



Synergy Resources Corporation

**SEC 21 T6N R66W
LEFFLER 8-21 PAD
LEFFLER 41N-23C-L**

**OH
PLAN #1**

Anticollision Summary Report

27 February, 2017

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well LEFFLER 41N-23C-L
Project:	SEC 21 T6N R66W	TVD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Reference Site:	LEFFLER 8-21 PAD	MD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41N-23C-L	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	2/27/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	17,616.01	PLAN #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

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						
LEFFLER 8-21 PAD						
ADAMS I #23-19 - OH - OH	14,154.64	7,034.37	138.83	-218.11	0.389	Level 1, CC, ES, SF
ALICE M. HOFFNER #1-22 - OH - OH	8,256.08	7,053.86	800.26	518.80	2.843	CC, ES, SF
ALLES #1-23 - OH - OH	14,661.62	7,031.27	519.14	154.89	1.425	Level 3, CC, ES, SF
ALLES #2-23 - OH - OH	14,944.56	7,021.09	755.48	387.43	2.053	CC, ES, SF
BARNEY #2 - OH - OH	14,479.00	7,020.03	1,947.47	1,586.29	5.392	CC
BARNEY #2 - OH - OH	14,500.00	7,019.94	1,947.59	1,586.14	5.388	ES
BARNEY #2 - OH - OH	14,600.00	7,019.52	1,951.23	1,588.68	5.382	SF
BERRY #22-2 - OH - OH	10,989.76	7,051.51	360.78	48.06	1.154	Level 2, CC
BERRY #22-2 - OH - OH	11,000.00	7,051.47	360.92	48.02	1.153	Level 2, ES, SF
ELDRIDGE #2-23 - OH - OH	16,088.07	7,012.34	819.26	434.64	2.130	CC
ELDRIDGE #2-23 - OH - OH	16,100.00	7,012.30	819.34	434.61	2.130	ES, SF
ELDRIDGE #31-23 - OH - OH	16,244.09	7,020.70	432.74	45.52	1.118	Level 2, CC, ES, SF
ELDRIDGE #3-23 - OH - OH	17,437.73	7,035.74	470.38	64.89	1.160	Level 2, CC, ES, SF
ELDRIDGE #4-23 - OH - OH	17,616.27	7,003.00	909.26	502.34	2.234	CC, ES, SF
ELDRIDGE #CNE-23 - OH - OH	16,473.77	7,010.74	195.68	-194.60	0.501	Level 1, CC, ES, SF
HOOD 25N-22B-M - OH - PLAN #1	6,892.02	12,125.88	1,554.91	1,374.38	8.613	CC
HOOD 25N-22B-M - OH - PLAN #1	10,048.12	15,195.74	1,574.44	1,283.21	5.406	ES, SF
INTERMILL #1-22 - OH - GYRO-NS	10,730.59	7,020.71	797.41	702.80	8.429	CC, ES
INTERMILL #1-22 - OH - GYRO-NS	10,800.00	7,019.15	800.43	705.32	8.416	SF
KENT #24-2 - OH - OH	17,616.27	7,030.00	1,073.88	745.30	3.268	CC, ES, SF
Kindsfater #24E-403 - OH - PLAN #1	17,616.27	8,115.58	580.15	499.50	7.193	CC, ES, SF
L&L PARTNERSHIP #22-8 - OH - OH	12,142.55	7,027.73	984.80	657.00	3.004	CC, ES, SF
L&L PARTNERSHIP #23-4G6 - OH - OH	13,644.00	7,038.49	336.18	-13.45	0.962	Level 1, CC, ES, SF
LEFFLER 1 #21-2 - OH - OH	6,528.38	6,469.22	1,447.16	1,194.22	5.721	CC
LEFFLER 1 #21-2 - OH - OH	6,550.00	6,509.34	1,447.50	1,193.07	5.689	ES
LEFFLER 1 #21-2 - OH - OH	6,650.00	6,588.66	1,457.98	1,200.37	5.660	SF
LEFFLER 1 C-23-L - OH - PLAN #1	1,042.57	1,040.80	16.44	5.67	1.527	CC
LEFFLER 1 C-23-L - OH - PLAN #1	17,616.27	17,738.04	189.45	-99.40	0.656	Level 1, ES, SF
LEFFLER 1 N-23B-L - OH - PLAN #1	200.00	200.00	39.71	33.04	5.953	CC
LEFFLER 1 N-23B-L - OH - PLAN #1	17,616.27	17,593.45	287.71	-38.66	0.882	Level 1, ES, SF
LEFFLER 1 N-23C-L - OH - PLAN #1	200.03	200.03	59.75	53.08	8.957	CC
LEFFLER 1 N-23C-L - OH - PLAN #1	300.00	299.99	59.75	52.87	8.684	ES
LEFFLER 1 N-23C-L - OH - PLAN #1	17,616.27	17,696.56	657.94	329.35	2.002	SF
LEFFLER 26C-23-L - OH - PLAN #1	200.03	200.03	79.78	73.11	11.961	CC
LEFFLER 26C-23-L - OH - PLAN #1	500.00	499.86	80.16	72.57	10.562	ES
LEFFLER 26C-23-L - OH - PLAN #1	17,616.27	17,860.45	888.24	563.08	2.732	SF
LEFFLER 26N-23B-L - OH - PLAN #1	200.00	200.00	99.83	93.16	14.967	CC, ES

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 LEFFLER 41N-23C-L
Project:	SEC 21 T6N R66W	TVD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Reference Site:	LEFFLER 8-21 PAD	MD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41N-23C-L	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						
LEFFLER 8-21 PAD						
LEFFLER 26N-23B-L - OH - PLAN #1	17,616.27	17,718.80	1,103.89	774.04	3.347	SF
LEFFLER 40C-23-L - OH - PLAN #1	200.00	200.00	120.22	113.55	18.023	CC, ES
LEFFLER 40C-23-L - OH - PLAN #1	17,616.27	17,615.35	1,399.87	1,072.69	4.279	SF
LEFFLER 41C-23-L - OH - PLAN #1	200.00	200.00	20.03	13.36	3.003	CC
LEFFLER 41C-23-L - OH - PLAN #1	17,616.27	17,705.81	318.32	-2.09	0.993	Level 1, ES, SF
LEFFLER 8C-23-L - OH - PLAN #1	200.03	200.03	60.11	53.44	9.012	CC
LEFFLER 8C-23-L - OH - PLAN #1	400.00	400.04	60.21	53.02	8.374	ES
LEFFLER 8C-23-L - OH - PLAN #1	17,616.27	17,685.82	669.14	342.12	2.046	SF
LEFFLER 8N-23A-L - OH - PLAN #1	200.02	200.02	40.08	33.41	6.009	CC
LEFFLER 8N-23A-L - OH - PLAN #1	400.00	400.04	40.23	33.04	5.595	ES
LEFFLER 8N-23A-L - OH - PLAN #1	17,616.27	17,387.41	481.21	172.53	1.559	SF
LEFFLER 8N-23B-L - OH - PLAN #1	200.00	200.00	80.15	73.48	12.016	CC, ES
LEFFLER 8N-23B-L - OH - PLAN #1	17,473.01	17,372.94	957.46	634.71	2.967	SF
LEFFLER 8N-23C-L - OH - PLAN #1	200.03	200.03	100.19	93.52	15.020	CC
LEFFLER 8N-23C-L - OH - PLAN #1	300.00	299.99	100.19	93.31	14.562	ES
LEFFLER 8N-23C-L - OH - PLAN #1	17,616.27	17,603.63	1,142.80	814.37	3.480	SF
LEFFLER FE 20-019HN - OH - PLAN #1	5,361.57	5,253.99	670.84	624.00	14.323	CC, ES
LEFFLER FE 20-019HN - OH - PLAN #1	5,600.00	5,429.82	681.95	633.70	14.133	SF
LEFFLER FE 20-022HC - OH - PLAN #1	5,926.65	5,826.56	601.21	549.40	11.604	CC, ES
LEFFLER FE 20-022HC - OH - PLAN #1	7,350.00	6,914.35	638.95	578.09	10.498	SF
LEFFLER FE 20-022HN - OH - PLAN #1	5,680.51	5,575.49	645.72	596.08	13.008	CC
LEFFLER FE 20-022HN - OH - PLAN #1	5,700.00	5,590.00	645.79	596.02	12.975	ES
LEFFLER FE 20-022HN - OH - PLAN #1	5,900.00	5,738.37	655.41	604.47	12.867	SF
LEFFLER FE 20-059HN - PLAN #1 - PLAN #1	7,240.73	7,026.40	517.72	455.29	8.293	CC, ES, SF
LEFFLER FE 20-062HC - OH - PLAN #1	7,277.03	7,113.70	238.66	176.21	3.822	CC, ES
LEFFLER FE 20-062HC - OH - PLAN #1	7,300.00	7,103.61	239.61	176.83	3.817	SF
LEFFLER FE 20-062HN - OH - PLAN #1	7,104.44	7,107.51	185.92	123.45	2.976	CC, ES, SF
LEFFLER FE 20-102HN - OH - PLAN #1	7,192.59	7,126.29	95.06	34.79	1.577	CC, ES, SF
LEFFLER FE 20-139HC - OH - PLAN #1	7,250.00	7,050.50	332.38	274.93	5.786	SF
LEFFLER FE 20-139HC - OH - PLAN #1	7,330.18	7,044.89	325.44	270.39	5.912	CC, ES
LEFFLER FE 20-142HN - OH - OH	5,804.70	5,812.47	403.02	351.74	7.859	CC, ES
LEFFLER FE 20-142HN - OH - OH	5,900.00	5,888.20	407.15	355.11	7.824	SF
LEFFLER FE 20-179HC - OH - PLAN #1	5,674.86	5,688.42	384.05	333.80	7.643	CC, ES
LEFFLER FE 20-179HC - OH - PLAN #1	5,700.00	5,708.36	384.36	333.87	7.614	SF
LEFFLER FE 20-179HN - PLAN #1 - PLAN #1	5,313.84	5,339.82	364.40	317.01	7.688	CC, ES
LEFFLER FE 20-179HN - PLAN #1 - PLAN #1	5,400.00	5,408.35	368.13	319.99	7.648	SF
LEFFLER FE 20-182HN - OH - PLAN #1	4,948.32	4,988.71	336.79	292.44	7.593	CC, ES
LEFFLER FE 20-182HN - OH - PLAN #1	5,000.00	5,029.78	338.25	293.39	7.540	SF
LOWELL ADAMS #1-22 - OH - OH	12,140.80	7,047.73	436.35	107.88	1.328	Level 3, CC, ES, SF
LOWELL ADAMS #1-23 - OH - OH	13,453.04	7,026.28	891.44	544.97	2.573	CC, ES, SF
OGILVY #1 - OH - NO SURVEYS	16,974.66	6,988.66	1,990.89	1,593.94	5.015	CC
OGILVY #1 - OH - NO SURVEYS	17,000.00	6,988.56	1,991.05	1,593.78	5.012	ES
OGILVY #1 - OH - NO SURVEYS	17,100.00	6,988.14	1,994.83	1,596.51	5.008	SF
Pinnacle Park #1-14 - OH - NO SURVEYS	16,546.22	7,015.44	1,458.38	1,066.86	3.725	CC, ES
Pinnacle Park #1-14 - OH - NO SURVEYS	16,600.00	7,015.22	1,459.37	1,067.05	3.720	SF
RUTT-ADAMS HEIRS #2-22 - OH - OH	9,397.77	7,068.12	498.15	204.95	1.699	CC
RUTT-ADAMS HEIRS #2-22 - OH - OH	9,400.00	7,068.11	498.16	204.92	1.699	ES, SF
SCHAEFER #2-22 - OH - OH	12,064.46	7,025.05	2,206.06	1,879.45	6.754	CC
SCHAEFER #2-22 - OH - OH	12,100.00	7,024.90	2,206.34	1,879.30	6.746	ES
SCHAEFER #2-22 - OH - OH	12,200.00	7,024.49	2,210.22	1,882.03	6.735	SF

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well LEFFLER 41N-23C-L
Project:	SEC 21 T6N R66W	TVD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Reference Site:	LEFFLER 8-21 PAD	MD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41N-23C-L	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 Depths are relative to GL 4747 & KB 25 @ 4773.00ft (ASSU

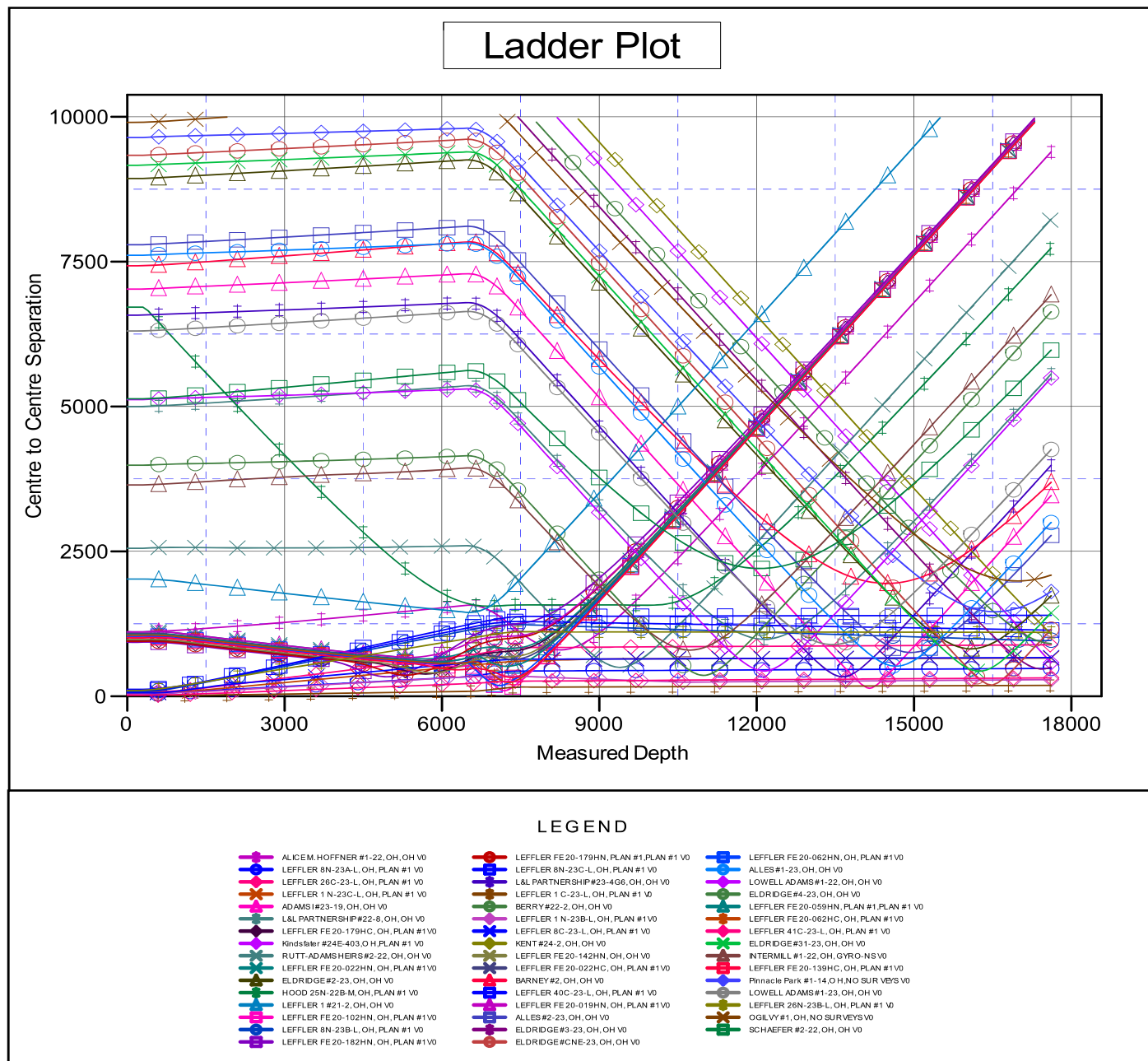
Offset Depths are relative to Offset Datum

Central Meridian is -105.5000000

Coordinates are relative to: LEFFLER 41N-23C-L

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.47°

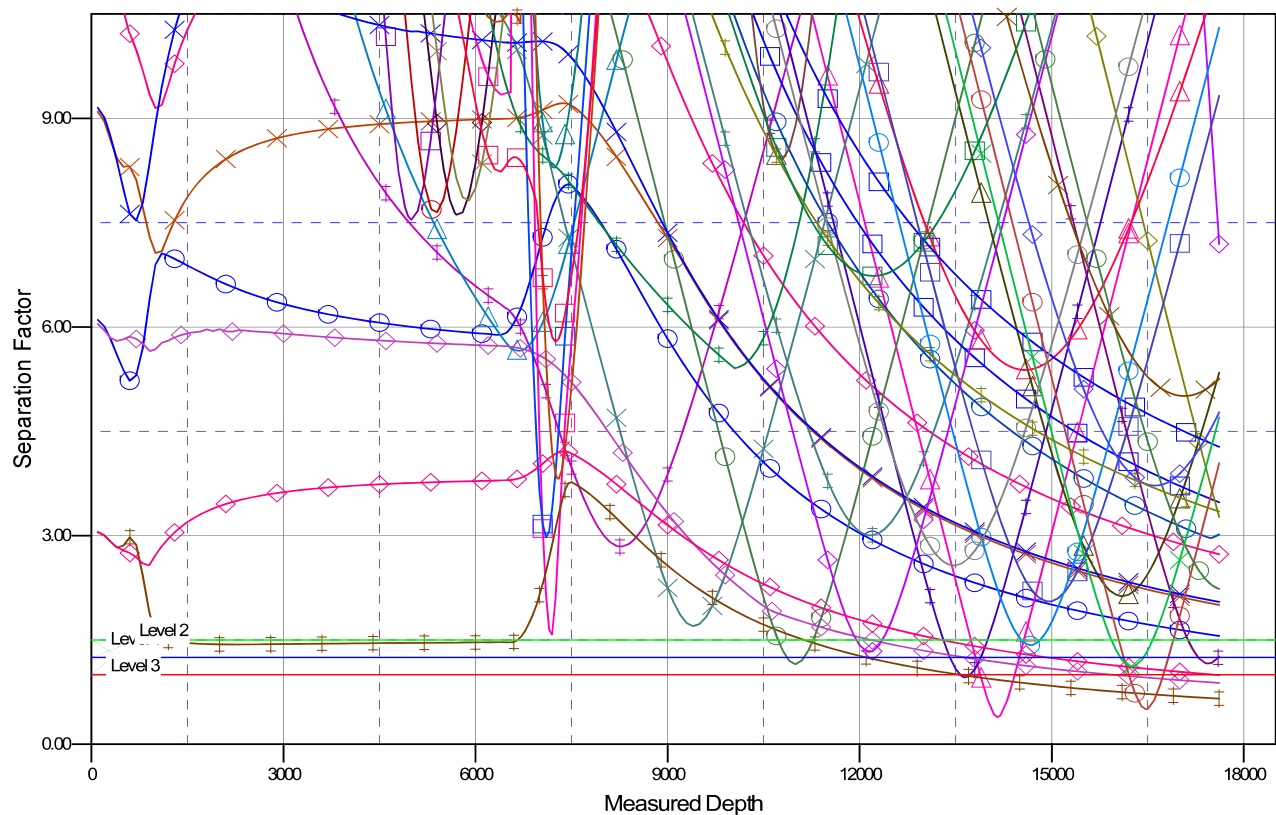


Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well LEFFLER 41N-23C-L
Project:	SEC 21 T6N R66W	TVD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Reference Site:	LEFFLER 8-21 PAD	MD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41N-23C-L	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 Depths are relative to GL 4747 & KB 25 @ 4773.00ft (ASSU)
Offset Depths are relative to Offset Datum
Central Meridian is -105.5000000

Coordinates are relative to: LEFFLER 41N-23C-L
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.47°

Separation Factor Plot



LEGEND

ALICEM.HOFFNER #1-22, OH, OH V0	LEFFLER FE 20-179HN, PLAN #1, PLAN #1 V0	LEFFLER FE 20-062HN, OH, PLAN #1 V0
LEFFLER 8N-23A-L, OH, PLAN #1 V0	LEFFLER 8N-23C-L, OH, PLAN #1 V0	ALLES #1-23, OH, OH V0
LEFFLER 26C-23-L, OH, PLAN #1 V0	L&L PARTNERSHIP#23-4G6, OH, OH V0	LOWELL ADAMS#1-22, OH, OH V0
LEFFLER 1 N-23C-L, OH, PLAN #1 V0	LEFFLER 1 C-23-L, OH, PLAN #1 V0	ELDRIDGE#4-23, OH, OH V0
ADAMS #23-19, OH, OH V0	BERRY #22-2, OH, OH V0	LEFFLER FE 20-059HN, PLAN #1, PLAN #1 V0
L&L PARTNERSHIP#22-8, OH, OH V0	LEFFLER 1 N-23B-L, OH, PLAN #1 V0	LEFFLER FE 20-062HC, OH, PLAN #1 V0
LEFFLER FE 20-179HC, OH, PLAN #1 V0	LEFFLER 8C-23-L, OH, PLAN #1 V0	LEFFLER 41C-23-L, OH, PLAN #1 V0
KINDSFATER #24E-403, OH, PLAN #1 V0	KENT #24-2, OH, OH V0	ELDRIDGE#31-23, OH, OH V0
RUTT-ADAMSHERS#2-22, OH, OH V0	LEFFLER FE 20-142HN, OH, OH V0	INTERMILL #1-22, OH, GYRO-NS V0
LEFFLER FE 20-022HN, OH, PLAN #1 V0	LEFFLER FE 20-022HC, OH, PLAN #1 V0	LEFFLER FE 20-139HC, OH, PLAN #1 V0
ELDRIDGE#2-23, OH, OH V0	BARNEY#2, OH, OH V0	Pinnacle Park #1-14, OH, NO SUR VE/S V0
HOOD 25N-22B-M, OH, PLAN #1 V0	LEFFLER 40C-23-L, OH, PLAN #1 V0	LOWELL ADAMS#1-23, OH, OH V0
LEFFLER 1 #21-2, OH, OH V0	LEFFLER FE 20-019HN, OH, PLAN #1 V0	LEFFLER 26N-23B-L, OH, PLAN #1 V0
LEFFLER FE 20-102HN, OH, PLAN #1 V0	ALLES #2-23, OH, OH V0	OGILVY#1, OH, NO SURVEYS V0
LEFFLER 8N-23B-L, OH, PLAN #1 V0	ELDRIDGE#3-23, OH, OH V0	SCHAEFER #2-22, OH, OH V0
LEFFLER FE 20-182HN, OH, PLAN #1 V0	ELDRIDGE#CNE-23, OH, OH V0	