42	-1,346.31	-1,165.50	2,123.70	2,053.10	70.60	30.082		
7,450.00	7,029.52	7,269.25	6,968.11	36.75	46.59	-86.85	-1,346.33	-1,165.54	2,089.08	2,018.27	70.81	29.501		
7,483.86	7,030.00	7,269.95	6,968.81	37.12	46.59	-89.74	-1,346.33	-1,165.55	2,065.90	1,994.92	70.98	29.105		
7,500.00	7,029.80	7,269.93	6,968.80	37.30	46.59	-89.74	-1,346.33	-1,165.55	2,054.94	1,983.88	71.07	28.916		
7,600.00	7,028.57	7,269.85	6,968.71	38.58	46.59	-89.74	-1,346.33	-1,165.55	1,988.64	1,916.90	71.74	27.720		
7,700.00	7,027.34	7,269.75	6,968.62	40.10	46.59	-89.73	-1,346.33	-1,165.55	1,925.26	1,852.59	72.67	26.495		
7,800.00	7,026.10	7,269.66	6,968.52	41.83	46.59	-89.73	-1,346.33	-1,165.54	1,865.08	1,791.22	73.86	25.252		
7,900.00	7,024.87	7,269.56	6,968.42	43.74	46.59	-89.73	-1,346.33	-1,165.54	1,808.43	1,733.11	75.33	24.008		
8,000.00	7,023.63	7,269.45	6,968.32	45.82	46.59	-89.72	-1,346.33	-1,165.54	1,755.66	1,678.59	77.08	22.778		
8,100.00	7,022.40	7,269.34	6,968.21	48.04	46.59	-89.72	-1,346.33	-1,165.54	1,707.12	1,628.02	79.10	21.582		
8,200.00	7,021.17	7,269.22	6,968.09	50.38	46.59	-89.71	-1,346.33	-1,165.54	1,663.18	1,581.79	81.39	20.435		
8,300.00	7,019.93	7,269.10	6,967.97	52.82	46.59	-89.71	-1,346.33	-1,165.54	1,624.22	1,540.29	83.93	19.353		
8,400.00	7,018.70	7,268.97	6,967.83	55.35	46.59	-89.70	-1,346.33	-1,165.54	1,590.60	1,503.91	86.69	18.349		
8,500.00	7,017.47	7,268.83	6,967.69	57.97	46.59	-89.70	-1,346.33	-1,165.54	1,562.66	1,473.02	89.64	17.433		
8,600.00	7,016.23	7,268.68	6,967.55	60.65	46.59	-89.69	-1,346.33	-1,165.53	1,540.72	1,447.98	92.74	16.613		
8,700.00	7,015.00	7,268.52	6,967.39	63.39	46.58	-89.69	-1,346.33	-1,165.53	1,525.03	1,429.10	95.94	15.896		
8,800.00	7,013.76	7,268.36	6,967.22	66.19	46.58	-89.68	-1,346.33	-1,165.53	1,515.80	1,416.62	99.18	15.283		
8,890.44	7,012.65	7,268.19	6,967.06	68.76	46.58	-89.67	-1,346.32	-1,165.53	1,513.10	1,411.00	102.10	14.820		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,268.18	6,967.04	69.03	46.58	-89.67	-1,346.32	-1,165.53	1,513.13	1,410.73	102.40	14.777		
9,000.00	7,011.30	7,267.98	6,966.85	71.91	46.58	-89.67	-1,346.32	-1,165.53	1,517.06	1,411.52	105.54	14.375		
9,100.00	7,010.06	7,267.78	6,966.64	74.83	46.58	-89.66	-1,346.32	-1,165.52	1,527.54	1,419.01	108.53	14.075		
9,200.00	7,008.83	7,267.55	6,966.42	77.78	46.58	-89.65	-1,346.32	-1,165.52	1,544.44	1,433.11	111.33	13.872		
9,300.00	7,007.60	7,267.31	6,966.18	80.76	46.58	-89.64	-1,346.32	-1,165.52	1,567.55	1,453.65	113.90	13.762		
9,400.00	7,006.36	7,267.05	6,965.92	83.76	46.58	-89.63	-1,346.32	-1,165.52	1,596.59	1,480.39	116.20	13.739 SF		
9,500.00	7,005.13	7,266.77	6,965.63	86.79	46.58	-89.62	-1,346.32	-1,165.51	1,631.26	1,513.03	118.23	13.797		
9,600.00	7,003.90	7,266.46	6,965.32	89.84	46.58	-89.61	-1,346.31	-1,165.51	1,671.21	1,551.22	119.98	13.929		
9,700.00	7,002.66	7,266.12	6,964.98	92.90	46.58	-89.60	-1,346.31	-1,165.51	1,716.06	1,594.59	121.46	14.128		
9,800.00	7,001.43	7,265.75	6,964.61	95.99	46.58	-89.58	-1,346.31	-1,165.50	1,765.43	1,642.74	122.69	14.389		
9,900.00	7,000.19	7,265.33	6,964.20	99.08	46.58	-89.57	-1,346.31	-1,165.50	1,818.97	1,695.29	123.68	14.707		
10,000.00	6,998.96	7,264.87	6,963.74	102.19	46.57	-89.55	-1,346.30	-1,165.50	1,876.32	1,751.86	124.47	15.075		
10,100.00	6,997.73	7,264.36	6,963.23	105.32	46.57	-89.53	-1,346.30	-1,165.49	1,937.13	1,812.07	125.06	15.489		
10,200.00	6,996.49	7,263.79	6,962.65	108.45	46.57	-89.51	-1,346.30	-1,165.48	2,001.10	1,875.60	125.50	15.945		
10,300.00	6,995.26	7,263.13	6,962.00	111.60	46.57	-89.48	-1,346.29	-1,165.48	2,067.92	1,942.13	125.79	16.439		
10,400.00	6,994.03	7,262.38	6,961.25	114.75	46.57	-89.45	-1,346.29	-1,165.47	2,137.34	2,011.37	125.97	16.967		
10,500.00	6,992.79	7,261.52	6,960.39	117.92	46.56	-89.42	-1,346.28	-1,165.46	2,209.10	2,083.05	126.05	17.525		
10,600.00	6,991.56	7,260.51	6,959.38	121.09	46.56	-89.38	-1,346.27	-1,165.46	2,282.99	2,156.94	126.05	18.112		
10,700.00	6,990.33	7,259.32	6,958.19	124.27	46.56	-89.34	-1,346.27	-1,165.45	2,358.80	2,232.82	125.98	18.724		
10,800.00	6,989.09	7,257.89	6,956.76	127.46	46.55	-89.28	-1,346.26	-1,165.44	2,436.36	2,310.51	125.85	19.359		
10,900.00	6,987.86	7,256.14	6,955.01	130.65	46.55	-89.22	-1,346.24	-1,165.42	2,515.50	2,389.82	125.68	20.015		
11,000.00	6,986.62	7,253.95	6,952.82	133.85	46.54	-89.14	-1,346.23	-1,165.41	2,596.08	2,470.61	125.48	20.690		
11,100.00	6,985.39	7,251.13	6,950.00	137.06	46.53	-89.03	-1,346.21	-1,165.39	2,677.98	2,552.74	125.24	21.383		
11,200.00	6,984.16	7,247.37	6,946.23	140.27	46.52	-88.89	-1,346.18	-1,165.37	2,761.06	2,636.08	124.98	22.092		
11,300.00	6,982.92	7,242.08	6,940.95	143.48	46.51	-88.69	-1,346.13	-1,165.35	2,845.23	2,720.53	124.70	22.816		
11,400.00	6,981.69	7,234.13	6,932.99	146.70	46.48	-88.38	-1,346.06	-1,165.34	2,930.40	2,805.99	124.41	23.555		
11,500.00	6,980.46	7,229.79	6,919.65	149.92	46.44	-87.88	-1,345.92	-1,165.35	3,016.47	2,892.37	124.09	24.308		
11,600.00	6,979.22	7,206.95	6,905.82	153.15	46.40	-87.36	-1,345.76	-1,165.43	3,103.36	2,979.60	123.77	25.074		
11,700.00	6,977.99	7,204.47	6,903.34	156.38	46.40	-87.26	-1,345.73	-1,165.44	3,191.03	3,067.56	123.47	25.845		
11,800.00	6,976.75	7,201.96	6,900.82	159.62	46.39	-87.17	-1,345.70	-1,165.46	3,279.39	3,156.23	123.17	26.626		
11,900.00	6,975.52	7,199.42	6,898.29	162.86	46.38	-87.07	-1,345.67	-1,165.48	3,368.41	3,245.54	122.87	27.415		
12,000.00	6,974.29	7,196.85	6,895.72	166.10	46.37	-86.97	-1,345.63	-1,165.50	3,458.03	3,335.46	122.57	28.213		
12,100.00	6,973.05	7,194.26	6,893.13	169.34	46.36	-86.88	-1,345.60	-1,165.52	3,548.19	3,425.92	122.27	29.018		
12,200.00	6,971.82	7,191.64	6,890.51	172.59	46.36	-86.78	-1,345.56	-1,165.54	3,638.88	3,516.89	121.99	29.830		
12,300.00	6,970.59	7,189.00	6,887.87	175.84	46.35	-86.68	-1,345.53	-1,165.56	3,730.03	3,608.33	121.70	30.649		
12,400.00	6,969.35	7,186.33	6,885.20	179.09	46.34	-86.58	-1,345.49	-1,165.58	3,821.63	3,700.21	121.42	31.474		
12,500.00	6,968.12	12,500.00	6,942.66	182.35	62.09	-88.75	-1,346.05	-1,165.63	3,913.53	3,776.40	137.13	28.539		
12,600.00	6,966.89	12,600.00	6,942.05	185.60	62.39	-88.73	-1,346.05	-1,165.63	4,005.94	3,868.78	137.16	29.207		
12,700.00	6,965.65	12,700.00	6,941.45	188.86	62.69	-88.71	-1,346.04	-1,165.63	4,098.70	3,961.51	137.19	29.876		
12,800.00	6,964.42	12,800.00	6,940.85	192.12	62.98	-88.68	-1,346.04	-1,165.62	4,191.80	4,054.57	137.23	30.546		
12,900.00	6,963.18	12,900.00	6,940.25	195.38	63.28	-88.66	-1,346.03	-1,165.62	4,285.21	4,147.93	137.28	31.216		
13,000.00	6,961.95	13,000.00	6,939.64	198.65	63.58	-88.64	-1,346.03	-1,165.62	4,378.91	4,241.58	137.33	31.886		
13,100.00	6,960.72	7,166.80	6,865.67	201.91	46.28	-85.84	-1,345.20	-1,165.74	4,472.87	4,353.21	119.65	37.382		
13,200.00	6,959.48	7,163.89	6,862.76	205.18	46.27	-85.73	-1,345.15	-1,165.77	4,567.07	4,447.65	119.43	38.242		
13,300.00	6,958.25	7,160.94	6,859.82	208.45	46.26	-85.62	-1,345.11	-1,165.79	4,661.52	4,542.31	119.21	39.104		
13,400.00	6,957.02	7,157.96	6,856.84	211.72	46.25	-85.51	-1,345.06	-1,165.82	4,756.19	4,637.20	118.99	39.970		
13,500.00	6,955.78	7,154.96	6,853.83	214.99	46.24	-85.39	-1,345.01	-1,165.85	4,851.08	4,732.29	118.79	40.838		
13,600.00	6,954.55	7,151.91	6,850.79	218.27	46.23	-85.28	-1,344.96	-1,165.87	4,946.16	4,827.57	118.59	41.709		
13,700.00	6,953.32	7,148.83	6,847.71	221.54	46.22	-85.16	-1,344.90	-1,165.90	5,041.44	4,923.04	118.39	42.582		
13,800.00	6,952.08	7,145.72	6,844.60	224.82	46.21	-85.05	-1,344.85	-1,165.93	5,136.89	5,018.68	118.21	43.457		
13,900.00	6,950.85	7,142.57	6,841.45	228.10	46.21	-84.93	-1,344.79	-1,165.96	5,232.51	5,114.49	118.02	44.335		
14,000.00	6,949.61	7,139.39	6,838.27	231.37	46.20	-84.81	-1,344.73	-1,165.99	5,328.29	5,210.44	117.85	45.214		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,100.00	6,948.38	7,136.17	6,835.05	234.65	46.19	-84.69	-1,344.67	-1,166.02	5,424.22	5,306.55	117.68	46.095		
14,200.00	6,947.15	7,132.91	6,831.79	237.93	46.18	-84.56	-1,344.61	-1,166.06	5,520.30	5,402.79	117.51	46.977		
14,300.00	6,945.91	7,129.61	6,828.49	241.22	46.17	-84.44	-1,344.55	-1,166.09	5,616.51	5,499.16	117.35	47.861		
14,400.00	6,944.68	7,126.28	6,825.16	244.50	46.16	-84.31	-1,344.49	-1,166.12	5,712.85	5,595.65	117.20	48.746		
14,500.00	6,943.45	7,122.90	6,821.78	247.78	46.14	-84.19	-1,344.42	-1,166.16	5,809.31	5,692.26	117.05	49.633		
14,600.00	6,942.21	7,119.49	6,818.37	251.07	46.13	-84.06	-1,344.35	-1,166.20	5,905.89	5,788.99	116.90	50.520		
14,700.00	6,940.98	7,119.00	6,817.88	254.35	46.13	-84.04	-1,344.34	-1,166.20	6,002.58	5,885.81	116.77	51.405		
14,800.00	6,939.74	7,119.00	6,817.88	257.64	46.13	-84.04	-1,344.34	-1,166.20	6,099.37	5,982.73	116.64	52.291		
14,900.00	6,938.51	7,119.00	6,817.88	260.92	46.13	-84.04	-1,344.34	-1,166.20	6,196.27	6,079.75	116.52	53.177		
15,000.00	6,937.28	7,119.00	6,817.88	264.21	46.13	-84.04	-1,344.34	-1,166.20	6,293.27	6,176.86	116.40	54.064		
15,100.00	6,936.04	7,119.00	6,817.88	267.50	46.13	-84.04	-1,344.34	-1,166.20	6,390.36	6,274.06	116.29	54.951		
15,200.00	6,934.81	7,119.00	6,817.88	270.79	46.13	-84.04	-1,344.34	-1,166.20	6,487.53	6,371.35	116.18	55.839		
15,300.00	6,933.58	7,119.00	6,817.88	274.08	46.13	-84.04	-1,344.34	-1,166.20	6,584.79	6,468.71	116.08	56.727		
15,400.00	6,932.34	7,119.00	6,817.88	277.37	46.13	-84.04	-1,344.34	-1,166.20	6,682.13	6,566.16	115.98	57.615		
15,500.00	6,931.11	7,119.00	6,817.88	280.66	46.13	-84.04	-1,344.34	-1,166.20	6,779.55	6,663.67	115.88	58.504		
15,589.88	6,930.00	7,119.00	6,817.88	283.62	46.13	-84.04	-1,344.34	-1,166.20	6,867.18	6,751.38	115.80	59.303		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-70.79	333.72	-957.59	1,014.79					
100.00	100.00	59.88	59.88	3.28	3.29	-70.79	333.73	-957.64	1,014.13	1,007.56	6.57	154.295 CC, ES		
200.00	200.00	155.28	155.28	3.34	3.34	-70.79	333.79	-958.06	1,014.56	1,007.88	6.68	151.868		
300.00	299.98	256.99	256.98	3.44	3.45	-143.92	334.82	-958.34	1,016.57	1,009.67	6.90	147.364		
400.00	399.84	348.47	348.41	3.60	3.60	-143.86	337.91	-958.18	1,021.74	1,014.54	7.20	141.881		
500.00	499.45	443.80	443.52	3.81	3.79	-143.69	344.17	-957.52	1,030.29	1,022.69	7.60	135.539		
600.00	598.70	534.88	534.10	4.08	4.01	-143.39	353.57	-956.28	1,042.25	1,034.17	8.08	128.995		
700.00	697.47	624.16	622.49	4.40	4.28	-142.99	366.03	-954.69	1,057.81	1,049.17	8.64	122.488		
774.77	770.92	687.39	684.83	4.68	4.49	-142.64	376.52	-953.60	1,071.95	1,062.86	9.09	117.870		
800.00	795.65	709.22	706.31	4.78	4.57	-142.58	380.42	-953.27	1,077.14	1,067.88	9.26	116.326		
900.00	893.64	802.20	797.67	5.20	4.92	-142.28	397.69	-951.93	1,098.02	1,088.06	9.97	110.156		
1,000.00	991.63	902.47	895.93	5.66	5.35	-141.91	417.54	-950.25	1,119.16	1,108.40	10.76	103.979		
1,100.00	1,089.63	998.99	990.10	6.15	5.80	-141.46	438.56	-947.65	1,140.09	1,128.48	11.61	98.206		
1,200.00	1,187.62	1,089.65	1,077.98	6.65	6.26	-140.92	460.60	-944.63	1,161.46	1,148.97	12.48	93.041		
1,300.00	1,285.62	1,174.40	1,159.52	7.17	6.74	-140.33	483.48	-941.48	1,183.61	1,170.23	13.38	88.494		
1,400.00	1,383.61	1,249.29	1,230.86	7.71	7.19	-139.71	506.10	-938.96	1,207.44	1,193.19	14.24	84.766		
1,500.00	1,481.60	1,340.84	1,317.28	8.25	7.79	-138.86	536.14	-935.73	1,232.40	1,217.12	15.27	80.686		
1,600.00	1,579.60	1,424.88	1,396.27	8.80	8.37	-138.08	564.71	-932.90	1,258.25	1,241.97	16.28	77.295		
1,700.00	1,677.59	1,516.94	1,482.91	9.36	9.02	-137.27	595.72	-930.47	1,284.88	1,267.52	17.36	74.010		
1,800.00	1,775.59	1,614.34	1,574.94	9.92	9.70	-136.50	627.56	-928.35	1,311.71	1,293.21	18.49	70.931		
1,900.00	1,873.58	1,708.81	1,664.47	10.49	10.37	-135.82	657.63	-926.68	1,338.70	1,319.10	19.60	68.292		
2,000.00	1,971.57	1,799.86	1,751.20	11.06	11.01	-135.26	685.33	-925.75	1,365.86	1,345.18	20.68	66.052		
2,100.00	2,069.57	1,882.36	1,829.80	11.64	11.59	-134.79	710.38	-925.81	1,394.02	1,372.34	21.68	64.300		
2,200.00	2,167.56	2,001.45	1,943.29	12.22	12.42	-134.13	746.49	-925.37	1,421.95	1,398.95	23.01	61.809		
2,300.00	2,265.56	2,125.73	2,062.52	12.80	13.28	-133.55	781.49	-923.48	1,447.93	1,423.57	24.36	59.429		
2,400.00	2,363.55	2,226.27	2,159.00	13.38	13.97	-133.08	809.65	-920.82	1,473.01	1,447.48	25.53	57.698		
2,500.00	2,461.54	2,347.67	2,276.03	13.97	14.78	-132.59	841.74	-917.30	1,497.16	1,470.30	26.86	55.746		
2,600.00	2,559.54	2,438.81	2,364.07	14.55	15.38	-132.26	865.03	-914.09	1,520.46	1,492.52	27.93	54.435		
2,700.00	2,657.53	2,520.62	2,442.88	15.14	15.94	-131.94	886.88	-911.89	1,545.01	1,516.07	28.94	53.389		
2,800.00	2,755.53	2,608.30	2,526.87	15.73	16.55	-131.56	911.83	-908.82	1,569.92	1,539.90	30.02	52.301		
2,900.00	2,853.52	2,679.74	2,594.66	16.32	17.08	-131.17	934.25	-906.11	1,596.15	1,565.18	30.97	51.545		
3,000.00	2,951.52	2,751.74	2,662.42	16.91	17.64	-130.75	958.46	-903.59	1,623.92	1,591.99	31.93	50.859		
3,100.00	3,049.51	2,856.69	2,761.56	17.51	18.45	-130.20	992.76	-900.96	1,652.12	1,618.91	33.21	49.740		
3,200.00	3,147.50	2,950.46	2,850.75	18.10	19.14	-129.80	1,021.66	-899.59	1,680.27	1,645.90	34.36	48.895		
3,300.00	3,245.50	3,052.43	2,947.94	18.70	19.89	-129.40	1,052.51	-898.38	1,708.41	1,672.82	35.59	48.009		
3,400.00	3,343.49	3,155.04	3,046.23	19.29	20.62	-129.07	1,081.92	-897.53	1,736.02	1,699.22	36.80	47.178		
3,500.00	3,441.49	3,263.80	3,150.55	19.89	21.39	-128.74	1,112.67	-896.52	1,763.40	1,725.34	38.06	46.327		
3,600.00	3,539.48	3,367.95	3,250.52	20.48	22.12	-128.43	1,141.85	-894.73	1,790.04	1,750.75	39.29	45.563		
3,700.00	3,637.47	3,455.89	3,335.12	21.08	22.73	-128.20	1,165.79	-893.75	1,816.75	1,776.41	40.35	45.029		
3,800.00	3,735.47	3,552.47	3,467.51	21.68	23.62	-127.98	1,199.36	-893.19	1,842.54	1,800.73	41.81	44.067		
3,900.00	3,833.46	3,694.87	3,567.05	22.27	24.27	-127.83	1,223.34	-891.95	1,867.08	1,824.12	42.97	43.455		
4,000.00	3,931.46	3,781.85	3,651.32	22.87	24.84	-127.68	1,244.82	-890.36	1,891.88	1,847.88	44.00	42.998		
4,100.00	4,029.45	3,865.00	3,731.78	23.47	25.38	-127.52	1,265.75	-889.21	1,917.31	1,872.31	44.99	42.613		
4,200.00	4,127.44	3,963.31	3,827.47	24.07	26.00	-127.44	1,288.27	-890.07	1,943.26	1,897.16	46.10	42.156		
4,300.00	4,225.44	4,297.42	4,157.77	24.67	27.65	-127.83	1,335.15	-887.45	1,962.48	1,913.86	48.62	40.363		
4,400.00	4,323.43	4,401.58	4,261.80	25.27	28.02	-128.16	1,339.93	-885.38	1,975.85	1,926.29	49.55	39.872		
4,507.81	4,429.08	4,517.45	4,377.64	25.92	28.39	-128.63	1,342.43	-885.48	1,990.78	1,940.24	50.53	39.397		
4,600.00	4,519.70	4,607.33	4,467.52	26.45	28.65	-129.18	1,342.55	-886.03	2,002.05	1,950.76	51.29	39.033		
4,700.00	4,618.56	4,708.11	4,568.27	26.98	28.92	-129.73	1,341.46	-887.57	2,012.36	1,960.29	52.07	38.648		
4,800.00	4,717.88	4,813.43	4,673.55	27.46	29.20	-130.20	1,339.14	-889.70	2,020.33	1,967.51	52.82	38.248		
4,900.00	4,817.54	4,916.87	4,776.96	27.89	29.47	-130.53	1,337.32	-891.04	2,025.73	1,972.19	53.54	37.836		
5,000.00	4,917.43	5,009.76	4,869.84	28.28	29.73	-130.72	1,336.08	-892.16	2,029.04	1,974.84	54.20	37.435		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,088.85	4,948.92	28.57	29.96	-57.65	1,335.27	-893.20	2,030.29	1,975.55	54.74	37.091		
5,100.00	5,017.42	5,105.61	4,965.68	28.62	30.01	-57.66	1,335.14	-893.42	2,030.40	1,975.55	54.85	37.018		
5,200.00	5,117.42	5,198.24	5,058.29	28.95	30.28	-57.69	1,334.62	-894.63	2,031.22	1,975.73	55.48	36.611		
5,300.00	5,217.42	5,287.06	5,147.11	29.28	30.55	-57.71	1,334.60	-896.02	2,032.53	1,976.42	56.11	36.226		
5,400.00	5,317.42	5,380.92	5,240.95	29.62	30.85	-57.73	1,334.96	-897.73	2,034.27	1,977.51	56.76	35.838		
5,500.00	5,417.42	5,481.45	5,341.46	29.96	31.17	-57.74	1,335.53	-899.69	2,036.22	1,978.77	57.45	35.443		
5,600.00	5,517.42	5,582.77	5,442.76	30.29	31.49	-57.76	1,336.04	-901.48	2,037.98	1,979.84	58.15	35.050		
5,700.00	5,617.42	5,674.61	5,534.58	30.64	31.79	-57.78	1,336.30	-903.48	2,039.98	1,981.18	58.80	34.691		
5,800.00	5,717.42	5,771.14	5,631.07	30.98	32.10	-57.81	1,336.64	-905.90	2,042.28	1,982.80	59.49	34.331		
5,900.00	5,817.42	5,865.55	5,725.46	31.33	32.42	-57.82	1,337.59	-908.04	2,044.74	1,984.57	60.17	33.983		
6,000.00	5,917.42	5,956.08	5,815.95	31.68	32.73	-57.83	1,338.73	-910.39	2,047.61	1,986.77	60.84	33.655		
6,100.00	6,017.42	6,096.16	5,955.99	32.03	33.21	-57.83	1,340.29	-912.98	2,049.79	1,988.06	61.73	33.206		
6,200.00	6,117.42	6,187.26	6,047.08	32.38	33.52	-57.82	1,341.16	-913.94	2,051.18	1,988.75	62.42	32.860		
6,300.00	6,217.42	6,276.12	6,135.94	32.74	33.83	-57.82	1,342.18	-915.19	2,052.99	1,989.88	63.11	32.532		
6,400.00	6,317.42	6,363.13	6,222.92	33.09	34.14	-57.81	1,343.63	-916.80	2,055.44	1,991.65	63.78	32.225		
6,476.01	6,393.43	6,437.23	6,296.99	33.37	34.41	-57.80	1,345.08	-918.33	2,057.56	1,993.22	64.34	31.979		
6,500.00	6,417.42	6,460.62	6,320.37	33.45	34.49	34.53	1,345.55	-918.82	2,057.87	1,993.36	64.51	31.900		
6,550.00	6,467.25	6,520.78	6,380.50	33.59	34.71	34.71	1,346.72	-920.04	2,056.09	1,991.19	64.90	31.681		
6,600.00	6,516.64	6,595.04	6,454.75	33.71	34.97	35.18	1,347.58	-921.05	2,050.60	1,985.28	65.33	31.390		
6,650.00	6,565.26	6,662.12	6,521.83	33.80	35.21	35.93	1,347.83	-921.43	2,041.41	1,975.71	65.70	31.074		
6,700.00	6,612.83	6,723.70	6,583.40	33.88	35.42	36.96	1,347.96	-921.29	2,028.79	1,962.77	66.02	30.730		
6,750.00	6,659.04	6,783.15	6,642.86	33.94	35.62	38.31	1,348.02	-920.71	2,012.90	1,946.58	66.32	30.354		
6,800.00	6,703.62	6,818.28	6,677.98	33.99	35.74	39.77	1,348.09	-920.43	1,994.25	1,927.74	66.51	29.983		
6,850.00	6,746.28	6,858.19	6,717.89	34.03	35.88	41.59	1,348.17	-920.11	1,972.97	1,906.26	66.71	29.574		
6,900.00	6,786.76	6,896.29	6,755.99	34.08	36.01	43.74	1,348.27	-919.85	1,949.26	1,882.36	66.90	29.139		
6,950.00	6,824.83	6,934.12	6,793.82	34.13	36.14	46.28	1,348.37	-919.61	1,923.29	1,856.22	67.07	28.676		
7,000.00	6,860.23	6,969.27	6,828.97	34.20	36.26	49.21	1,348.47	-919.38	1,895.27	1,828.04	67.23	28.190		
7,050.00	6,892.75	7,001.53	6,861.22	34.30	36.37	52.53	1,348.56	-919.18	1,865.43	1,798.05	67.38	27.684		
7,100.00	6,922.20	7,030.69	6,890.39	34.43	36.47	56.25	1,348.64	-918.99	1,834.04	1,766.51	67.53	27.159		
7,150.00	6,948.38	7,053.50	6,913.20	34.60	36.55	60.24	1,348.72	-918.86	1,801.39	1,733.72	67.67	26.620		
7,200.00	6,971.15	7,073.57	6,933.26	34.82	36.62	64.55	1,348.79	-918.78	1,767.76	1,699.94	67.82	26.065		
7,250.00	6,990.35	7,090.56	6,950.26	35.09	36.68	69.10	1,348.87	-918.74	1,733.44	1,665.45	67.99	25.497		
7,300.00	7,005.87	7,104.35	6,964.04	35.43	36.73	73.80	1,348.93	-918.71	1,698.71	1,630.53	68.17	24.918		
7,350.00	7,017.62	7,114.82	6,974.52	35.81	36.77	78.52	1,348.98	-918.70	1,663.85	1,595.46	68.38	24.331		
7,400.00	7,025.52	7,121.90	6,981.59	36.26	36.79	83.13	1,349.02	-918.70	1,629.15	1,560.52	68.63	23.740		
7,450.00	7,029.52	7,125.49	6,985.19	36.75	36.81	87.52	1,349.04	-918.70	1,594.89	1,525.99	68.90	23.148		
7,483.86	7,030.00	7,125.93	6,985.62	37.12	36.81	90.32	1,349.04	-918.70	1,572.08	1,502.97	69.11	22.748		
7,500.00	7,029.80	7,125.74	6,985.44	37.30	36.81	90.31	1,349.04	-918.70	1,561.35	1,492.13	69.21	22.558		
7,600.00	7,028.57	7,124.61	6,984.31	38.58	36.80	90.26	1,349.04	-918.70	1,497.01	1,426.97	70.04	21.375		
7,700.00	7,027.34	7,123.46	6,983.16	40.10	36.80	90.20	1,349.03	-918.70	1,436.76	1,365.60	71.15	20.193		
7,800.00	7,026.10	7,122.30	6,982.00	41.83	36.79	90.14	1,349.02	-918.70	1,381.12	1,308.54	72.58	19.029		
7,900.00	7,024.87	7,121.13	6,980.82	43.74	36.79	90.09	1,349.02	-918.70	1,330.68	1,256.35	74.32	17.904		
8,000.00	7,023.63	7,119.94	6,979.63	45.82	36.79	90.03	1,349.01	-918.70	1,286.05	1,209.68	76.37	16.839		
8,100.00	7,022.40	7,118.73	6,978.43	48.04	36.78	89.97	1,349.00	-918.70	1,247.85	1,169.16	78.69	15.857		
8,200.00	7,021.17	7,117.51	6,977.21	50.38	36.78	89.91	1,349.00	-918.70	1,216.69	1,135.47	81.23	14.979		
8,300.00	7,019.93	7,116.28	6,975.97	52.82	36.77	89.85	1,348.99	-918.70	1,193.13	1,109.23	83.90	14.221		
8,400.00	7,018.70	7,115.03	6,974.72	55.35	36.77	89.79	1,348.98	-918.70	1,177.61	1,090.97	86.63	13.593		
8,500.00	7,017.47	7,113.76	6,973.45	57.97	36.76	89.73	1,348.98	-918.70	1,170.45	1,081.12	89.33	13.102		
8,534.01	7,017.05	7,113.32	6,973.02	58.88	36.76	89.70	1,348.98	-918.70	1,169.96	1,079.73	90.23	12.966		
8,600.00	7,016.23	7,112.48	6,972.17	60.65	36.76	89.66	1,348.97	-918.70	1,171.82	1,079.91	91.90	12.750		
8,700.00	7,015.00	7,111.18	6,970.87	63.39	36.75	89.60	1,348.96	-918.70	1,181.67	1,087.39	94.28	12.534		
8,800.00	7,013.76	7,109.86	6,969.56	66.19	36.75	89.54	1,348.96	-918.70	1,199.81	1,103.42	96.39	12.447 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,108.53	6,968.22	69.03	36.75	89.47	1,348.95	-918.71	1,225.86	1,127.64	98.21	12.482		
9,000.00	7,011.30	7,107.18	6,966.87	71.91	36.74	89.40	1,348.94	-918.71	1,259.33	1,159.61	99.72	12.628		
9,100.00	7,010.06	7,105.81	6,965.50	74.83	36.74	89.34	1,348.94	-918.71	1,299.65	1,198.72	100.93	12.877		
9,200.00	7,008.83	7,104.42	6,964.12	77.78	36.73	89.27	1,348.93	-918.71	1,346.20	1,244.34	101.86	13.216		
9,300.00	7,007.60	7,103.02	6,962.71	80.76	36.73	89.20	1,348.92	-918.71	1,398.37	1,295.83	102.54	13.638		
9,400.00	7,006.36	7,101.59	6,961.29	83.76	36.72	89.13	1,348.92	-918.71	1,455.54	1,352.54	103.00	14.132		
9,500.00	7,005.13	7,100.15	6,959.84	86.79	36.72	89.06	1,348.91	-918.72	1,517.16	1,413.88	103.28	14.690		
9,600.00	7,003.90	7,098.68	6,958.38	89.84	36.71	88.99	1,348.90	-918.72	1,582.69	1,479.29	103.41	15.305		
9,700.00	7,002.66	7,097.20	6,956.89	92.90	36.71	88.92	1,348.90	-918.72	1,651.69	1,548.27	103.42	15.970		
9,800.00	7,001.43	7,095.69	6,955.39	95.99	36.70	88.84	1,348.89	-918.72	1,723.73	1,620.38	103.34	16.680		
9,900.00	7,000.19	7,094.17	6,953.86	99.08	36.69	88.77	1,348.88	-918.73	1,798.44	1,695.24	103.19	17.428		
10,000.00	6,998.96	7,092.62	6,952.32	102.19	36.69	88.69	1,348.87	-918.73	1,875.50	1,772.51	102.99	18.211		
10,100.00	6,997.73	7,091.05	6,950.75	105.32	36.68	88.61	1,348.87	-918.73	1,954.65	1,851.90	102.75	19.024		
10,200.00	6,996.49	7,089.46	6,949.16	108.45	36.68	88.54	1,348.86	-918.74	2,035.63	1,933.15	102.48	19.864		
10,300.00	6,995.26	7,087.85	6,947.54	111.60	36.67	88.46	1,348.85	-918.74	2,118.23	2,016.04	102.19	20.728		
10,400.00	6,994.03	7,086.21	6,945.91	114.75	36.67	88.38	1,348.85	-918.75	2,202.28	2,100.39	101.89	21.614		
10,500.00	6,992.79	7,084.55	6,944.24	117.92	36.66	88.30	1,348.84	-918.75	2,287.61	2,186.02	101.59	22.518		
10,600.00	6,991.56	7,082.86	6,942.56	121.09	36.65	88.21	1,348.83	-918.75	2,374.08	2,272.80	101.28	23.440		
10,700.00	6,990.33	7,081.15	6,940.85	124.27	36.65	88.13	1,348.82	-918.76	2,461.58	2,360.60	100.98	24.377		
10,800.00	6,989.09	7,079.42	6,939.11	127.46	36.64	88.04	1,348.82	-918.76	2,550.00	2,449.32	100.68	25.328		
10,900.00	6,987.86	7,077.65	6,937.35	130.65	36.64	87.96	1,348.81	-918.77	2,639.24	2,538.85	100.39	26.291		
11,000.00	6,986.62	7,075.87	6,935.56	133.85	36.63	87.87	1,348.80	-918.78	2,729.23	2,629.13	100.10	27.265		
11,100.00	6,985.39	7,074.05	6,933.74	137.06	36.62	87.78	1,348.79	-918.78	2,819.89	2,720.06	99.82	28.249		
11,200.00	6,984.16	7,072.20	6,931.90	140.27	36.62	87.69	1,348.79	-918.79	2,911.16	2,811.60	99.55	29.242		
11,300.00	6,982.92	7,070.33	6,930.03	143.48	36.61	87.60	1,348.78	-918.79	3,002.98	2,903.69	99.29	30.244		
11,400.00	6,981.69	7,068.43	6,928.13	146.70	36.60	87.51	1,348.77	-918.80	3,095.32	2,996.27	99.04	31.253		
11,500.00	6,980.46	7,066.50	6,926.19	149.92	36.60	87.41	1,348.76	-918.81	3,188.11	3,089.31	98.80	32.268		
11,600.00	6,979.22	7,064.54	6,924.23	153.15	36.59	87.32	1,348.76	-918.82	3,281.33	3,182.76	98.57	33.290		
11,700.00	6,977.99	7,062.54	6,922.24	156.38	36.58	87.22	1,348.75	-918.82	3,374.93	3,276.58	98.35	34.317		
11,800.00	6,976.75	7,060.52	6,920.21	159.62	36.58	87.12	1,348.74	-918.83	3,468.89	3,370.76	98.13	35.349		
11,900.00	6,975.52	7,058.46	6,918.15	162.86	36.57	87.02	1,348.73	-918.84	3,563.18	3,465.25	97.93	36.386		
12,000.00	6,974.29	7,056.37	6,916.06	166.10	36.56	86.92	1,348.73	-918.85	3,657.77	3,560.03	97.73	37.426		
12,100.00	6,973.05	7,054.24	6,913.93	169.34	36.55	86.81	1,348.72	-918.86	3,752.64	3,655.09	97.54	38.471		
12,200.00	6,971.82	7,052.08	6,911.77	172.59	36.55	86.71	1,348.71	-918.87	3,847.76	3,750.40	97.37	39.519		
12,300.00	6,970.59	7,049.88	6,909.57	175.84	36.54	86.60	1,348.70	-918.88	3,943.13	3,845.94	97.19	40.570		
12,400.00	6,969.35	7,047.64	6,907.34	179.09	36.53	86.49	1,348.70	-918.89	4,038.72	3,941.70	97.03	41.624		
12,500.00	6,968.12	7,045.37	6,905.06	182.35	36.52	86.38	1,348.69	-918.91	4,134.52	4,037.65	96.87	42.680		
12,600.00	6,966.89	7,043.05	6,902.75	185.60	36.51	86.27	1,348.68	-918.92	4,230.52	4,133.79	96.72	43.739		
12,700.00	6,965.65	7,040.70	6,900.40	188.86	36.51	86.15	1,348.67	-918.93	4,326.69	4,230.11	96.58	44.800		
12,800.00	6,964.42	7,038.31	6,898.00	192.12	36.50	86.04	1,348.67	-918.94	4,423.03	4,326.59	96.44	45.862		
12,900.00	6,963.18	7,035.87	6,895.57	195.38	36.49	85.92	1,348.66	-918.96	4,519.53	4,423.22	96.31	46.926		
13,000.00	6,961.95	7,033.39	6,893.09	198.65	36.48	85.80	1,348.65	-918.97	4,616.18	4,519.99	96.19	47.992		
13,100.00	6,960.72	7,030.87	6,890.56	201.91	36.47	85.67	1,348.64	-918.99	4,712.97	4,616.90	96.07	49.059		
13,200.00	6,959.48	7,028.49	6,888.18	205.18	36.46	85.56	1,348.64	-919.00	4,809.88	4,713.93	95.95	50.127		
13,300.00	6,958.25	7,026.60	6,886.30	208.45	36.46	85.47	1,348.63	-919.02	4,906.92	4,811.08	95.85	51.195		
13,400.00	6,957.02	7,024.72	6,884.42	211.72	36.45	85.37	1,348.63	-919.03	5,004.08	4,908.33	95.75	52.265		
13,500.00	6,955.78	7,022.84	6,882.53	214.99	36.44	85.28	1,348.62	-919.04	5,101.34	5,005.70	95.65	53.334		
13,600.00	6,954.55	7,020.95	6,880.65	218.27	36.44	85.19	1,348.62	-919.05	5,198.71	5,103.16	95.56	54.405		
13,700.00	6,953.32	7,019.07	6,878.76	221.54	36.43	85.10	1,348.61	-919.06	5,296.18	5,200.71	95.47	55.475		
13,800.00	6,952.08	7,017.18	6,876.88	224.82	36.42	85.01	1,348.61	-919.08	5,393.74	5,298.35	95.39	56.546		
13,900.00	6,950.85	7,015.30	6,875.00	228.10	36.42	84.92	1,348.60	-919.09	5,491.38	5,396.07	95.31	57.617		
14,000.00	6,949.61	7,013.42	6,873.11	231.37	36.41	84.83	1,348.59	-919.10	5,589.11	5,493.88	95.23	58.689		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 ft
Survey Program: 16-MWD												Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,100.00	6,948.38	7,011.53	6,871.23	234.65	36.40	84.73	1,348.59	-919.11	5,686.92	5,591.75	95.16	59.760	
14,200.00	6,947.15	7,009.65	6,869.34	237.93	36.40	84.64	1,348.58	-919.12	5,784.80	5,689.70	95.10	60.831	
14,300.00	6,945.91	7,007.76	6,867.46	241.22	36.39	84.55	1,348.58	-919.14	5,882.75	5,787.72	95.03	61.902	
14,400.00	6,944.68	7,005.88	6,865.58	244.50	36.38	84.46	1,348.57	-919.15	5,980.77	5,885.79	94.97	62.973	
14,500.00	6,943.45	7,003.99	6,863.69	247.78	36.38	84.37	1,348.57	-919.16	6,078.85	5,983.93	94.92	64.044	
14,600.00	6,942.21	7,002.11	6,861.81	251.07	36.37	84.28	1,348.56	-919.17	6,176.99	6,082.13	94.86	65.114	
14,700.00	6,940.98	7,000.23	6,859.92	254.35	36.36	84.18	1,348.56	-919.19	6,275.19	6,180.38	94.82	66.183	
14,800.00	6,939.74	6,998.34	6,858.04	257.64	36.36	84.09	1,348.55	-919.20	6,373.45	6,278.68	94.77	67.252	
14,900.00	6,938.51	6,996.46	6,856.15	260.92	36.35	84.00	1,348.55	-919.21	6,471.76	6,377.03	94.73	68.321	
15,000.00	6,937.28	6,994.57	6,854.27	264.21	36.34	83.91	1,348.54	-919.22	6,570.12	6,475.43	94.69	69.389	
15,100.00	6,936.04	6,992.69	6,852.38	267.50	36.34	83.82	1,348.54	-919.23	6,668.53	6,573.88	94.65	70.456	
15,200.00	6,934.81	6,990.80	6,850.50	270.79	36.33	83.73	1,348.53	-919.25	6,766.98	6,672.37	94.61	71.522	
15,300.00	6,933.58	6,988.92	6,848.62	274.08	36.33	83.64	1,348.53	-919.26	6,865.48	6,770.90	94.58	72.588	
15,400.00	6,932.34	6,987.03	6,846.73	277.37	36.32	83.55	1,348.52	-919.27	6,964.02	6,869.47	94.55	73.653	
15,500.00	6,931.11	6,985.15	6,844.85	280.66	36.31	83.45	1,348.52	-919.28	7,062.60	6,968.08	94.53	74.717	
15,589.88	6,930.00	6,983.45	6,843.15	283.62	36.31	83.37	1,348.51	-919.29	7,151.24	7,056.74	94.50	75.672	

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-72.28	303.12	-948.69	996.66					
100.00	100.00	57.62	57.62	3.28	3.29	-72.28	303.17	-948.77	996.04	989.47	6.57	151.555		
200.00	200.00	148.09	148.08	3.34	3.34	-72.27	303.63	-949.49	996.96	990.28	6.68	149.330		
300.00	299.98	266.42	266.40	3.44	3.47	-145.37	305.46	-949.82	999.17	992.26	6.91	144.559		
400.00	399.84	429.88	429.44	3.60	3.76	-145.09	312.76	-941.65	1,000.23	992.83	7.39	135.317		
475.90	475.48	517.12	516.16	3.76	3.97	-144.94	317.38	-933.33	999.74	991.98	7.76	128.912		
500.00	499.45	546.77	545.62	3.81	4.05	-144.90	318.93	-930.28	999.76	991.87	7.89	126.720		
600.00	598.70	658.30	656.18	4.08	4.39	-144.74	325.45	-917.15	1,000.33	991.86	8.47	118.167		
700.00	697.47	757.62	754.36	4.40	4.74	-144.54	333.67	-904.63	1,003.76	994.68	9.08	110.515		
774.77	770.92	834.93	830.38	4.68	5.05	-144.29	342.62	-893.85	1,008.00	998.38	9.61	104.855		
800.00	795.65	860.80	855.78	4.78	5.16	-144.22	345.85	-890.12	1,009.65	999.85	9.80	103.001		
900.00	893.64	994.44	986.30	5.20	5.77	-143.71	364.40	-868.35	1,015.03	1,004.27	10.75	94.417		
1,000.00	991.63	1,124.90	1,112.03	5.66	6.48	-142.92	385.64	-840.80	1,016.40	1,004.60	11.80	86.140		
1,100.00	1,089.63	1,260.48	1,242.07	6.15	7.29	-142.09	406.51	-808.67	1,015.32	1,002.37	12.94	78.447		
1,200.00	1,187.62	1,356.30	1,333.65	6.65	7.91	-141.50	420.81	-784.35	1,012.51	998.60	13.92	72.757		
1,300.00	1,285.62	1,445.69	1,419.02	7.17	8.50	-140.90	434.95	-761.95	1,010.44	995.55	14.89	67.843		
1,400.00	1,383.61	1,539.33	1,508.39	7.71	9.14	-140.23	450.78	-738.95	1,009.38	993.44	15.94	63.326		
1,500.00	1,481.60	1,645.13	1,608.89	8.25	9.89	-139.37	470.32	-712.24	1,008.42	991.31	17.11	58.937		
1,600.00	1,579.60	1,750.20	1,708.65	8.80	10.65	-138.53	488.96	-685.06	1,006.80	988.49	18.31	54.999		
1,700.00	1,677.59	1,867.53	1,819.93	9.36	11.52	-137.61	509.18	-653.85	1,004.53	984.92	19.61	51.235		
1,800.00	1,775.59	1,949.52	1,897.70	9.92	12.14	-136.97	523.06	-631.91	1,002.15	981.45	20.70	48.415		
1,898.13	1,871.75	2,033.96	1,978.12	10.48	12.76	-136.33	537.51	-610.62	1,001.46	979.66	21.80	45.929		
1,900.00	1,873.58	2,035.57	1,979.66	10.49	12.77	-136.32	537.80	-610.22	1,001.46	979.64	21.83	45.885		
2,000.00	1,971.57	2,140.57	2,079.56	11.06	13.56	-135.49	556.59	-583.90	1,001.40	978.29	23.10	43.343		
2,041.55	2,012.29	2,178.75	2,115.88	11.30	13.84	-135.20	563.32	-574.27	1,001.33	977.73	23.60	42.428		
2,100.00	2,069.57	2,234.32	2,168.86	11.64	14.26	-134.78	572.94	-560.54	1,001.46	977.14	24.31	41.188		
2,200.00	2,167.56	2,341.34	2,270.83	12.22	15.05	-133.97	591.40	-533.79	1,001.54	975.91	25.62	39.085		
2,289.28	2,255.05	2,428.45	2,354.15	12.74	15.70	-133.41	604.76	-512.17	1,001.09	974.36	26.73	37.455		
2,300.00	2,265.56	2,436.62	2,361.97	12.80	15.75	-133.36	606.01	-510.20	1,001.10	974.26	26.84	37.293		
2,400.00	2,363.55	2,524.62	2,446.32	13.38	16.39	-132.78	620.37	-489.61	1,002.41	974.39	28.02	35.775		
2,500.00	2,461.54	2,653.47	2,569.33	13.97	17.35	-131.87	641.56	-457.70	1,002.82	973.32	29.50	33.990		
2,600.00	2,559.54	2,750.16	2,661.12	14.55	18.11	-131.13	657.46	-431.80	1,001.59	970.79	30.80	32.515		
2,645.22	2,603.85	2,787.25	2,696.36	14.82	18.39	-130.84	663.73	-422.06	1,001.39	970.05	31.35	31.946		
2,700.00	2,657.53	2,831.88	2,738.93	15.14	18.73	-130.52	671.11	-410.88	1,001.68	969.68	32.00	31.304		
2,800.00	2,755.53	2,942.87	2,845.28	15.73	19.54	-129.83	687.83	-383.89	1,002.15	968.79	33.36	30.040		
2,900.00	2,853.52	3,028.12	2,927.30	16.32	20.15	-129.37	699.73	-363.93	1,002.92	968.39	34.53	29.047		
3,000.00	2,951.52	3,111.90	3,008.45	16.91	20.71	-129.02	710.74	-346.24	1,005.25	969.60	35.64	28.202		
3,100.00	3,049.51	3,188.77	3,083.49	17.51	21.19	-128.82	719.94	-332.38	1,009.56	972.91	36.65	27.543		
3,200.00	3,147.50	3,271.88	3,165.13	18.10	21.66	-128.72	729.15	-319.87	1,015.87	978.23	37.65	26.984		
3,300.00	3,245.50	3,351.37	3,243.57	18.70	22.07	-128.72	737.36	-309.96	1,023.93	985.37	38.56	26.553		
3,400.00	3,343.49	3,439.49	3,330.89	19.29	22.50	-128.84	745.54	-301.44	1,033.69	994.21	39.48	26.180		
3,500.00	3,441.49	3,530.89	3,421.75	19.89	22.90	-129.09	752.53	-294.45	1,044.26	1,003.88	40.37	25.864		
3,600.00	3,539.48	3,625.82	3,516.41	20.48	23.27	-129.52	757.50	-289.43	1,055.48	1,014.26	41.22	25.605		
3,700.00	3,637.47	3,723.86	3,614.36	21.08	23.62	-130.13	760.02	-286.17	1,067.00	1,024.98	42.02	25.394		
3,800.00	3,735.47	3,829.09	3,719.56	21.68	23.96	-130.87	760.95	-283.48	1,078.39	1,035.58	42.82	25.186		
3,900.00	3,833.46	3,901.36	3,791.81	22.27	24.18	-131.40	761.44	-282.57	1,090.89	1,047.48	43.41	25.131		
4,000.00	3,931.46	3,999.58	3,890.04	22.87	24.48	-132.15	761.97	-282.80	1,104.80	1,060.67	44.13	25.035		
4,100.00	4,029.45	4,093.33	3,983.78	23.47	24.76	-132.84	762.71	-282.91	1,118.90	1,074.07	44.83	24.957		
4,200.00	4,127.44	4,187.72	4,078.16	24.07	25.06	-133.48	764.17	-283.03	1,133.54	1,087.99	45.55	24.884		
4,300.00	4,225.44	4,284.44	4,174.86	24.67	25.37	-134.11	765.92	-283.16	1,148.47	1,102.17	46.30	24.807		
4,400.00	4,323.43	4,376.54	4,266.94	25.27	25.67	-134.69	767.93	-283.55	1,163.95	1,116.94	47.01	24.759		
4,507.81	4,429.08	4,481.58	4,371.95	25.92	26.01	-135.34	770.25	-284.22	1,181.01	1,133.19	47.82	24.695		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
4,600.00	4,519.70	4,570.55	4,460.90	26.45	26.29	-136.03	771.94	-285.04	1,194.76	1,146.26	48.50	24.633		
4,700.00	4,618.56	4,667.03	4,557.36	26.98	26.60	-136.64	773.66	-286.14	1,207.51	1,158.29	49.22	24.531		
4,800.00	4,717.88	4,766.96	4,657.27	27.46	26.92	-137.12	775.29	-287.54	1,217.96	1,168.00	49.96	24.379		
4,900.00	4,817.54	4,888.25	4,778.54	27.89	27.30	-137.53	775.85	-288.83	1,225.14	1,174.32	50.82	24.109		
5,000.00	4,917.43	5,023.05	4,913.31	28.28	27.72	-137.81	773.68	-287.00	1,226.44	1,174.72	51.72	23.715		
5,082.58	5,000.00	5,100.23	4,990.46	28.57	27.97	-64.70	772.38	-285.42	1,225.20	1,172.95	52.26	23.446		
5,100.00	5,017.42	5,116.24	5,006.47	28.62	28.03	-64.71	772.16	-285.13	1,224.81	1,172.44	52.37	23.389		
5,200.00	5,117.42	5,206.68	5,096.90	28.95	28.32	-64.72	771.18	-283.74	1,222.96	1,169.96	53.00	23.073		
5,300.00	5,217.42	5,303.42	5,193.62	29.28	28.64	-64.74	770.44	-282.86	1,221.81	1,168.13	53.68	22.761		
5,400.00	5,317.42	5,408.70	5,298.89	29.62	28.99	-64.75	769.55	-281.70	1,220.46	1,166.04	54.42	22.427		
5,500.00	5,417.42	5,504.21	5,394.40	29.96	29.33	-64.73	769.31	-280.25	1,218.98	1,163.86	55.11	22.117		
5,600.00	5,517.42	5,591.27	5,481.45	30.29	29.63	-64.71	769.47	-279.47	1,218.25	1,162.49	55.76	21.848		
5,614.72	5,532.14	5,603.96	5,494.14	30.34	29.68	-64.70	769.56	-279.41	1,218.24	1,162.38	55.85	21.811		
5,700.00	5,617.42	5,686.18	5,576.36	30.64	29.97	-64.66	770.42	-279.13	1,218.35	1,161.88	56.47	21.575		
5,800.00	5,717.42	5,777.54	5,667.70	30.98	30.30	-64.60	771.87	-279.03	1,218.94	1,161.77	57.16	21.324		
5,900.00	5,817.42	5,875.41	5,765.56	31.33	30.65	-64.52	773.73	-279.31	1,220.01	1,162.10	57.91	21.069		
6,000.00	5,917.42	5,971.14	5,861.26	31.68	30.99	-64.47	775.42	-279.94	1,221.36	1,162.73	58.63	20.832		
6,100.00	6,017.42	6,080.08	5,970.20	32.03	31.36	-64.48	775.67	-281.20	1,222.50	1,163.08	59.42	20.573		
6,200.00	6,117.42	6,198.10	6,088.20	32.38	31.75	-64.56	774.21	-282.09	1,222.68	1,162.42	60.25	20.292		
6,300.00	6,217.42	6,295.26	6,185.35	32.74	32.08	-64.62	772.73	-281.85	1,221.80	1,160.85	60.95	20.045		
6,342.82	6,260.24	6,332.15	6,222.24	32.89	32.20	-64.63	772.45	-281.86	1,221.69	1,160.46	61.23	19.954		
6,400.00	6,317.42	6,379.76	6,269.85	33.09	32.36	-64.64	772.31	-282.14	1,221.91	1,160.34	61.58	19.844		
6,476.01	6,393.43	6,447.85	6,337.93	33.37	32.60	-64.65	772.42	-282.98	1,222.81	1,160.73	62.08	19.698		
6,500.00	6,417.42	6,470.21	6,360.29	33.45	32.68	27.69	772.49	-283.32	1,222.77	1,160.53	62.24	19.646		
6,550.00	6,467.25	6,517.27	6,407.35	33.59	32.84	27.87	772.68	-284.11	1,220.21	1,157.63	62.58	19.500		
6,600.00	6,516.64	6,564.47	6,454.53	33.71	33.01	28.28	773.07	-284.91	1,214.30	1,151.39	62.91	19.302		
6,650.00	6,565.26	6,609.51	6,499.57	33.80	33.16	28.93	773.64	-285.70	1,205.10	1,141.87	63.23	19.058		
6,700.00	6,612.83	6,652.72	6,542.76	33.88	33.32	29.83	774.32	-286.56	1,192.77	1,129.23	63.54	18.772		
6,750.00	6,659.04	6,694.96	6,584.98	33.94	33.47	30.99	775.14	-287.51	1,177.40	1,113.56	63.84	18.443		
6,800.00	6,703.62	6,735.95	6,625.95	33.99	33.62	32.46	776.08	-288.52	1,159.13	1,094.99	64.14	18.072		
6,850.00	6,746.28	6,776.01	6,665.98	34.03	33.76	34.26	777.15	-289.59	1,138.09	1,073.66	64.44	17.662		
6,900.00	6,786.76	6,815.40	6,705.33	34.08	33.90	36.46	778.32	-290.66	1,114.43	1,049.69	64.74	17.213		
6,950.00	6,824.83	6,852.56	6,742.46	34.13	34.04	39.08	779.52	-291.69	1,088.34	1,023.29	65.05	16.732		
7,000.00	6,860.23	6,894.19	6,784.06	34.20	34.19	42.38	780.89	-292.74	1,059.95	994.53	65.42	16.202		
7,050.00	6,892.75	6,932.28	6,822.12	34.30	34.33	46.24	782.10	-293.52	1,029.44	963.65	65.79	15.648		
7,100.00	6,922.20	6,961.84	6,851.67	34.43	34.44	50.41	783.02	-294.03	997.23	931.11	66.12	15.082		
7,150.00	6,948.38	6,986.39	6,876.20	34.60	34.53	54.96	783.83	-294.49	963.81	897.36	66.45	14.504		
7,200.00	6,971.15	7,007.97	6,897.75	34.82	34.61	59.89	784.58	-294.93	929.53	862.71	66.81	13.912		
7,250.00	6,990.35	7,026.41	6,916.18	35.09	34.68	65.08	785.25	-295.33	894.75	827.54	67.21	13.312		
7,300.00	7,005.87	7,042.02	6,931.77	35.43	34.74	70.40	785.84	-295.68	859.89	792.22	67.67	12.708		
7,350.00	7,017.62	7,054.18	6,943.93	35.81	34.79	75.58	786.32	-295.95	825.33	757.16	68.17	12.106		
7,400.00	7,025.52	7,062.69	6,952.42	36.26	34.82	80.40	786.65	-296.14	791.54	722.80	68.75	11.514		
7,450.00	7,029.52	7,067.48	6,957.21	36.75	34.84	84.70	786.85	-296.25	758.96	689.58	69.38	10.939		
7,483.86	7,030.00	7,068.61	6,958.34	37.12	34.84	87.24	786.90	-296.27	737.82	667.96	69.86	10.562		
7,500.00	7,029.80	7,068.74	6,958.47	37.30	34.84	87.25	786.90	-296.28	728.06	657.97	70.09	10.387		
7,600.00	7,028.57	7,069.53	6,959.26	38.58	34.84	87.33	786.93	-296.29	673.07	601.29	71.78	9.377		
7,700.00	7,027.34	7,070.33	6,960.05	40.10	34.85	87.41	786.97	-296.31	629.27	555.50	73.77	8.530		
7,800.00	7,026.10	7,071.12	6,960.84	41.83	34.85	87.49	787.00	-296.33	599.11	523.25	75.87	7.897		
7,900.00	7,024.87	7,071.91	6,961.63	43.74	34.85	87.56	787.03	-296.35	564.71	506.98	77.74	7.522		
7,935.25	7,024.43	7,072.19	6,961.91	44.48	34.85	87.59	787.04	-296.35	563.65	505.35	78.30	7.454 CC, ES		
8,000.00	7,023.63	7,072.70	6,962.42	45.82	34.86	87.64	787.06	-296.37	567.23	508.16	79.07	7.427 SF		
8,100.00	7,022.40	7,073.49	6,963.21	48.04	34.86	87.72	787.10	-296.38	606.45	526.73	79.72	7.607		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,200.00	7,021.17	7,074.28	6,964.00	50.38	34.86	87.80	787.13	-296.40	640.89	561.14	79.75	8.036		
8,300.00	7,019.93	7,075.06	6,964.79	52.82	34.87	87.87	787.16	-296.42	688.25	608.90	79.35	8.674		
8,400.00	7,018.70	7,075.85	6,965.57	55.35	34.87	87.95	787.19	-296.44	746.08	667.37	78.71	9.479		
8,500.00	7,017.47	7,076.64	6,966.36	57.97	34.87	88.03	787.23	-296.45	812.14	734.17	77.97	10.415		
8,600.00	7,016.23	7,077.42	6,967.14	60.65	34.87	88.11	787.26	-296.47	884.60	807.36	77.24	11.452		
8,700.00	7,015.00	7,078.20	6,967.92	63.39	34.88	88.18	787.29	-296.49	962.01	885.45	76.55	12.567		
8,800.00	7,013.76	7,078.99	6,968.70	66.19	34.88	88.26	787.32	-296.51	1,043.26	967.34	75.93	13.740		
8,900.00	7,012.53	7,079.77	6,969.48	69.03	34.88	88.34	787.36	-296.52	1,127.54	1,052.17	75.37	14.960		
9,000.00	7,011.30	7,080.55	6,970.26	71.91	34.89	88.41	787.39	-296.54	1,214.20	1,139.32	74.87	16.216		
9,100.00	7,010.06	7,081.33	6,971.04	74.83	34.89	88.49	787.42	-296.56	1,302.77	1,228.33	74.44	17.501		
9,200.00	7,008.83	7,082.10	6,971.82	77.78	34.89	88.57	787.45	-296.58	1,392.89	1,318.83	74.06	18.808		
9,300.00	7,007.60	7,082.88	6,972.59	80.76	34.90	88.64	787.49	-296.59	1,484.28	1,410.56	73.72	20.133		
9,400.00	7,006.36	7,083.66	6,973.37	83.76	34.90	88.72	787.52	-296.61	1,576.71	1,503.28	73.43	21.473		
9,500.00	7,005.13	7,084.43	6,974.14	86.79	34.90	88.79	787.55	-296.63	1,670.01	1,596.85	73.16	22.825		
9,600.00	7,003.90	7,085.21	6,974.92	89.84	34.90	88.87	787.58	-296.64	1,764.05	1,691.12	72.93	24.187		
9,700.00	7,002.66	7,085.98	6,975.69	92.90	34.91	88.95	787.62	-296.66	1,858.71	1,785.98	72.73	25.557		
9,800.00	7,001.43	7,086.75	6,976.46	95.99	34.91	89.02	787.65	-296.68	1,953.90	1,881.35	72.55	26.933		
9,900.00	7,000.19	7,087.52	6,977.23	99.08	34.91	89.10	787.68	-296.70	2,049.55	1,977.16	72.39	28.314		
10,000.00	6,998.96	7,088.30	6,978.00	102.19	34.92	89.17	787.72	-296.71	2,145.60	2,073.35	72.24	29.699		
10,100.00	6,997.73	7,089.06	6,978.77	105.32	34.92	89.25	787.75	-296.73	2,241.99	2,169.87	72.12	31.089		
10,200.00	6,996.49	7,089.83	6,979.54	108.45	34.92	89.32	787.78	-296.75	2,338.68	2,266.68	72.00	32.481		
10,300.00	6,995.26	7,090.60	6,980.30	111.60	34.92	89.40	787.81	-296.76	2,435.64	2,363.74	71.90	33.875		
10,400.00	6,994.03	7,091.37	6,981.07	114.75	34.93	89.47	787.85	-296.78	2,532.84	2,461.03	71.81	35.270		
10,500.00	6,992.79	7,092.13	6,981.83	117.92	34.93	89.55	787.88	-296.80	2,630.25	2,558.51	71.73	36.667		
10,600.00	6,991.56	7,092.90	6,982.60	121.09	34.93	89.62	787.91	-296.82	2,727.84	2,656.18	71.66	38.065		
10,700.00	6,990.33	7,093.66	6,983.36	124.27	34.94	89.70	787.95	-296.83	2,825.60	2,754.00	71.60	39.464		
10,800.00	6,989.09	7,094.42	6,984.12	127.46	34.94	89.77	787.98	-296.85	2,923.51	2,851.97	71.55	40.862		
10,900.00	6,987.86	7,095.18	6,984.88	130.65	34.94	89.85	788.01	-296.87	3,021.56	2,950.07	71.50	42.261		
11,000.00	6,986.62	7,095.95	6,985.64	133.85	34.94	89.92	788.04	-296.88	3,119.74	3,048.28	71.46	43.659		
11,100.00	6,985.39	7,096.71	6,986.40	137.06	34.95	90.00	788.08	-296.90	3,218.02	3,146.60	71.42	45.057		
11,200.00	6,984.16	7,097.46	6,987.16	140.27	34.95	90.07	788.11	-296.92	3,316.41	3,245.02	71.39	46.454		
11,300.00	6,982.92	7,098.22	6,987.92	143.48	34.95	90.15	788.14	-296.93	3,414.89	3,343.53	71.37	47.850		
11,400.00	6,981.69	7,098.98	6,988.67	146.70	34.96	90.22	788.18	-296.95	3,513.46	3,442.11	71.35	49.245		
11,500.00	6,980.46	7,099.73	6,989.43	149.92	34.96	90.29	788.21	-296.97	3,612.11	3,540.78	71.33	50.639		
11,600.00	6,979.22	7,100.49	6,990.18	153.15	34.96	90.37	788.24	-296.99	3,710.82	3,639.51	71.32	52.032		
11,700.00	6,977.99	7,101.24	6,990.94	156.38	34.96	90.44	788.27	-297.00	3,809.61	3,738.30	71.31	53.423		
11,800.00	6,976.75	7,102.00	6,991.69	159.62	34.97	90.52	788.31	-297.02	3,908.45	3,837.15	71.31	54.813		
11,900.00	6,975.52	7,102.75	6,992.44	162.86	34.97	90.59	788.34	-297.04	4,007.36	3,936.05	71.30	56.201		
12,000.00	6,974.29	7,103.50	6,993.19	166.10	34.97	90.66	788.37	-297.05	4,106.31	4,035.01	71.31	57.587		
12,100.00	6,973.05	7,104.25	6,993.94	169.34	34.98	90.74	788.41	-297.07	4,205.32	4,134.01	71.31	58.972		
12,200.00	6,971.82	7,105.00	6,994.69	172.59	34.98	90.81	788.44	-297.09	4,304.37	4,233.05	71.32	60.354		
12,300.00	6,970.59	7,105.75	6,995.43	175.84	34.98	90.88	788.47	-297.10	4,403.47	4,332.14	71.33	61.734		
12,400.00	6,969.35	7,106.50	6,996.18	179.09	34.98	90.96	788.51	-297.12	4,502.60	4,431.26	71.34	63.113		
12,500.00	6,968.12	7,107.24	6,996.93	182.35	34.99	91.03	788.54	-297.14	4,601.77	4,530.41	71.36	64.489		
12,600.00	6,966.89	7,107.99	6,997.67	185.60	34.99	91.10	788.57	-297.15	4,700.98	4,629.60	71.38	65.862		
12,700.00	6,965.65	7,108.73	6,998.42	188.86	34.99	91.17	788.60	-297.17	4,800.22	4,728.82	71.40	67.234		
12,800.00	6,964.42	7,109.48	6,999.16	192.12	35.00	91.25	788.64	-297.18	4,899.49	4,828.07	71.42	68.602		
12,900.00	6,963.18	7,110.22	6,999.90	195.38	35.00	91.32	788.67	-297.20	4,998.79	4,927.34	71.44	69.969		
13,000.00	6,961.95	7,110.96	7,000.64	198.65	35.00	91.39	788.70	-297.22	5,098.11	5,026.64	71.47	71.333		
13,100.00	6,960.72	7,111.70	7,001.38	201.91	35.00	91.46	788.74	-297.23	5,197.47	5,125.97	71.50	72.694		
13,200.00	6,959.48	7,112.44	7,002.12	205.18	35.01	91.54	788.77	-297.25	5,296.84	5,225.31	71.53	74.052		
13,300.00	6,958.25	7,113.18	7,002.86	208.45	35.01	91.61	788.80	-297.27	5,396.24	5,324.68	71.56	75.408		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,400.00	6,957.02	7,113.92	7,003.60	211.72	35.01	91.68	788.84	-297.28	5,495.66	5,424.07	71.59	76.761		
13,500.00	6,955.78	7,114.66	7,004.33	214.99	35.01	91.75	788.87	-297.30	5,595.10	5,523.47	71.63	78.111		
13,600.00	6,954.55	7,115.39	7,005.07	218.27	35.02	91.83	788.90	-297.32	5,694.56	5,622.90	71.67	79.458		
13,700.00	6,953.32	7,116.13	7,005.80	221.54	35.02	91.90	788.94	-297.33	5,794.04	5,722.34	71.71	80.803		
13,800.00	6,952.08	7,116.87	7,006.54	224.82	35.02	91.97	788.97	-297.35	5,893.54	5,821.79	71.75	82.144		
13,900.00	6,950.85	7,117.60	7,007.27	228.10	35.03	92.04	789.00	-297.37	5,993.05	5,921.27	71.79	83.482		
14,000.00	6,949.61	7,118.33	7,008.00	231.37	35.03	92.11	789.03	-297.38	6,092.58	6,020.75	71.83	84.818		
14,100.00	6,948.38	7,119.06	7,008.73	234.65	35.03	92.18	789.07	-297.40	6,192.13	6,120.25	71.88	86.150		
14,200.00	6,947.15	7,119.79	7,009.46	237.93	35.03	92.25	789.10	-297.41	6,291.69	6,219.76	71.92	87.479		
14,300.00	6,945.91	7,120.53	7,010.19	241.22	35.04	92.33	789.13	-297.43	6,391.26	6,319.29	71.97	88.804		
14,400.00	6,944.68	7,121.50	7,011.17	244.50	35.04	92.42	789.18	-297.45	6,490.85	6,418.83	72.02	90.126		
14,500.00	6,943.45	7,122.95	7,012.62	247.78	35.05	92.56	789.24	-297.48	6,590.44	6,518.37	72.07	91.443		
14,600.00	6,942.21	7,124.45	7,014.11	251.07	35.05	92.71	789.31	-297.52	6,690.05	6,617.93	72.13	92.756		
14,700.00	6,940.98	7,125.97	7,015.64	254.35	35.06	92.86	789.38	-297.55	6,789.67	6,717.49	72.18	94.065		
14,800.00	6,939.74	7,127.54	7,017.20	257.64	35.06	93.01	789.45	-297.59	6,889.31	6,817.07	72.24	95.371		
14,900.00	6,938.51	7,129.15	7,018.81	260.92	35.07	93.16	789.53	-297.62	6,988.95	6,916.65	72.29	96.673		
15,000.00	6,937.28	7,130.80	7,020.45	264.21	35.08	93.32	789.60	-297.66	7,088.60	7,016.25	72.35	97.971		
15,100.00	6,936.04	7,132.49	7,022.15	267.50	35.08	93.49	789.68	-297.70	7,188.26	7,115.85	72.41	99.266		
15,200.00	6,934.81	7,134.23	7,023.88	270.79	35.09	93.66	789.76	-297.74	7,287.93	7,215.46	72.48	100.557		
15,300.00	6,933.58	7,136.02	7,025.66	274.08	35.10	93.83	789.84	-297.78	7,387.61	7,315.07	72.54	101.844		
15,400.00	6,932.34	7,137.85	7,027.50	277.37	35.10	94.01	789.92	-297.82	7,487.30	7,414.70	72.60	103.127		
15,500.00	6,931.11	7,139.74	7,029.38	280.66	35.11	94.19	790.00	-297.87	7,586.99	7,514.33	72.67	104.406		
15,589.88	6,930.00	7,141.48	7,031.12	283.62	35.12	94.36	790.08	-297.91	7,676.61	7,603.88	72.73	105.552		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-71.52	318.42	-952.86	1,005.46					
100.00	100.00	56.30	56.30	3.28	3.29	-71.52	318.52	-952.91	1,004.74	998.17	6.57	152.889		
200.00	200.00	147.89	147.88	3.34	3.34	-71.47	319.45	-953.36	1,005.53	998.85	6.68	150.630		
300.00	299.98	245.38	245.35	3.44	3.44	-144.56	321.36	-954.13	1,008.32	1,001.44	6.89	146.404		
400.00	399.84	329.60	329.53	3.60	3.57	-144.53	323.62	-955.30	1,014.76	1,007.58	7.18	141.294		
500.00	499.45	402.05	401.89	3.81	3.71	-144.49	326.40	-957.57	1,026.07	1,018.53	7.55	135.990		
600.00	598.70	474.77	474.39	4.08	3.88	-144.44	330.48	-961.54	1,042.90	1,034.92	7.98	130.734		
700.00	697.47	548.20	547.43	4.40	4.07	-144.36	335.74	-966.90	1,064.75	1,056.29	8.47	125.748		
774.77	770.92	600.27	599.11	4.68	4.22	-144.31	339.80	-971.75	1,084.44	1,075.57	8.86	122.372		
800.00	795.65	618.09	616.77	4.78	4.27	-144.38	341.23	-973.62	1,091.64	1,082.64	9.00	121.277		
900.00	893.64	694.64	692.55	5.20	4.53	-144.68	347.47	-982.54	1,121.28	1,111.71	9.57	117.182		
1,000.00	991.63	771.37	768.31	5.66	4.81	-144.97	354.15	-992.65	1,152.52	1,142.36	10.17	113.360		
1,100.00	1,089.63	858.84	854.53	6.15	5.15	-145.27	362.29	-1,004.96	1,184.80	1,173.98	10.83	109.448		
1,200.00	1,187.62	928.28	922.86	6.65	5.45	-145.52	368.47	-1,015.60	1,218.21	1,206.76	11.44	106.449		
1,300.00	1,285.62	982.00	975.53	7.17	5.69	-145.78	372.36	-1,025.45	1,254.06	1,242.06	12.01	104.445		
1,400.00	1,383.61	1,039.87	1,031.92	7.71	5.97	-146.06	376.55	-1,037.77	1,292.66	1,280.07	12.58	102.727		
1,500.00	1,481.60	1,094.67	1,084.88	8.25	6.26	-146.30	381.33	-1,050.99	1,334.07	1,320.93	13.14	101.509		
1,600.00	1,579.60	1,158.00	1,145.67	8.80	6.62	-146.56	387.40	-1,067.68	1,377.73	1,363.99	13.74	100.262		
1,700.00	1,677.59	1,249.28	1,233.06	9.36	7.18	-146.92	396.23	-1,092.54	1,422.32	1,407.82	14.50	98.095		
1,800.00	1,775.59	1,315.44	1,296.29	9.92	7.60	-147.16	402.88	-1,110.81	1,467.37	1,452.24	15.13	97.004		
1,900.00	1,873.58	1,420.87	1,396.81	10.49	8.30	-147.42	415.76	-1,139.86	1,512.95	1,496.93	16.01	94.491		
2,000.00	1,971.57	1,482.74	1,455.72	11.06	8.73	-147.52	424.54	-1,156.60	1,558.50	1,541.87	16.63	93.696		
2,100.00	2,069.57	1,549.70	1,519.12	11.64	9.22	-147.61	434.36	-1,175.77	1,605.55	1,588.26	17.29	92.854		
2,200.00	2,167.56	1,634.65	1,599.28	12.22	9.85	-147.71	447.44	-1,200.68	1,653.42	1,635.33	18.09	91.422		
2,300.00	2,265.56	1,748.52	1,706.94	12.80	10.72	-147.77	466.19	-1,232.66	1,700.43	1,681.31	19.11	88.969		
2,400.00	2,363.55	1,863.14	1,815.65	13.38	11.58	-147.76	486.40	-1,262.84	1,746.14	1,725.98	20.16	86.593		
2,500.00	2,461.54	1,956.91	1,904.78	13.97	12.28	-147.74	503.27	-1,286.60	1,791.05	1,769.98	21.07	85.005		
2,600.00	2,559.54	2,061.42	2,004.39	14.55	13.06	-147.73	521.48	-1,312.46	1,835.24	1,813.17	22.07	83.174		
2,700.00	2,657.53	2,123.08	2,063.06	15.14	13.53	-147.72	532.25	-1,328.06	1,879.99	1,857.26	22.73	82.722		
2,800.00	2,755.53	2,237.97	2,172.36	15.73	14.40	-147.73	552.01	-1,357.43	1,924.93	1,901.11	23.82	80.812		
2,900.00	2,853.52	2,313.00	2,243.93	16.32	14.97	-147.76	563.90	-1,376.53	1,969.44	1,944.85	24.59	80.092		
3,000.00	2,951.52	2,384.67	2,312.14	16.91	15.53	-147.80	575.40	-1,395.31	2,014.68	1,989.34	25.33	79.524		
3,100.00	3,049.51	2,472.00	2,394.98	17.51	16.21	-147.80	590.46	-1,418.49	2,060.48	2,034.26	26.22	78.596		
3,200.00	3,147.50	2,540.03	2,459.40	18.10	16.76	-147.79	602.69	-1,436.59	2,106.55	2,079.61	26.94	78.195		
3,300.00	3,245.50	2,604.79	2,520.31	18.70	17.30	-147.74	615.85	-1,454.21	2,153.71	2,126.07	27.64	77.923		
3,400.00	3,343.49	2,677.78	2,588.55	19.29	17.92	-147.64	632.19	-1,474.31	2,201.65	2,173.23	28.42	77.464		
3,500.00	3,441.49	2,770.92	2,660.81	19.89	18.62	-147.18	740.74	-1,575.19	2,236.37	2,203.20	33.17	67.422		
3,600.00	3,539.48	2,863.93	2,752.85	20.48	19.38	-147.60	754.33	-1,590.35	2,260.99	2,226.29	34.71	65.146		
3,700.00	3,637.47	2,957.64	2,846.45	21.08	20.15	-148.06	766.27	-1,595.13	2,280.78	2,244.93	35.85	63.612		
3,800.00	3,735.47	3,051.20	2,940.00	21.68	20.94	-148.38	775.08	-1,596.79	2,299.09	2,262.38	36.71	62.624		
3,900.00	3,833.46	3,144.24	3,032.02	22.27	21.74	-148.69	783.66	-1,598.05	2,317.00	2,279.43	37.58	61.661		
4,000.00	3,931.46	3,237.26	3,124.04	22.87	22.54	-148.99	792.03	-1,599.21	2,334.91	2,296.50	38.41	60.788		
4,100.00	4,029.45	3,330.26	3,216.06	23.47	23.34	-149.22	800.25	-1,600.50	2,353.33	2,314.16	39.17	60.081		
4,200.00	4,127.44	3,423.24	3,308.08	24.07	24.11	-149.51	808.48	-1,602.98	2,372.73	2,332.73	39.99	59.326		
4,300.00	4,225.44	3,516.22	3,400.09	24.67	24.91	-149.92	816.61	-1,603.81	2,390.33	2,349.26	41.07	58.196		
4,400.00	4,323.43	3,609.20	3,492.09	25.27	25.55	-150.11	824.74	-1,602.93	2,407.10	2,365.17	41.92	57.418		
4,507.81	4,429.08	3,702.27	3,584.11	25.92	26.29	-150.30	832.87	-1,602.20	2,425.40	2,382.58	42.81	56.649		
4,600.00	4,519.70	3,795.24	3,676.13	26.45	26.81	-150.60	840.99	-1,601.87	2,440.19	2,396.58	43.60	55.963		
4,700.00	4,618.56	3,888.20	3,768.15	26.98	27.34	-150.85	849.12	-1,601.46	2,453.31	2,408.89	44.42	55.226		
4,800.00	4,717.88	3,981.16	3,860.17	27.46	27.81	-151.12	857.25	-1,599.87	2,462.46	2,417.03	45.43	54.208		
4,900.00	4,817.54	4,074.12	3,952.19	27.89	28.24	-151.27	865.38	-1,598.53	2,467.87	2,421.70	46.17	53.457		
5,000.00	4,917.43	4,167.08	4,044.21	28.28	28.61	-151.34	873.51	-1,597.63	2,470.81	2,423.93	46.89	52.698		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	5,078.54	4,967.11	28.57	27.63	-78.21	753.94	-1,597.27	2,471.41	2,423.95	47.47	52.068		
5,100.00	5,017.42	5,093.96	4,982.52	28.62	27.68	-78.21	753.94	-1,597.23	2,471.37	2,423.78	47.59	51.931		
5,144.21	5,061.63	5,133.07	5,021.63	28.77	27.81	-78.21	753.95	-1,597.19	2,471.32	2,423.42	47.91	51.588		
5,200.00	5,117.42	5,180.53	5,069.69	28.95	27.97	-78.21	754.02	-1,597.24	2,471.41	2,423.11	48.30	51.169		
5,300.00	5,217.42	5,265.76	5,154.32	29.28	28.27	-78.20	754.42	-1,597.78	2,472.10	2,423.09	49.01	50.437		
5,400.00	5,317.42	5,360.29	5,248.85	29.62	28.60	-78.20	754.65	-1,598.63	2,473.04	2,423.27	49.77	49.690		
5,500.00	5,417.42	5,438.87	5,327.41	29.96	28.88	-78.20	754.94	-1,599.86	2,474.65	2,424.19	50.46	49.043		
5,600.00	5,517.42	5,528.10	5,416.62	30.29	29.21	-78.18	756.07	-1,601.74	2,476.96	2,425.75	51.20	48.377		
5,700.00	5,617.42	5,700.00	5,559.21	30.64	29.84	-78.13	758.74	-1,603.43	2,478.48	2,426.19	52.29	47.395		
5,800.00	5,717.42	5,810.52	5,698.98	30.98	30.20	-78.13	758.52	-1,602.54	2,477.59	2,424.50	53.09	46.664		
5,900.00	5,817.42	5,889.67	5,778.13	31.33	30.47	-78.14	758.24	-1,602.28	2,477.18	2,423.40	53.79	46.056		
5,907.86	5,825.28	5,896.82	5,785.28	31.36	30.49	-78.14	758.22	-1,602.28	2,477.18	2,423.34	53.84	46.006		
6,000.00	5,917.42	5,980.29	5,868.75	31.68	30.78	-78.14	758.04	-1,602.46	2,477.34	2,422.81	54.53	45.431		
6,100.00	6,017.42	6,068.01	5,956.46	32.03	31.09	-78.14	758.04	-1,602.97	2,477.91	2,422.64	55.27	44.831		
6,200.00	6,117.42	6,149.23	6,037.69	32.38	31.39	-78.14	758.46	-1,603.89	2,479.13	2,423.13	55.99	44.277		
6,300.00	6,217.42	6,229.00	6,117.43	32.74	31.70	-78.13	759.39	-1,605.41	2,481.21	2,424.51	56.71	43.756		
6,400.00	6,317.42	6,327.58	6,215.96	33.09	32.09	-78.09	761.47	-1,607.70	2,483.91	2,426.40	57.51	43.189		
6,476.01	6,393.43	6,466.15	6,354.51	33.37	32.60	-78.07	762.74	-1,608.56	2,484.26	2,425.86	58.39	42.544		
6,500.00	6,417.42	6,493.14	6,381.50	33.45	32.70	14.27	762.41	-1,608.60	2,483.79	2,425.20	58.59	42.392		
6,550.00	6,467.25	6,533.82	6,422.18	33.59	32.84	14.36	761.82	-1,608.73	2,480.08	2,421.16	58.92	42.089		
6,600.00	6,516.64	6,574.48	6,462.84	33.71	32.98	14.55	761.32	-1,609.00	2,472.77	2,413.52	59.24	41.738		
6,650.00	6,565.26	6,671.47	6,559.81	33.80	33.31	14.92	759.84	-1,609.00	2,461.44	2,401.67	59.76	41.187		
6,700.00	6,612.83	6,728.65	6,616.98	33.88	33.50	15.40	758.68	-1,608.31	2,445.78	2,385.67	60.11	40.689		
6,750.00	6,659.04	6,778.09	6,666.40	33.94	33.67	16.02	757.69	-1,607.54	2,426.43	2,366.02	60.41	40.165		
6,800.00	6,703.62	6,817.33	6,705.63	33.99	33.80	16.79	757.16	-1,606.91	2,403.71	2,343.05	60.67	39.621		
6,850.00	6,746.28	6,854.57	6,742.87	34.03	33.93	17.76	756.93	-1,606.33	2,377.82	2,316.92	60.90	39.045		
6,900.00	6,786.76	6,887.68	6,775.97	34.08	34.05	18.95	756.86	-1,605.88	2,348.92	2,287.81	61.11	38.440		
6,950.00	6,824.83	6,918.87	6,807.16	34.13	34.16	20.41	756.86	-1,605.52	2,317.21	2,255.92	61.29	37.807		
7,000.00	6,860.23	6,948.71	6,837.00	34.20	34.26	22.22	756.92	-1,605.25	2,282.87	2,221.41	61.46	37.144		
7,050.00	6,892.75	6,978.83	6,867.12	34.30	34.37	24.51	757.04	-1,605.01	2,246.08	2,184.46	61.62	36.450		
7,100.00	6,922.20	7,006.08	6,894.36	34.43	34.47	27.37	757.20	-1,604.81	2,207.04	2,145.27	61.76	35.733		
7,150.00	6,948.38	7,030.28	6,918.57	34.60	34.56	31.00	757.39	-1,604.63	2,166.00	2,104.11	61.89	34.998		
7,200.00	6,971.15	7,051.30	6,939.58	34.82	34.64	35.62	757.59	-1,604.49	2,123.22	2,061.22	62.00	34.246		
7,250.00	6,990.35	7,068.99	6,957.27	35.09	34.70	41.57	757.78	-1,604.37	2,078.96	2,016.87	62.10	33.480		
7,300.00	7,005.87	7,083.23	6,971.52	35.43	34.75	49.19	757.94	-1,604.28	2,033.52	1,971.34	62.18	32.703		
7,350.00	7,017.62	7,093.95	6,982.23	35.81	34.79	58.82	758.08	-1,604.22	1,987.17	1,924.91	62.26	31.918		
7,400.00	7,025.52	7,101.06	6,989.34	36.26	34.82	70.45	758.17	-1,604.18	1,940.22	1,877.89	62.33	31.128		
7,450.00	7,029.52	7,104.52	6,992.80	36.75	34.83	83.43	758.22	-1,604.16	1,892.95	1,830.55	62.40	30.336		
7,483.86	7,030.00	7,104.77	6,993.05	37.12	34.83	92.33	758.22	-1,604.16	1,860.92	1,798.47	62.45	29.800		
7,500.00	7,029.80	7,104.48	6,992.76	37.30	34.83	92.31	758.22	-1,604.16	1,845.68	1,783.21	62.47	29.544		
7,600.00	7,028.57	7,102.72	6,991.00	38.58	34.83	92.14	758.20	-1,604.17	1,751.57	1,688.90	62.67	27.951		
7,700.00	7,027.34	7,100.96	6,989.24	40.10	34.82	91.97	758.17	-1,604.18	1,658.15	1,595.19	62.96	26.337		
7,800.00	7,026.10	7,099.19	6,987.47	41.83	34.81	91.81	758.15	-1,604.19	1,565.54	1,502.17	63.37	24.703		
7,900.00	7,024.87	7,097.41	6,985.69	43.74	34.81	91.64	758.12	-1,604.20	1,473.89	1,409.95	63.95	23.048		
8,000.00	7,023.63	7,095.64	6,983.92	45.82	34.80	91.47	758.10	-1,604.21	1,383.41	1,318.68	64.73	21.372		
8,100.00	7,022.40	7,093.85	6,982.13	48.04	34.79	91.30	758.08	-1,604.22	1,294.31	1,228.55	65.77	19.681		
8,200.00	7,021.17	7,092.07	6,980.35	50.38	34.79	91.14	758.05	-1,604.23	1,206.93	1,139.80	67.13	17.980		
8,300.00	7,019.93	7,090.28	6,978.56	52.82	34.78	90.97	758.03	-1,604.24	1,121.65	1,052.75	68.90	16.280		
8,400.00	7,018.70	7,088.48	6,976.76	55.35	34.77	90.80	758.01	-1,604.25	1,039.00	967.83	71.17	14.599		
8,500.00	7,017.47	7,086.68	6,974.96	57.97	34.77	90.63	757.99	-1,604.26	959.65	885.60	74.04	12.960		
8,600.00	7,016.23	7,084.88	6,973.16	60.65	34.76	90.46	757.96	-1,604.27	884.49	806.86	77.63	11.393		
8,700.00	7,015.00	7,083.07	6,971.35	63.39	34.75	90.29	757.94	-1,604.29	814.69	732.68	82.01	9.934		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,800.00	7,013.76	7,081.26	6,969.54	66.19	34.75	90.12	757.92	-1,604.30	751.74	664.53	87.21	8.620		
8,900.00	7,012.53	7,079.44	6,967.72	69.03	34.74	89.95	757.90	-1,604.31	697.49	604.37	93.12	7.490		
9,000.00	7,011.30	7,077.62	6,965.90	71.91	34.73	89.77	757.88	-1,604.32	654.12	554.70	99.42	6.579		
9,100.00	7,010.06	7,075.79	6,964.08	74.83	34.73	89.60	757.86	-1,604.33	623.89	518.34	105.55	5.911		
9,200.00	7,008.83	7,073.96	6,962.25	77.78	34.72	89.43	757.83	-1,604.34	608.77	498.02	110.75	5.497		
9,243.22	7,008.30	7,073.17	6,961.45	79.07	34.72	89.35	757.82	-1,604.35	607.24	494.71	112.53	5.396 CC, ES		
9,300.00	7,007.60	7,072.13	6,960.41	80.76	34.71	89.26	757.81	-1,604.35	609.89	495.56	114.32	5.335 SF		
9,400.00	7,006.36	7,070.29	6,958.57	83.76	34.71	89.08	757.79	-1,604.37	627.14	511.22	115.92	5.410		
9,500.00	7,005.13	7,068.45	6,956.73	86.79	34.70	88.91	757.77	-1,604.38	659.28	543.58	115.70	5.698		
9,600.00	7,003.90	7,066.60	6,954.88	89.84	34.69	88.73	757.75	-1,604.39	704.26	590.15	114.11	6.172		
9,700.00	7,002.66	7,064.75	6,953.03	92.90	34.69	88.56	757.73	-1,604.40	759.81	648.10	111.71	6.802		
9,800.00	7,001.43	7,062.89	6,951.17	95.99	34.68	88.38	757.71	-1,604.41	823.79	714.85	108.94	7.562		
9,900.00	7,000.19	7,061.03	6,949.31	99.08	34.67	88.21	757.69	-1,604.43	894.39	788.30	106.10	8.430		
10,000.00	6,998.96	7,059.16	6,947.44	102.19	34.67	88.03	757.67	-1,604.44	970.18	866.81	103.36	9.386		
10,100.00	6,997.73	7,057.29	6,945.57	105.32	34.66	87.86	757.65	-1,604.45	1,050.02	949.19	100.83	10.414		
10,200.00	6,996.49	7,055.41	6,943.70	108.45	34.65	87.68	757.63	-1,604.46	1,133.06	1,034.55	98.51	11.502		
10,300.00	6,995.26	7,053.53	6,941.82	111.60	34.65	87.50	757.61	-1,604.47	1,218.65	1,122.23	96.43	12.638		
10,400.00	6,994.03	7,051.65	6,939.93	114.75	34.64	87.32	757.59	-1,604.49	1,306.29	1,211.73	94.56	13.814		
10,500.00	6,992.79	7,049.76	6,938.04	117.92	34.63	87.15	757.57	-1,604.50	1,395.59	1,302.70	92.89	15.024		
10,600.00	6,991.56	7,047.86	6,936.15	121.09	34.62	86.97	757.55	-1,604.51	1,486.24	1,394.85	91.40	16.262		
10,700.00	6,990.33	7,045.97	6,934.25	124.27	34.62	86.79	757.54	-1,604.52	1,578.03	1,487.97	90.06	17.522		
10,800.00	6,989.09	7,044.06	6,932.35	127.46	34.61	86.61	757.52	-1,604.54	1,670.76	1,581.90	88.86	18.802		
10,900.00	6,987.86	7,042.15	6,930.44	130.65	34.60	86.43	757.50	-1,604.55	1,764.27	1,676.49	87.78	20.098		
11,000.00	6,986.62	7,040.24	6,928.52	133.85	34.60	86.25	757.48	-1,604.56	1,858.47	1,771.65	86.81	21.408		
11,100.00	6,985.39	7,038.32	6,926.61	137.06	34.59	86.07	757.46	-1,604.58	1,953.23	1,867.30	85.93	22.730		
11,200.00	6,984.16	7,036.40	6,924.68	140.27	34.58	85.89	757.45	-1,604.59	2,048.50	1,963.36	85.14	24.061		
11,300.00	6,982.92	7,034.47	6,922.76	143.48	34.58	85.71	757.43	-1,604.60	2,144.19	2,059.77	84.42	25.400		
11,400.00	6,981.69	7,032.54	6,920.82	146.70	34.57	85.53	757.41	-1,604.62	2,240.26	2,156.50	83.76	26.746		
11,500.00	6,980.46	7,030.60	6,918.89	149.92	34.56	85.35	757.40	-1,604.63	2,336.65	2,253.49	83.16	28.098		
11,600.00	6,979.22	7,028.66	6,916.95	153.15	34.55	85.16	757.38	-1,604.64	2,433.34	2,350.73	82.61	29.455		
11,700.00	6,977.99	7,026.71	6,915.00	156.38	34.55	84.98	757.36	-1,604.66	2,530.28	2,448.17	82.11	30.817		
11,800.00	6,976.75	7,024.76	6,913.05	159.62	34.54	84.80	757.35	-1,604.67	2,627.45	2,545.80	81.65	32.181		
11,900.00	6,975.52	7,022.80	6,911.09	162.86	34.53	84.61	757.33	-1,604.68	2,724.82	2,643.60	81.22	33.548		
12,000.00	6,974.29	7,020.84	6,909.13	166.10	34.53	84.43	757.31	-1,604.70	2,822.37	2,741.54	80.83	34.918		
12,100.00	6,973.05	7,018.88	6,907.16	169.34	34.52	84.25	757.30	-1,604.71	2,920.09	2,839.63	80.47	36.289		
12,200.00	6,971.82	7,016.91	6,905.19	172.59	34.51	84.06	757.28	-1,604.73	3,017.96	2,937.83	80.13	37.662		
12,300.00	6,970.59	7,014.93	6,903.21	175.84	34.50	83.88	757.27	-1,604.74	3,115.96	3,036.14	79.82	39.035		
12,400.00	6,969.35	7,012.95	6,901.23	179.09	34.50	83.69	757.25	-1,604.76	3,214.08	3,134.55	79.54	40.409		
12,500.00	6,968.12	7,010.96	6,899.25	182.35	34.49	83.51	757.24	-1,604.77	3,312.32	3,233.05	79.27	41.784		
12,600.00	6,966.89	7,008.97	6,897.26	185.60	34.48	83.32	757.23	-1,604.78	3,410.65	3,331.63	79.03	43.159		
12,700.00	6,965.65	7,006.97	6,895.26	188.86	34.47	83.14	757.21	-1,604.80	3,509.08	3,430.29	78.80	44.533		
12,800.00	6,964.42	7,004.97	6,893.26	192.12	34.47	82.95	757.20	-1,604.81	3,607.60	3,529.01	78.58	45.907		
12,900.00	6,963.18	7,002.96	6,891.25	195.38	34.46	82.76	757.18	-1,604.83	3,706.19	3,627.80	78.39	47.281		
13,000.00	6,961.95	7,000.95	6,889.24	198.65	34.45	82.58	757.17	-1,604.84	3,804.85	3,726.65	78.20	48.653		
13,100.00	6,960.72	6,998.93	6,887.22	201.91	34.45	82.39	757.16	-1,604.86	3,903.59	3,825.55	78.03	50.025		
13,200.00	6,959.48	6,996.91	6,885.20	205.18	34.44	82.20	757.14	-1,604.87	4,002.38	3,924.51	77.87	51.396		
13,300.00	6,958.25	6,994.88	6,883.17	208.45	34.43	82.01	757.13	-1,604.89	4,101.23	4,023.51	77.73	52.766		
13,400.00	6,957.02	6,992.85	6,881.14	211.72	34.42	81.82	757.12	-1,604.90	4,200.14	4,122.55	77.59	54.134		
13,500.00	6,955.78	6,990.81	6,879.10	214.99	34.42	81.64	757.11	-1,604.92	4,299.09	4,221.63	77.46	55.501		
13,600.00	6,954.55	6,988.77	6,877.06	218.27	34.41	81.45	757.10	-1,604.94	4,398.09	4,320.75	77.34	56.866		
13,700.00	6,953.32	6,986.72	6,875.01	221.54	34.40	81.26	757.08	-1,604.95	4,497.14	4,419.90	77.23	58.229		
13,800.00	6,952.08	6,984.67	6,872.96	224.82	34.39	81.07	757.07	-1,604.97	4,596.22	4,519.09	77.13	59.591		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,900.00	6,950.85	6,982.61	6,870.90	228.10	34.39	80.88	757.06	-1,604.98	4,695.34	4,618.31	77.04	60.951		
14,000.00	6,949.61	6,980.55	6,868.83	231.37	34.38	80.69	757.05	-1,605.00	4,794.50	4,717.55	76.95	62.308		
14,100.00	6,948.38	6,978.48	6,866.76	234.65	34.37	80.50	757.04	-1,605.01	4,893.69	4,816.82	76.87	63.664		
14,200.00	6,947.15	6,976.40	6,864.69	237.93	34.36	80.31	757.03	-1,605.03	4,992.91	4,916.12	76.79	65.018		
14,300.00	6,945.91	6,974.32	6,862.61	241.22	34.36	80.12	757.02	-1,605.05	5,092.17	5,015.44	76.72	66.369		
14,400.00	6,944.68	6,972.23	6,860.52	244.50	34.35	79.92	757.01	-1,605.06	5,191.45	5,114.79	76.66	67.718		
14,500.00	6,943.45	6,970.14	6,858.43	247.78	34.34	79.73	757.00	-1,605.08	5,290.75	5,214.15	76.61	69.065		
14,600.00	6,942.21	6,968.05	6,856.33	251.07	34.33	79.54	756.99	-1,605.10	5,390.09	5,313.53	76.55	70.410		
14,700.00	6,940.98	6,965.94	6,854.23	254.35	34.32	79.35	756.98	-1,605.11	5,489.44	5,412.93	76.51	71.751		
14,800.00	6,939.74	6,963.84	6,852.13	257.64	34.32	79.16	756.97	-1,605.13	5,588.82	5,512.35	76.46	73.091		
14,900.00	6,938.51	6,961.72	6,850.01	260.92	34.31	78.96	756.96	-1,605.15	5,688.22	5,611.79	76.43	74.428		
15,000.00	6,937.28	6,959.60	6,847.89	264.21	34.30	78.77	756.96	-1,605.16	5,787.63	5,711.24	76.39	75.762		
15,100.00	6,936.04	6,957.48	6,845.77	267.50	34.29	78.58	756.95	-1,605.18	5,887.07	5,810.71	76.36	77.093		
15,200.00	6,934.81	6,955.35	6,843.64	270.79	34.29	78.38	756.94	-1,605.20	5,986.53	5,910.19	76.34	78.422		
15,300.00	6,933.58	6,960.26	6,848.55	274.08	34.30	78.83	756.96	-1,605.17	6,085.99	6,009.67	76.33	79.735		
15,400.00	6,932.34	6,956.94	6,845.23	277.37	34.29	78.53	756.95	-1,605.19	6,185.48	6,109.18	76.31	81.060		
15,500.00	6,931.11	6,953.54	6,841.82	280.66	34.28	78.22	756.93	-1,605.22	6,284.99	6,208.70	76.29	82.383		
15,589.88	6,930.00	6,950.40	6,838.69	283.62	34.27	77.94	756.92	-1,605.24	6,374.44	6,298.16	76.28	83.569		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-73.07	287.46	-944.23	987.75					
100.00	100.00	57.11	57.11	3.28	3.29	-73.07	287.47	-944.34	987.13	980.56	6.57	150.202		
200.00	200.00	146.47	146.47	3.34	3.34	-73.07	287.65	-945.25	988.17	981.49	6.68	148.030		
300.00	299.98	249.82	249.80	3.44	3.45	-146.25	288.04	-946.75	991.13	984.23	6.89	143.794		
400.00	399.84	339.83	339.79	3.60	3.59	-146.35	288.15	-948.32	997.18	989.99	7.20	138.578		
500.00	499.45	440.42	440.35	3.81	3.79	-146.64	286.89	-950.98	1,006.64	999.04	7.60	132.427		
600.00	598.70	540.52	540.30	4.08	4.03	-147.16	282.73	-954.15	1,018.76	1,010.68	8.09	125.956		
700.00	697.47	624.52	623.99	4.40	4.26	-147.77	276.69	-958.14	1,034.69	1,026.08	8.61	120.155		
774.77	770.92	686.37	685.48	4.68	4.45	-148.30	271.33	-962.04	1,049.51	1,040.47	9.04	116.071		
800.00	795.65	707.62	706.59	4.78	4.52	-148.55	269.39	-963.55	1,054.99	1,045.80	9.20	114.728		
900.00	893.64	800.07	798.31	5.20	4.84	-149.65	260.17	-970.49	1,077.17	1,067.33	9.85	109.405		
1,000.00	991.63	890.83	888.27	5.66	5.17	-150.72	250.54	-977.75	1,100.09	1,089.56	10.53	104.442		
1,100.00	1,089.63	978.21	974.71	6.15	5.52	-151.77	240.29	-985.39	1,123.92	1,112.68	11.24	99.963		
1,200.00	1,187.62	1,045.36	1,040.84	6.65	5.82	-152.62	231.10	-992.46	1,149.59	1,137.69	11.90	96.625		
1,300.00	1,285.62	1,115.83	1,109.84	7.17	6.15	-153.57	220.16	-1,001.72	1,177.86	1,165.28	12.58	93.627		
1,400.00	1,383.61	1,193.35	1,185.39	7.71	6.54	-154.63	207.23	-1,013.23	1,208.15	1,194.84	13.31	90.756		
1,500.00	1,481.60	1,274.32	1,264.01	8.25	6.97	-155.75	192.62	-1,026.01	1,239.76	1,225.68	14.08	88.062		
1,600.00	1,579.60	1,349.98	1,337.10	8.80	7.40	-156.81	177.88	-1,038.85	1,272.92	1,258.09	14.83	85.857		
1,700.00	1,677.59	1,425.71	1,409.96	9.36	7.85	-157.86	162.52	-1,052.59	1,307.69	1,292.11	15.58	83.924		
1,800.00	1,775.59	1,516.89	1,497.42	9.92	8.42	-159.11	143.10	-1,069.55	1,343.44	1,326.98	16.45	81.651		
1,900.00	1,873.58	1,606.83	1,583.35	10.49	9.01	-160.35	122.41	-1,086.22	1,379.70	1,362.36	17.34	79.590		
2,000.00	1,971.57	1,713.90	1,685.78	11.06	9.73	-161.75	97.57	-1,105.10	1,415.68	1,397.33	18.36	77.126		
2,100.00	2,069.57	1,791.02	1,759.38	11.64	10.26	-162.75	78.88	-1,118.50	1,452.07	1,432.91	19.16	75.803		
2,200.00	2,167.56	1,846.08	1,811.54	12.22	10.65	-163.47	64.67	-1,128.93	1,490.49	1,470.70	19.78	75.344		
2,300.00	2,265.56	1,917.09	1,878.41	12.80	11.18	-164.39	45.88	-1,143.68	1,531.09	1,510.56	20.53	74.567		
2,400.00	2,363.55	2,012.22	1,968.32	13.38	11.90	-165.51	22.15	-1,163.74	1,572.39	1,550.90	21.49	73.167		
2,500.00	2,461.54	2,102.97	2,054.37	13.97	12.58	-166.50	0.12	-1,182.33	1,613.49	1,591.09	22.41	72.014		
2,600.00	2,559.54	2,195.02	2,141.71	14.55	13.27	-167.45	-21.94	-1,201.25	1,655.01	1,631.67	23.33	70.933		
2,700.00	2,657.53	2,300.54	2,241.97	15.14	14.06	-168.48	-47.36	-1,222.19	1,696.26	1,671.88	24.38	69.580		
2,800.00	2,755.53	2,365.80	2,304.09	15.73	14.55	-169.08	-62.59	-1,235.15	1,737.77	1,712.71	25.06	69.342		
2,900.00	2,853.52	2,448.73	2,382.87	16.32	15.18	-169.79	-81.44	-1,252.87	1,780.76	1,754.86	25.90	68.758		
3,000.00	2,951.52	2,550.68	2,479.85	16.91	15.95	-170.63	-104.94	-1,273.75	1,823.25	1,796.34	26.91	67.750		
3,100.00	3,049.51	2,614.83	2,540.83	17.51	16.45	-171.14	-119.93	-1,286.92	1,866.18	1,838.61	27.58	67.676		
3,200.00	3,147.50	2,667.48	2,590.67	18.10	16.86	-171.54	-132.08	-1,298.74	1,910.91	1,882.79	28.12	67.950		
3,300.00	3,245.50	3,300.00	2,712.46	18.70	21.89	-172.54	-163.62	-1,327.60	1,956.23	1,923.65	32.58	60.052		
3,400.00	3,343.49	2,947.90	2,856.46	19.29	19.05	-173.64	-200.22	-1,356.18	1,998.20	1,967.30	30.90	64.665		
3,500.00	3,441.49	3,044.27	2,948.19	19.89	19.79	-174.34	-224.50	-1,373.04	2,039.65	2,007.78	31.87	63.991		
3,600.00	3,539.48	3,157.04	3,055.93	20.48	20.63	-175.11	-252.17	-1,391.58	2,080.18	2,047.18	32.99	63.055		
3,700.00	3,637.47	3,224.66	3,120.96	21.08	21.12	-175.49	-266.59	-1,403.19	2,120.90	2,087.22	33.69	62.960		
3,800.00	3,735.47	3,285.00	3,178.79	21.68	21.56	-175.81	-279.31	-1,414.78	2,163.32	2,129.02	34.31	63.061		
3,900.00	3,833.46	3,507.58	3,392.84	22.27	23.16	-177.03	-328.70	-1,450.13	2,203.13	2,166.74	36.38	60.554		
4,000.00	3,931.46	3,585.72	3,468.01	22.87	23.71	-177.50	-347.73	-1,459.80	2,240.76	2,203.57	37.19	60.254		
4,100.00	4,029.45	3,642.00	3,522.08	23.47	24.11	-177.82	-361.33	-1,467.44	2,279.59	2,241.79	37.80	60.307		
4,200.00	4,127.44	3,688.59	3,566.69	24.07	24.46	-178.08	-372.75	-1,474.52	2,320.10	2,281.78	38.32	60.553		
4,300.00	4,225.44	3,733.00	3,608.96	24.67	24.79	-178.33	-384.07	-1,482.08	2,362.54	2,323.75	38.79	60.900		
4,400.00	4,323.43	3,790.87	3,663.73	25.27	25.26	-178.66	-399.51	-1,492.64	2,406.53	2,367.12	39.40	61.075		
4,507.81	4,429.08	3,864.58	3,733.10	25.92	25.86	-179.09	-420.15	-1,506.55	2,455.14	2,414.97	40.17	61.116		
4,600.00	4,519.70	3,942.92	3,806.70	26.45	26.51	-179.55	-442.40	-1,521.59	2,495.91	2,454.93	40.98	60.899		
4,700.00	4,618.56	4,061.88	3,918.61	26.98	27.49	-179.80	-476.01	-1,543.85	2,536.83	2,494.63	42.20	60.110		
4,800.00	4,717.88	4,209.29	4,059.56	27.46	28.61	-179.23	-509.60	-1,570.70	2,572.07	2,528.44	43.64	58.942		
4,900.00	4,817.54	4,266.00	4,114.14	27.89	29.02	-179.10	-519.82	-1,582.25	2,604.80	2,560.63	44.17	58.979		
5,000.00	4,917.43	4,327.12	4,172.75	28.28	29.47	-178.96	-530.97	-1,595.51	2,635.54	2,590.82	44.72	58.938		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,082.58	5,000.00	4,465.39	4,305.10	28.57	30.50	-108.28	-558.89	-1,624.17	2,658.57	2,612.56	46.01	57.782		
5,100.00	5,017.42	4,479.24	4,318.39	28.62	30.60	-108.32	-561.70	-1,626.87	2,662.92	2,616.79	46.13	57.722		
5,200.00	5,117.42	4,856.91	4,685.88	28.95	33.05	-109.30	-627.72	-1,681.34	2,681.46	2,632.13	49.33	54.357		
5,300.00	5,217.42	4,969.85	4,797.20	29.28	33.68	-109.51	-642.18	-1,693.70	2,696.12	2,645.85	50.27	53.636		
5,400.00	5,317.42	5,268.88	5,093.79	29.62	35.12	-109.92	-671.34	-1,717.00	2,707.03	2,654.74	52.29	51.773		
5,500.00	5,417.42	5,468.90	5,293.21	29.96	35.92	-110.15	-684.95	-1,723.94	2,713.21	2,659.66	53.55	50.664		
5,600.00	5,517.42	5,634.22	5,458.44	30.29	36.47	-110.24	-690.20	-1,724.78	2,714.52	2,659.94	54.58	49.737		
5,700.00	5,617.42	5,719.10	5,543.28	30.64	36.74	-110.29	-692.67	-1,724.91	2,715.66	2,660.37	55.29	49.116		
5,800.00	5,717.42	5,876.39	5,700.54	30.98	37.22	-110.32	-694.27	-1,725.40	2,716.52	2,660.28	56.23	48.309		
5,900.00	5,817.42	5,955.42	5,779.55	31.33	37.42	-110.29	-692.68	-1,725.68	2,716.14	2,659.25	56.89	47.745		
5,900.65	5,818.07	5,955.93	5,780.07	31.33	37.42	-110.29	-692.67	-1,725.68	2,716.14	2,659.25	56.89	47.741		
6,000.00	5,917.42	6,047.95	5,872.06	31.68	37.67	-110.24	-690.70	-1,726.56	2,716.30	2,658.71	57.59	47.167		
6,100.00	6,017.42	6,148.72	5,972.80	32.03	37.94	-110.19	-688.50	-1,727.66	2,716.56	2,658.24	58.32	46.582		
6,200.00	6,117.42	6,229.36	6,053.41	32.38	38.16	-110.14	-686.59	-1,728.91	2,717.20	2,658.21	58.99	46.062		
6,300.00	6,217.42	6,326.51	6,150.52	32.74	38.44	-110.08	-684.33	-1,730.81	2,718.24	2,658.52	59.72	45.518		
6,400.00	6,317.42	6,430.43	6,254.38	33.09	38.73	-110.02	-681.66	-1,732.77	2,719.12	2,658.65	60.47	44.965		
6,476.01	6,393.43	6,495.22	6,319.14	33.37	38.92	-109.98	-680.10	-1,734.12	2,719.98	2,658.98	61.00	44.590		
6,500.00	6,417.42	6,516.54	6,340.45	33.45	38.98	-17.63	-679.64	-1,734.60	2,719.88	2,658.71	61.17	44.467		
6,550.00	6,467.25	6,560.92	6,384.81	33.59	39.12	-17.71	-678.78	-1,735.63	2,716.98	2,655.48	61.50	44.182		
6,600.00	6,516.64	6,607.09	6,430.96	33.71	39.26	-17.92	-678.00	-1,736.76	2,710.45	2,648.63	61.82	43.845		
6,650.00	6,565.26	6,654.74	6,478.59	33.80	39.41	-18.26	-677.22	-1,737.95	2,700.27	2,638.14	62.13	43.460		
6,700.00	6,612.83	6,703.76	6,527.58	33.88	39.56	-18.75	-676.42	-1,739.18	2,686.49	2,624.06	62.43	43.029		
6,750.00	6,659.04	6,753.05	6,576.85	33.94	39.71	-19.40	-675.47	-1,740.42	2,669.14	2,606.42	62.72	42.555		
6,800.00	6,703.62	6,801.16	6,624.93	33.99	39.86	-20.24	-674.36	-1,741.65	2,648.33	2,585.35	62.99	42.046		
6,850.00	6,746.28	6,847.42	6,671.16	34.03	40.00	-21.29	-673.03	-1,742.87	2,624.20	2,560.97	63.23	41.503		
6,900.00	6,786.76	6,886.91	6,710.61	34.08	40.12	-22.57	-671.75	-1,743.96	2,596.94	2,533.50	63.43	40.939		
6,950.00	6,824.83	6,923.58	6,747.25	34.13	40.22	-24.14	-670.53	-1,745.01	2,566.76	2,503.15	63.61	40.348		
7,000.00	6,860.23	6,963.00	6,786.63	34.20	40.34	-26.12	-669.18	-1,746.17	2,533.86	2,470.07	63.79	39.720		
7,050.00	6,892.75	7,005.33	6,828.91	34.30	40.47	-28.63	-667.65	-1,747.31	2,498.34	2,434.36	63.97	39.054		
7,100.00	6,922.20	7,043.57	6,867.11	34.43	40.58	-31.76	-666.19	-1,748.24	2,460.42	2,396.29	64.13	38.367		
7,150.00	6,948.38	7,068.53	6,892.05	34.60	40.65	-35.50	-665.22	-1,748.84	2,420.46	2,356.22	64.24	37.679		
7,200.00	6,971.15	7,092.65	6,916.14	34.82	40.72	-40.22	-664.29	-1,749.41	2,378.73	2,314.38	64.35	36.968		
7,250.00	6,990.35	7,113.17	6,936.64	35.09	40.79	-46.10	-663.49	-1,749.89	2,335.50	2,271.06	64.44	36.242		
7,300.00	7,005.87	7,129.98	6,953.43	35.43	40.83	-53.38	-662.84	-1,750.29	2,291.07	2,226.54	64.53	35.503		
7,350.00	7,017.62	7,140.47	6,963.91	35.81	40.87	-62.05	-662.43	-1,750.54	2,245.74	2,181.13	64.61	34.757		
7,400.00	7,025.52	7,148.60	6,972.03	36.26	40.89	-72.17	-662.11	-1,750.74	2,199.80	2,135.10	64.70	34.000		
7,450.00	7,029.52	7,153.27	6,976.70	36.75	40.90	-83.18	-661.93	-1,750.86	2,153.54	2,088.75	64.79	33.239		
7,483.86	7,030.00	7,154.43	6,977.86	37.12	40.91	-90.72	-661.88	-1,750.89	2,122.18	2,057.32	64.86	32.722		
7,500.00	7,029.80	7,154.60	6,978.02	37.30	40.91	-90.73	-661.88	-1,750.89	2,107.26	2,042.37	64.89	32.475		
7,600.00	7,028.57	7,155.63	6,979.06	38.58	40.91	-90.80	-661.84	-1,750.92	2,015.21	1,950.06	65.15	30.931		
7,700.00	7,027.34	7,156.68	6,980.10	40.10	40.91	-90.88	-661.80	-1,750.95	1,923.96	1,858.43	65.53	29.361		
7,800.00	7,026.10	7,157.74	6,981.16	41.83	40.92	-90.95	-661.76	-1,750.97	1,833.62	1,767.58	66.04	27.765		
7,900.00	7,024.87	7,158.81	6,982.23	43.74	40.92	-91.03	-661.71	-1,751.00	1,744.34	1,677.62	66.72	26.145		
8,000.00	7,023.63	7,159.89	6,983.31	45.82	40.92	-91.10	-661.67	-1,751.03	1,656.27	1,588.68	67.59	24.504		
8,100.00	7,022.40	7,160.98	6,984.40	48.04	40.93	-91.18	-661.63	-1,751.06	1,569.64	1,500.94	68.70	22.846		
8,200.00	7,021.17	7,162.08	6,985.50	50.38	40.93	-91.26	-661.58	-1,751.08	1,484.69	1,414.60	70.10	21.181		
8,300.00	7,019.93	7,163.20	6,986.61	52.82	40.93	-91.34	-661.54	-1,751.11	1,401.73	1,329.91	71.82	19.518		
8,400.00	7,018.70	7,164.33	6,987.74	55.35	40.94	-91.42	-661.50	-1,751.14	1,321.12	1,247.20	73.92	17.872		
8,500.00	7,017.47	7,165.47	6,988.88	57.97	40.94	-91.50	-661.45	-1,751.17	1,243.34	1,166.88	76.46	16.261		
8,600.00	7,016.23	7,166.62	6,990.03	60.65	40.94	-91.58	-661.41	-1,751.20	1,168.94	1,089.44	79.49	14.705		
8,700.00	7,015.00	7,167.78	6,991.20	63.39	40.95	-91.67	-661.36	-1,751.23	1,098.60	1,015.53	83.07	13.225		
8,800.00	7,013.76	7,168.96	6,992.37	66.19	40.95	-91.75	-661.31	-1,751.26	1,033.17	945.95	87.23	11.845		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,900.00	7,012.53	7,170.15	6,993.56	69.03	40.95	-91.84	-661.27	-1,751.29	973.63	881.67	91.96	10.588		
9,000.00	7,011.30	7,171.36	6,994.77	71.91	40.96	-91.92	-661.22	-1,751.33	921.12	823.91	97.21	9.476		
9,100.00	7,010.06	7,172.58	6,995.99	74.83	40.96	-92.01	-661.17	-1,751.36	876.91	774.06	102.85	8.526		
9,200.00	7,008.83	7,173.81	6,997.22	77.78	40.97	-92.10	-661.12	-1,751.39	842.30	733.68	108.63	7.754		
9,300.00	7,007.60	7,175.06	6,998.46	80.76	40.97	-92.18	-661.07	-1,751.42	818.52	704.32	114.20	7.167		
9,400.00	7,006.36	7,176.32	6,999.72	83.76	40.97	-92.27	-661.02	-1,751.46	806.52	687.34	119.18	6.767		
9,447.53	7,005.78	7,176.93	7,000.33	85.20	40.97	-92.32	-661.00	-1,751.47	805.12	683.90	121.22	6.642 CC		
9,500.00	7,005.13	7,177.60	7,001.00	86.79	40.98	-92.37	-660.97	-1,751.49	806.83	683.65	123.17	6.550 ES		
9,600.00	7,003.90	7,178.89	7,002.29	89.84	40.98	-92.46	-660.92	-1,751.53	819.43	693.47	125.95	6.506 SF		
9,700.00	7,002.66	7,180.19	7,003.59	92.90	40.98	-92.55	-660.87	-1,751.56	843.77	716.32	127.45	6.620		
9,800.00	7,001.43	7,181.52	7,004.91	95.99	40.99	-92.64	-660.82	-1,751.60	878.88	751.10	127.78	6.878		
9,900.00	7,000.19	7,182.85	7,006.25	99.08	40.99	-92.74	-660.77	-1,751.63	923.53	796.37	127.16	7.263		
10,000.00	6,998.96	7,184.21	7,007.60	102.19	41.00	-92.84	-660.71	-1,751.67	976.42	850.57	125.85	7.759		
10,100.00	6,997.73	7,185.58	7,008.97	105.32	41.00	-92.93	-660.66	-1,751.71	1,036.27	912.18	124.09	8.351		
10,200.00	6,996.49	7,186.96	7,010.35	108.45	41.00	-93.03	-660.61	-1,751.74	1,101.97	979.89	122.08	9.027		
10,300.00	6,995.26	7,188.37	7,011.75	111.60	41.01	-93.13	-660.55	-1,751.78	1,172.52	1,052.56	119.96	9.774		
10,400.00	6,994.03	7,189.79	7,013.17	114.75	41.01	-93.23	-660.49	-1,751.82	1,247.10	1,129.27	117.83	10.584		
10,500.00	6,992.79	7,191.23	7,014.61	117.92	41.02	-93.33	-660.44	-1,751.86	1,325.04	1,209.28	115.76	11.447		
10,600.00	6,991.56	7,192.68	7,016.06	121.09	41.02	-93.44	-660.38	-1,751.90	1,405.76	1,291.99	113.77	12.356		
10,700.00	6,990.33	7,194.16	7,017.54	124.27	41.03	-93.54	-660.32	-1,751.94	1,488.83	1,376.93	111.90	13.305		
10,800.00	6,989.09	7,195.65	7,019.03	127.46	41.03	-93.65	-660.26	-1,751.98	1,573.87	1,463.72	110.15	14.288		
10,900.00	6,987.86	7,197.16	7,020.54	130.65	41.03	-93.76	-660.20	-1,752.02	1,660.58	1,552.05	108.52	15.301		
11,000.00	6,986.62	7,198.69	7,022.07	133.85	41.04	-93.87	-660.14	-1,752.07	1,748.70	1,641.69	107.01	16.341		
11,100.00	6,985.39	7,200.24	7,023.61	137.06	41.04	-93.98	-660.08	-1,752.11	1,838.04	1,732.42	105.62	17.403		
11,200.00	6,984.16	7,201.81	7,025.18	140.27	41.05	-94.09	-660.02	-1,752.15	1,928.42	1,824.10	104.32	18.485		
11,300.00	6,982.92	7,203.40	7,026.77	143.48	41.05	-94.20	-659.96	-1,752.20	2,019.71	1,916.58	103.13	19.584		
11,400.00	6,981.69	7,205.01	7,028.38	146.70	41.06	-94.32	-659.89	-1,752.24	2,111.79	2,009.77	102.03	20.699		
11,500.00	6,980.46	7,206.64	7,030.01	149.92	41.06	-94.43	-659.83	-1,752.29	2,204.56	2,103.56	101.00	21.827		
11,600.00	6,979.22	7,208.30	7,031.66	153.15	41.07	-94.55	-659.76	-1,752.34	2,297.93	2,197.88	100.06	22.967		
11,700.00	6,977.99	7,209.98	7,033.34	156.38	41.07	-94.67	-659.69	-1,752.38	2,391.84	2,292.66	99.18	24.117		
11,800.00	6,976.75	7,211.67	7,035.03	159.62	41.08	-94.79	-659.63	-1,752.43	2,486.22	2,387.86	98.36	25.276		
11,900.00	6,975.52	7,213.40	7,036.75	162.86	41.08	-94.91	-659.56	-1,752.48	2,581.03	2,483.42	97.61	26.443		
12,000.00	6,974.29	7,215.14	7,038.50	166.10	41.09	-95.03	-659.49	-1,752.53	2,676.21	2,579.31	96.90	27.618		
12,100.00	6,973.05	7,216.91	7,040.26	169.34	41.09	-95.16	-659.42	-1,752.58	2,771.73	2,675.48	96.25	28.798		
12,200.00	6,971.82	7,218.70	7,042.05	172.59	41.10	-95.29	-659.35	-1,752.63	2,867.55	2,771.92	95.64	29.984		
12,300.00	6,970.59	7,220.52	7,043.87	175.84	41.10	-95.42	-659.28	-1,752.69	2,963.65	2,868.59	95.06	31.175		
12,400.00	6,969.35	7,222.36	7,045.71	179.09	41.11	-95.55	-659.20	-1,752.74	3,060.00	2,965.47	94.53	32.370		
12,500.00	6,968.12	7,224.23	7,047.58	182.35	41.12	-95.68	-659.13	-1,752.80	3,156.58	3,062.54	94.03	33.569		
12,600.00	6,966.89	7,226.13	7,049.47	185.60	41.12	-95.81	-659.05	-1,752.85	3,253.36	3,159.79	93.57	34.771		
12,700.00	6,965.65	7,228.05	7,051.39	188.86	41.13	-95.95	-658.98	-1,752.91	3,350.33	3,257.20	93.13	35.975		
12,800.00	6,964.42	7,229.98	7,053.34	192.12	41.12	-96.08	-658.90	-1,752.97	3,447.48	3,354.76	92.72	37.182		
12,900.00	6,963.18	7,227.76	7,051.10	195.38	41.13	-96.21	-658.82	-1,752.99	3,544.78	3,452.44	92.33	38.391		
13,000.00	6,961.95	7,229.23	7,052.57	198.65	41.13	-96.34	-658.74	-1,752.99	3,642.22	3,550.25	91.97	39.601		
13,100.00	6,960.72	7,230.69	7,054.03	201.91	41.13	-96.47	-658.66	-1,752.97	3,739.80	3,648.17	91.63	40.813		
13,200.00	6,959.48	7,232.16	7,055.50	205.18	41.14	-96.60	-658.58	-1,753.01	3,837.51	3,746.20	91.31	42.026		
13,300.00	6,958.25	7,233.62	7,056.96	208.45	41.14	-96.73	-658.50	-1,753.06	3,935.33	3,844.32	91.01	43.239		
13,400.00	6,957.02	7,235.08	7,058.42	211.72	41.15	-96.86	-658.42	-1,753.10	4,033.26	3,942.53	90.73	44.453		
13,500.00	6,955.78	7,236.54	7,059.87	214.99	41.15	-96.99	-658.34	-1,753.14	4,131.28	4,040.82	90.46	45.668		
13,600.00	6,954.55	7,238.00	7,061.33	218.27	41.16	-97.12	-658.26	-1,753.18	4,229.40	4,139.19	90.21	46.882		
13,700.00	6,953.32	7,239.46	7,062.78	221.54	41.16	-97.25	-658.18	-1,753.22	4,327.60	4,237.62	89.98	48.097		
13,800.00	6,952.08	7,240.91	7,064.24	224.82	41.17	-97.38	-658.10	-1,753.26	4,425.88	4,336.13	89.75	49.311		
13,900.00	6,950.85	7,242.36	7,065.69	228.10	41.17	-97.51	-658.02	-1,753.30	4,524.24	4,434.70	89.54	50.526		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
14,000.00	6,949.61	7,243.81	7,067.13	231.37	41.17	-97.07	-658.32	-1,753.35	4,622.67	4,533.32	89.35	51.739		
14,100.00	6,948.38	7,245.26	7,068.58	234.65	41.18	-97.17	-658.26	-1,753.39	4,721.16	4,632.00	89.16	52.952		
14,200.00	6,947.15	7,246.71	7,070.02	237.93	41.18	-97.27	-658.20	-1,753.43	4,819.72	4,730.73	88.98	54.164		
14,300.00	6,945.91	7,248.15	7,071.47	241.22	41.19	-97.37	-658.14	-1,753.47	4,918.33	4,829.51	88.82	55.375		
14,400.00	6,944.68	7,249.59	7,072.91	244.50	41.19	-97.47	-658.08	-1,753.51	5,017.00	4,928.34	88.66	56.586		
14,500.00	6,943.45	7,251.03	7,074.35	247.78	41.20	-97.58	-658.02	-1,753.55	5,115.72	5,027.20	88.52	57.795		
14,600.00	6,942.21	7,252.47	7,075.78	251.07	41.20	-97.68	-657.96	-1,753.59	5,214.48	5,126.11	88.38	59.003		
14,700.00	6,940.98	7,253.91	7,077.22	254.35	41.20	-97.78	-657.90	-1,753.63	5,313.30	5,225.05	88.25	60.209		
14,800.00	6,939.74	7,255.35	7,078.65	257.64	41.21	-97.88	-657.84	-1,753.67	5,412.15	5,324.03	88.13	61.414		
14,900.00	6,938.51	7,256.78	7,080.08	260.92	41.21	-97.98	-657.78	-1,753.71	5,511.05	5,423.04	88.01	62.618		
15,000.00	6,937.28	7,258.21	7,081.51	264.21	41.22	-98.08	-657.72	-1,753.75	5,609.98	5,522.08	87.90	63.820		
15,100.00	6,936.04	7,259.64	7,082.94	267.50	41.22	-98.18	-657.66	-1,753.79	5,708.96	5,621.16	87.80	65.021		
15,200.00	6,934.81	7,261.07	7,084.37	270.79	41.23	-98.28	-657.60	-1,753.83	5,807.96	5,720.26	87.71	66.220		
15,300.00	6,933.58	7,262.49	7,085.79	274.08	41.23	-98.38	-657.54	-1,753.87	5,907.00	5,819.39	87.62	67.417		
15,400.00	6,932.34	7,263.92	7,087.21	277.37	41.23	-98.48	-657.48	-1,753.91	6,006.08	5,918.54	87.54	68.612		
15,500.00	6,931.11	7,265.34	7,088.63	280.66	41.24	-98.58	-657.42	-1,753.95	6,105.18	6,017.72	87.46	69.805		
15,589.88	6,930.00	7,266.62	7,089.91	283.62	41.24	-98.67	-657.37	-1,753.99	6,194.28	6,106.88	87.40	70.876		

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-76.20	226.98	-923.92	952.11					
100.00	100.00	60.68	60.68	3.28	3.29	-76.20	227.02	-923.96	951.45	944.87	6.57	144.753		
200.00	200.00	155.75	155.75	3.34	3.34	-76.18	227.37	-924.37	951.95	945.27	6.68	142.484		
300.00	299.98	267.33	267.33	3.44	3.47	-149.41	226.72	-924.79	953.69	946.78	6.91	138.015		
400.00	399.84	400.00	411.87	3.60	3.69	-150.05	218.81	-922.16	955.06	947.76	7.31	130.673		
500.00	499.45	580.98	578.49	3.81	4.16	-151.67	195.95	-909.25	950.99	942.95	8.04	118.316		
580.90	579.78	658.21	654.51	4.02	4.43	-152.55	184.23	-902.24	949.78	941.31	8.46	112.204		
600.00	598.70	676.57	672.59	4.08	4.49	-152.76	181.50	-900.59	949.84	941.27	8.57	110.788		
700.00	697.47	770.82	765.46	4.40	4.85	-153.86	167.74	-892.22	952.47	943.29	9.18	103.734		
774.77	770.92	845.21	838.75	4.68	5.16	-154.77	156.78	-885.75	956.88	947.18	9.70	98.615		
800.00	795.65	870.25	863.41	4.78	5.27	-155.10	153.00	-883.55	958.70	948.81	9.89	96.963		
900.00	893.64	990.57	981.28	5.20	5.83	-156.84	131.80	-872.23	965.29	954.52	10.77	89.650		
1,000.00	991.63	1,121.88	1,108.36	5.66	6.56	-159.03	102.92	-856.31	969.34	957.54	11.81	82.093		
1,100.00	1,089.63	1,232.99	1,214.67	6.15	7.25	-161.06	74.91	-840.18	971.63	958.81	12.82	75.788		
1,200.00	1,187.62	1,337.35	1,313.85	6.65	7.95	-163.06	46.77	-824.01	973.90	960.04	13.86	70.258		
1,300.00	1,285.62	1,436.22	1,407.62	7.17	8.64	-164.97	19.81	-807.99	976.58	961.66	14.92	65.463		
1,400.00	1,383.61	1,534.30	1,500.81	7.71	9.35	-166.80	-6.11	-791.75	980.00	964.00	16.00	61.260		
1,500.00	1,481.60	1,631.16	1,592.74	8.25	10.05	-168.59	-31.74	-775.25	983.99	966.89	17.10	57.554		
1,600.00	1,579.60	1,725.10	1,682.06	8.80	10.75	-170.30	-56.23	-759.54	989.27	971.07	18.20	54.358		
1,700.00	1,677.59	1,823.58	1,775.71	9.36	11.48	-172.06	-81.56	-742.63	995.05	975.70	19.35	51.435		
1,800.00	1,775.59	1,918.22	1,866.13	9.92	12.17	-173.64	-104.45	-726.61	1,001.81	981.34	20.47	48.947		
1,900.00	1,873.58	2,002.05	1,946.34	10.49	12.78	-175.01	-124.52	-712.71	1,009.72	988.19	21.52	46.913		
2,000.00	1,971.57	2,078.69	2,019.48	11.06	13.35	-176.31	-144.23	-701.13	1,020.11	997.57	22.54	45.264		
2,100.00	2,069.57	2,162.62	2,099.71	11.64	13.97	-177.70	-166.12	-689.80	1,032.91	1,009.30	23.61	43.748		
2,200.00	2,167.56	2,271.03	2,203.46	12.22	14.76	-179.44	-193.92	-675.11	1,046.42	1,021.54	24.88	42.051		
2,300.00	2,265.56	2,374.11	2,302.06	12.80	15.53	-178.96	-219.74	-659.71	1,059.23	1,033.11	26.12	40.549		
2,400.00	2,363.55	2,465.69	2,389.65	13.38	16.21	-177.57	-242.68	-646.02	1,072.79	1,045.52	27.27	39.335		
2,500.00	2,461.54	2,563.15	2,482.88	13.97	16.93	-176.13	-267.18	-631.61	1,087.23	1,058.75	28.48	38.180		
2,600.00	2,559.54	2,641.51	2,557.76	14.55	17.53	-174.98	-287.26	-620.24	1,102.78	1,073.25	29.52	37.353		
2,700.00	2,657.53	2,733.17	2,644.80	15.14	18.24	-173.57	-312.89	-607.30	1,120.15	1,089.44	30.71	36.470		
2,800.00	2,755.53	2,844.02	2,749.83	15.73	19.12	-171.89	-344.19	-590.64	1,137.62	1,105.51	32.11	35.432		
2,900.00	2,853.52	2,935.29	2,837.03	16.32	19.82	-170.66	-367.57	-577.28	1,155.05	1,121.78	33.27	34.714		
3,000.00	2,951.52	3,006.95	2,905.50	16.91	20.36	-169.72	-386.34	-567.53	1,174.20	1,139.96	34.24	34.292		
3,100.00	3,049.51	3,105.83	2,999.64	17.51	21.12	-168.40	-413.59	-554.43	1,194.81	1,159.31	35.49	33.662		
3,200.00	3,147.50	3,223.65	3,112.50	18.10	22.00	-166.99	-443.42	-538.54	1,214.74	1,177.83	36.91	32.914		
3,300.00	3,245.50	3,329.65	3,214.63	18.70	22.75	-165.87	-467.69	-523.80	1,233.60	1,195.43	38.16	32.323		
3,400.00	3,343.49	3,405.14	3,280.45	19.29	23.36	-164.57	-494.20	-507.52	1,253.03	1,213.83	39.20	31.967		
3,500.00	3,441.49	3,508.02	3,393.99	19.89	25.34	-158.41	-514.21	-493.86	1,280.20	1,238.37	41.83	30.605		
3,600.00	3,539.48	3,754.03	3,487.66	20.48	25.95	-157.78	-531.18	-421.38	1,299.53	1,256.61	42.91	30.282		
3,700.00	3,637.47	3,840.94	3,572.13	21.08	26.52	-157.16	-548.05	-409.80	1,319.79	1,275.85	43.94	30.033		
3,800.00	3,735.47	3,950.99	3,679.23	21.68	27.23	-156.42	-568.68	-395.18	1,339.89	1,294.71	45.17	29.661		
3,900.00	3,833.46	4,041.49	3,767.63	22.27	27.79	-155.90	-584.27	-383.74	1,359.67	1,313.47	46.20	29.430		
4,000.00	3,931.46	4,126.98	3,851.82	22.87	28.27	-155.57	-596.94	-375.98	1,380.61	1,333.48	47.13	29.293		
4,100.00	4,029.45	4,220.84	3,944.74	23.47	28.75	-155.35	-608.65	-369.83	1,401.98	1,353.91	48.08	29.161		
4,200.00	4,127.44	4,348.75	4,071.78	24.07	29.34	-155.20	-621.82	-363.07	1,423.02	1,373.79	49.23	28.907		
4,300.00	4,225.44	4,447.51	4,170.19	24.67	29.75	-155.20	-628.77	-358.63	1,442.40	1,392.27	50.12	28.777		
4,400.00	4,323.43	4,551.30	4,273.81	25.27	30.13	-155.32	-633.74	-355.73	1,461.59	1,410.59	51.00	28.659		
4,507.81	4,429.08	4,666.72	4,389.19	25.92	30.51	-155.58	-636.57	-354.27	1,481.91	1,430.00	51.91	28.548		
4,600.00	4,519.70	4,759.80	4,482.26	26.45	30.75	-155.99	-636.39	-354.31	1,497.29	1,444.69	52.60	28.466		
4,700.00	4,618.56	4,851.85	4,574.31	26.98	30.98	-156.35	-635.96	-355.03	1,511.36	1,458.09	53.27	28.371		
4,800.00	4,717.88	4,950.39	4,672.84	27.46	31.23	-156.66	-635.28	-356.32	1,522.55	1,468.59	53.95	28.220		
4,900.00	4,817.54	5,052.48	4,774.91	27.89	31.48	-156.92	-634.09	-357.92	1,530.46	1,475.82	54.63	28.013		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,000.00	4,917.43	5,148.61	4,871.01	28.28	31.71	157.11	-732.50	-359.83	1,535.18	1,479.91	55.27	27.777		
5,082.58	5,000.00	5,230.98	4,953.33	28.57	31.91	-129.61	-730.77	-361.94	1,536.80	1,481.01	55.79	27.548		
5,100.00	5,017.42	5,248.44	4,970.79	28.62	31.95	-129.59	-730.40	-362.38	1,536.91	1,481.01	55.89	27.497		
5,200.00	5,117.42	5,336.58	5,058.89	28.95	32.18	-129.51	-729.41	-364.40	1,537.95	1,481.48	56.47	27.235		
5,300.00	5,217.42	5,433.17	5,155.46	29.28	32.44	-129.46	-729.42	-366.40	1,539.55	1,482.45	57.10	26.960		
5,400.00	5,317.42	5,556.58	5,278.85	29.62	32.77	-129.37	-728.15	-368.78	1,540.38	1,482.52	57.87	26.619		
5,500.00	5,417.42	5,678.67	5,400.90	29.96	33.10	-129.26	-725.42	-370.07	1,539.78	1,481.17	58.61	26.270		
5,600.00	5,517.42	5,770.58	5,492.77	30.29	33.34	-129.18	-722.91	-370.73	1,538.62	1,479.39	59.23	25.975		
5,675.54	5,592.96	5,833.79	5,555.96	30.55	33.52	-129.11	-721.45	-371.57	1,538.31	1,478.63	59.68	25.777		
5,700.00	5,617.42	5,854.04	5,576.20	30.64	33.57	-129.10	-721.13	-371.87	1,538.34	1,478.52	59.82	25.716		
5,800.00	5,717.42	5,950.94	5,673.09	30.98	33.86	-129.07	-720.79	-372.74	1,538.81	1,478.31	60.50	25.436		
5,900.00	5,817.42	6,055.97	5,778.10	31.33	34.24	-129.15	-722.76	-371.57	1,539.14	1,477.86	61.27	25.120		
6,000.00	5,917.42	6,157.42	5,879.52	31.68	34.60	-129.24	-724.70	-370.16	1,539.27	1,477.23	62.04	24.812		
6,100.00	6,017.42	6,261.16	5,983.25	32.03	34.95	-129.26	-725.07	-369.75	1,539.18	1,476.39	62.79	24.513		
6,194.92	6,112.34	6,353.25	6,075.34	32.36	35.25	-129.26	-725.03	-369.57	1,539.02	1,475.56	63.46	24.251		
6,200.00	6,117.42	6,357.89	6,079.98	32.38	35.26	-129.26	-725.01	-369.59	1,539.02	1,475.52	63.49	24.238		
6,300.00	6,217.42	6,456.60	6,178.68	32.74	35.56	-129.21	-724.08	-370.58	1,539.20	1,475.02	64.19	23.980		
6,400.00	6,317.42	6,556.07	6,278.10	33.09	35.84	-129.09	-721.55	-372.74	1,539.27	1,474.41	64.86	23.731		
6,476.01	6,393.43	6,630.17	6,352.11	33.37	36.05	-128.96	-718.97	-375.04	1,539.44	1,474.08	65.36	23.552		
6,500.00	6,417.42	6,653.66	6,375.57	33.45	36.11	-36.61	-718.06	-375.86	1,539.15	1,473.63	65.52	23.492		
6,550.00	6,467.25	6,720.39	6,442.21	33.59	36.29	-36.76	-715.31	-378.02	1,536.06	1,470.15	65.91	23.307		
6,600.00	6,516.64	6,780.97	6,502.72	33.71	36.47	-37.25	-712.83	-378.96	1,529.14	1,462.89	66.25	23.080		
6,650.00	6,565.26	6,822.78	6,544.52	33.80	36.59	-37.99	-711.55	-379.30	1,519.22	1,452.70	66.52	22.839		
6,700.00	6,612.83	6,861.47	6,583.20	33.88	36.71	-38.98	-710.80	-379.50	1,506.55	1,439.79	66.76	22.567		
6,750.00	6,659.04	6,894.42	6,616.15	33.94	36.81	-40.20	-710.47	-379.75	1,491.39	1,424.42	66.97	22.270		
6,800.00	6,703.62	6,926.37	6,648.09	33.99	36.91	-41.68	-710.42	-380.13	1,473.89	1,406.73	67.16	21.947		
6,850.00	6,746.28	6,961.05	6,682.77	34.03	37.02	-43.50	-710.60	-380.72	1,454.17	1,386.81	67.36	21.589		
6,900.00	6,786.76	6,997.71	6,719.42	34.08	37.14	-45.70	-710.72	-381.58	1,432.22	1,364.65	67.57	21.198		
6,950.00	6,824.83	7,033.21	6,754.91	34.13	37.25	-48.24	-710.71	-382.67	1,408.21	1,340.44	67.77	20.779		
7,000.00	6,860.23	7,071.40	6,793.07	34.20	37.37	-51.27	-710.50	-384.05	1,382.27	1,314.27	68.00	20.328		
7,050.00	6,892.75	7,107.04	6,828.67	34.30	37.48	-54.69	-710.05	-385.52	1,354.59	1,286.37	68.23	19.854		
7,100.00	6,922.20	7,139.81	6,861.40	34.43	37.57	-58.48	-709.38	-387.07	1,325.48	1,257.02	68.46	19.362		
7,150.00	6,948.38	7,169.95	6,891.47	34.60	37.66	-62.61	-708.43	-388.79	1,295.23	1,226.53	68.70	18.854		
7,200.00	6,971.15	7,197.36	6,918.80	34.82	37.74	-67.02	-707.27	-390.62	1,264.15	1,195.18	68.96	18.331		
7,250.00	6,990.35	7,223.41	6,944.74	35.09	37.81	-71.71	-705.95	-392.52	1,232.57	1,163.31	69.26	17.795		
7,300.00	7,005.87	7,246.01	6,967.27	35.43	37.87	-76.47	-704.78	-394.07	1,200.85	1,131.25	69.59	17.255		
7,350.00	7,017.62	7,263.64	6,984.84	35.81	37.92	-81.05	-703.87	-395.20	1,169.37	1,099.42	69.96	16.716		
7,400.00	7,025.52	7,276.37	6,997.52	36.26	37.95	-85.32	-703.22	-395.97	1,138.56	1,068.21	70.35	16.183		
7,450.00	7,029.52	7,284.29	7,005.42	36.75	37.97	-89.14	-702.81	-396.43	1,108.80	1,038.01	70.79	15.663		
7,483.86	7,030.00	7,286.99	7,008.11	37.12	37.98	-91.44	-702.67	-396.58	1,089.43	1,018.33	71.11	15.321		
7,500.00	7,029.80	7,287.77	7,008.89	37.30	37.98	-91.49	-702.63	-396.63	1,080.46	1,009.19	71.27	15.161		
7,600.00	7,028.57	7,292.47	7,013.58	38.58	37.99	-91.79	-702.39	-396.89	1,028.72	956.32	72.40	14.209		
7,700.00	7,027.34	7,296.94	7,018.04	40.10	38.01	-92.07	-702.16	-397.14	984.43	910.66	73.77	13.344		
7,800.00	7,026.10	7,301.29	7,022.37	41.83	38.02	-92.35	-701.93	-397.37	948.63	873.29	75.34	12.591		
7,900.00	7,024.87	7,305.69	7,026.76	43.74	38.03	-92.63	-701.70	-397.61	922.32	845.30	77.02	11.975		
8,000.00	7,023.63	7,310.14	7,031.19	45.82	38.04	-92.91	-701.47	-397.86	906.32	827.60	78.71	11.514		
8,096.60	7,022.44	7,314.48	7,035.52	47.96	38.05	-93.19	-701.24	-398.10	901.16	820.89	80.27	11.226 CC		
8,100.00	7,022.40	7,314.63	7,035.67	48.04	38.05	-93.20	-701.23	-398.11	901.17	820.85	80.32	11.219 ES		
8,200.00	7,021.17	7,319.17	7,040.20	50.38	38.07	-93.48	-700.99	-398.36	907.07	825.30	81.77	11.093 SF		
8,300.00	7,019.93	7,323.76	7,044.77	52.82	38.08	-93.78	-700.74	-398.62	923.79	840.80	82.99	11.131		
8,400.00	7,018.70	7,328.40	7,049.40	55.35	38.09	-94.07	-700.49	-398.88	950.78	866.80	83.98	11.322		
8,500.00	7,017.47	7,333.09	7,054.08	57.97	38.11	-94.37	-700.23	-399.14	987.18	902.45	84.73	11.651		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
8,600.00	7,016.23	7,337.83	7,058.80	60.65	38.12	-94.67	-699.97	-399.41	1,032.00	946.73	85.27	12.102		
8,700.00	7,015.00	7,342.63	7,063.58	63.39	38.13	-94.97	-699.70	-399.68	1,084.20	998.57	85.63	12.661		
8,800.00	7,013.76	7,347.48	7,068.42	66.19	38.14	-95.28	-699.42	-399.96	1,142.77	1,056.93	85.84	13.313		
8,900.00	7,012.53	7,352.38	7,073.30	69.03	38.16	-95.59	-699.15	-400.24	1,206.78	1,120.85	85.93	14.044		
9,000.00	7,011.30	7,357.34	7,078.24	71.91	38.17	-95.91	-698.86	-400.52	1,275.40	1,189.47	85.93	14.842		
9,100.00	7,010.06	7,362.35	7,083.24	74.83	38.19	-96.22	-698.57	-400.81	1,347.94	1,262.08	85.86	15.699		
9,200.00	7,008.83	7,367.42	7,088.30	77.78	38.20	-96.55	-698.27	-401.11	1,423.80	1,338.05	85.75	16.604		
9,300.00	7,007.60	7,372.55	7,093.41	80.76	38.21	-96.87	-697.97	-401.40	1,502.47	1,416.87	85.61	17.551		
9,400.00	7,006.36	7,377.74	7,098.58	83.76	38.23	-97.20	-697.66	-401.71	1,583.54	1,498.10	85.44	18.534		
9,500.00	7,005.13	7,382.99	7,103.81	86.79	38.24	-97.53	-697.35	-402.02	1,666.65	1,581.39	85.26	19.548		
9,600.00	7,003.90	7,388.30	7,109.10	89.84	38.26	-97.87	-697.02	-402.33	1,751.51	1,666.43	85.07	20.588		
9,700.00	7,002.66	7,393.67	7,114.45	92.90	38.27	-98.21	-696.70	-402.65	1,837.88	1,752.99	84.89	21.651		
9,800.00	7,001.43	7,399.11	7,119.87	95.99	38.29	-98.55	-696.36	-402.98	1,925.56	1,840.86	84.70	22.733		
9,900.00	7,000.19	7,404.61	7,125.35	99.08	38.30	-98.89	-696.02	-403.31	2,014.38	1,929.85	84.52	23.832		
10,000.00	6,998.96	7,410.18	7,130.89	102.19	38.32	-99.24	-695.67	-403.64	2,104.19	2,019.84	84.35	24.946		
10,100.00	6,997.73	7,415.81	7,136.50	105.32	38.33	-99.60	-695.31	-403.98	2,194.86	2,110.68	84.18	26.073		
10,200.00	6,996.49	7,421.51	7,142.18	108.45	38.35	-99.96	-694.95	-404.33	2,286.31	2,202.28	84.02	27.211		
10,300.00	6,995.26	7,427.28	7,147.93	111.60	38.36	-100.32	-694.57	-404.68	2,378.43	2,294.56	83.87	28.358		
10,400.00	6,994.03	7,433.00	7,153.71	114.75	38.37	-100.68	-694.19	-405.03	2,471.24	2,387.81	83.73	29.511		
10,500.00	6,992.79	7,438.73	7,159.50	117.92	38.38	-101.04	-693.81	-405.38	2,564.56	2,480.89	83.67	30.652		
10,600.00	6,991.56	7,444.46	7,165.29	121.09	38.39	-101.40	-693.43	-405.73	2,658.35	2,574.80	83.55	31.818		
10,700.00	6,990.33	7,450.19	7,171.08	124.27	38.40	-101.76	-693.05	-406.08	2,752.58	2,669.15	83.44	32.990		
10,800.00	6,989.09	7,455.92	7,176.87	127.46	38.41	-102.12	-692.67	-406.43	2,847.21	2,763.88	83.33	34.167		
10,900.00	6,987.86	7,461.65	7,182.66	130.65	38.42	-102.48	-692.29	-406.78	2,942.19	2,858.95	83.23	35.349		
11,000.00	6,986.62	7,467.38	7,188.45	133.85	38.43	-102.84	-691.91	-407.13	3,037.49	2,954.35	83.14	36.534		
11,100.00	6,985.39	7,473.11	7,194.24	137.06	38.44	-103.20	-691.53	-407.48	3,133.08	3,050.03	83.05	37.723		
11,200.00	6,984.16	7,478.84	7,200.03	140.27	38.45	-103.56	-691.15	-407.83	3,228.94	3,145.97	82.97	38.915		
11,300.00	6,982.92	7,484.57	7,205.82	143.48	38.46	-103.92	-690.77	-408.18	3,325.05	3,242.15	82.90	40.110		
11,400.00	6,981.69	7,490.30	7,211.61	146.70	38.47	-104.28	-690.39	-408.53	3,421.38	3,338.55	82.83	41.307		
11,500.00	6,980.46	7,496.03	7,217.40	149.92	38.48	-104.64	-690.01	-408.88	3,517.91	3,435.15	82.76	42.505		
11,600.00	6,979.22	7,501.76	7,223.19	153.15	38.49	-105.00	-689.63	-409.23	3,614.63	3,531.93	82.70	43.706		
11,700.00	6,977.99	7,507.49	7,228.98	156.38	38.50	-105.36	-689.25	-409.58	3,711.53	3,628.88	82.65	44.907		
11,800.00	6,976.75	7,513.22	7,234.77	159.62	38.51	-105.72	-688.87	-410.00	3,808.59	3,725.99	82.60	46.110		
11,900.00	6,975.52	7,518.95	7,240.56	162.86	38.52	-106.08	-688.49	-410.41	3,905.79	3,823.24	82.55	47.313		
12,000.00	6,974.29	7,524.68	7,246.35	166.10	38.53	-106.44	-688.11	-410.82	4,003.13	3,920.62	82.51	48.517		
12,100.00	6,973.05	7,530.41	7,252.14	169.34	38.54	-106.80	-687.73	-411.23	4,100.60	4,018.13	82.47	49.722		
12,200.00	6,971.82	7,536.14	7,257.93	172.59	38.55	-107.16	-687.35	-411.64	4,198.19	4,115.76	82.44	50.927		
12,300.00	6,970.59	7,541.87	7,263.72	175.84	38.56	-107.52	-686.97	-412.05	4,295.89	4,213.49	82.40	52.132		
12,400.00	6,969.35	7,547.60	7,269.51	179.09	38.57	-107.88	-686.59	-412.46	4,393.70	4,311.32	82.38	53.337		
12,500.00	6,968.12	7,553.33	7,275.30	182.35	38.58	-108.24	-686.21	-412.87	4,491.60	4,409.24	82.35	54.541		
12,600.00	6,966.89	7,559.06	7,281.09	185.60	38.59	-108.60	-685.83	-413.28	4,589.59	4,507.26	82.33	55.745		
12,700.00	6,965.65	7,564.79	7,286.88	188.86	38.60	-108.96	-685.45	-413.69	4,687.66	4,605.35	82.31	56.949		
12,800.00	6,964.42	7,570.52	7,292.67	192.12	38.61	-109.32	-685.07	-414.10	4,785.82	4,703.52	82.30	58.153		
12,900.00	6,963.18	7,576.25	7,298.46	195.38	38.62	-109.68	-684.69	-414.51	4,884.05	4,801.76	82.29	59.355		
13,000.00	6,961.95	7,582.00	7,304.25	198.65	38.63	-110.04	-684.31	-414.92	4,982.35	4,900.07	82.28	60.557		
13,100.00	6,960.72	7,587.73	7,310.04	201.91	38.64	-110.40	-683.93	-415.33	5,080.72	4,998.45	82.27	61.758		
13,200.00	6,959.48	7,593.46	7,315.83	205.18	38.65	-110.76	-683.55	-415.74	5,179.15	5,096.88	82.26	62.958		
13,300.00	6,958.25	7,600.00	7,321.62	208.45	38.66	-111.12	-683.17	-416.15	5,277.63	5,195.37	82.26	64.157		
13,400.00	6,957.02	7,606.73	7,327.41	211.72	38.67	-111.48	-682.79	-416.56	5,376.18	5,293.92	82.26	65.354		
13,500.00	6,955.78	7,613.46	7,333.20	214.99	38.68	-111.84	-682.41	-416.97	5,474.78	5,392.51	82.26	66.551		
13,600.00	6,954.55	7,620.19	7,338.99	218.27	38.69	-112.20	-682.03	-417.38	5,573.42	5,491.15	82.27	67.746		
13,700.00	6,953.32	7,626.92	7,344.78	221.54	38.70	-112.56	-681.65	-417.79	5,672.12	5,589.84	82.28	68.940		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well Boomerang 33N-6C-M
Project:	SEC 5-T5N-R66W	TVD Reference:	GL 4770+KB 20 @ 4790.00ft
Reference Site:	Boomerang 21-5	MD Reference:	GL 4770+KB 20 @ 4790.00ft
Site Error:	3.28 ft	North Reference:	True
Reference Well:	Boomerang 33N-6C-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

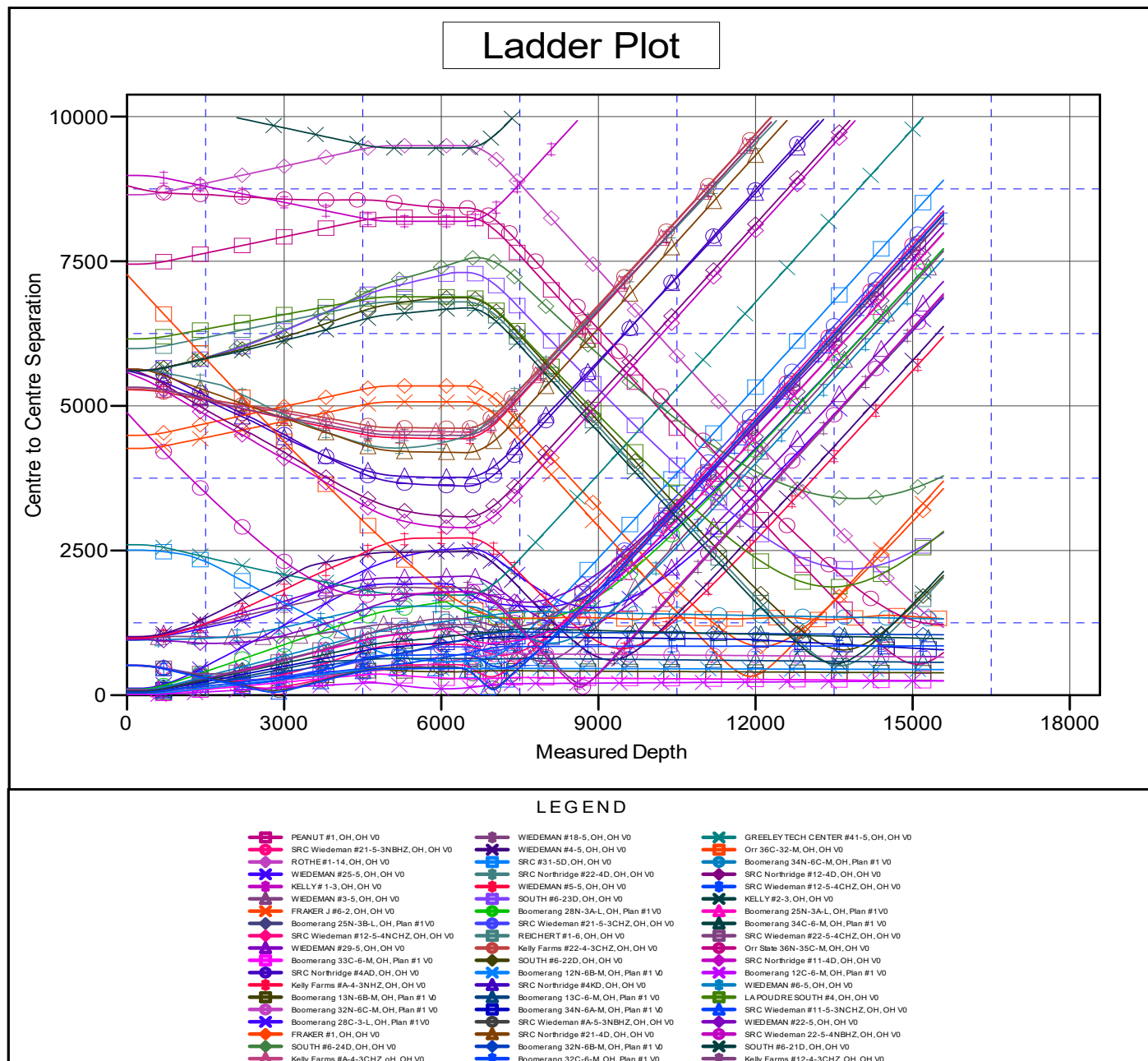
Offset Design													Offset Site Error:	0.00 ft
Survey Program: 16-MWD													Offset Well Error:	3.28 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
13,800.00	6,952.08	7,408.00	7,128.73	224.82	38.31	-99.11	-695.81	-403.51	5,770.86	5,688.57	82.29	70.132		
13,900.00	6,950.85	7,408.00	7,128.73	228.10	38.31	-99.11	-695.81	-403.51	5,869.64	5,787.34	82.30	71.323		
14,000.00	6,949.61	7,408.00	7,128.73	231.37	38.31	-99.11	-695.81	-403.51	5,968.46	5,886.15	82.31	72.512		
14,100.00	6,948.38	7,408.00	7,128.73	234.65	38.31	-99.11	-695.81	-403.51	6,067.32	5,985.00	82.32	73.700		
14,200.00	6,947.15	7,408.00	7,128.73	237.93	38.31	-99.11	-695.81	-403.51	6,166.22	6,083.88	82.34	74.886		
14,300.00	6,945.91	7,408.00	7,128.73	241.22	38.31	-99.11	-695.81	-403.51	6,265.15	6,182.79	82.36	76.070		
14,400.00	6,944.68	7,408.00	7,128.73	244.50	38.31	-99.11	-695.81	-403.51	6,364.12	6,281.74	82.38	77.252		
14,500.00	6,943.45	7,408.00	7,128.73	247.78	38.31	-99.11	-695.81	-403.51	6,463.12	6,380.72	82.40	78.433		
14,600.00	6,942.21	7,408.00	7,128.73	251.07	38.31	-99.11	-695.81	-403.51	6,562.15	6,479.72	82.43	79.612		
14,700.00	6,940.98	7,408.00	7,128.73	254.35	38.31	-99.11	-695.81	-403.51	6,661.21	6,578.75	82.45	80.789		
14,800.00	6,939.74	7,408.00	7,128.73	257.64	38.31	-99.11	-695.81	-403.51	6,760.29	6,677.81	82.48	81.963		
14,900.00	6,938.51	7,408.00	7,128.73	260.92	38.31	-99.11	-695.81	-403.51	6,859.40	6,776.89	82.51	83.136		
15,000.00	6,937.28	7,408.00	7,128.73	264.21	38.31	-99.11	-695.81	-403.51	6,958.54	6,876.00	82.54	84.307		
15,100.00	6,936.04	7,408.00	7,128.73	267.50	38.31	-99.11	-695.81	-403.51	7,057.70	6,975.13	82.57	85.475		
15,200.00	6,934.81	7,408.00	7,128.73	270.79	38.31	-99.11	-695.81	-403.51	7,156.89	7,074.28	82.60	86.642		
15,300.00	6,933.58	7,408.00	7,128.73	274.08	38.31	-99.11	-695.81	-403.51	7,256.09	7,173.46	82.64	87.806		
15,400.00	6,932.34	7,408.00	7,128.73	277.37	38.31	-99.11	-695.81	-403.51	7,355.32	7,272.65	82.67	88.968		
15,500.00	6,931.11	7,408.00	7,128.73	280.66	38.31	-99.11	-695.81	-403.51	7,454.57	7,371.86	82.71	90.128		
15,589.88	6,930.00	7,408.00	7,128.73	283.62	38.31	-99.11	-695.81	-403.51	7,543.80	7,461.05	82.75	91.169		

Company: Synergy Resources Corporation
Project: SEC 5-T5N-R66W
Reference Site: Boomerang 21-5
Site Error: 3.28 ft
Reference Well: Boomerang 33N-6C-M
Well Error: 3.28 ft
Reference Wellbore: OH
Reference Design: Plan #1

Local Co-ordinate Reference: Well Boomerang 33N-6C-M
TVD Reference: GL 4770+KB 20 @ 4790.00ft
MD Reference: GL 4770+KB 20 @ 4790.00ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.45 sigma
Database: EDM 5000.14 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to GL 4770+KB 20 @ 4790.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.5000000

Coordinates are relative to: Boomerang 33N-6C-M
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.45°



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Reference Depths are relative to GL 4770+KB 20 @ 4790.00ft

Offset Depths are relative to Offset Datum

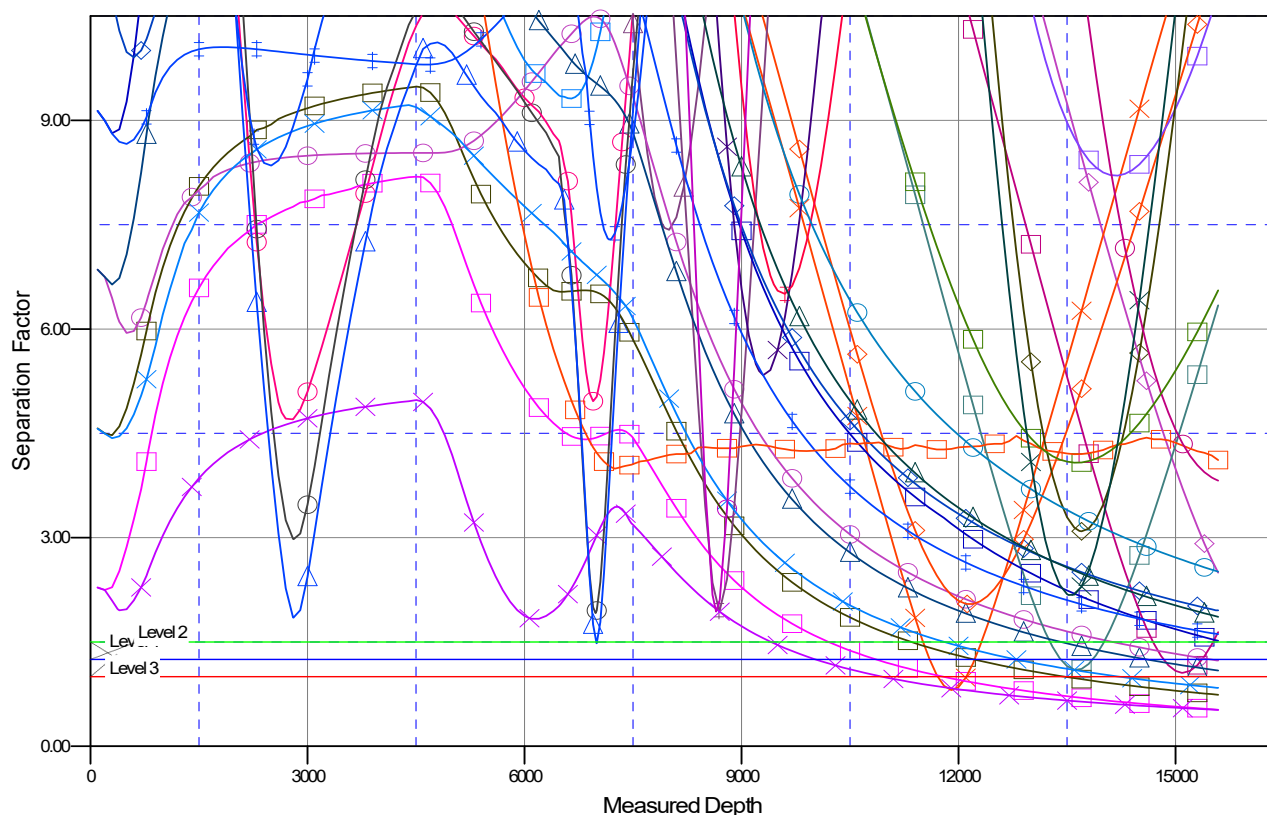
Central Meridian is -105.5000000

Coordinates are relative to: Boomerang 33N-6C-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

- | | | |
|-------------------------------------|------------------------------------|--------------------------------------|
| PEANUT #1, OH, OH V0 | WIEDEMAN #18-5, OH, OH V0 | GREELEY TECH CENTER #41-5, OH, OH V0 |
| SRC Wiedeman #21-5-3NBHZ, OH, OH V0 | WIEDEMAN #4-5, OH, OH V0 | Orr 36C-32-M, OH, OH V0 |
| ROTHE #1-14, OH, OH V0 | SRC #31-5D, OH, OH V0 | Boomerang 34N-6C-M, OH, Plan #1 V0 |
| WIEDEMAN #25-5, OH, OH V0 | SRC Northridge #22-4D, OH, OH V0 | SRC Northridge #12-4D, OH, OH V0 |
| KELLY #1-3, OH, OH V0 | WIEDEMAN #5-5, OH, OH V0 | SRC Wiedeman #12-5-4CHZ, OH, OH V0 |
| WIEDEMAN #3-5, OH, OH V0 | SOUTH #6-23D, OH, OH V0 | KELLY #2-3, OH, OH V0 |
| FRAKER J #6-2, OH, OH V0 | Boomerang 28N-3A-L, OH, Plan #1 V0 | Boomerang 25N-3A-L, OH, Plan #1 V0 |
| Boomerang 25N-3B-L, OH, Plan #1 V0 | SRC Wiedeman #21-5-3CHZ, OH, OH V0 | Boomerang 34C-6-M, OH, Plan #1 V0 |
| SRC Wiedeman #12-5-4NCHZ, OH, OH V0 | REICHERT #1-6, OH, OH V0 | SRC Wiedeman #22-5-4CHZ, OH, OH V0 |
| WIEDEMAN #29-5, OH, OH V0 | Kelly Farms #22-4-3CHZ, OH, OH V0 | Orr State 36N-35C-M, OH, OH V0 |
| Boomerang 33C-6-M, OH, Plan #1 V0 | SOUTH #6-22D, OH, OH V0 | SRC Northridge #11-4D, OH, OH V0 |
| SRC Northridge #4AD, OH, OH V0 | Boomerang 12N-6B-M, OH, Plan #1 V0 | Boomerang 12C-6-M, OH, Plan #1 V0 |
| Kelly Farms #A-4-3NHZ, OH, OH V0 | SRC Northridge #4KD, OH, OH V0 | WIEDEMAN #6-5, OH, OH V0 |
| Boomerang 13N-6B-M, OH, Plan #1 V0 | Boomerang 13C-6-M, OH, Plan #1 V0 | LAPOURDRE SOUTH #4, OH, OH V0 |
| Boomerang 32N-6C-M, OH, Plan #1 V0 | Boomerang 34N-6A-M, OH, Plan #1 V0 | SRC Wiedeman #11-5-3NCHZ, OH, OH V0 |
| Boomerang 28C-3-L, OH, Plan #1 V0 | SRC Wiedeman #A-5-3NBHZ, OH, OH V0 | WIEDEMAN #22-5, OH, OH V0 |
| FRAKER #1, OH, OH V0 | SRC Northridge #21-4D, OH, OH V0 | SRC Wiedeman 22-5-4NBHZ, OH, OH V0 |
| SOUTH #6-24D, OH, OH V0 | Boomerang 32N-6B-M, OH, Plan #1 V0 | SOUTH #6-21D, OH, OH V0 |
| Kelly Farms #A-4-3CHZ, OH, OH V0 | Boomerang 32C-6-M, OH, Plan #1 V0 | Kelly Farms #12-4-3CHZ, OH, OH V0 |