

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 30N-30B-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,200.00 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	10/25/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
1,800.00	15,411.57	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-19 Offsets Incomplete						
KORI J 19-13 - Noble SI Well - No Surveys	14,706.48	7,302.26	591.94	208.73	1.545	CC, ES, SF
5N-66W-20 Offsets Incomplete						
HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys	8,017.52	7,185.75	683.13	408.15	2.484	CC, ES, SF
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	1,992.25	1,869.02	1,083.78	1,060.86	47.300	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,100.00	1,941.00	1,085.64	1,062.68	47.283	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	3,018.68	3,012.01	736.33	709.09	27.031	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,500.00	7,244.80	1,186.17	1,139.69	25.518	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	5,947.58	5,879.01	697.59	475.76	3.145	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,500.00	6,425.61	702.16	459.34	2.892	ES
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,700.00	6,624.32	715.63	465.39	2.860	SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,250.64	6,178.87	718.46	485.14	3.079	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,600.00	6,525.02	722.61	476.05	2.931	ES
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,700.00	6,624.32	732.55	482.31	2.927	SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys						Out of range
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys						Out of range
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	200.00	201.00	296.11	285.74	28.548	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	300.00	301.02	297.70	284.07	21.856	ES
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	7,911.93	7,167.57	719.22	445.87	2.631	SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,645.20	7,177.67	543.76	247.14	1.833	CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys						Out of range
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech						Out of range
UPRC 29-7C - Noble T/A Well - No Surveys						Out of range
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	6,395.42	6,309.13	768.72	530.14	3.222	CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,600.00	6,512.02	771.81	525.49	3.133	ES
UPV 29-2H6 - Noble SI Well - No Surveys	6,700.00	6,611.32	781.88	531.89	3.128	SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.00	201.00	170.00	162.43	22.445	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,800.00	7,186.67	620.60	580.83	15.608	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	180.23	172.66	23.795	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,000.00	7,611.94	630.47	593.38	16.998	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.06	201.06	161.65	154.07	21.342	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,300.00	7,532.61	373.30	337.08	10.307	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	191.95	184.38	25.343	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,900.00	7,112.27	859.27	823.06	23.726	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,755.89	7,232.90	25.66	-14.98	0.631	Level 1, CC, ES, SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	7,181.46	7,508.42	5.54	-31.51	0.149	Level 1, CC, ES, SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.12	201.12	155.17	147.60	20.487	CC, ES
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,581.44	7,323.60	205.43	164.92	5.071	SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,412.37	15,591.91	276.67	59.72	1.275	Level 3, SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,412.37	15,256.08	266.24	13.70	1.054	Level 2, ES, SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	160.29	152.72	21.164	CC, ES, SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	140.26	132.68	18.519	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,412.37	15,476.22	1,101.75	826.93	4.009	SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	200.00	200.00	260.11	252.53	34.343	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	300.00	296.21	261.31	253.65	34.123	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	240.08	232.50	31.698	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	300.00	293.14	242.33	234.67	31.662	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	283.22	275.64	37.392	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	300.00	292.87	286.17	278.52	37.390	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	300.33	292.75	39.651	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	292.30	303.26	295.61	39.624	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	205.17	197.59	27.088	CC, ES, SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	219.23	211.66	28.945	CC, ES, SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	100.18	92.61	13.228	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,412.37	15,587.57	874.51	603.40	3.226	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	120.22	112.64	15.872	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,412.37	15,276.01	911.74	639.20	3.345	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,412.37	15,390.53	725.00	450.16	2.638	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	60.12	52.54	7.937	CC, ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,412.37	15,471.25	386.46	113.62	1.416	Level 3, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	200.01	192.43	26.407	CC, ES, SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	220.04	212.46	29.052	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	300.00	293.91	222.24	214.59	29.036	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	179.97	172.39	23.761	CC, ES, SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	234.34	226.77	30.939	CC, ES, SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	249.98	242.41	33.004	CC, ES, SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	266.36	258.79	35.167	CC, ES, SF

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Summary						
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Offset Well - Wellbore - Design						
5N-66W-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys	12,173.00	7,238.20	561.09	221.90	1.654	CC, ES, SF
HOMYAK 2 - XOG SI Well - No Surveys						Out of range
LUNDVALL 3 - Noble PR Well - No Surveys						Out of range
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,476.12	7,264.53	528.20	166.66	1.461	Level 3, CC, ES, SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur						Out of range
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys						Out of range
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys						Out of range
RICKS-PM J30-12 - Noble PR Well - No Surveys						Out of range
STEVE J 30-4J - Noble PR Well - Actual Multishot Survey						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey						Out of range

Offset Design													5N-66W-19 Offsets Incomplete - KORJ J 19-13 - Noble SI Well - No Surveys		Offset Site Error:		0.00 usft	
Survey Program:													100-SRC Energy_2" CONE_2.448		Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
13,700.00	7,178.93	7,304.07	7,295.93	109.03	257.05	89.83	1,083.67	-6,966.03	1,167.64	854.30	313.35	3.726						
13,800.00	7,179.11	7,303.89	7,296.11	110.68	257.04	89.84	1,083.67	-6,966.03	1,082.63	764.33	318.30	3.401						
13,900.00	7,179.29	7,303.71	7,296.29	112.33	257.04	89.86	1,083.67	-6,966.03	1,000.40	676.42	323.98	3.088						
14,000.00	7,179.47	7,303.53	7,296.47	113.98	257.03	89.88	1,083.67	-6,966.03	921.69	591.21	330.47	2.789						
14,100.00	7,179.65	7,303.35	7,296.65	115.63	257.02	89.89	1,083.67	-6,966.03	847.47	509.64	337.83	2.509						
14,200.00	7,179.83	7,303.17	7,296.83	117.29	257.02	89.91	1,083.67	-6,966.03	779.05	433.03	346.01	2.251						
14,300.00	7,180.01	7,302.99	7,297.01	118.94	257.01	89.93	1,083.67	-6,966.03	718.07	363.21	354.85	2.024						
14,400.00	7,180.19	7,302.81	7,297.19	120.59	257.01	89.95	1,083.67	-6,966.03	666.57	302.69	363.89	1.832						
14,500.00	7,180.37	7,302.63	7,297.37	122.25	257.00	89.96	1,083.67	-6,966.03	626.92	254.58	372.33	1.684						
14,600.00	7,180.55	7,302.45	7,297.55	123.90	256.99	89.98	1,083.67	-6,966.03	601.44	222.35	379.09	1.587						
14,700.00	7,180.73	7,302.27	7,297.73	125.56	256.99	90.00	1,083.67	-6,966.03	591.97	208.91	383.06	1.545						
14,706.48	7,180.74	7,302.26	7,297.74	125.66	256.99	90.00	1,083.67	-6,966.03	591.94	208.73	383.21	1.545	CC, ES, SF					
14,800.00	7,180.90	7,302.10	7,297.90	127.21	256.98	90.02	1,083.67	-6,966.03	599.28	215.64	383.64	1.562						
14,900.00	7,181.08	7,301.92	7,298.08	128.87	256.97	90.03	1,083.67	-6,966.03	622.77	241.77	381.00	1.635						
15,000.00	7,181.26	7,301.74	7,298.26	130.52	256.97	90.05	1,083.67	-6,966.03	660.71	284.72	376.00	1.757						
15,100.00	7,181.44	7,301.56	7,298.44	132.18	256.96	90.07	1,083.67	-6,966.03	710.81	341.14	369.67	1.923						
15,200.00	7,181.62	7,301.38	7,298.62	133.84	256.95	90.09	1,083.67	-6,966.03	770.68	407.79	362.89	2.124						
15,300.00	7,181.80	7,301.20	7,298.80	135.50	256.95	90.10	1,083.67	-6,966.03	838.24	482.00	356.24	2.353						
15,400.00	7,181.98	7,301.02	7,298.98	137.15	256.94	90.12	1,083.67	-6,966.03	911.79	561.75	350.03	2.605						
15,412.37	7,182.00	7,301.00	7,299.00	137.36	256.94	90.12	1,083.67	-6,966.03	921.23	569.07	352.16	2.616						

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Anticollision Report

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	17.00	17.00	3.28	3.29	-13.40	1,162.84	-276.92	1,195.36					
100.00	100.00	117.00	117.00	3.28	4.05	-13.40	1,162.84	-276.92	1,195.36	1,187.23	8.12	147.152		
200.00	200.00	217.00	217.00	3.31	6.77	-13.40	1,162.84	-276.92	1,195.36	1,184.49	10.86	110.046		
300.00	299.98	316.98	316.98	3.35	10.01	-74.58	1,162.84	-276.92	1,194.89	1,180.74	14.15	84.427		
400.00	399.84	416.84	416.84	3.42	13.41	-74.85	1,162.84	-276.92	1,193.51	1,175.90	17.61	67.768		
500.00	499.45	516.45	516.45	3.51	16.85	-75.30	1,162.84	-276.92	1,191.26	1,170.11	21.15	56.331		
600.00	598.70	615.70	615.70	3.63	20.31	-75.92	1,162.84	-276.92	1,188.21	1,163.48	24.73	48.051		
700.00	697.66	714.66	714.66	3.78	23.78	-76.60	1,162.84	-276.92	1,184.75	1,156.40	28.35	41.797		
800.00	796.60	813.60	813.60	3.95	27.25	-77.28	1,162.84	-276.92	1,181.45	1,149.45	32.00	36.923		
900.00	895.55	912.55	912.55	4.15	30.74	-77.96	1,162.84	-276.92	1,178.31	1,142.63	35.68	33.026		
1,000.00	994.50	1,011.50	1,011.50	4.37	34.23	-78.64	1,162.84	-276.92	1,175.35	1,135.96	39.38	29.844		
1,100.00	1,093.45	1,110.45	1,110.45	4.60	37.72	-79.33	1,162.84	-276.92	1,172.55	1,129.45	43.11	27.201		
1,200.00	1,192.39	1,209.39	1,209.39	4.85	41.21	-80.02	1,162.84	-276.92	1,169.93	1,123.09	46.85	24.973		
1,300.00	1,291.34	1,308.34	1,308.34	5.10	44.71	-80.71	1,162.84	-276.92	1,167.49	1,116.88	50.60	23.072		
1,400.00	1,390.29	1,407.29	1,407.29	5.37	48.20	-81.41	1,162.84	-276.92	1,165.21	1,110.84	54.37	21.431		
1,500.00	1,489.24	1,506.24	1,506.24	5.65	51.70	-82.10	1,162.84	-276.92	1,163.12	1,104.97	58.15	20.003		
1,600.00	1,588.18	1,605.18	1,605.18	5.94	55.20	-82.80	1,162.84	-276.92	1,161.20	1,099.27	61.93	18.750		
1,700.00	1,687.13	1,704.13	1,704.13	6.23	58.70	-83.50	1,162.84	-276.92	1,159.45	1,093.73	65.72	17.641		
1,800.00	1,786.08	1,803.08	1,803.08	6.53	62.20	-84.21	1,162.84	-276.92	1,157.89	1,088.37	69.52	16.655		
1,900.00	1,885.03	1,902.03	1,902.03	6.69	65.70	-84.91	1,162.84	-276.92	1,156.50	1,083.53	72.98	15.847		
2,000.00	1,983.97	2,000.97	2,000.97	6.72	69.21	-85.62	1,162.84	-276.92	1,155.30	1,078.79	76.51	15.100		
2,100.00	2,082.92	2,100.08	2,099.92	6.77	72.71	-86.33	1,162.84	-276.92	1,154.27	1,074.20	80.07	14.416		
2,200.00	2,181.87	2,201.13	2,198.87	6.83	76.29	-87.04	1,162.84	-276.92	1,153.43	1,069.72	83.70	13.780		
2,300.00	2,280.82	2,302.18	2,297.82	6.91	79.87	-87.75	1,162.84	-276.92	1,152.76	1,065.40	87.36	13.196		
2,400.00	2,379.76	2,403.24	2,396.76	7.00	83.45	-88.46	1,162.84	-276.92	1,152.28	1,061.25	91.02	12.659		
2,500.00	2,478.71	2,504.29	2,495.71	7.10	87.02	-89.17	1,162.84	-276.92	1,151.98	1,057.27	94.70	12.164		
2,600.00	2,577.66	2,605.34	2,594.66	7.22	90.60	-89.89	1,162.84	-276.92	1,151.86	1,053.46	98.39	11.707		
2,615.91	2,593.40	2,610.40	2,610.40	7.24	90.78	-90.00	1,162.84	-276.92	1,151.85	1,053.26	98.59	11.683		
2,700.00	2,676.61	2,706.39	2,693.61	7.34	94.18	-90.60	1,162.84	-276.92	1,151.92	1,049.82	102.10	11.283		
2,800.00	2,775.55	2,807.45	2,792.55	7.48	97.76	-91.31	1,162.84	-276.92	1,152.16	1,046.35	105.81	10.889		
2,900.00	2,874.50	2,908.50	2,891.50	7.63	101.34	-92.02	1,162.84	-276.92	1,152.59	1,043.05	109.54	10.522		
3,000.00	2,973.45	3,009.55	2,990.45	7.79	104.92	-92.73	1,162.84	-276.92	1,153.19	1,039.92	113.27	10.181		
3,100.00	3,072.40	3,089.40	3,089.40	7.96	107.74	-93.44	1,162.84	-276.92	1,153.98	1,037.72	116.26	9.926		
3,200.00	3,171.34	3,188.34	3,188.34	8.13	111.25	-94.15	1,162.84	-276.92	1,154.95	1,035.01	119.94	9.629		
3,300.00	3,270.29	3,287.29	3,287.29	8.32	114.75	-94.86	1,162.84	-276.92	1,156.10	1,032.47	123.63	9.351		
3,400.00	3,369.24	3,386.24	3,386.24	8.51	118.26	-95.57	1,162.84	-276.92	1,157.43	1,030.11	127.32	9.091		
3,500.00	3,468.19	3,485.19	3,485.19	8.71	121.76	-96.27	1,162.84	-276.92	1,158.94	1,027.92	131.02	8.845		
3,600.00	3,567.13	3,584.13	3,584.13	8.92	125.27	-96.97	1,162.84	-276.92	1,160.62	1,025.90	134.73	8.615		
3,700.00	3,666.08	3,683.08	3,683.08	9.14	128.77	-97.67	1,162.84	-276.92	1,162.49	1,024.05	138.44	8.397		
3,800.00	3,765.03	3,782.03	3,782.03	9.36	132.28	-98.37	1,162.84	-276.92	1,164.53	1,022.37	142.16	8.192		
3,900.00	3,863.98	3,880.98	3,880.98	9.58	135.78	-99.07	1,162.84	-276.92	1,166.74	1,020.86	145.88	7.998		
4,000.00	3,962.92	3,979.92	3,979.92	9.81	139.29	-99.76	1,162.84	-276.92	1,169.14	1,019.53	149.61	7.815		
4,100.00	4,061.87	4,078.87	4,078.87	10.05	142.79	-100.45	1,162.84	-276.92	1,171.70	1,018.36	153.34	7.641		
4,200.00	4,160.82	4,177.82	4,177.82	10.29	146.30	-101.14	1,162.84	-276.92	1,174.44	1,017.36	157.08	7.477		
4,300.00	4,259.77	4,276.77	4,276.77	10.53	149.80	-101.82	1,162.84	-276.92	1,177.35	1,016.53	160.82	7.321		
4,400.00	4,358.71	4,375.71	4,375.71	10.78	153.31	-102.50	1,162.84	-276.92	1,180.43	1,015.87	164.56	7.173		
4,500.00	4,457.66	4,474.66	4,474.66	11.03	156.81	-103.18	1,162.84	-276.92	1,183.68	1,015.37	168.30	7.033		
4,600.00	4,556.61	4,573.61	4,573.61	11.28	160.32	-103.85	1,162.84	-276.92	1,187.09	1,015.04	172.05	6.900		
4,700.00	4,655.56	4,672.56	4,672.56	11.54	163.82	-104.52	1,162.84	-276.92	1,190.68	1,014.87	175.80	6.773		
4,800.00	4,754.50	4,771.50	4,771.50	11.80	167.33	-105.19	1,162.84	-276.92	1,194.42	1,014.87	179.56	6.652		
4,900.00	4,853.45	4,870.45	4,870.45	12.07	170.83	-105.85	1,162.84	-276.92	1,198.33	1,015.02	183.31	6.537		
7,000.00	6,908.69	6,925.69	6,925.69	17.10	243.64	37.22	1,162.84	-276.92	1,167.92	906.94	260.98	4.475		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-20 Offsets Incomplete - HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.00	6,984.15	7,001.15	7,001.15	17.12	246.32	44.62	1,162.84	-276.92	1,113.10	849.41	263.69	4.221	
7,200.00	7,048.50	7,065.50	7,065.50	17.17	248.60	53.50	1,162.84	-276.92	1,051.66	785.67	265.99	3.954	
7,300.00	7,100.16	7,117.16	7,117.16	17.30	250.43	63.67	1,162.84	-276.92	986.35	718.47	267.88	3.682	
7,400.00	7,137.85	7,154.85	7,154.85	17.53	251.76	74.10	1,162.84	-276.92	920.35	651.02	269.33	3.417	
7,500.00	7,160.65	7,177.65	7,177.65	17.89	252.57	83.32	1,162.84	-276.92	857.21	586.84	270.37	3.170	
7,600.00	7,168.01	7,185.01	7,185.01	18.37	252.83	89.94	1,162.84	-276.92	800.62	529.59	271.03	2.954	
7,700.00	7,168.19	7,185.19	7,185.19	18.96	252.84	89.95	1,162.84	-276.92	753.32	481.67	271.65	2.773	
7,800.00	7,168.36	7,185.36	7,185.36	19.68	252.84	89.97	1,162.84	-276.92	716.93	444.40	272.53	2.631	
7,900.00	7,168.54	7,185.54	7,185.54	20.51	252.85	89.98	1,162.84	-276.92	693.17	419.56	273.60	2.533	
8,000.00	7,168.72	7,185.72	7,185.72	21.44	252.86	90.00	1,162.84	-276.92	683.36	408.59	274.77	2.487	
8,017.52	7,168.75	7,185.75	7,185.75	21.61	252.86	90.00	1,162.84	-276.92	683.13	408.15	274.98	2.484	CC, ES, SF
8,100.00	7,168.90	7,185.90	7,185.90	22.45	252.86	90.01	1,162.84	-276.92	688.09	412.20	275.89	2.494	
8,200.00	7,169.08	7,186.08	7,186.08	23.53	252.87	90.03	1,162.84	-276.92	707.08	430.23	276.85	2.554	
8,300.00	7,169.26	7,186.26	7,186.26	24.68	252.88	90.04	1,162.84	-276.92	739.23	461.65	277.58	2.663	
8,400.00	7,169.44	7,186.44	7,186.44	25.88	252.88	90.06	1,162.84	-276.92	782.92	504.83	278.09	2.815	
8,500.00	7,169.62	7,186.62	7,186.62	27.14	252.89	90.07	1,162.84	-276.92	836.33	557.94	278.39	3.004	
8,600.00	7,169.80	7,186.80	7,186.80	28.43	252.90	90.09	1,162.84	-276.92	897.75	619.21	278.54	3.223	
8,700.00	7,169.98	7,186.98	7,186.98	29.77	252.90	90.10	1,162.84	-276.92	965.63	687.04	278.59	3.466	
8,800.00	7,170.16	7,187.16	7,187.16	31.13	252.91	90.12	1,162.84	-276.92	1,038.72	760.16	278.56	3.729	
8,900.00	7,170.34	7,187.34	7,187.34	32.53	252.91	90.13	1,162.84	-276.92	1,115.99	837.49	278.50	4.007	
9,000.00	7,170.51	7,187.51	7,187.51	33.95	252.92	90.15	1,162.84	-276.92	1,196.63	918.22	278.41	4.298	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-17D - Noble PR Well - Actual En												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
700.00	697.66	682.81	682.81	3.78	15.49	40.90	-221.59	1,203.88	1,191.69	1,171.65	20.04	59.464	
800.00	796.60	780.45	780.45	3.95	15.50	41.35	-221.59	1,204.27	1,181.12	1,160.91	20.21	58.447	
900.00	895.55	879.09	879.09	4.15	15.52	41.81	-221.68	1,204.73	1,170.73	1,150.33	20.40	57.395	
1,000.00	994.50	981.27	981.26	4.37	15.54	42.31	-221.89	1,205.03	1,160.26	1,139.65	20.61	56.294	
1,100.00	1,093.45	1,081.91	1,081.91	4.60	15.56	42.81	-222.20	1,205.05	1,149.65	1,128.80	20.84	55.162	
1,200.00	1,192.39	1,181.31	1,181.31	4.85	15.59	43.32	-222.34	1,205.04	1,139.05	1,117.96	21.09	54.014	
1,300.00	1,291.34	1,274.51	1,274.51	5.10	15.61	43.81	-222.72	1,205.14	1,128.72	1,107.37	21.35	52.871	
1,400.00	1,390.29	1,368.03	1,367.98	5.37	15.65	44.42	-225.35	1,205.18	1,119.04	1,097.42	21.63	51.747	
1,500.00	1,489.24	1,452.24	1,452.00	5.65	15.68	45.14	-231.01	1,205.04	1,110.38	1,088.47	21.91	50.677	
1,600.00	1,588.18	1,544.76	1,544.15	5.94	15.73	46.04	-239.30	1,205.20	1,102.93	1,080.71	22.22	49.644	
1,700.00	1,687.13	1,650.09	1,648.77	6.23	15.79	47.23	-251.27	1,204.03	1,095.32	1,072.77	22.55	48.566	
1,800.00	1,786.08	1,727.34	1,725.18	6.53	15.84	48.24	-262.63	1,203.04	1,089.09	1,066.21	22.88	47.610	
1,900.00	1,885.03	1,805.37	1,802.14	6.69	15.91	49.32	-275.49	1,202.93	1,085.08	1,062.21	22.87	47.456	
1,992.25	1,976.31	1,869.02	1,864.89	6.72	15.96	50.18	-286.08	1,204.22	1,083.78	1,060.86	22.91	47.300 CC, ES	
2,000.00	1,983.97	1,874.39	1,870.18	6.72	15.97	50.25	-286.95	1,204.41	1,083.79	1,060.87	22.92	47.294	
2,100.00	2,082.92	1,941.00	1,935.83	6.77	16.03	51.10	-297.64	1,207.89	1,085.64	1,062.68	22.96	47.283 SF	
2,200.00	2,181.87	2,018.87	2,012.51	6.83	16.11	52.00	-309.46	1,214.46	1,090.46	1,067.42	23.04	47.331	
2,300.00	2,280.82	2,104.82	2,097.22	6.91	16.20	52.86	-320.81	1,223.55	1,096.83	1,073.67	23.16	47.368	
2,400.00	2,379.76	2,187.83	2,178.89	7.00	16.30	53.68	-332.03	1,233.29	1,104.71	1,081.43	23.28	47.458	
2,500.00	2,478.71	2,263.65	2,253.23	7.10	16.41	54.46	-343.40	1,242.93	1,114.47	1,091.08	23.39	47.654	
2,600.00	2,577.66	2,339.81	2,327.57	7.22	16.53	55.22	-355.53	1,254.16	1,126.72	1,103.22	23.50	47.936	
2,700.00	2,676.61	2,430.46	2,415.91	7.34	16.69	56.07	-369.60	1,268.86	1,140.41	1,116.71	23.70	48.118	
2,800.00	2,775.55	2,514.24	2,497.42	7.48	16.85	56.86	-383.38	1,282.45	1,154.90	1,131.03	23.88	48.366	
2,900.00	2,874.50	2,589.09	2,569.85	7.63	17.01	57.59	-396.88	1,295.67	1,171.64	1,147.61	24.03	48.764	
3,000.00	2,973.45	2,678.08	2,655.73	7.79	17.23	58.46	-413.88	1,311.63	1,189.55	1,165.29	24.26	49.024	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	102.51	-225.11	1,014.70	1,039.43					
100.00	100.00	89.00	89.00	3.28	3.56	102.51	-225.11	1,014.70	1,039.37	1,031.74	7.63	136.229		
200.00	200.00	189.00	189.00	3.31	5.73	102.51	-225.11	1,014.70	1,039.37	1,029.55	9.82	105.800		
300.00	299.98	288.98	288.98	3.35	8.87	41.49	-225.11	1,014.70	1,038.06	1,025.06	13.01	79.808		
400.00	399.84	388.84	388.84	3.42	12.22	41.73	-225.11	1,014.70	1,034.15	1,017.72	16.43	62.940		
500.00	499.45	488.67	488.67	3.51	14.99	42.14	-225.09	1,014.70	1,027.65	1,008.36	19.29	53.278		
600.00	598.70	588.21	588.21	3.63	16.12	42.71	-224.84	1,014.72	1,018.58	998.04	20.54	49.596		
700.00	697.66	686.84	686.84	3.78	16.13	43.29	-224.92	1,014.66	1,007.94	987.26	20.68	48.738		
800.00	796.60	785.67	785.67	3.95	16.14	43.87	-225.16	1,014.59	997.40	976.55	20.85	47.839		
900.00	895.55	884.54	884.54	4.15	16.15	44.46	-225.22	1,014.57	986.96	965.92	21.04	46.911		
1,000.00	994.50	983.42	983.41	4.37	16.17	45.07	-225.52	1,014.49	976.64	955.39	21.25	45.954		
1,100.00	1,093.45	1,082.67	1,082.67	4.60	16.20	45.71	-226.14	1,014.31	966.42	944.94	21.48	44.981		
1,200.00	1,192.39	1,182.30	1,182.30	4.85	16.22	46.37	-226.79	1,014.06	956.27	934.53	21.73	43.998		
1,300.00	1,291.34	1,280.71	1,280.70	5.10	16.25	47.05	-227.51	1,013.75	946.21	924.21	22.00	43.006		
1,400.00	1,390.29	1,379.33	1,379.31	5.37	16.29	47.75	-228.53	1,013.41	936.36	914.08	22.28	42.024		
1,500.00	1,489.24	1,483.76	1,483.74	5.65	16.33	48.53	-229.72	1,012.68	926.35	903.77	22.58	41.025		
1,600.00	1,588.18	1,596.48	1,596.43	5.94	16.38	49.43	-231.22	1,010.79	915.70	892.81	22.89	40.004		
1,700.00	1,687.13	1,718.52	1,718.24	6.23	16.44	50.66	-235.24	1,004.86	902.95	879.74	23.21	38.906		
1,800.00	1,786.08	1,829.54	1,828.69	6.53	16.51	52.10	-242.25	996.04	888.84	865.30	23.54	37.752		
1,900.00	1,885.03	1,954.23	1,952.28	6.69	16.60	53.93	-250.79	981.95	872.32	848.77	23.54	37.055		
2,000.00	1,983.97	2,059.55	2,055.99	6.72	16.70	55.79	-260.56	966.54	854.49	830.83	23.67	36.107		
2,100.00	2,082.92	2,168.61	2,162.67	6.77	16.83	58.05	-273.41	947.86	836.47	812.64	23.83	35.102		
2,200.00	2,181.87	2,278.04	2,268.61	6.83	17.00	60.70	-288.36	924.95	817.16	793.12	24.04	33.986		
2,300.00	2,280.82	2,356.46	2,344.01	6.91	17.14	62.81	-300.80	907.36	799.28	774.94	24.33	32.847		
2,400.00	2,379.76	2,432.14	2,416.64	7.00	17.28	65.00	-314.80	891.32	785.34	760.70	24.63	31.880		
2,500.00	2,478.71	2,523.53	2,504.47	7.10	17.46	67.68	-331.94	872.81	774.24	749.28	24.96	31.020		
2,600.00	2,577.66	2,630.43	2,606.70	7.22	17.71	71.01	-352.49	849.28	764.27	738.92	25.35	30.150		
2,700.00	2,676.61	2,738.29	2,709.71	7.34	18.00	74.45	-371.36	823.52	754.21	728.43	25.79	29.250		
2,800.00	2,775.55	2,831.31	2,797.66	7.48	18.30	77.68	-388.64	798.64	745.49	719.22	26.27	28.375		
2,900.00	2,874.50	2,919.40	2,881.05	7.63	18.58	80.76	-404.61	775.18	739.27	712.53	26.74	27.646		
3,000.00	2,973.45	2,996.00	2,954.09	7.79	18.82	83.34	-417.97	756.35	736.43	709.27	27.16	27.119		
3,018.68	2,991.93	3,012.01	2,969.42	7.82	18.87	83.87	-420.77	752.67	736.33	709.09	27.24	27.031	CC, ES	
3,100.00	3,072.40	3,067.03	3,022.02	7.96	19.05	85.70	-431.22	740.35	738.08	710.55	27.53	26.806		
3,200.00	3,171.34	3,158.75	3,109.34	8.13	19.40	88.78	-450.25	719.77	743.83	715.81	28.02	26.546		
3,300.00	3,270.29	3,277.62	3,222.66	8.32	19.85	92.73	-472.47	691.62	749.92	721.27	28.64	26.180		
3,400.00	3,369.24	3,374.81	3,315.88	8.51	20.20	95.80	-487.69	668.74	755.93	726.80	29.13	25.949		
3,500.00	3,468.19	3,462.99	3,401.03	8.71	20.52	98.39	-501.01	650.08	764.44	734.88	29.56	25.865		
3,600.00	3,567.13	3,555.42	3,490.75	8.92	20.85	100.92	-514.38	632.35	774.80	744.82	29.99	25.839		
3,700.00	3,666.08	3,663.71	3,596.24	9.14	21.22	103.69	-529.15	612.90	786.43	755.95	30.48	25.802		
3,800.00	3,765.03	3,752.98	3,683.95	9.36	21.50	105.68	-539.36	599.84	798.08	767.24	30.85	25.871		
3,900.00	3,863.98	3,846.15	3,775.18	9.58	21.82	107.80	-550.95	584.91	811.58	780.33	31.25	25.972		
4,000.00	3,962.92	3,922.05	3,848.58	9.81	22.15	109.74	-561.68	568.93	827.31	795.72	31.59	26.192		
4,100.00	4,061.87	4,010.75	3,933.47	10.05	22.57	112.15	-575.74	547.38	845.94	813.93	32.01	26.431		
4,200.00	4,160.82	4,085.35	4,004.64	10.29	22.95	114.13	-588.12	528.75	866.93	834.61	32.32	26.824		
4,300.00	4,259.77	4,179.03	4,093.75	10.53	23.42	116.55	-604.75	505.11	890.63	857.87	32.76	27.190		
4,400.00	4,358.71	4,312.80	4,222.06	10.78	24.05	119.68	-625.07	473.32	913.53	880.10	33.43	27.328		
4,500.00	4,457.66	4,416.61	4,323.11	11.03	24.48	121.76	-636.79	452.62	933.53	899.65	33.88	27.554		
4,600.00	4,556.61	4,540.56	4,444.22	11.28	24.97	123.99	-650.42	430.13	954.39	919.97	34.42	27.729		
4,700.00	4,655.56	4,657.39	4,559.61	11.54	25.33	125.69	-659.70	414.48	972.26	937.40	34.86	27.889		
4,800.00	4,754.50	4,781.04	4,682.48	11.80	25.65	127.12	-667.75	403.36	988.74	953.45	35.30	28.011		
4,900.00	4,853.45	4,886.81	4,787.90	12.07	25.89	128.19	-672.57	396.15	1,003.25	967.59	35.66	28.133		
5,000.00	4,952.40	4,977.83	4,878.67	12.33	26.07	129.00	-677.17	391.34	1,018.25	982.27	35.98	28.298		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,051.35	5,084.08	4,984.72	12.60	26.27	129.80	-682.73	388.03	1,033.23	996.89	36.34	28.430	
5,200.00	5,150.29	5,240.40	5,140.91	12.87	26.52	130.91	-686.83	384.25	1,045.99	1,009.21	36.78	28.443	
5,300.00	5,249.24	5,347.56	5,248.06	13.14	26.65	131.61	-685.85	383.37	1,054.86	1,017.75	37.12	28.421	
5,400.00	5,348.19	5,445.95	5,346.45	13.42	26.75	132.20	-684.94	383.34	1,063.68	1,026.23	37.45	28.402	
5,500.00	5,447.14	5,540.41	5,440.90	13.69	26.86	132.73	-684.32	383.65	1,072.79	1,035.00	37.79	28.389	
5,600.00	5,546.08	5,633.10	5,533.60	13.97	26.97	133.24	-684.23	383.89	1,082.56	1,044.43	38.13	28.391	
5,700.00	5,645.03	5,739.00	5,639.49	14.25	27.08	133.77	-684.42	384.99	1,092.49	1,054.01	38.48	28.391	
5,800.00	5,743.98	5,840.22	5,740.66	14.53	27.19	134.18	-684.37	388.00	1,101.76	1,062.92	38.84	28.369	
5,900.00	5,842.93	5,922.55	5,822.97	14.82	27.28	134.54	-684.84	389.52	1,111.98	1,072.80	39.18	28.385	
6,000.00	5,941.87	6,009.07	5,909.48	15.10	27.41	135.00	-686.12	389.12	1,123.74	1,084.21	39.53	28.431	
6,100.00	6,040.82	6,113.23	6,013.62	15.39	27.56	135.56	-687.67	388.25	1,135.74	1,095.83	39.91	28.458	
6,200.00	6,139.77	6,213.45	6,113.84	15.67	27.71	136.07	-688.89	387.85	1,147.46	1,107.17	40.29	28.481	
6,300.00	6,238.72	6,310.68	6,211.05	15.96	27.85	136.53	-690.33	387.95	1,159.34	1,118.67	40.67	28.508	
6,400.00	6,337.67	6,413.69	6,314.05	16.25	27.99	136.99	-691.88	388.37	1,171.23	1,130.17	41.06	28.526	
6,500.00	6,436.61	6,518.10	6,418.46	16.54	28.14	137.46	-692.92	388.71	1,182.75	1,141.29	41.45	28.532	
6,600.00	6,536.02	6,616.88	6,517.24	16.77	28.28	-157.07	-693.76	389.11	1,192.40	1,150.59	41.81	28.522	
6,700.00	6,635.32	6,716.27	6,616.61	16.92	28.42	-94.81	-694.63	389.67	1,197.04	1,154.87	42.16	28.391	
6,800.00	6,732.10	6,812.84	6,713.18	17.02	28.56	-85.00	-695.50	390.33	1,196.91	1,154.36	42.55	28.132	
6,900.00	6,823.98	6,905.51	6,805.84	17.07	28.69	-83.17	-696.33	391.01	1,192.91	1,149.95	42.96	27.767	
7,000.00	6,908.69	6,991.51	6,891.84	17.10	28.82	-83.98	-696.93	391.49	1,186.43	1,143.02	43.41	27.328	
7,100.00	6,984.15	7,068.60	6,968.93	17.12	28.93	-85.92	-697.34	391.83	1,179.35	1,135.43	43.92	26.853	
7,200.00	7,048.50	7,134.27	7,034.60	17.17	29.02	-88.16	-697.59	392.19	1,173.80	1,129.31	44.49	26.385	
7,288.17	7,094.76	7,181.25	7,081.58	17.28	29.09	-89.88	-697.71	392.49	1,171.91	1,126.86	45.05	26.015	
7,300.00	7,100.16	7,186.72	7,087.05	17.30	29.10	-90.07	-697.72	392.52	1,171.94	1,126.83	45.12	25.974	
7,400.00	7,137.85	7,223.04	7,123.37	17.53	29.15	-91.10	-697.81	392.77	1,175.66	1,129.87	45.80	25.672	
7,500.00	7,160.65	7,244.80	7,145.13	17.89	29.18	-91.03	-697.87	392.92	1,186.17	1,139.69	46.48	25.518 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)		Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	0.00	0.00	3.28	3.28	102.13	-223.30	1,038.94	1,062.72						
100.00	100.00	89.00	89.00	3.28	3.56	102.13	-223.30	1,038.94	1,062.67	1,055.04	7.63	139.282			
200.00	200.00	189.00	189.00	3.31	5.73	102.13	-223.30	1,038.94	1,062.67	1,052.84	9.82	108.171			
300.00	299.98	288.98	288.98	3.35	8.87	41.11	-223.30	1,038.94	1,061.35	1,048.34	13.01	81.598			
400.00	399.84	388.84	388.84	3.42	12.22	41.35	-223.30	1,038.94	1,057.41	1,040.98	16.43	64.355			
500.00	499.45	488.45	488.45	3.51	15.65	41.75	-223.30	1,038.94	1,050.88	1,030.93	19.95	52.676			
600.00	598.70	587.70	587.70	3.63	19.11	42.32	-223.30	1,038.94	1,041.80	1,018.28	23.52	44.297			
700.00	697.66	686.66	686.66	3.78	22.57	42.88	-223.30	1,038.94	1,031.13	1,004.01	27.12	38.022			
800.00	796.60	785.60	785.60	3.95	26.04	43.43	-223.30	1,038.94	1,020.52	989.77	30.75	33.188			
900.00	895.55	884.55	884.55	4.15	29.52	43.99	-223.30	1,038.94	1,010.00	975.60	34.41	29.354			
1,000.00	994.50	983.50	983.50	4.37	33.01	44.56	-223.30	1,038.94	999.59	961.50	38.09	26.244			
1,100.00	1,093.45	1,082.45	1,082.45	4.60	36.50	45.15	-223.30	1,038.94	989.28	947.49	41.79	23.674			
1,200.00	1,192.39	1,181.39	1,181.39	4.85	39.99	45.74	-223.30	1,038.94	979.07	933.57	45.50	21.516			
1,300.00	1,291.34	1,280.34	1,280.34	5.10	43.49	46.35	-223.30	1,038.94	968.97	919.74	49.23	19.681			
1,400.00	1,390.29	1,379.29	1,379.29	5.37	46.98	46.97	-223.30	1,038.94	958.99	906.01	52.98	18.102			
1,500.00	1,489.24	1,478.24	1,478.24	5.65	50.48	47.61	-223.30	1,038.94	949.12	892.39	56.73	16.731			
1,600.00	1,588.18	1,577.18	1,577.18	5.94	53.98	48.26	-223.30	1,038.94	939.36	878.87	60.49	15.529			
1,700.00	1,687.13	1,676.13	1,676.13	6.23	57.48	48.92	-223.30	1,038.94	929.74	865.47	64.26	14.468			
1,800.00	1,786.08	1,775.08	1,775.08	6.53	60.98	49.59	-223.30	1,038.94	920.23	852.19	68.04	13.525			
1,900.00	1,885.03	1,874.03	1,874.03	6.69	64.48	50.28	-223.30	1,038.94	910.86	839.38	71.49	12.742			
2,000.00	1,983.97	1,972.97	1,972.97	6.72	67.98	50.98	-223.30	1,038.94	901.63	826.60	75.02	12.018			
2,100.00	2,082.92	2,071.92	2,071.92	6.77	71.49	51.70	-223.30	1,038.94	892.53	813.96	78.57	11.360			
2,200.00	2,181.87	2,170.87	2,170.87	6.83	74.99	52.43	-223.30	1,038.94	883.57	801.44	82.14	10.758			
2,300.00	2,280.82	2,269.82	2,269.82	6.91	78.49	53.18	-223.30	1,038.94	874.77	789.05	85.71	10.206			
2,400.00	2,379.76	2,368.76	2,368.76	7.00	81.99	53.94	-223.30	1,038.94	866.11	776.81	89.31	9.698			
2,500.00	2,478.71	2,467.71	2,467.71	7.10	85.50	54.72	-223.30	1,038.94	857.62	764.70	92.91	9.230			
2,600.00	2,577.66	2,566.66	2,566.66	7.22	89.00	55.51	-223.30	1,038.94	849.28	752.75	96.53	8.798			
2,700.00	2,676.61	2,665.61	2,665.61	7.34	92.51	56.31	-223.30	1,038.94	841.11	740.95	100.17	8.397			
2,800.00	2,775.55	2,764.55	2,764.55	7.48	96.01	57.14	-223.30	1,038.94	833.11	729.30	103.81	8.025			
2,900.00	2,874.50	2,863.50	2,863.50	7.63	99.51	57.97	-223.30	1,038.94	825.29	717.83	107.47	7.680			
3,000.00	2,973.45	2,962.45	2,962.45	7.79	103.02	58.83	-223.30	1,038.94	817.65	706.52	111.13	7.357			
3,100.00	3,072.40	3,061.40	3,061.40	7.96	106.52	59.70	-223.30	1,038.94	810.20	695.39	114.81	7.057			
3,200.00	3,171.34	3,160.34	3,160.34	8.13	110.03	60.58	-223.30	1,038.94	802.94	684.44	118.49	6.776			
3,300.00	3,270.29	3,259.29	3,259.29	8.32	113.53	61.48	-223.30	1,038.94	795.87	673.68	122.19	6.513			
3,400.00	3,369.24	3,358.24	3,358.24	8.51	117.03	62.40	-223.30	1,038.94	789.01	663.11	125.89	6.267			
3,500.00	3,468.19	3,457.19	3,457.19	8.71	120.54	63.33	-223.30	1,038.94	782.35	652.75	129.60	6.037			
3,600.00	3,567.13	3,556.13	3,556.13	8.92	124.04	64.27	-223.30	1,038.94	775.91	642.59	133.32	5.820			
3,700.00	3,666.08	3,655.08	3,655.08	9.14	127.55	65.24	-223.30	1,038.94	769.68	632.63	137.05	5.616			
3,800.00	3,765.03	3,754.03	3,754.03	9.36	131.05	66.21	-223.30	1,038.94	763.68	622.90	140.78	5.425			
3,900.00	3,863.98	3,852.98	3,852.98	9.58	134.56	67.20	-223.30	1,038.94	757.91	613.39	144.51	5.244			
4,000.00	3,962.92	3,951.92	3,951.92	9.81	138.06	68.21	-223.30	1,038.94	752.37	604.11	148.26	5.075			
4,100.00	4,061.87	4,050.87	4,050.87	10.05	141.57	69.23	-223.30	1,038.94	747.07	595.06	152.01	4.915			
4,200.00	4,160.82	4,149.82	4,149.82	10.29	145.07	70.27	-223.30	1,038.94	742.01	586.25	155.76	4.764			
4,300.00	4,259.77	4,248.77	4,248.77	10.53	148.58	71.32	-223.30	1,038.94	737.21	577.69	159.52	4.622			
4,400.00	4,358.71	4,347.71	4,347.71	10.78	152.08	72.38	-223.30	1,038.94	732.65	569.38	163.28	4.487			
4,500.00	4,457.66	4,446.66	4,446.66	11.03	155.59	73.45	-223.30	1,038.94	728.36	561.32	167.04	4.360			
4,600.00	4,556.61	4,545.61	4,545.61	11.28	159.09	74.54	-223.30	1,038.94	724.33	553.52	170.81	4.241			
4,700.00	4,655.56	4,644.56	4,644.56	11.54	162.60	75.64	-223.30	1,038.94	720.57	545.99	174.58	4.127			
4,800.00	4,754.50	4,743.50	4,743.50	11.80	166.10	76.75	-223.30	1,038.94	717.08	538.73	178.36	4.020			
4,900.00	4,853.45	4,842.45	4,842.45	12.07	169.61	77.87	-223.30	1,038.94	713.87	531.73	182.14	3.919			
5,000.00	4,952.40	4,941.40	4,941.40	12.33	173.11	78.99	-223.30	1,038.94	710.94	525.02	185.92	3.824			
5,100.00	5,051.35	5,040.35	5,040.35	12.60	176.62	80.13	-223.30	1,038.94	708.29	518.59	189.70	3.734			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,150.29	5,139.29	5,139.29	12.87	180.13	81.28	-223.30	1,038.94	705.93	512.44	193.49	3.648	
5,300.00	5,249.24	5,238.24	5,238.24	13.14	183.63	82.43	-223.30	1,038.94	703.86	506.58	197.27	3.568	
5,400.00	5,348.19	5,337.19	5,337.19	13.42	187.14	83.59	-223.30	1,038.94	702.08	501.01	201.06	3.492	
5,500.00	5,447.14	5,436.14	5,436.14	13.69	190.64	84.75	-223.30	1,038.94	700.59	495.74	204.85	3.420	
5,600.00	5,546.08	5,535.08	5,535.08	13.97	194.15	85.92	-223.30	1,038.94	699.40	490.76	208.65	3.352	
5,700.00	5,645.03	5,634.03	5,634.03	14.25	197.65	87.09	-223.30	1,038.94	698.51	486.07	212.44	3.288	
5,800.00	5,743.98	5,732.98	5,732.98	14.53	201.16	88.26	-223.30	1,038.94	697.92	481.68	216.23	3.228	
5,900.00	5,842.93	5,831.93	5,831.93	14.82	204.66	89.44	-223.30	1,038.94	697.63	477.60	220.03	3.171	
5,947.58	5,890.01	5,879.01	5,879.01	14.95	206.33	90.00	-223.30	1,038.94	697.59	475.76	221.84	3.145 CC	
6,000.00	5,941.87	5,930.87	5,930.87	15.10	208.17	90.62	-223.30	1,038.94	697.63	473.81	223.83	3.117	
6,100.00	6,040.82	6,029.82	6,029.82	15.39	211.67	91.79	-223.30	1,038.94	697.94	470.32	227.62	3.066	
6,200.00	6,139.77	6,128.77	6,128.77	15.67	215.18	92.97	-223.30	1,038.94	698.55	467.13	231.42	3.019	
6,300.00	6,238.72	6,227.72	6,227.72	15.96	218.69	94.14	-223.30	1,038.94	699.45	464.23	235.22	2.974	
6,400.00	6,337.67	6,326.67	6,326.67	16.25	222.19	95.31	-223.30	1,038.94	700.66	461.64	239.02	2.931	
6,500.00	6,436.61	6,425.61	6,425.61	16.54	225.70	96.47	-223.30	1,038.94	702.16	459.34	242.82	2.892 ES	
6,600.00	6,536.02	6,525.02	6,525.02	16.77	229.22	162.13	-223.30	1,038.94	706.00	459.43	246.57	2.863	
6,700.00	6,635.32	6,624.32	6,624.32	16.92	232.74	-135.08	-223.30	1,038.94	715.63	465.39	250.24	2.860 SF	
6,800.00	6,732.10	6,721.10	6,721.10	17.02	236.17	-124.26	-223.30	1,038.94	731.20	477.43	253.77	2.881	
6,900.00	6,823.98	6,812.98	6,812.98	17.07	239.42	-120.83	-223.30	1,038.94	753.39	496.32	257.06	2.931	
7,000.00	6,908.69	6,902.31	6,897.69	17.10	242.59	-119.29	-223.30	1,038.94	783.22	522.99	260.23	3.010	
7,100.00	6,984.15	6,973.15	6,973.15	17.12	245.10	-118.04	-223.30	1,038.94	821.69	558.98	262.71	3.128	
7,200.00	7,048.50	7,037.50	7,037.50	17.17	247.38	-116.16	-223.30	1,038.94	869.42	604.47	264.95	3.281	
7,300.00	7,100.16	7,089.16	7,089.16	17.30	249.21	-112.94	-223.30	1,038.94	926.36	659.62	266.74	3.473	
7,400.00	7,137.85	7,126.85	7,126.85	17.53	250.54	-107.75	-223.30	1,038.94	991.71	723.68	268.03	3.700	
7,500.00	7,160.65	7,149.65	7,149.65	17.89	251.35	-100.04	-223.30	1,038.94	1,064.01	795.21	268.80	3.958	
7,600.00	7,168.01	7,157.01	7,157.01	18.37	251.61	-90.13	-223.30	1,038.94	1,141.22	872.20	269.02	4.242	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)		Offset Site Error:		0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448												Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	3.28	3.28	101.46	-220.38	1,087.42	1,109.58							
100.00	100.00	89.00	89.00	3.28	3.56	101.46	-220.38	1,087.42	1,109.53	1,101.90	7.63	145.423				
200.00	200.00	189.00	189.00	3.31	5.73	101.46	-220.38	1,087.42	1,109.53	1,099.70	9.82	112.941				
300.00	299.98	288.98	288.98	3.35	8.87	40.43	-220.38	1,087.42	1,108.20	1,095.19	13.01	85.200				
400.00	399.84	388.84	388.84	3.42	12.22	40.66	-220.38	1,087.42	1,104.22	1,087.79	16.43	67.204				
500.00	499.45	488.45	488.45	3.51	15.65	41.04	-220.38	1,087.42	1,097.61	1,077.66	19.95	55.018				
600.00	598.70	587.70	587.70	3.63	19.11	41.58	-220.38	1,087.42	1,088.43	1,064.91	23.52	46.280				
700.00	697.66	686.66	686.66	3.78	22.57	42.11	-220.38	1,087.42	1,077.64	1,050.52	27.12	39.737				
800.00	796.60	785.60	785.60	3.95	26.04	42.63	-220.38	1,087.42	1,066.89	1,036.15	30.75	34.697				
900.00	895.55	884.55	884.55	4.15	29.52	43.16	-220.38	1,087.42	1,056.24	1,021.84	34.41	30.699				
1,000.00	994.50	983.50	983.50	4.37	33.01	43.70	-220.38	1,087.42	1,045.68	1,007.60	38.09	27.456				
1,100.00	1,093.45	1,082.45	1,082.45	4.60	36.50	44.25	-220.38	1,087.42	1,035.22	993.43	41.79	24.775				
1,200.00	1,192.39	1,181.39	1,181.39	4.85	39.99	44.81	-220.38	1,087.42	1,024.85	979.35	45.50	22.524				
1,300.00	1,291.34	1,280.34	1,280.34	5.10	43.49	45.39	-220.38	1,087.42	1,014.58	965.35	49.23	20.609				
1,400.00	1,390.29	1,379.29	1,379.29	5.37	46.98	45.97	-220.38	1,087.42	1,004.41	951.44	52.97	18.962				
1,500.00	1,489.24	1,478.24	1,478.24	5.65	50.48	46.57	-220.38	1,087.42	994.36	937.63	56.72	17.530				
1,600.00	1,588.18	1,577.18	1,577.18	5.94	53.98	47.18	-220.38	1,087.42	984.41	923.92	60.48	16.276				
1,700.00	1,687.13	1,676.13	1,676.13	6.23	57.48	47.80	-220.38	1,087.42	974.57	910.32	64.25	15.168				
1,800.00	1,786.08	1,775.08	1,775.08	6.53	60.98	48.43	-220.38	1,087.42	964.85	896.82	68.03	14.183				
1,900.00	1,885.03	1,874.03	1,874.03	6.69	64.48	49.07	-220.38	1,087.42	955.26	883.78	71.48	13.365				
2,000.00	1,983.97	1,972.97	1,972.97	6.72	67.98	49.73	-220.38	1,087.42	945.78	870.77	75.01	12.609				
2,100.00	2,082.92	2,071.92	2,071.92	6.77	71.49	50.40	-220.38	1,087.42	936.44	857.88	78.56	11.920				
2,200.00	2,181.87	2,170.87	2,170.87	6.83	74.99	51.09	-220.38	1,087.42	927.22	845.10	82.12	11.291				
2,300.00	2,280.82	2,269.82	2,269.82	6.91	78.49	51.79	-220.38	1,087.42	918.14	832.44	85.70	10.713				
2,400.00	2,379.76	2,368.76	2,368.76	7.00	81.99	52.50	-220.38	1,087.42	909.21	819.91	89.29	10.182				
2,500.00	2,478.71	2,467.71	2,467.71	7.10	85.50	53.22	-220.38	1,087.42	900.41	807.51	92.90	9.692				
2,600.00	2,577.66	2,566.66	2,566.66	7.22	89.00	53.96	-220.38	1,087.42	891.76	795.25	96.52	9.239				
2,700.00	2,676.61	2,665.61	2,665.61	7.34	92.51	54.72	-220.38	1,087.42	883.27	783.12	100.15	8.820				
2,800.00	2,775.55	2,764.55	2,764.55	7.48	96.01	55.49	-220.38	1,087.42	874.93	771.14	103.79	8.430				
2,900.00	2,874.50	2,863.50	2,863.50	7.63	99.51	56.27	-220.38	1,087.42	866.75	759.31	107.45	8.067				
3,000.00	2,973.45	2,962.45	2,962.45	7.79	103.02	57.06	-220.38	1,087.42	858.74	747.63	111.11	7.729				
3,100.00	3,072.40	3,061.40	3,061.40	7.96	106.52	57.88	-220.38	1,087.42	850.90	736.12	114.79	7.413				
3,200.00	3,171.34	3,160.34	3,160.34	8.13	110.03	58.70	-220.38	1,087.42	843.24	724.77	118.47	7.118				
3,300.00	3,270.29	3,259.29	3,259.29	8.32	113.53	59.54	-220.38	1,087.42	835.76	713.59	122.17	6.841				
3,400.00	3,369.24	3,358.24	3,358.24	8.51	117.03	60.40	-220.38	1,087.42	828.46	702.59	125.87	6.582				
3,500.00	3,468.19	3,457.19	3,457.19	8.71	120.54	61.27	-220.38	1,087.42	821.35	691.77	129.58	6.339				
3,600.00	3,567.13	3,556.13	3,556.13	8.92	124.04	62.16	-220.38	1,087.42	814.43	681.14	133.29	6.110				
3,700.00	3,666.08	3,655.08	3,655.08	9.14	127.55	63.06	-220.38	1,087.42	807.72	670.70	137.02	5.895				
3,800.00	3,765.03	3,754.03	3,754.03	9.36	131.05	63.97	-220.38	1,087.42	801.21	660.46	140.75	5.693				
3,900.00	3,863.98	3,852.98	3,852.98	9.58	134.56	64.90	-220.38	1,087.42	794.91	650.43	144.48	5.502				
4,000.00	3,962.92	3,951.92	3,951.92	9.81	138.06	65.84	-220.38	1,087.42	788.83	640.60	148.23	5.322				
4,100.00	4,061.87	4,050.87	4,050.87	10.05	141.57	66.80	-220.38	1,087.42	782.97	630.99	151.97	5.152				
4,200.00	4,160.82	4,149.82	4,149.82	10.29	145.07	67.77	-220.38	1,087.42	777.33	621.60	155.73	4.992				
4,300.00	4,259.77	4,248.77	4,248.77	10.53	148.58	68.76	-220.38	1,087.42	771.92	612.44	159.48	4.840				
4,400.00	4,358.71	4,347.71	4,347.71	10.78	152.08	69.76	-220.38	1,087.42	766.75	603.50	163.24	4.697				
4,500.00	4,457.66	4,446.66	4,446.66	11.03	155.59	70.77	-220.38	1,087.42	761.81	594.81	167.01	4.562				
4,600.00	4,556.61	4,545.61	4,545.61	11.28	159.09	71.79	-220.38	1,087.42	757.13	586.35	170.78	4.433				
4,700.00	4,655.56	4,644.56	4,644.56	11.54	162.60	72.83	-220.38	1,087.42	752.69	578.14	174.55	4.312				
4,800.00	4,754.50	4,743.50	4,743.50	11.80	166.10	73.88	-220.38	1,087.42	748.50	570.18	178.32	4.197				
4,900.00	4,853.45	4,842.45	4,842.45	12.07	169.61	74.94	-220.38	1,087.42	744.57	562.47	182.10	4.089				
5,000.00	4,952.40	4,941.40	4,941.40	12.33	173.11	76.01	-220.38	1,087.42	740.91	555.02	185.88	3.986				
5,100.00	5,051.35	5,040.35	5,040.35	12.60	176.62	77.09	-220.38	1,087.42	737.50	547.84	189.67	3.888				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,150.29	5,139.29	5,139.29	12.87	180.13	78.17	-220.38	1,087.42	734.37	540.92	193.45	3.796	
5,300.00	5,249.24	5,238.24	5,238.24	13.14	183.63	79.27	-220.38	1,087.42	731.51	534.27	197.24	3.709	
5,400.00	5,348.19	5,337.19	5,337.19	13.42	187.14	80.38	-220.38	1,087.42	728.93	527.90	201.03	3.626	
5,500.00	5,447.14	5,436.14	5,436.14	13.69	190.64	81.49	-220.38	1,087.42	726.63	521.81	204.82	3.548	
5,600.00	5,546.08	5,535.08	5,535.08	13.97	194.15	82.61	-220.38	1,087.42	724.61	515.99	208.61	3.473	
5,700.00	5,645.03	5,634.03	5,634.03	14.25	197.65	83.74	-220.38	1,087.42	722.87	510.46	212.41	3.403	
5,800.00	5,743.98	5,732.98	5,732.98	14.53	201.16	84.87	-220.38	1,087.42	721.42	505.21	216.21	3.337	
5,900.00	5,842.93	5,831.93	5,831.93	14.82	204.66	86.00	-220.38	1,087.42	720.25	500.25	220.00	3.274	
6,000.00	5,941.87	5,930.87	5,930.87	15.10	208.17	87.14	-220.38	1,087.42	719.38	495.58	223.80	3.214	
6,100.00	6,040.82	6,029.82	6,029.82	15.39	211.67	88.28	-220.38	1,087.42	718.79	491.19	227.60	3.158	
6,200.00	6,139.77	6,128.77	6,128.77	15.67	215.18	89.42	-220.38	1,087.42	718.50	487.10	231.40	3.105	
6,250.64	6,189.87	6,178.87	6,178.87	15.82	216.96	90.00	-220.38	1,087.42	718.46	485.14	233.32	3.079 CC	
6,300.00	6,238.72	6,227.72	6,227.72	15.96	218.69	90.56	-220.38	1,087.42	718.50	483.30	235.20	3.055	
6,400.00	6,337.67	6,326.67	6,326.67	16.25	222.19	91.70	-220.38	1,087.42	718.79	479.79	239.00	3.007	
6,500.00	6,436.61	6,425.61	6,425.61	16.54	225.70	92.84	-220.38	1,087.42	719.37	476.57	242.80	2.963	
6,600.00	6,536.02	6,525.02	6,525.02	16.77	229.22	158.46	-220.38	1,087.42	722.61	476.05	246.56	2.931 ES	
6,700.00	6,635.32	6,624.32	6,624.32	16.92	232.74	-138.69	-220.38	1,087.42	732.55	482.31	250.23	2.927 SF	
6,800.00	6,732.10	6,721.10	6,721.10	17.02	236.17	-127.70	-220.38	1,087.42	749.27	495.52	253.75	2.953	
6,900.00	6,823.98	6,812.98	6,812.98	17.07	239.42	-124.00	-220.38	1,087.42	773.34	516.30	257.05	3.009	
7,000.00	6,908.69	6,902.31	6,897.69	17.10	242.59	-122.15	-220.38	1,087.42	805.58	545.38	260.21	3.096	
7,100.00	6,984.15	6,973.15	6,973.15	17.12	245.10	-120.54	-220.38	1,087.42	846.76	584.08	262.68	3.223	
7,200.00	7,048.50	7,037.50	7,037.50	17.17	247.38	-118.27	-220.38	1,087.42	897.27	632.35	264.92	3.387	
7,300.00	7,100.16	7,089.16	7,089.16	17.30	249.21	-114.64	-220.38	1,087.42	956.86	690.17	266.70	3.588	
7,400.00	7,137.85	7,126.85	7,126.85	17.53	250.54	-108.97	-220.38	1,087.42	1,024.64	756.66	267.98	3.824	
7,500.00	7,160.65	7,149.65	7,149.65	17.89	251.35	-100.68	-220.38	1,087.42	1,099.06	830.31	268.75	4.090	
7,600.00	7,168.01	7,157.01	7,157.01	18.37	251.61	-90.14	-220.38	1,087.42	1,178.08	909.11	268.97	4.380	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-144.05	-239.71	-173.85	296.11				
100.00	100.00	101.00	99.00	3.28	3.74	-144.05	-239.71	-173.85	296.11	288.30	7.82	37.870	
200.00	200.00	201.00	199.00	3.31	6.28	-144.05	-239.71	-173.85	296.11	285.74	10.37	28.548 CC	
300.00	299.98	301.02	298.98	3.35	9.48	154.98	-239.71	-173.85	297.70	284.07	13.62	21.856 ES	
400.00	399.84	401.16	398.84	3.42	12.87	155.36	-239.71	-173.85	302.45	285.37	17.08	17.711	
500.00	499.45	501.55	498.45	3.51	16.33	155.97	-239.71	-173.85	310.39	289.76	20.63	15.042	
600.00	598.70	602.30	597.70	3.63	19.84	156.76	-239.71	-173.85	321.57	297.31	24.26	13.253	
700.00	697.66	703.34	696.66	3.78	23.38	157.72	-239.71	-173.85	334.89	306.95	27.94	11.986	
800.00	796.60	804.40	795.60	3.95	26.93	158.62	-239.71	-173.85	348.35	316.70	31.64	11.009	
900.00	895.55	905.45	894.55	4.15	30.49	159.45	-239.71	-173.85	361.88	326.51	35.37	10.231	
1,000.00	994.50	1,006.50	993.50	4.37	34.05	160.23	-239.71	-173.85	375.48	336.36	39.12	9.599	
1,100.00	1,093.45	1,107.55	1,092.45	4.60	37.61	160.95	-239.71	-173.85	389.14	346.26	42.88	9.075	
1,200.00	1,192.39	1,208.61	1,191.39	4.85	41.18	161.62	-239.71	-173.85	402.86	356.20	46.66	8.635	
1,300.00	1,291.34	1,309.66	1,290.34	5.10	44.75	162.25	-239.71	-173.85	416.63	366.19	50.44	8.259	
1,400.00	1,390.29	1,389.29	1,389.29	5.37	47.57	162.83	-239.71	-173.85	430.45	376.96	53.49	8.048	
1,500.00	1,489.24	1,488.24	1,488.24	5.65	51.07	163.38	-239.71	-173.85	444.31	387.09	57.22	7.765	
1,600.00	1,588.18	1,587.18	1,587.18	5.94	54.56	163.90	-239.71	-173.85	458.20	397.24	60.96	7.517	
1,700.00	1,687.13	1,686.13	1,686.13	6.23	58.06	164.39	-239.71	-173.85	472.13	407.43	64.70	7.297	
1,800.00	1,786.08	1,785.08	1,785.08	6.53	61.57	164.84	-239.71	-173.85	486.09	417.64	68.46	7.101	
1,900.00	1,885.03	1,884.03	1,884.03	6.69	65.07	165.28	-239.71	-173.85	500.09	428.20	71.88	6.957	
2,000.00	1,983.97	1,982.97	1,982.97	6.72	68.57	165.69	-239.71	-173.85	514.10	438.70	75.40	6.818	
2,100.00	2,082.92	2,081.92	2,081.92	6.77	72.07	166.08	-239.71	-173.85	528.15	449.21	78.93	6.691	
2,200.00	2,181.87	2,180.87	2,180.87	6.83	75.57	166.44	-239.71	-173.85	542.21	459.73	82.48	6.574	
2,300.00	2,280.82	2,279.82	2,279.82	6.91	79.08	166.79	-239.71	-173.85	556.29	470.26	86.04	6.466	
2,400.00	2,379.76	2,378.76	2,378.76	7.00	82.58	167.12	-239.71	-173.85	570.40	480.79	89.61	6.365	
2,500.00	2,478.71	2,477.71	2,477.71	7.10	86.08	167.44	-239.71	-173.85	584.52	491.32	93.20	6.272	
2,600.00	2,577.66	2,576.66	2,576.66	7.22	89.59	167.74	-239.71	-173.85	598.66	501.86	96.80	6.184	
2,700.00	2,676.61	2,675.61	2,675.61	7.34	93.09	168.03	-239.71	-173.85	612.82	512.40	100.42	6.103	
2,800.00	2,775.55	2,774.55	2,774.55	7.48	96.59	168.30	-239.71	-173.85	626.98	522.94	104.04	6.026	
2,900.00	2,874.50	2,873.50	2,873.50	7.63	100.10	168.56	-239.71	-173.85	641.17	533.49	107.68	5.955	
3,000.00	2,973.45	2,972.45	2,972.45	7.79	103.60	168.82	-239.71	-173.85	655.36	544.04	111.32	5.887	
3,100.00	3,072.40	3,071.40	3,071.40	7.96	107.11	169.06	-239.71	-173.85	669.57	554.59	114.98	5.823	
3,200.00	3,171.34	3,170.34	3,170.34	8.13	110.61	169.29	-239.71	-173.85	683.79	565.14	118.65	5.763	
3,300.00	3,270.29	3,269.29	3,269.29	8.32	114.11	169.51	-239.71	-173.85	698.01	575.69	122.32	5.706	
3,400.00	3,369.24	3,368.24	3,368.24	8.51	117.62	169.72	-239.71	-173.85	712.25	586.25	126.00	5.653	
3,500.00	3,468.19	3,467.19	3,467.19	8.71	121.12	169.92	-239.71	-173.85	726.50	596.80	129.69	5.602	
3,600.00	3,567.13	3,566.13	3,566.13	8.92	124.63	170.12	-239.71	-173.85	740.75	607.36	133.39	5.553	
3,700.00	3,666.08	3,665.08	3,665.08	9.14	128.13	170.31	-239.71	-173.85	755.02	617.92	137.10	5.507	
3,800.00	3,765.03	3,764.03	3,764.03	9.36	131.64	170.49	-239.71	-173.85	769.29	628.48	140.81	5.464	
3,900.00	3,863.98	3,862.98	3,862.98	9.58	135.14	170.66	-239.71	-173.85	783.57	639.05	144.52	5.422	
4,000.00	3,962.92	3,961.92	3,961.92	9.81	138.65	170.83	-239.71	-173.85	797.85	649.61	148.24	5.382	
4,100.00	4,061.87	4,060.87	4,060.87	10.05	142.15	170.99	-239.71	-173.85	812.15	660.18	151.97	5.344	
4,200.00	4,160.82	4,159.82	4,159.82	10.29	145.66	171.15	-239.71	-173.85	826.45	670.75	155.70	5.308	
4,300.00	4,259.77	4,258.77	4,258.77	10.53	149.16	171.30	-239.71	-173.85	840.75	681.32	159.43	5.273	
4,400.00	4,358.71	4,357.71	4,357.71	10.78	152.67	171.45	-239.71	-173.85	855.06	691.89	163.17	5.240	
4,500.00	4,457.66	4,456.66	4,456.66	11.03	156.17	171.59	-239.71	-173.85	869.37	702.46	166.91	5.209	
4,600.00	4,556.61	4,555.61	4,555.61	11.28	159.68	171.73	-239.71	-173.85	883.69	713.04	170.66	5.178	
4,700.00	4,655.56	4,654.56	4,654.56	11.54	163.18	171.86	-239.71	-173.85	898.02	723.61	174.41	5.149	
4,800.00	4,754.50	4,753.50	4,753.50	11.80	166.69	171.99	-239.71	-173.85	912.35	734.19	178.16	5.121	
4,900.00	4,853.45	4,852.45	4,852.45	12.07	170.19	172.11	-239.71	-173.85	926.68	744.77	181.91	5.094	
5,000.00	4,952.40	4,951.40	4,951.40	12.33	173.70	172.23	-239.71	-173.85	941.02	755.35	185.67	5.068	
5,100.00	5,051.35	5,050.35	5,050.35	12.60	177.20	172.35	-239.71	-173.85	955.36	765.94	189.43	5.043	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,150.29	5,149.29	5,149.29	12.87	180.71	172.47	-239.71	-173.85	969.71	776.52	193.19	5.019	
5,300.00	5,249.24	5,248.24	5,248.24	13.14	184.22	172.58	-239.71	-173.85	984.06	787.11	196.95	4.996	
5,400.00	5,348.19	5,347.19	5,347.19	13.42	187.72	172.68	-239.71	-173.85	998.41	797.69	200.72	4.974	
5,500.00	5,447.14	5,446.14	5,446.14	13.69	191.23	172.79	-239.71	-173.85	1,012.77	808.28	204.49	4.953	
5,600.00	5,546.08	5,545.08	5,545.08	13.97	194.73	172.89	-239.71	-173.85	1,027.13	818.87	208.26	4.932	
5,700.00	5,645.03	5,644.03	5,644.03	14.25	198.24	172.99	-239.71	-173.85	1,041.49	829.46	212.03	4.912	
5,800.00	5,743.98	5,742.98	5,742.98	14.53	201.74	173.08	-239.71	-173.85	1,055.86	840.06	215.80	4.893	
5,900.00	5,842.93	5,841.93	5,841.93	14.82	205.25	173.18	-239.71	-173.85	1,070.23	850.65	219.58	4.874	
6,000.00	5,941.87	5,940.87	5,940.87	15.10	208.75	173.27	-239.71	-173.85	1,084.60	861.25	223.35	4.856	
6,100.00	6,040.82	6,039.82	6,039.82	15.39	212.26	173.36	-239.71	-173.85	1,098.97	871.84	227.13	4.839	
6,200.00	6,139.77	6,138.77	6,138.77	15.67	215.76	173.44	-239.71	-173.85	1,113.35	882.44	230.91	4.822	
6,300.00	6,238.72	6,237.72	6,237.72	15.96	219.27	173.53	-239.71	-173.85	1,127.73	893.04	234.69	4.805	
6,400.00	6,337.67	6,336.67	6,336.67	16.25	222.78	173.61	-239.71	-173.85	1,142.11	903.64	238.47	4.789	
6,500.00	6,436.61	6,435.61	6,435.61	16.54	226.28	173.69	-239.71	-173.85	1,156.49	914.24	242.25	4.774	
6,600.00	6,536.02	6,535.02	6,535.02	16.77	229.80	-121.38	-239.71	-173.85	1,166.40	920.41	245.99	4.742	
6,700.00	6,635.32	6,634.32	6,634.32	16.92	233.32	-59.65	-239.71	-173.85	1,163.74	914.06	249.68	4.661	
6,800.00	6,732.10	6,731.10	6,731.10	17.02	236.75	-50.43	-239.71	-173.85	1,148.64	895.39	253.25	4.536	
6,900.00	6,823.98	6,822.98	6,822.98	17.07	240.01	-49.50	-239.71	-173.85	1,121.94	865.32	256.62	4.372	
7,000.00	6,908.69	6,907.69	6,907.69	17.10	243.01	-51.91	-239.71	-173.85	1,085.00	825.27	259.73	4.177	
7,100.00	6,984.15	6,983.15	6,983.15	17.12	245.68	-56.60	-239.71	-173.85	1,039.67	777.14	262.53	3.960	
7,200.00	7,048.50	7,047.50	7,047.50	17.17	247.96	-63.06	-239.71	-173.85	988.33	723.35	264.98	3.730	
7,300.00	7,100.16	7,100.84	7,099.16	17.30	249.85	-70.65	-239.71	-173.85	933.80	666.68	267.12	3.496	
7,400.00	7,137.85	7,136.85	7,136.85	17.53	251.13	-78.39	-239.71	-173.85	879.28	610.52	268.76	3.272	
7,500.00	7,160.65	7,159.65	7,159.65	17.89	251.93	-85.17	-239.71	-173.85	828.21	558.15	270.06	3.067	
7,600.00	7,168.01	7,167.01	7,167.01	18.37	252.19	-89.96	-239.71	-173.85	783.95	513.01	270.94	2.893	
7,700.00	7,168.19	7,167.19	7,167.19	18.96	252.20	-89.97	-239.71	-173.85	749.80	478.13	271.67	2.760	
7,800.00	7,168.36	7,167.36	7,167.36	19.68	252.21	-89.98	-239.71	-173.85	727.88	455.41	272.47	2.671	
7,900.00	7,168.54	7,167.54	7,167.54	20.51	252.21	-90.00	-239.71	-173.85	719.32	446.06	273.26	2.632	
7,911.93	7,168.57	7,167.57	7,167.57	20.62	252.21	-90.00	-239.71	-173.85	719.22	445.87	273.35	2.631 SF	
8,000.00	7,168.72	7,167.72	7,167.72	21.44	252.22	-90.01	-239.71	-173.85	724.59	450.64	273.96	2.645	
8,100.00	7,168.90	7,167.90	7,167.90	22.45	252.23	-90.03	-239.71	-173.85	743.40	468.90	274.50	2.708	
8,200.00	7,169.08	7,168.08	7,168.08	23.53	252.23	-90.04	-239.71	-173.85	774.77	499.89	274.88	2.819	
8,300.00	7,169.26	7,168.26	7,168.26	24.68	252.24	-90.06	-239.71	-173.85	817.24	542.15	275.09	2.971	
8,400.00	7,169.44	7,168.44	7,168.44	25.88	252.24	-90.07	-239.71	-173.85	869.19	594.02	275.17	3.159	
8,500.00	7,169.62	7,168.62	7,168.62	27.14	252.25	-90.08	-239.71	-173.85	929.03	653.88	275.16	3.376	
8,600.00	7,169.80	7,168.80	7,168.80	28.43	252.26	-90.10	-239.71	-173.85	995.35	720.27	275.08	3.618	
8,700.00	7,169.98	7,168.98	7,168.98	29.77	252.26	-90.11	-239.71	-173.85	1,066.93	791.95	274.97	3.880	
8,800.00	7,170.16	7,169.16	7,169.16	31.13	252.27	-90.13	-239.71	-173.85	1,142.78	867.93	274.85	4.158	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-5 - XOG PR Well - No Survey												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.00	7,169.80	7,175.80	7,175.80	28.43	252.51	-89.80	-61.13	-1,906.80	1,178.18	904.54	273.64	4.306	
8,700.00	7,169.98	7,175.98	7,175.98	29.77	252.51	-89.82	-61.13	-1,906.80	1,090.45	815.73	274.72	3.969	
8,800.00	7,170.16	7,176.16	7,176.16	31.13	252.52	-89.84	-61.13	-1,906.80	1,005.01	728.96	276.04	3.641	
8,900.00	7,170.34	7,176.34	7,176.34	32.53	252.52	-89.86	-61.13	-1,906.80	922.50	644.84	277.66	3.322	
9,000.00	7,170.51	7,176.51	7,176.51	33.95	252.53	-89.88	-61.13	-1,906.80	843.78	564.16	279.61	3.018	
9,100.00	7,170.69	7,176.69	7,176.69	35.39	252.54	-89.90	-61.13	-1,906.80	770.01	488.06	281.95	2.731	
9,200.00	7,170.87	7,176.87	7,176.87	36.85	252.54	-89.92	-61.13	-1,906.80	702.77	418.09	284.68	2.469	
9,300.00	7,171.05	7,177.05	7,177.05	38.32	252.55	-89.93	-61.13	-1,906.80	644.08	356.36	287.72	2.239	
9,400.00	7,171.23	7,177.23	7,177.23	39.82	252.56	-89.95	-61.13	-1,906.80	596.49	305.61	290.88	2.051	
9,500.00	7,171.41	7,177.41	7,177.41	41.32	252.56	-89.97	-61.13	-1,906.80	562.81	269.01	293.80	1.916	
9,600.00	7,171.59	7,177.59	7,177.59	42.84	252.57	-89.99	-61.13	-1,906.80	545.64	249.65	295.99	1.843	
9,645.20	7,171.67	7,177.67	7,177.67	43.53	252.57	-90.00	-61.13	-1,906.80	543.76	247.14	296.62	1.833	CC, ES, SF
9,700.00	7,171.77	7,177.77	7,177.77	44.37	252.58	-90.01	-61.13	-1,906.80	546.51	249.47	297.04	1.840	
9,800.00	7,171.95	7,177.95	7,177.95	45.91	252.58	-90.03	-61.13	-1,906.80	565.37	268.50	296.86	1.904	
9,900.00	7,172.13	7,178.13	7,178.13	47.46	252.59	-90.05	-61.13	-1,906.80	600.50	304.81	295.69	2.031	
10,000.00	7,172.31	7,178.31	7,178.31	49.02	252.59	-90.07	-61.13	-1,906.80	649.27	355.35	293.93	2.209	
10,100.00	7,172.49	7,178.49	7,178.49	50.58	252.60	-90.09	-61.13	-1,906.80	708.88	416.95	291.93	2.428	
10,200.00	7,172.66	7,178.66	7,178.66	52.15	252.61	-90.10	-61.13	-1,906.80	776.84	486.88	289.96	2.679	
10,300.00	7,172.84	7,178.84	7,178.84	53.73	252.61	-90.12	-61.13	-1,906.80	851.14	563.01	288.13	2.954	
10,400.00	7,173.02	7,179.02	7,179.02	55.31	252.62	-90.14	-61.13	-1,906.80	930.27	643.77	286.50	3.247	
10,500.00	7,173.20	7,179.20	7,179.20	56.90	252.63	-90.16	-61.13	-1,906.80	1,013.09	728.02	285.07	3.554	
10,600.00	7,173.38	7,179.38	7,179.38	58.49	252.63	-90.18	-61.13	-1,906.80	1,098.78	814.95	283.83	3.871	
10,700.00	7,173.56	7,179.56	7,179.56	60.08	252.64	-90.20	-61.13	-1,906.80	1,186.71	903.95	282.76	4.197	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys													Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE 2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	102.68	-254.25	1,130.05	1,158.55					
100.00	100.00	76.00	76.00	3.28	3.55	102.68	-254.25	1,130.05	1,158.30	1,150.68	7.62	152.009		
200.00	200.00	176.00	176.00	3.31	5.54	102.68	-254.25	1,130.05	1,158.30	1,148.66	9.64	120.197		
300.00	299.98	275.98	275.98	3.35	8.65	41.65	-254.25	1,130.05	1,156.99	1,144.20	12.79	90.436		
400.00	399.84	375.84	375.84	3.42	12.00	41.88	-254.25	1,130.05	1,153.09	1,136.88	16.21	71.138		
500.00	499.45	475.45	475.45	3.51	15.43	42.26	-254.25	1,130.05	1,146.61	1,126.88	19.72	58.130		
600.00	598.70	574.70	574.70	3.63	18.88	42.79	-254.25	1,130.05	1,137.59	1,114.30	23.29	48.842		
700.00	697.66	673.66	673.66	3.78	22.34	43.31	-254.25	1,130.05	1,127.00	1,100.11	26.89	41.909		
800.00	796.60	772.60	772.60	3.95	25.81	43.82	-254.25	1,130.05	1,116.46	1,085.94	30.52	36.580		
900.00	895.55	871.55	871.55	4.15	29.29	44.33	-254.25	1,130.05	1,106.01	1,071.84	34.18	32.360		
1,000.00	994.50	970.50	970.50	4.37	32.78	44.86	-254.25	1,130.05	1,095.66	1,057.80	37.86	28.940		
1,100.00	1,093.45	1,069.45	1,069.45	4.60	36.27	45.40	-254.25	1,130.05	1,085.39	1,043.83	41.56	26.117		
1,200.00	1,192.39	1,168.39	1,168.39	4.85	39.76	45.94	-254.25	1,130.05	1,075.23	1,029.95	45.27	23.749		
1,300.00	1,291.34	1,267.34	1,267.34	5.10	43.26	46.50	-254.25	1,130.05	1,065.16	1,016.16	49.00	21.736		
1,400.00	1,390.29	1,366.29	1,366.29	5.37	46.75	47.06	-254.25	1,130.05	1,055.19	1,002.45	52.75	20.005		
1,500.00	1,489.24	1,465.24	1,465.24	5.65	50.25	47.64	-254.25	1,130.05	1,045.34	988.84	56.50	18.502		
1,600.00	1,588.18	1,564.18	1,564.18	5.94	53.75	48.23	-254.25	1,130.05	1,035.58	975.32	60.26	17.185		
1,700.00	1,687.13	1,663.13	1,663.13	6.23	57.25	48.83	-254.25	1,130.05	1,025.94	961.91	64.03	16.023		
1,800.00	1,786.08	1,762.08	1,762.08	6.53	60.75	49.44	-254.25	1,130.05	1,016.42	948.61	67.81	14.989		
1,900.00	1,885.03	1,861.03	1,861.03	6.69	64.25	50.06	-254.25	1,130.05	1,007.01	935.76	71.25	14.133		
2,000.00	1,983.97	1,959.97	1,959.97	6.72	67.75	50.69	-254.25	1,130.05	997.73	922.94	74.79	13.341		
2,100.00	2,082.92	2,058.92	2,058.92	6.77	71.26	51.34	-254.25	1,130.05	988.57	910.23	78.34	12.619		
2,200.00	2,181.87	2,157.87	2,157.87	6.83	74.76	52.00	-254.25	1,130.05	979.53	897.63	81.90	11.960		
2,300.00	2,280.82	2,256.82	2,256.82	6.91	78.26	52.66	-254.25	1,130.05	970.63	885.15	85.48	11.355		
2,400.00	2,379.76	2,355.76	2,355.76	7.00	81.76	53.34	-254.25	1,130.05	961.86	872.79	89.07	10.799		
2,500.00	2,478.71	2,454.71	2,454.71	7.10	85.27	54.04	-254.25	1,130.05	953.24	860.56	92.68	10.286		
2,600.00	2,577.66	2,553.66	2,553.66	7.22	88.77	54.74	-254.25	1,130.05	944.75	848.46	96.30	9.811		
2,700.00	2,676.61	2,652.61	2,652.61	7.34	92.27	55.46	-254.25	1,130.05	936.41	836.49	99.93	9.371		
2,800.00	2,775.55	2,751.55	2,751.55	7.48	95.78	56.19	-254.25	1,130.05	928.23	824.66	103.57	8.962		
2,900.00	2,874.50	2,850.50	2,850.50	7.63	99.28	56.93	-254.25	1,130.05	920.19	812.97	107.22	8.582		
3,000.00	2,973.45	2,949.45	2,949.45	7.79	102.79	57.69	-254.25	1,130.05	912.32	801.43	110.89	8.227		
3,100.00	3,072.40	3,048.40	3,048.40	7.96	106.29	58.46	-254.25	1,130.05	904.61	790.05	114.56	7.896		
3,200.00	3,171.34	3,147.34	3,147.34	8.13	109.80	59.24	-254.25	1,130.05	897.07	778.82	118.25	7.586		
3,300.00	3,270.29	3,246.29	3,246.29	8.32	113.30	60.03	-254.25	1,130.05	889.69	767.75	121.94	7.296		
3,400.00	3,369.24	3,345.24	3,345.24	8.51	116.80	60.84	-254.25	1,130.05	882.50	756.86	125.64	7.024		
3,500.00	3,468.19	3,444.19	3,444.19	8.71	120.31	61.66	-254.25	1,130.05	875.48	746.13	129.35	6.768		
3,600.00	3,567.13	3,543.13	3,543.13	8.92	123.81	62.50	-254.25	1,130.05	868.65	735.58	133.07	6.528		
3,700.00	3,666.08	3,642.08	3,642.08	9.14	127.32	63.34	-254.25	1,130.05	862.01	725.22	136.79	6.302		
3,800.00	3,765.03	3,741.03	3,741.03	9.36	130.82	64.20	-254.25	1,130.05	855.56	715.04	140.52	6.088		
3,900.00	3,863.98	3,839.98	3,839.98	9.58	134.33	65.07	-254.25	1,130.05	849.30	705.05	144.26	5.887		
4,000.00	3,962.92	3,938.92	3,938.92	9.81	137.83	65.96	-254.25	1,130.05	843.25	695.26	148.00	5.698		
4,100.00	4,061.87	4,037.87	4,037.87	10.05	141.34	66.85	-254.25	1,130.05	837.41	685.67	151.74	5.519		
4,200.00	4,160.82	4,136.82	4,136.82	10.29	144.84	67.76	-254.25	1,130.05	831.78	676.28	155.50	5.349		
4,300.00	4,259.77	4,235.77	4,235.77	10.53	148.35	68.68	-254.25	1,130.05	826.36	667.11	159.25	5.189		
4,400.00	4,358.71	4,334.71	4,334.71	10.78	151.85	69.61	-254.25	1,130.05	821.16	658.15	163.01	5.037		
4,500.00	4,457.66	4,433.66	4,433.66	11.03	155.36	70.56	-254.25	1,130.05	816.18	649.41	166.78	4.894		
4,600.00	4,556.61	4,532.61	4,532.61	11.28	158.86	71.51	-254.25	1,130.05	811.44	640.89	170.54	4.758		
4,700.00	4,655.56	4,631.56	4,631.56	11.54	162.37	72.47	-254.25	1,130.05	806.92	632.61	174.31	4.629		
4,800.00	4,754.50	4,730.50	4,730.50	11.80	165.87	73.45	-254.25	1,130.05	802.64	624.55	178.09	4.507		
4,900.00	4,853.45	4,829.45	4,829.45	12.07	169.38	74.44	-254.25	1,130.05	798.60	616.73	181.87	4.391		
5,000.00	4,952.40	4,928.40	4,928.40	12.33	172.88	75.43	-254.25	1,130.05	794.80	609.15	185.65	4.281		
5,100.00	5,051.35	5,027.35	5,027.35	12.60	176.39	76.44	-254.25	1,130.05	791.25	601.82	189.43	4.177		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,150.29	5,126.29	5,126.29	12.87	179.90	77.45	-254.25	1,130.05	787.94	594.73	193.21	4.078	
5,300.00	5,249.24	5,225.24	5,225.24	13.14	183.40	78.47	-254.25	1,130.05	784.89	587.89	197.00	3.984	
5,400.00	5,348.19	5,324.19	5,324.19	13.42	186.91	79.50	-254.25	1,130.05	782.10	581.31	200.79	3.895	
5,500.00	5,447.14	5,423.14	5,423.14	13.69	190.41	80.53	-254.25	1,130.05	779.56	574.98	204.58	3.811	
5,600.00	5,546.08	5,522.08	5,522.08	13.97	193.92	81.57	-254.25	1,130.05	777.29	568.92	208.37	3.730	
5,700.00	5,645.03	5,621.03	5,621.03	14.25	197.42	82.62	-254.25	1,130.05	775.28	563.11	212.17	3.654	
5,800.00	5,743.98	5,719.98	5,719.98	14.53	200.93	83.67	-254.25	1,130.05	773.53	557.57	215.96	3.582	
5,900.00	5,842.93	5,818.93	5,818.93	14.82	204.43	84.73	-254.25	1,130.05	772.06	552.30	219.76	3.513	
6,000.00	5,941.87	5,917.87	5,917.87	15.10	207.94	85.79	-254.25	1,130.05	770.85	547.29	223.56	3.448	
6,100.00	6,040.82	6,016.82	6,016.82	15.39	211.44	86.85	-254.25	1,130.05	769.91	542.55	227.36	3.386	
6,200.00	6,139.77	6,115.77	6,115.77	15.67	214.95	87.92	-254.25	1,130.05	769.24	538.08	231.16	3.328	
6,300.00	6,238.72	6,214.72	6,214.72	15.96	218.46	88.98	-254.25	1,130.05	768.85	533.89	234.96	3.272	
6,395.42	6,333.13	6,309.13	6,309.13	16.24	221.80	90.00	-254.25	1,130.05	768.72	530.14	238.59	3.222 CC	
6,400.00	6,337.67	6,313.67	6,313.67	16.25	221.96	90.05	-254.25	1,130.05	768.72	529.96	238.76	3.220	
6,500.00	6,436.61	6,412.61	6,412.61	16.54	225.47	91.12	-254.25	1,130.05	768.87	526.31	242.56	3.170	
6,600.00	6,536.02	6,512.02	6,512.02	16.77	228.99	156.67	-254.25	1,130.05	771.81	525.49	246.32	3.133 ES	
6,700.00	6,635.32	6,611.32	6,611.32	16.92	232.51	-140.43	-254.25	1,130.05	781.88	531.89	249.99	3.128 SF	
6,800.00	6,732.10	6,708.10	6,708.10	17.02	235.94	-129.30	-254.25	1,130.05	799.14	545.63	253.51	3.152	
6,900.00	6,823.98	6,800.02	6,799.98	17.07	239.19	-125.38	-254.25	1,130.05	824.02	567.22	256.81	3.209	
7,000.00	6,908.69	6,884.69	6,884.69	17.10	242.19	-123.26	-254.25	1,130.05	857.21	597.41	259.80	3.299	
7,100.00	6,984.15	6,960.15	6,960.15	17.12	244.87	-121.37	-254.25	1,130.05	899.33	636.88	262.44	3.427	
7,200.00	7,048.50	7,024.50	7,024.50	17.17	247.15	-118.84	-254.25	1,130.05	950.63	685.95	264.68	3.592	
7,300.00	7,100.16	7,076.16	7,076.16	17.30	248.98	-114.97	-254.25	1,130.05	1,010.81	744.35	266.46	3.793	
7,400.00	7,137.85	7,113.85	7,113.85	17.53	250.31	-109.11	-254.25	1,130.05	1,078.94	811.19	267.75	4.030	
7,500.00	7,160.65	7,136.65	7,136.65	17.89	251.12	-100.69	-254.25	1,130.05	1,153.50	884.98	268.52	4.296	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
0.00	0.00	1.00	1.00	3.28	3.28	-118.55	-81.24	-149.33	170.00				
100.00	100.00	101.00	101.00	3.28	3.28	-118.55	-81.24	-149.33	170.00	162.47	7.53	22.580	
200.00	200.00	201.00	201.00	3.31	3.31	-118.55	-81.24	-149.33	170.00	162.43	7.57	22.445	CC, ES
300.00	299.98	300.84	299.16	3.35	3.34	-179.76	-81.96	-149.94	172.63	164.98	7.66	22.547	
400.00	399.84	401.04	398.95	3.42	3.40	-179.90	-82.83	-150.67	178.92	171.14	7.78	22.985	
500.00	499.45	501.53	498.45	3.51	3.48	179.97	-83.69	-151.39	188.69	180.73	7.96	23.712	
600.00	598.70	597.59	597.56	3.63	3.58	179.85	-84.55	-152.12	201.93	193.76	8.17	24.717	
700.00	697.66	703.62	696.35	3.78	3.70	179.76	-85.41	-152.84	217.40	208.97	8.43	25.793	
800.00	796.60	795.17	795.13	3.95	3.82	179.67	-86.27	-153.56	232.92	224.22	8.70	26.782	
900.00	895.55	906.04	893.91	4.15	3.99	179.60	-87.13	-154.28	248.44	239.41	9.02	27.531	
1,000.00	994.50	1,007.25	992.70	4.37	4.15	179.53	-87.99	-155.00	263.96	254.59	9.37	28.183	
1,100.00	1,093.45	1,108.47	1,091.48	4.60	4.33	179.48	-88.84	-155.72	279.48	269.74	9.73	28.715	
1,200.00	1,192.39	1,209.68	1,190.26	4.85	4.52	179.42	-89.70	-156.44	295.00	284.87	10.12	29.145	
1,300.00	1,291.34	1,289.11	1,289.04	5.10	4.67	179.38	-90.56	-157.16	310.52	300.03	10.49	29.610	
1,400.00	1,390.29	1,387.90	1,387.82	5.37	4.87	179.34	-91.42	-157.88	326.04	315.13	10.91	29.897	
1,500.00	1,489.24	1,486.69	1,486.60	5.65	5.07	179.30	-92.28	-158.60	341.56	330.22	11.34	30.124	
1,600.00	1,588.18	1,585.47	1,585.39	5.94	5.28	179.26	-93.14	-159.32	357.08	345.29	11.78	30.301	
1,700.00	1,687.13	1,684.26	1,684.17	6.23	5.50	179.23	-93.99	-160.04	372.60	360.35	12.24	30.436	
1,800.00	1,786.08	1,783.05	1,782.95	6.53	5.72	179.20	-94.85	-160.76	388.12	375.41	12.71	30.538	
1,900.00	1,885.03	1,881.84	1,881.73	6.69	5.95	179.17	-95.71	-161.48	403.64	390.95	12.69	31.815	
2,000.00	1,983.97	1,980.63	1,980.51	6.72	6.17	179.15	-96.57	-162.20	419.16	406.23	12.93	32.414	
2,100.00	2,082.92	2,079.41	2,079.29	6.77	6.41	179.12	-97.43	-162.92	434.68	421.49	13.19	32.946	
2,200.00	2,181.87	2,178.20	2,178.08	6.83	6.64	179.10	-98.29	-163.64	450.20	436.73	13.47	33.414	
2,300.00	2,280.82	2,276.99	2,276.86	6.91	6.88	179.08	-99.15	-164.36	465.72	451.95	13.77	33.821	
2,400.00	2,379.76	2,375.78	2,375.64	7.00	7.12	179.06	-100.00	-165.08	481.24	467.16	14.08	34.173	
2,500.00	2,478.71	2,474.57	2,474.42	7.10	7.37	179.05	-100.86	-165.80	496.76	482.35	14.41	34.473	
2,600.00	2,577.66	2,573.35	2,573.20	7.22	7.61	179.03	-101.72	-166.52	512.28	497.53	14.75	34.724	
2,700.00	2,676.61	2,672.14	2,671.98	7.34	7.86	179.01	-102.58	-167.24	527.81	512.70	15.11	34.932	
2,800.00	2,775.55	2,770.93	2,770.77	7.48	8.11	179.00	-103.44	-167.96	543.33	527.85	15.48	35.101	
2,900.00	2,874.50	2,869.72	2,869.55	7.63	8.36	178.98	-104.30	-168.68	558.85	542.99	15.86	35.234	
3,000.00	2,973.45	2,968.51	2,968.33	7.79	8.61	178.97	-105.16	-169.40	574.37	558.12	16.25	35.336	
3,100.00	3,072.40	3,067.29	3,067.11	7.96	8.86	178.96	-106.01	-170.12	589.89	573.23	16.66	35.409	
3,200.00	3,171.34	3,166.08	3,165.89	8.13	9.12	178.95	-106.87	-170.85	605.41	588.34	17.07	35.458	
3,300.00	3,270.29	3,264.87	3,264.67	8.32	9.37	178.94	-107.73	-171.57	620.93	603.44	17.50	35.485	
3,400.00	3,369.24	3,363.66	3,363.46	8.51	9.63	178.92	-108.59	-172.29	636.46	618.52	17.93	35.493	
3,500.00	3,468.19	3,462.45	3,462.24	8.71	9.89	178.91	-109.45	-173.01	651.98	633.60	18.37	35.484	
3,600.00	3,567.13	3,561.23	3,561.02	8.92	10.14	178.90	-110.31	-173.73	667.50	648.67	18.82	35.461	
3,700.00	3,666.08	3,660.02	3,659.80	9.14	10.40	178.89	-111.16	-174.45	683.02	663.74	19.28	35.426	
3,800.00	3,765.03	3,758.81	3,758.58	9.36	10.66	178.89	-112.02	-175.17	698.54	678.80	19.74	35.381	
3,900.00	3,863.98	3,857.60	3,857.36	9.58	10.92	178.88	-112.88	-175.89	714.06	693.85	20.21	35.327	
4,000.00	3,962.92	3,956.39	3,956.15	9.81	11.18	178.87	-113.74	-176.61	729.58	708.90	20.69	35.265	
4,100.00	4,061.87	4,055.17	4,054.93	10.05	11.44	178.86	-114.60	-177.33	745.11	723.94	21.17	35.198	
4,200.00	4,160.82	4,153.96	4,153.71	10.29	11.71	178.85	-115.46	-178.05	760.63	738.97	21.66	35.125	
4,300.00	4,259.77	4,252.75	4,252.49	10.53	11.97	178.85	-116.32	-178.77	776.15	754.00	22.15	35.047	
4,400.00	4,358.71	4,351.54	4,351.27	10.78	12.23	178.84	-117.17	-179.49	791.67	769.03	22.64	34.967	
4,500.00	4,457.66	4,450.33	4,450.05	11.03	12.49	178.83	-118.03	-180.21	807.19	784.05	23.14	34.884	
4,600.00	4,556.61	4,549.11	4,548.84	11.28	12.76	178.83	-118.89	-180.93	822.71	799.07	23.64	34.798	
4,700.00	4,655.56	4,647.90	4,647.62	11.54	13.02	178.82	-119.75	-181.65	838.23	814.09	24.15	34.711	
4,800.00	4,754.50	4,746.69	4,746.40	11.80	13.29	178.81	-120.61	-182.37	853.76	829.10	24.66	34.623	
4,900.00	4,853.45	4,845.48	4,845.18	12.07	13.55	178.81	-121.47	-183.09	869.28	844.11	25.17	34.535	
5,000.00	4,952.40	4,944.27	4,943.96	12.33	13.82	178.80	-122.33	-183.81	884.80	859.11	25.69	34.446	
5,100.00	5,051.35	5,043.05	5,042.74	12.60	14.08	178.80	-123.18	-184.53	900.32	874.12	26.21	34.356	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,141.84	5,141.53	12.87	14.35	178.79	-124.04	-185.25	915.84	889.12	26.73	34.268		
5,300.00	5,249.24	5,240.63	5,240.31	13.14	14.61	178.79	-124.90	-185.97	931.36	904.12	27.25	34.179		
5,400.00	5,348.19	5,339.42	5,339.09	13.42	14.88	178.78	-125.76	-186.69	946.89	919.11	27.78	34.091		
5,500.00	5,447.14	5,438.21	5,437.87	13.69	15.15	178.78	-126.62	-187.41	962.41	934.11	28.30	34.004		
5,600.00	5,546.08	5,536.99	5,536.65	13.97	15.41	178.77	-127.48	-188.13	977.93	949.10	28.83	33.917		
5,700.00	5,645.03	5,635.78	5,635.43	14.25	15.68	178.77	-128.33	-188.85	993.45	964.09	29.36	33.832		
5,800.00	5,743.98	5,734.57	5,734.22	14.53	15.95	178.76	-129.19	-189.57	1,008.97	979.08	29.90	33.748		
5,900.00	5,842.93	5,833.36	5,833.00	14.82	16.21	178.76	-130.05	-190.30	1,024.49	994.06	30.43	33.664		
6,000.00	5,941.87	5,932.15	5,931.78	15.10	16.48	178.76	-130.91	-191.02	1,040.02	1,009.05	30.97	33.582		
6,100.00	6,040.82	6,030.93	6,030.56	15.39	16.75	178.75	-131.77	-191.74	1,055.54	1,024.03	31.51	33.501		
6,200.00	6,139.77	6,129.72	6,129.34	15.67	17.02	178.75	-132.63	-192.46	1,071.06	1,039.01	32.05	33.421		
6,300.00	6,238.72	6,228.51	6,228.12	15.96	17.29	178.75	-133.49	-193.18	1,086.58	1,053.99	32.59	33.343		
6,400.00	6,337.67	6,327.30	6,326.91	16.25	17.55	178.74	-134.34	-193.90	1,102.10	1,068.97	33.13	33.266		
6,500.00	6,436.61	6,426.30	6,426.03	16.54	17.82	178.74	-135.19	-194.62	1,117.61	1,083.96	33.67	33.190		
6,600.00	6,535.56	6,525.25	6,525.02	16.83	18.09	178.73	-136.04	-195.34	1,133.12	1,098.95	34.21	33.114		
6,700.00	6,634.51	6,624.20	6,623.97	17.12	18.36	178.73	-136.89	-196.06	1,148.63	1,113.94	34.75	33.038		
6,800.00	6,733.46	6,723.15	6,722.92	17.41	18.63	178.72	-137.74	-196.78	1,164.14	1,128.93	35.29	32.962		
6,900.00	6,832.41	6,822.10	6,821.87	17.70	18.90	178.71	-138.59	-197.50	1,179.65	1,143.92	35.83	32.886		
7,000.00	6,931.36	6,921.05	6,920.82	17.99	19.17	178.70	-139.44	-198.22	1,195.16	1,158.91	36.37	32.810		
7,100.00	7,030.31	7,020.00	7,019.77	18.28	19.44	178.69	-140.29	-198.94	1,210.67	1,173.90	36.91	32.734		
7,200.00	7,129.26	7,118.95	7,118.72	18.57	19.71	178.68	-141.14	-199.66	1,226.18	1,188.89	37.45	32.658		
7,300.00	7,228.21	7,217.90	7,217.67	18.86	19.98	178.67	-141.99	-200.38	1,241.69	1,203.88	37.99	32.582		
7,400.00	7,327.16	7,316.85	7,316.62	19.15	20.25	178.66	-142.84	-201.10	1,257.20	1,218.87	38.53	32.506		
7,500.00	7,426.11	7,415.80	7,415.57	19.44	20.52	178.65	-143.69	-201.82	1,272.71	1,233.86	39.07	32.430		
7,600.00	7,525.06	7,514.75	7,514.52	19.73	20.79	178.64	-144.54	-202.54	1,288.22	1,248.85	39.61	32.354		
7,700.00	7,624.01	7,613.70	7,613.47	20.02	21.06	178.63	-145.39	-203.26	1,303.73	1,263.84	40.15	32.278		
7,800.00	7,722.96	7,712.65	7,712.42	20.31	21.33	178.62	-146.24	-203.98	1,319.24	1,278.83	40.69	32.202		
7,900.00	7,821.91	7,811.60	7,811.37	20.60	21.60	178.61	-147.09	-204.70	1,334.75	1,293.82	41.23	32.126		
8,000.00	7,920.86	7,910.55	7,910.32	20.89	21.87	178.60	-147.94	-205.42	1,350.26	1,308.81	41.77	32.050		
8,100.00	8,019.81	8,009.50	8,009.27	21.18	22.14	178.59	-148.79	-206.14	1,365.77	1,323.80	42.31	31.974		
8,200.00	8,118.76	8,108.45	8,108.22	21.47	22.41	178.58	-149.64	-206.86	1,381.28	1,338.79	42.85	31.898		
8,300.00	8,217.71	8,207.40	8,207.17	21.76	22.68	178.57	-150.49	-207.58	1,396.79	1,353.78	43.39	31.822		
8,400.00	8,316.66	8,306.35	8,306.12	22.05	22.95	178.56	-151.34	-208.30	1,412.30	1,368.77	43.93	31.746		
8,500.00	8,415.61	8,405.30	8,405.07	22.34	23.22	178.55	-152.19	-209.02	1,427.81	1,383.76	44.47	31.670		
8,600.00	8,514.56	8,504.25	8,504.02	22.63	23.49	178.54	-153.04	-209.74	1,443.32	1,398.75	45.01	31.594		
8,700.00	8,613.51	8,603.20	8,602.97	22.92	23.76	178.53	-153.89	-210.46	1,458.83	1,413.74	45.55	31.518		
8,800.00	8,712.46	8,702.15	8,701.92	23.21	24.03	178.52	-154.74	-211.18	1,474.34	1,428.73	46.09	31.442		
8,900.00	8,811.41	8,801.10	8,800.87	23.50	24.30	178.51	-155.59	-211.90	1,489.85	1,443.72	46.63	31.366		
9,000.00	8,910.36	8,900.05	8,899.82	23.79	24.57	178.50	-156.44	-212.62	1,505.36	1,458.71	47.17	31.290		
9,100.00	9,009.31	8,999.00	8,998.77	24.08	24.84	178.49	-157.29	-213.34	1,520.87	1,473.70	47.71	31.214		
9,200.00	9,108.26	9,097.95	9,097.72	24.37	25.11	178.48	-158.14	-214.06	1,536.38	1,488.69	48.25	31.138		
9,300.00	9,207.21	9,196.90	9,196.67	24.66	25.38	178.47	-158.99	-214.78	1,551.89	1,503.68	48.79	31.062		
9,400.00	9,306.16	9,295.85	9,295.62	24.95	25.65	178.46	-159.84	-215.50	1,567.40	1,518.67	49.33	30.986		
9,500.00	9,405.11	9,394.80	9,394.57	25.24	25.92	178.45	-160.69	-216.22	1,582.91	1,533.66	49.87	30.910		
9,600.00	9,504.06	9,493.75	9,493.52	25.53	26.19	178.44	-161.54	-216.94	1,598.42	1,548.65	50.41	30.834		
9,700.00	9,603.01	9,592.70	9,592.47	25.82	26.46	178.43	-162.39	-217.66	1,613.93	1,563.64	50.95	30.758		
9,800.00	9,701.96	9,691.65	9,691.42	26.11	26.73	178.42	-163.24	-218.38	1,629.44	1,578.63	51.49	30.682		
9,900.00	9,800.91	9,790.60	9,790.37	26.40	27.00	178.41	-164.09	-219.10	1,644.95	1,593.62	52.03	30.606		
10,000.00	9,899.86	9,889.55	9,889.32	26.69	27.27	178.40	-164.94	-219.82	1,660.46	1,608.61	52.57	30.530		
10,100.00	9,998.81	9,988.50	9,988.27	26.98	27.54	178.39	-165.79	-220.54	1,675.97	1,623.60	53.11	30.454		
10,200.00	10,097.76	10,087.45	10,087.22	27.27	27.81	178.38	-166.64	-221.26	1,691.48	1,638.59	53.65	30.378		
10,300.00	10,196.71	10,186.40	10,186.17	27.56	28.08	178.37	-167.49	-221.98	1,706.99	1,653.58	54.19	30.302		
10,400.00	10,295.66	10,285.35	10,285.12	27.85	28.35	178.36	-168.34	-222.70	1,722.50	1,668.57	54.73	30.226		
10,500.00	10,394.61	10,384.30	10,384.07	28.14	28.62	178.35	-169.19	-223.42	1,738.01	1,683.56	55.27	30.150		
10,600.00	10,493.56	10,483.25	10,483.02	28.43	28.89	178.34	-170.04	-224.14	1,753.52	1,698.55	55.81	30.074		
10,700.00	10,592.51	10,582.20	10,581.97	28.72	29.16	178.33	-170.89	-224.86	1,769.03	1,713.54	56.35	30.000		
10,800.00	10,691.46	10,681.15	10,680.92	29.01	29.43	178.32	-171.74	-225.58	1,784.54	1,728.53	56.89	29.924		
10,900.00	10,790.41	10,780.10	10,779.87	29.30	29.70	178.31	-172.59	-226.30	1,800.05	1,743.52	57.43	29.848		
11,000.00	10,889.36	10,879.05	10,878.82	29.59	29.97	178.30	-173.44	-227.02	1,815.56	1,758.51	57.97	29.772		
11,100.00	10,988.31	10,978.00	10,977.77	29.88	30.24	178.29	-174.29	-227.74	1,831.07	1,773.50	58.51	29.696		
11,200.00	11,087.26	11,076.95	11,076.72	30.17	30.51	178.28	-175.14	-228.46	1,846.58	1,788.49	59.05	29.620		
11,300.00	11,186.21	11,175.90	11,175.67	30.46	30.78	178.27	-175.99	-229.18	1,862.09	1,803.48	59.59	29.544		
11,400.00	11,285.16	11,274.85	11,274.62	30.75	31.05	178.26	-176.84	-229.90	1,877.60	1,818.47	60.13	29.468		
11,500.00	11,384.11	11,373.80	11,373.57	31.04	31.32	178.25	-177.69	-230.62	1,893.11	1,833.46	60.67	29.392		
11,600.00	11,483.06	11,472.75	11,472.52	31.33	31.59	178.24	-178.54	-231.34	1,908.62	1,848.45	61.21	29.316		
11,700.00	11,582.01	11,571.70	11,571.47	31.62	31.86	178.23	-179.39	-232.06	1,924.13	1,863.44	61.75	29.240		
11,800.00	11,680.96	11,670.65	11,670.42	31.91	32.13	178.22	-180.24	-232.78	1,939.64	1,878.43	62.29	29.164		
11,900.00	11,779.91	11,769.60	11,769.37	32.20	32.40	178.21	-181.09	-233.50	1,955.15	1,893.42.42				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-124.05	-100.91	-149.33	180.23					
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.33	180.23	172.70	7.53	23.938		
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.33	180.23	172.66	7.57	23.795	CC, ES	
300.00	299.98	300.90	299.10	3.35	3.34	174.89	-101.42	-150.04	182.85	175.19	7.66	23.879		
400.00	399.84	401.10	398.89	3.42	3.40	175.01	-102.02	-150.87	189.09	181.30	7.79	24.285		
500.00	499.45	501.58	498.41	3.51	3.49	175.20	-102.62	-151.70	198.79	190.83	7.96	24.974		
600.00	598.70	602.46	597.52	3.63	3.59	175.44	-103.22	-152.52	211.96	203.78	8.18	25.918		
700.00	697.66	703.66	696.32	3.78	3.71	175.72	-103.82	-153.35	227.36	218.93	8.43	26.960		
800.00	796.60	804.86	795.11	3.95	3.84	175.96	-104.42	-154.17	242.81	234.10	8.72	27.858		
900.00	895.55	906.07	893.90	4.15	3.99	176.17	-105.02	-154.99	258.27	249.23	9.03	28.599		
1,000.00	994.50	1,007.27	992.68	4.37	4.16	176.36	-105.61	-155.82	273.72	264.35	9.37	29.202		
1,100.00	1,093.45	1,108.48	1,091.47	4.60	4.34	176.53	-106.21	-156.64	289.18	279.44	9.74	29.688		
1,200.00	1,192.39	1,209.69	1,190.26	4.85	4.52	176.68	-106.81	-157.46	304.64	294.51	10.13	30.073		
1,300.00	1,291.34	1,289.11	1,289.05	5.10	4.68	176.82	-107.41	-158.28	320.11	309.61	10.50	30.498		
1,400.00	1,390.29	1,387.90	1,387.84	5.37	4.87	176.95	-108.01	-159.11	335.57	324.66	10.91	30.745		
1,500.00	1,489.24	1,486.70	1,486.63	5.65	5.08	177.06	-108.60	-159.93	351.04	339.69	11.35	30.934		
1,600.00	1,588.18	1,585.49	1,585.42	5.94	5.29	177.16	-109.20	-160.75	366.50	354.71	11.79	31.074		
1,700.00	1,687.13	1,684.29	1,684.21	6.23	5.50	177.26	-109.80	-161.58	381.97	369.72	12.25	31.176		
1,800.00	1,786.08	1,783.08	1,783.00	6.53	5.73	177.35	-110.40	-162.40	397.44	384.72	12.72	31.246		
1,900.00	1,885.03	1,881.88	1,881.79	6.69	5.86	177.43	-111.00	-163.22	412.91	400.31	12.60	32.758		
2,000.00	1,983.97	1,980.67	1,980.58	6.72	5.89	177.51	-111.59	-164.05	428.38	415.73	12.65	33.859		
2,100.00	2,082.92	2,079.46	2,079.37	6.77	5.91	177.58	-112.19	-164.87	443.86	431.15	12.71	34.934		
2,200.00	2,181.87	2,178.26	2,178.16	6.83	5.95	177.64	-112.79	-165.69	459.33	446.54	12.79	35.925		
2,300.00	2,280.82	2,277.05	2,276.94	6.91	6.00	177.70	-113.39	-166.52	474.80	461.91	12.89	36.830		
2,400.00	2,379.76	2,375.85	2,375.73	7.00	6.06	177.76	-113.99	-167.34	490.28	477.25	13.02	37.646		
2,500.00	2,478.71	2,474.64	2,474.52	7.10	6.13	177.82	-114.58	-168.16	505.75	492.57	13.18	38.373		
2,600.00	2,577.66	2,573.44	2,573.31	7.22	6.21	177.87	-115.18	-168.98	521.22	507.86	13.36	39.014		
2,700.00	2,676.61	2,672.23	2,672.10	7.34	6.30	177.91	-115.78	-169.81	536.70	523.14	13.56	39.572		
2,800.00	2,775.55	2,771.03	2,770.89	7.48	6.41	177.96	-116.38	-170.63	552.17	538.39	13.79	40.049		
2,900.00	2,874.50	2,869.82	2,869.68	7.63	6.52	178.00	-116.98	-171.45	567.65	553.62	14.03	40.452		
3,000.00	2,973.45	2,968.61	2,968.47	7.79	6.64	178.04	-117.57	-172.28	583.13	568.83	14.30	40.786		
3,100.00	3,072.40	3,067.41	3,067.26	7.96	6.77	178.08	-118.17	-173.10	598.60	584.02	14.58	41.055		
3,200.00	3,171.34	3,166.20	3,166.05	8.13	6.91	178.12	-118.77	-173.92	614.08	599.20	14.88	41.266		
3,300.00	3,270.29	3,265.00	3,264.84	8.32	7.06	178.15	-119.37	-174.75	629.55	614.36	15.20	41.424		
3,400.00	3,369.24	3,363.79	3,363.63	8.51	7.21	178.19	-119.96	-175.57	645.03	629.50	15.53	41.535		
3,500.00	3,468.19	3,462.59	3,462.41	8.71	7.38	178.22	-120.56	-176.39	660.51	644.63	15.88	41.603		
3,600.00	3,567.13	3,561.38	3,561.20	8.92	7.54	178.25	-121.16	-177.21	675.98	659.75	16.24	41.635		
3,700.00	3,666.08	3,660.18	3,659.99	9.14	7.72	178.28	-121.76	-178.04	691.46	674.85	16.61	41.634		
3,800.00	3,765.03	3,758.97	3,758.78	9.36	7.90	178.30	-122.36	-178.86	706.94	689.95	16.99	41.605		
3,900.00	3,863.98	3,857.76	3,857.57	9.58	8.08	178.33	-122.95	-179.68	722.42	705.03	17.39	41.552		
4,000.00	3,962.92	3,956.56	3,956.36	9.81	8.27	178.35	-123.55	-180.51	737.89	720.10	17.79	41.477		
4,100.00	4,061.87	4,055.35	4,055.15	10.05	8.47	178.38	-124.15	-181.33	753.37	735.17	18.20	41.384		
4,200.00	4,160.82	4,154.15	4,153.94	10.29	8.66	178.40	-124.75	-182.15	768.85	750.22	18.63	41.277		
4,300.00	4,259.77	4,252.94	4,252.73	10.53	8.87	178.42	-125.35	-182.98	784.33	765.27	19.06	41.156		
4,400.00	4,358.71	4,351.74	4,351.52	10.78	9.07	178.45	-125.94	-183.80	799.81	780.31	19.50	41.025		
4,500.00	4,457.66	4,450.53	4,450.31	11.03	9.28	178.47	-126.54	-184.62	815.29	795.34	19.94	40.885		
4,600.00	4,556.61	4,549.33	4,549.10	11.28	9.49	178.49	-127.14	-185.44	830.76	810.37	20.39	40.738		
4,700.00	4,655.56	4,648.12	4,647.88	11.54	9.71	178.51	-127.74	-186.27	846.24	825.39	20.85	40.585		
4,800.00	4,754.50	4,746.91	4,746.67	11.80	9.93	178.52	-128.34	-187.09	861.72	840.41	21.31	40.428		
4,900.00	4,853.45	4,845.71	4,845.46	12.07	10.15	178.54	-128.93	-187.91	877.20	855.42	21.78	40.268		
5,000.00	4,952.40	4,944.50	4,944.25	12.33	10.37	178.56	-129.53	-188.74	892.68	870.42	22.26	40.105		
5,100.00	5,051.35	5,043.30	5,043.04	12.60	10.60	178.57	-130.13	-189.56	908.16	885.42	22.74	39.941		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,142.09	5,141.83	12.87	10.83	178.59	-130.73	-190.38	923.64	900.42	23.22	39.777		
5,300.00	5,249.24	5,240.89	5,240.62	13.14	11.06	178.61	-131.33	-191.21	939.12	915.41	23.71	39.612		
5,400.00	5,348.19	5,339.68	5,339.41	13.42	11.29	178.62	-131.92	-192.03	954.59	930.39	24.20	39.447		
5,500.00	5,447.14	5,438.48	5,438.20	13.69	11.52	178.64	-132.52	-192.85	970.07	945.38	24.69	39.283		
5,600.00	5,546.08	5,537.27	5,536.99	13.97	11.76	178.65	-133.12	-193.68	985.55	960.36	25.19	39.120		
5,700.00	5,645.03	5,636.06	5,635.78	14.25	11.99	178.66	-133.72	-194.50	1,001.03	975.34	25.69	38.958		
5,800.00	5,743.98	5,734.86	5,734.57	14.53	12.23	178.68	-134.32	-195.32	1,016.51	990.31	26.20	38.799		
5,900.00	5,842.93	5,833.65	5,833.36	14.82	12.47	178.69	-134.91	-196.14	1,031.99	1,005.28	26.71	38.641		
6,000.00	5,941.87	5,932.45	5,932.14	15.10	12.71	178.70	-135.51	-196.97	1,047.47	1,020.25	27.22	38.485		
6,100.00	6,040.82	6,031.24	6,030.93	15.39	12.96	178.71	-136.11	-197.79	1,062.95	1,035.22	27.73	38.331		
6,200.00	6,139.77	7,708.51	7,038.84	15.67	20.84	129.82	-158.70	724.31	1,060.40	1,029.95	30.45	34.825		
6,300.00	6,238.72	7,703.98	7,038.83	15.96	20.79	128.72	-158.92	736.79	982.19	950.94	31.25	31.429		
6,400.00	6,337.67	7,716.46	7,038.83	16.25	20.93	127.61	-159.14	749.27	908.09	875.79	32.30	28.114		
6,500.00	6,436.61	7,728.95	7,038.82	16.54	21.08	126.50	-159.36	761.76	839.20	805.71	33.49	25.060		
6,600.00	6,536.02	7,735.93	7,038.82	16.77	21.16	-175.49	-159.48	768.74	776.56	741.84	34.72	22.368		
6,700.00	6,635.32	7,727.45	7,038.82	16.92	21.06	-118.18	-159.33	760.26	722.14	686.32	35.81	20.164		
6,800.00	6,732.10	7,703.50	7,038.83	17.02	20.78	-109.40	-158.91	736.32	678.79	642.14	36.65	18.522		
6,900.00	6,823.98	7,664.68	7,038.86	17.07	20.35	-105.12	-158.22	697.50	648.23	611.13	37.10	17.471		
7,000.00	6,908.69	7,611.94	7,038.89	17.10	19.76	-100.73	-157.29	644.77	630.47	593.38	37.09	16.998 SF		
7,100.00	6,984.15	7,546.58	7,038.92	17.12	19.08	-95.69	-156.13	579.42	623.72	587.03	36.69	17.002		
7,130.31	7,004.91	7,524.51	7,038.94	17.13	18.86	-94.08	-155.74	557.35	623.39	586.88	36.50	17.077		
7,200.00	7,048.50	7,470.21	7,038.97	17.17	18.33	-90.37	-154.78	503.06	624.82	588.81	36.02	17.349		
7,300.00	7,100.16	7,386.25	7,038.79	17.30	17.57	-85.48	-153.29	419.12	630.12	594.83	35.29	17.858		
7,400.00	7,137.85	7,307.42	7,031.88	17.53	16.93	-81.31	-151.86	340.66	637.40	602.68	34.72	18.360		
7,500.00	7,160.65	7,231.86	7,016.21	17.89	16.38	-77.58	-150.45	266.79	645.92	611.60	34.32	18.822		
7,600.00	7,168.01	7,158.85	6,992.86	18.37	15.92	-74.34	-149.08	197.67	654.87	620.78	34.09	19.209		
7,700.00	7,168.19	7,090.50	6,963.97	18.96	15.55	-71.88	-147.81	135.79	666.68	632.64	34.04	19.583		
7,800.00	7,168.36	7,029.19	6,932.53	19.68	15.28	-69.29	-146.68	83.19	684.57	650.45	34.13	20.059		
7,900.00	7,168.54	6,974.85	6,900.55	20.51	15.08	-66.74	-145.70	39.29	709.36	675.06	34.30	20.678		
8,000.00	7,168.72	6,927.02	6,869.40	21.44	14.94	-64.34	-144.87	3.02	741.46	706.92	34.54	21.469		
8,100.00	7,168.90	6,885.05	6,839.87	22.45	14.84	-62.15	-144.16	-26.80	780.86	746.07	34.79	22.446		
8,200.00	7,169.08	6,850.00	6,813.77	23.53	14.77	-60.28	-143.58	-50.17	827.24	792.20	35.04	23.607		
8,300.00	7,169.26	6,815.85	6,787.12	24.68	14.70	-58.44	-143.04	-71.52	880.03	844.77	35.27	24.952		
8,400.00	7,169.44	6,787.32	6,764.01	25.88	14.64	-56.90	-142.60	-88.24	938.58	903.10	35.47	26.459		
8,500.00	7,169.62	6,762.08	6,742.96	27.14	14.59	-55.55	-142.22	-102.16	1,002.17	966.52	35.65	28.112		
8,600.00	7,169.80	6,750.00	6,732.70	28.43	14.56	-54.90	-142.04	-108.52	1,070.27	1,034.46	35.80	29.894		
8,700.00	7,169.98	6,719.65	6,706.39	29.77	14.50	-53.29	-141.61	-123.64	1,141.91	1,105.99	35.92	31.788		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-112.25	-61.20	-149.61	161.65				
100.00	100.00	101.00	101.00	3.28	3.28	-112.25	-61.20	-149.61	161.65	154.12	7.53	21.470	
200.00	200.00	201.00	201.00	3.31	3.31	-112.25	-61.20	-149.61	161.65	154.07	7.57	21.342	
200.06	200.06	201.06	201.06	3.31	3.31	-112.25	-61.20	-149.61	161.65	154.07	7.57	21.342 CC, ES	
300.00	299.98	301.20	301.18	3.35	3.35	-172.83	-59.62	-150.16	163.29	155.63	7.66	21.308	
400.00	399.84	401.05	401.00	3.42	3.42	-172.15	-57.15	-151.01	168.37	160.57	7.80	21.592	
500.00	499.45	500.67	500.58	3.51	3.51	-171.66	-54.69	-151.86	176.92	168.94	7.98	22.179	
600.00	598.70	600.06	599.82	3.63	3.61	-171.37	-52.23	-152.70	188.90	180.71	8.20	23.043	
700.00	697.66	701.08	698.77	3.78	3.74	-171.24	-49.78	-153.55	203.11	194.65	8.46	24.016	
800.00	796.60	802.10	797.71	3.95	3.88	-171.13	-47.33	-154.39	217.36	208.61	8.74	24.857	
900.00	895.55	903.12	896.66	4.15	4.03	-171.03	-44.88	-155.23	231.61	222.55	9.06	25.555	
1,000.00	994.50	1,004.14	995.60	4.37	4.20	-170.95	-42.43	-156.08	245.86	236.45	9.41	26.129	
1,100.00	1,093.45	1,105.16	1,094.55	4.60	4.38	-170.87	-39.98	-156.92	260.11	250.33	9.78	26.596	
1,200.00	1,192.39	1,206.18	1,193.49	4.85	4.57	-170.81	-37.53	-157.76	274.36	264.19	10.17	26.971	
1,300.00	1,291.34	1,307.20	1,292.44	5.10	4.77	-170.75	-35.08	-158.61	288.62	278.03	10.58	27.270	
1,400.00	1,390.29	1,408.23	1,391.38	5.37	4.98	-170.69	-32.63	-159.45	302.87	291.86	11.01	27.505	
1,500.00	1,489.24	1,509.25	1,490.33	5.65	5.19	-170.64	-30.18	-160.29	317.12	305.67	11.45	27.687	
1,600.00	1,588.18	1,589.73	1,589.27	5.94	5.36	-170.60	-27.73	-161.14	331.37	319.51	11.86	27.931	
1,700.00	1,687.13	1,688.71	1,688.22	6.23	5.58	-170.55	-25.28	-161.98	345.63	333.30	12.32	28.043	
1,800.00	1,786.08	1,787.69	1,787.16	6.53	5.81	-170.51	-22.83	-162.82	359.88	347.08	12.80	28.126	
1,900.00	1,885.03	1,886.67	1,886.11	6.69	5.94	-170.48	-20.38	-163.67	374.13	361.46	12.68	29.513	
2,000.00	1,983.97	1,985.65	1,985.05	6.72	5.96	-170.45	-17.93	-164.51	388.39	375.67	12.72	30.533	
2,100.00	2,082.92	2,084.63	2,084.00	6.77	5.99	-170.42	-15.48	-165.35	402.64	389.86	12.78	31.518	
2,200.00	2,181.87	2,183.60	2,182.94	6.83	6.02	-170.39	-13.03	-166.20	416.89	404.04	12.86	32.427	
2,300.00	2,280.82	2,282.58	2,281.89	6.91	6.07	-170.36	-10.58	-167.04	431.15	418.18	12.96	33.259	
2,400.00	2,379.76	2,381.56	2,380.83	7.00	6.13	-170.33	-8.13	-167.89	445.40	432.30	13.10	34.012	
2,500.00	2,478.71	2,480.54	2,479.78	7.10	6.20	-170.31	-5.68	-168.73	459.65	446.40	13.25	34.686	
2,600.00	2,577.66	2,579.52	2,578.72	7.22	6.28	-170.29	-3.23	-169.57	473.91	460.48	13.43	35.282	
2,700.00	2,676.61	2,678.50	2,677.67	7.34	6.38	-170.27	-0.78	-170.42	488.16	474.53	13.63	35.803	
2,800.00	2,775.55	2,777.48	2,776.61	7.48	6.48	-170.25	1.67	-171.26	502.42	488.56	13.86	36.252	
2,900.00	2,874.50	2,876.46	2,875.56	7.63	6.59	-170.23	4.12	-172.10	516.67	502.57	14.10	36.634	
3,000.00	2,973.45	2,975.43	2,974.50	7.79	6.72	-170.21	6.57	-172.95	530.92	516.56	14.37	36.953	
3,100.00	3,072.40	3,074.41	3,073.45	7.96	6.85	-170.20	9.01	-173.79	545.18	530.53	14.65	37.213	
3,200.00	3,171.34	3,173.39	3,172.39	8.13	6.99	-170.18	11.46	-174.63	559.43	544.48	14.95	37.421	
3,300.00	3,270.29	3,272.37	3,271.34	8.32	7.13	-170.17	13.91	-175.48	573.69	558.42	15.27	37.581	
3,400.00	3,369.24	3,371.35	3,370.28	8.51	7.29	-170.15	16.36	-176.32	587.94	572.35	15.60	37.698	
3,500.00	3,468.19	3,470.33	3,469.22	8.71	7.45	-170.14	18.81	-177.16	602.20	586.25	15.94	37.776	
3,600.00	3,567.13	3,569.31	3,568.17	8.92	7.62	-170.12	21.26	-178.01	616.45	600.15	16.30	37.820	
3,700.00	3,666.08	3,668.29	3,667.11	9.14	7.79	-170.11	23.71	-178.85	630.70	614.03	16.67	37.835	
3,800.00	3,765.03	3,767.26	3,766.06	9.36	7.97	-170.10	26.16	-179.69	644.96	627.91	17.05	37.823	
3,900.00	3,863.98	3,866.24	3,865.00	9.58	8.15	-170.09	28.61	-180.54	659.21	641.77	17.44	37.788	
4,000.00	3,962.92	3,965.22	3,963.95	9.81	8.34	-170.08	31.06	-181.38	673.47	655.62	17.85	37.734	
4,100.00	4,061.87	4,064.20	4,062.89	10.05	8.54	-170.07	33.51	-182.23	687.72	669.46	18.26	37.663	
4,200.00	4,160.82	4,163.18	4,161.84	10.29	8.73	-170.06	35.96	-183.07	701.98	683.30	18.68	37.577	
4,300.00	4,259.77	4,262.16	4,260.78	10.53	8.93	-170.05	38.41	-183.91	716.23	697.12	19.11	37.480	
4,400.00	4,358.71	4,361.14	4,359.73	10.78	9.14	-170.04	40.86	-184.76	730.49	710.94	19.55	37.372	
4,500.00	4,457.66	4,460.12	4,458.67	11.03	9.35	-170.03	43.31	-185.60	744.74	724.75	19.99	37.255	
4,600.00	4,556.61	4,559.09	4,557.62	11.28	9.56	-170.02	45.76	-186.44	759.00	738.56	20.44	37.132	
4,700.00	4,655.56	4,658.07	4,656.56	11.54	9.78	-170.01	48.21	-187.29	773.25	752.35	20.90	37.003	
4,800.00	4,754.50	4,757.05	4,755.51	11.80	10.00	-170.01	50.66	-188.13	787.50	766.15	21.36	36.870	
4,900.00	4,853.45	4,856.03	4,854.45	12.07	10.22	-170.00	53.11	-188.97	801.76	779.93	21.83	36.733	
5,000.00	4,952.40	4,955.01	4,953.40	12.33	10.44	-169.99	55.56	-189.82	816.01	793.72	22.30	36.594	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,051.35	5,053.99	5,052.34	12.60	10.67	-169.98	58.01	-190.66	830.27	807.49	22.78	36.453		
5,200.00	5,150.29	5,152.97	5,151.29	12.87	10.89	-169.98	60.46	-191.50	844.52	821.27	23.26	36.311		
5,300.00	5,249.24	5,251.95	5,250.23	13.14	11.12	-169.97	62.91	-192.35	858.78	835.03	23.74	36.169		
5,400.00	5,348.19	5,350.92	5,349.18	13.42	11.36	-169.96	65.36	-193.19	873.03	848.80	24.23	36.026		
5,500.00	5,447.14	5,449.90	5,448.12	13.69	11.59	-169.96	67.81	-194.03	887.29	862.56	24.73	35.884		
5,600.00	5,546.08	5,548.88	5,547.07	13.97	11.82	-169.95	70.26	-194.88	901.54	876.32	25.22	35.742		
5,700.00	5,645.03	5,647.86	5,646.01	14.25	12.06	-169.95	72.71	-195.72	915.80	890.07	25.72	35.601		
5,800.00	5,743.98	5,746.84	5,744.96	14.53	12.30	-169.94	75.16	-196.57	930.05	903.82	26.23	35.462		
5,900.00	5,842.93	5,845.82	5,843.90	14.82	12.54	-169.93	77.61	-197.41	944.31	917.57	26.73	35.324		
6,000.00	5,941.87	5,944.80	5,942.85	15.10	12.78	-169.93	80.06	-198.25	958.56	931.32	27.24	35.187		
6,100.00	6,040.82	6,043.78	6,041.79	15.39	13.02	-169.92	82.51	-199.10	972.82	945.06	27.75	35.053		
6,200.00	6,139.77	6,142.75	6,140.74	15.67	13.27	-169.92	84.96	-199.94	987.07	958.80	28.27	34.920		
6,300.00	6,238.72	7,853.04	7,173.43	15.96	21.52	136.38	106.01	746.69	982.59	953.25	29.34	33.491		
6,400.00	6,337.67	7,865.49	7,173.41	16.25	21.66	134.62	105.95	759.14	891.53	861.53	30.00	29.716		
6,500.00	6,436.61	7,877.94	7,173.39	16.54	21.80	132.83	105.89	771.60	802.41	771.63	30.79	26.065		
6,600.00	6,536.02	7,884.90	7,173.37	16.77	21.88	-176.61	105.86	778.55	715.56	683.88	31.69	22.583		
6,700.00	6,635.32	7,876.38	7,173.39	16.92	21.78	-126.26	105.90	770.04	632.58	599.93	32.66	19.369		
6,800.00	6,732.10	7,852.40	7,173.43	17.02	21.51	-122.02	106.01	746.05	556.95	523.25	33.70	16.526		
6,900.00	6,823.98	7,813.54	7,173.50	17.07	21.08	-120.49	106.20	707.20	492.11	457.36	34.75	14.160		
7,000.00	6,908.69	7,760.76	7,173.60	17.10	20.52	-117.57	106.45	654.42	440.96	405.27	35.68	12.357		
7,100.00	6,984.15	7,704.63	7,173.72	17.12	19.94	-112.94	106.76	589.03	404.99	368.62	36.37	11.136		
7,200.00	7,048.50	7,618.97	7,173.86	17.17	19.12	-107.08	107.13	512.62	383.46	347.01	36.45	10.520		
7,300.00	7,100.16	7,532.61	7,173.96	17.30	18.36	-100.84	107.54	426.26	373.30	337.08	36.22	10.307 SF		
7,400.00	7,137.85	7,437.51	7,165.81	17.53	17.62	-94.19	107.78	331.61	369.72	333.93	35.79	10.331		
7,422.77	7,144.38	7,416.77	7,162.17	17.61	17.46	-92.70	107.79	311.19	369.59	333.90	35.70	10.353		
7,500.00	7,160.65	7,348.55	7,145.52	17.89	16.99	-87.79	107.69	245.07	370.98	335.61	35.37	10.488		
7,600.00	7,168.01	7,264.42	7,115.41	18.37	16.48	-81.80	107.32	166.58	376.47	341.43	35.03	10.746		
7,700.00	7,168.19	7,187.57	7,079.08	18.96	16.08	-76.41	106.74	98.91	387.74	352.95	34.79	11.146		
7,800.00	7,168.36	7,120.68	7,041.03	19.68	15.79	-71.04	106.06	43.94	408.32	373.72	34.60	11.800		
7,900.00	7,168.54	7,063.14	7,003.84	20.51	15.57	-66.13	105.35	0.07	439.62	405.15	34.47	12.753		
8,000.00	7,168.72	7,013.89	6,968.96	21.44	15.40	-61.86	104.65	-34.69	481.66	447.27	34.40	14.004		
8,100.00	7,168.90	6,971.72	6,937.05	22.45	15.27	-58.24	103.99	-62.22	533.42	499.06	34.36	15.523		
8,200.00	7,169.08	6,935.52	6,908.24	23.53	15.17	-55.21	103.38	-84.14	593.44	559.08	34.36	17.270		
8,300.00	7,169.26	6,900.00	6,878.82	24.68	15.07	-52.35	102.75	-104.01	660.24	625.87	34.37	19.209		
8,400.00	7,169.44	6,877.19	6,859.35	25.88	15.01	-50.57	102.32	-115.90	732.42	698.02	34.40	21.290		
8,500.00	7,169.62	6,850.00	6,835.62	27.14	14.94	-48.52	101.80	-129.14	808.99	774.56	34.43	23.497		
8,600.00	7,169.80	6,832.77	6,820.29	28.43	14.90	-47.27	101.46	-137.00	889.02	854.56	34.46	25.801		
8,700.00	7,169.98	6,814.43	6,803.75	29.77	14.86	-45.97	101.09	-144.92	971.87	937.38	34.48	28.184		
8,800.00	7,170.16	6,800.00	6,790.58	31.13	14.82	-44.98	100.79	-150.80	1,057.01	1,022.50	34.50	30.634		
8,900.00	7,170.34	6,783.58	6,775.44	32.53	14.79	-43.88	100.45	-157.14	1,144.02	1,109.48	34.53	33.129		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-129.06	-120.95	-149.06	191.95				
100.00	100.00	101.00	101.00	3.28	3.28	-129.06	-120.95	-149.06	191.95	184.43	7.53	25.495	
200.00	200.00	201.00	201.00	3.31	3.31	-129.06	-120.95	-149.06	191.95	184.38	7.57	25.343	CC, ES
300.00	299.98	295.91	295.89	3.35	3.34	169.62	-122.52	-149.39	194.99	187.33	7.66	25.470	
400.00	399.84	405.05	394.86	3.42	3.41	169.20	-126.13	-150.16	203.04	195.26	7.79	26.074	
500.00	499.45	505.72	494.12	3.51	3.48	168.97	-129.78	-150.93	214.53	206.57	7.96	26.949	
600.00	598.70	606.84	592.93	3.63	3.59	168.92	-133.40	-151.70	229.42	221.24	8.18	28.048	
700.00	697.66	708.31	691.39	3.78	3.71	169.02	-137.02	-152.47	246.50	238.06	8.44	29.220	
800.00	796.60	809.79	789.85	3.95	3.85	169.11	-140.64	-153.24	263.62	254.90	8.72	30.230	
900.00	895.55	888.73	888.30	4.15	3.97	169.19	-144.25	-154.01	280.74	271.74	9.00	31.184	
1,000.00	994.50	987.26	986.75	4.37	4.13	169.27	-147.87	-154.78	297.87	288.53	9.34	31.887	
1,100.00	1,093.45	1,085.78	1,085.21	4.60	4.30	169.33	-151.48	-155.55	314.99	305.29	9.70	32.457	
1,200.00	1,192.39	1,184.30	1,183.66	4.85	4.49	169.39	-155.10	-156.31	332.11	322.02	10.09	32.914	
1,300.00	1,291.34	1,282.82	1,282.11	5.10	4.68	169.44	-158.71	-157.08	349.24	338.74	10.50	33.275	
1,400.00	1,390.29	1,381.35	1,380.57	5.37	4.88	169.49	-162.33	-157.85	366.36	355.44	10.92	33.557	
1,500.00	1,489.24	1,479.87	1,479.02	5.65	5.09	169.54	-165.94	-158.62	383.49	372.13	11.35	33.773	
1,600.00	1,588.18	1,578.39	1,577.47	5.94	5.31	169.58	-169.56	-159.39	400.61	388.81	11.81	33.935	
1,700.00	1,687.13	1,676.91	1,675.92	6.23	5.53	169.61	-173.17	-160.16	417.74	405.47	12.27	34.053	
1,800.00	1,786.08	1,775.44	1,774.38	6.53	5.76	169.65	-176.79	-160.93	434.86	422.12	12.74	34.135	
1,900.00	1,885.03	1,873.96	1,872.83	6.69	5.90	169.68	-180.40	-161.69	451.99	439.35	12.64	35.766	
2,000.00	1,983.97	1,972.48	1,971.28	6.72	5.94	169.71	-184.02	-162.46	469.11	456.42	12.70	36.952	
2,100.00	2,082.92	2,071.00	2,069.74	6.77	5.97	169.73	-187.64	-163.23	486.24	473.49	12.75	38.138	
2,200.00	2,181.87	2,169.53	2,168.19	6.83	6.00	169.76	-191.25	-164.00	503.36	490.53	12.83	39.231	
2,300.00	2,280.82	2,268.05	2,266.64	6.91	6.05	169.78	-194.87	-164.77	520.49	507.55	12.94	40.228	
2,400.00	2,379.76	2,366.57	2,365.10	7.00	6.11	169.80	-198.48	-165.54	537.61	524.54	13.07	41.128	
2,500.00	2,478.71	2,465.09	2,463.55	7.10	6.19	169.82	-202.10	-166.31	554.74	541.51	13.23	41.930	
2,600.00	2,577.66	2,563.62	2,562.00	7.22	6.27	169.84	-205.71	-167.07	571.87	558.45	13.41	42.637	
2,700.00	2,676.61	2,662.14	2,660.46	7.34	6.37	169.86	-209.33	-167.84	588.99	575.37	13.62	43.252	
2,800.00	2,775.55	2,760.66	2,758.91	7.48	6.47	169.88	-212.94	-168.61	606.12	592.27	13.84	43.780	
2,900.00	2,874.50	2,859.18	2,857.36	7.63	6.59	169.90	-216.56	-169.38	623.24	609.15	14.09	44.225	
3,000.00	2,973.45	2,957.71	2,955.81	7.79	6.72	169.91	-220.17	-170.15	640.37	626.01	14.36	44.593	
3,100.00	3,072.40	3,056.23	3,054.27	7.96	6.85	169.93	-223.79	-170.92	657.50	642.85	14.65	44.891	
3,200.00	3,171.34	3,154.75	3,152.72	8.13	6.99	169.94	-227.40	-171.68	674.62	659.67	14.95	45.124	
3,300.00	3,270.29	3,253.27	3,251.17	8.32	7.14	169.95	-231.02	-172.45	691.75	676.48	15.27	45.300	
3,400.00	3,369.24	3,351.80	3,349.63	8.51	7.30	169.96	-234.64	-173.22	708.87	693.27	15.61	45.424	
3,500.00	3,468.19	3,450.32	3,448.08	8.71	7.47	169.98	-238.25	-173.99	726.00	710.04	15.96	45.502	
3,600.00	3,567.13	3,548.84	3,546.53	8.92	7.64	169.99	-241.87	-174.76	743.13	726.81	16.32	45.539	
3,700.00	3,666.08	3,647.36	3,644.99	9.14	7.82	170.00	-245.48	-175.53	760.25	743.56	16.69	45.540	
3,800.00	3,765.03	3,745.89	3,743.44	9.36	8.00	170.01	-249.10	-176.30	777.38	760.30	17.08	45.510	
3,900.00	3,863.98	3,844.41	3,841.89	9.58	8.19	170.02	-252.71	-177.06	794.51	777.03	17.48	45.453	
4,000.00	3,962.92	3,942.93	3,940.35	9.81	8.38	170.03	-256.33	-177.83	811.63	793.74	17.89	45.373	
4,100.00	4,061.87	4,041.45	4,038.80	10.05	8.58	170.04	-259.94	-178.60	828.76	810.45	18.31	45.273	
4,200.00	4,160.82	4,139.98	4,137.25	10.29	8.78	170.05	-263.56	-179.37	845.88	827.15	18.73	45.157	
4,300.00	4,259.77	4,238.50	4,235.71	10.53	8.99	170.05	-267.17	-180.14	863.01	843.84	19.17	45.027	
4,400.00	4,358.71	4,337.02	4,334.16	10.78	9.20	170.06	-270.79	-180.91	880.14	860.53	19.61	44.885	
4,500.00	4,457.66	4,435.54	4,432.61	11.03	9.41	170.07	-274.40	-181.68	897.26	877.21	20.06	44.733	
4,600.00	4,556.61	4,534.06	4,531.06	11.28	9.63	170.08	-278.02	-182.44	914.39	893.88	20.51	44.574	
4,700.00	4,655.56	4,632.59	4,629.52	11.54	9.85	170.09	-281.64	-183.21	931.52	910.54	20.98	44.408	
4,800.00	4,754.50	4,731.11	4,727.97	11.80	10.07	170.09	-285.25	-183.98	948.64	927.20	21.44	44.238	
4,900.00	4,853.45	4,829.63	4,826.42	12.07	10.30	170.10	-288.87	-184.75	965.77	943.85	21.92	44.064	
5,000.00	4,952.40	4,928.15	4,924.88	12.33	10.53	170.11	-292.48	-185.52	982.90	960.50	22.40	43.887	
5,100.00	5,051.35	5,026.68	5,023.33	12.60	10.76	170.11	-296.10	-186.29	1,000.02	977.14	22.88	43.709	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program:											0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft
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			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)				
5,200.00	5,150.29	5,125.20	5,121.78	12.87	10.99	170.12	-299.71	-187.05	1,017.15	993.78	23.37	43.530			
5,300.00	5,249.24	5,223.72	5,220.24	13.14	11.23	170.12	-303.33	-187.82	1,034.28	1,010.42	23.86	43.351			
5,400.00	5,348.19	5,322.24	5,318.69	13.42	11.46	170.13	-306.94	-188.59	1,051.40	1,027.05	24.35	43.171			
5,500.00	5,447.14	5,420.77	5,417.14	13.69	11.70	170.13	-310.56	-189.36	1,068.53	1,043.67	24.85	42.993			
5,600.00	5,546.08	5,519.29	5,515.60	13.97	11.94	170.14	-314.17	-190.13	1,085.65	1,060.30	25.36	42.816			
5,700.00	5,645.03	5,617.81	5,614.05	14.25	12.18	170.15	-317.79	-190.90	1,102.78	1,076.92	25.86	42.641			
5,800.00	5,743.98	5,716.33	5,712.50	14.53	12.43	170.15	-321.40	-191.67	1,119.91	1,093.54	26.37	42.467			
5,900.00	5,842.93	5,814.86	5,810.95	14.82	12.67	170.15	-325.02	-192.43	1,137.03	1,110.15	26.88	42.295			
6,000.00	5,941.87	5,913.38	5,909.41	15.10	12.92	170.16	-328.64	-193.20	1,154.16	1,126.76	27.40	42.125			
6,100.00	6,040.82	6,011.90	6,007.86	15.39	13.16	170.16	-332.25	-193.97	1,171.29	1,143.37	27.92	41.958			
6,200.00	6,139.77	6,110.42	6,106.31	15.67	13.41	170.17	-335.87	-194.74	1,188.41	1,159.98	28.44	41.793			
6,600.00	6,536.02	8,067.45	7,361.82	16.77	21.86	-176.14	-388.47	773.97	1,164.16	1,129.87	34.29	33.952			
6,700.00	6,635.32	8,059.04	7,361.82	16.92	21.77	-120.47	-388.41	765.57	1,101.31	1,066.24	35.06	31.408			
6,800.00	6,732.10	8,035.17	7,361.83	17.02	21.50	-113.99	-388.26	741.70	1,045.49	1,009.81	35.68	29.300			
6,900.00	6,823.98	7,996.42	7,361.86	17.07	21.07	-112.54	-388.00	702.94	998.29	962.20	36.09	27.661			
7,000.00	6,908.69	7,943.74	7,361.89	17.10	20.52	-111.42	-387.65	650.27	960.48	924.20	36.29	26.470			
7,100.00	6,984.15	7,878.43	7,361.92	17.12	19.86	-109.87	-387.22	584.96	931.96	895.70	36.25	25.706			
7,200.00	7,048.50	7,802.10	7,361.96	17.17	19.13	-107.94	-386.71	508.63	911.80	875.74	36.05	25.289			
7,300.00	7,100.16	7,704.69	7,361.49	17.30	18.29	-105.55	-386.05	411.23	898.43	862.73	35.70	25.164			
7,400.00	7,137.85	7,557.43	7,338.68	17.53	17.23	-101.50	-384.25	266.09	886.40	851.23	35.18	25.198			
7,500.00	7,160.65	7,433.56	7,294.11	17.89	16.55	-97.88	-381.84	150.76	874.71	839.70	35.01	24.986			
7,600.00	7,168.01	7,326.43	7,238.18	18.37	16.22	-94.60	-379.18	59.56	864.61	829.54	35.07	24.653			
7,700.00	7,168.19	7,237.36	7,180.59	18.96	16.06	-90.76	-376.61	-8.23	857.14	821.81	35.33	24.262			
7,788.68	7,168.34	7,174.51	7,134.53	19.60	15.94	-87.67	-374.63	-50.91	854.64	818.95	35.69	23.948			
7,800.00	7,168.36	7,167.41	7,129.06	19.68	15.92	-87.30	-374.40	-55.44	854.68	818.95	35.73	23.919			
7,900.00	7,168.54	7,112.27	7,084.98	20.51	15.81	-84.34	-372.56	-88.49	859.27	823.06	36.22	23.726 SF			
8,000.00	7,168.72	7,068.29	7,047.88	21.44	15.72	-81.86	-371.04	-112.04	872.15	835.42	36.73	23.744			
8,100.00	7,168.90	7,032.71	7,016.73	22.45	15.65	-79.80	-369.78	-129.17	893.82	856.59	37.23	24.006			
8,200.00	7,169.08	7,000.00	6,987.29	23.53	15.58	-77.87	-368.60	-143.37	924.26	886.58	37.68	24.531			
8,300.00	7,169.26	6,979.19	6,968.20	24.68	15.54	-76.63	-367.85	-151.60	962.98	924.91	38.08	25.291			
8,400.00	7,169.44	6,950.00	6,940.98	25.88	15.47	-74.89	-366.78	-162.10	1,009.40	971.03	38.37	26.308			
8,500.00	7,169.62	6,950.00	6,940.98	27.14	15.47	-74.89	-366.78	-162.10	1,062.53	1,023.88	38.65	27.491			
8,600.00	7,169.80	6,926.18	6,918.43	28.43	15.42	-73.46	-365.90	-169.73	1,121.54	1,082.73	38.81	28.897			
8,700.00	7,169.98	6,913.08	6,905.92	29.77	15.39	-72.67	-365.41	-173.56	1,185.76	1,146.82	38.94	30.453			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-90.42	-1.10	-149.89	149.90				
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.10	-149.89	149.90	142.37	7.53	19.909	
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.10	-149.89	149.90	142.32	7.57	19.790	
300.00	299.98	300.50	300.48	3.35	3.35	-151.15	0.66	-150.06	151.59	143.93	7.66	19.782	
400.00	399.84	399.78	399.62	3.42	3.42	-150.12	5.83	-150.56	156.69	148.90	7.80	20.096	
500.00	499.45	500.70	498.87	3.51	3.51	-149.01	13.13	-151.26	165.10	157.12	7.98	20.692	
600.00	598.70	601.36	597.93	3.63	3.62	-148.55	20.44	-151.97	176.52	168.31	8.21	21.510	
700.00	697.66	702.26	696.77	3.78	3.75	-148.59	27.74	-152.67	189.85	181.38	8.47	22.403	
800.00	796.60	803.15	795.60	3.95	3.90	-148.65	35.03	-153.37	203.23	194.45	8.78	23.159	
900.00	895.55	904.05	894.43	4.15	4.07	-148.70	42.32	-154.07	216.60	207.49	9.11	23.778	
1,000.00	994.50	1,004.95	993.26	4.37	4.25	-148.75	49.62	-154.77	229.97	220.50	9.47	24.277	
1,100.00	1,093.45	1,105.85	1,092.09	4.60	4.44	-148.79	56.91	-155.48	243.35	233.48	9.86	24.673	
1,200.00	1,192.39	1,206.75	1,190.92	4.85	4.64	-148.83	64.20	-156.18	256.72	246.44	10.28	24.984	
1,300.00	1,291.34	1,292.35	1,289.75	5.10	4.82	-148.86	71.50	-156.88	270.09	259.42	10.68	25.301	
1,400.00	1,390.29	1,391.46	1,388.58	5.37	5.03	-148.89	78.79	-157.58	283.47	272.35	11.12	25.492	
1,500.00	1,489.24	1,509.44	1,487.41	5.65	5.30	-148.92	86.08	-158.29	296.84	285.22	11.62	25.540	
1,600.00	1,588.18	1,589.66	1,586.24	5.94	5.48	-148.95	93.38	-158.99	310.21	298.16	12.05	25.739	
1,700.00	1,687.13	1,688.76	1,685.07	6.23	5.72	-148.97	100.67	-159.69	323.59	311.05	12.54	25.811	
1,800.00	1,786.08	1,787.86	1,783.90	6.53	5.96	-148.99	107.96	-160.39	336.96	323.93	13.03	25.858	
1,900.00	1,885.03	1,886.96	1,882.73	6.69	6.20	-149.01	115.26	-161.09	350.33	337.30	13.03	26.883	
2,000.00	1,983.97	1,986.07	1,981.56	6.72	6.44	-149.03	122.55	-161.80	363.71	350.41	13.30	27.350	
2,100.00	2,082.92	2,085.17	2,080.39	6.77	6.69	-149.05	129.84	-162.50	377.08	363.50	13.58	27.763	
2,200.00	2,181.87	2,184.27	2,179.23	6.83	6.95	-149.06	137.14	-163.20	390.46	376.57	13.88	28.124	
2,300.00	2,280.82	2,283.37	2,278.06	6.91	7.20	-149.08	144.43	-163.90	403.83	389.63	14.20	28.437	
2,400.00	2,379.76	2,382.47	2,376.89	7.00	7.46	-149.09	151.72	-164.61	417.20	402.67	14.53	28.705	
2,500.00	2,478.71	2,481.57	2,475.72	7.10	7.72	-149.10	159.02	-165.31	430.58	415.69	14.88	28.932	
2,600.00	2,577.66	2,580.68	2,574.55	7.22	7.98	-149.12	166.31	-166.01	443.95	428.71	15.24	29.122	
2,700.00	2,676.61	2,679.78	2,673.38	7.34	8.25	-149.13	173.60	-166.71	457.32	441.70	15.62	29.277	
2,800.00	2,775.55	2,778.88	2,772.21	7.48	8.51	-149.14	180.90	-167.41	470.70	454.69	16.01	29.401	
2,900.00	2,874.50	2,877.98	2,871.04	7.63	8.78	-149.15	188.19	-168.12	484.07	467.66	16.41	29.497	
3,000.00	2,973.45	2,977.08	2,969.87	7.79	9.05	-149.16	195.48	-168.82	497.45	480.62	16.82	29.569	
3,100.00	3,072.40	3,076.18	3,068.70	7.96	9.32	-149.17	202.78	-169.52	510.82	493.57	17.25	29.620	
3,200.00	3,171.34	3,175.29	3,167.53	8.13	9.59	-149.18	210.07	-170.22	524.19	506.52	17.68	29.650	
3,300.00	3,270.29	3,274.39	3,266.36	8.32	9.86	-149.19	217.36	-170.93	537.57	519.45	18.12	29.665	
3,400.00	3,369.24	3,373.49	3,365.19	8.51	10.13	-149.19	224.66	-171.63	550.94	532.37	18.57	29.664	
3,500.00	3,468.19	3,472.59	3,464.02	8.71	10.40	-149.20	231.95	-172.33	564.32	545.28	19.03	29.651	
3,600.00	3,567.13	3,571.69	3,562.85	8.92	10.68	-149.21	239.24	-173.03	577.69	558.19	19.50	29.627	
3,700.00	3,666.08	3,670.79	3,661.68	9.14	10.95	-149.22	246.54	-173.73	591.06	571.09	19.97	29.594	
3,800.00	3,765.03	3,769.90	3,760.51	9.36	11.23	-149.22	253.83	-174.44	604.44	583.99	20.45	29.553	
3,900.00	3,863.98	3,869.00	3,859.34	9.58	11.51	-149.23	261.12	-175.14	617.81	596.87	20.94	29.505	
4,000.00	3,962.92	3,968.10	3,958.17	9.81	11.78	-149.23	268.42	-175.84	631.19	609.75	21.43	29.451	
4,100.00	4,061.87	4,067.20	4,057.00	10.05	12.06	-149.24	275.71	-176.54	644.56	622.63	21.93	29.393	
4,200.00	4,160.82	4,166.30	4,155.83	10.29	12.34	-149.25	283.00	-177.25	657.93	635.50	22.43	29.331	
4,300.00	4,259.77	4,265.40	4,254.66	10.53	12.62	-149.25	290.30	-177.95	671.31	648.37	22.94	29.265	
4,400.00	4,358.71	4,364.50	4,353.49	10.78	12.90	-149.26	297.59	-178.65	684.68	661.23	23.45	29.198	
4,500.00	4,457.66	4,463.61	4,452.32	11.03	13.17	-149.26	304.88	-179.35	698.06	674.09	23.97	29.128	
4,600.00	4,556.61	4,562.71	4,551.15	11.28	13.45	-149.27	312.18	-180.05	711.43	686.95	24.48	29.057	
4,700.00	4,655.56	4,661.81	4,649.99	11.54	13.73	-149.27	319.47	-180.76	724.80	699.80	25.01	28.984	
4,800.00	4,754.50	4,760.91	4,748.82	11.80	14.01	-149.27	326.76	-181.46	738.18	712.65	25.53	28.911	
4,900.00	4,853.45	4,860.01	4,847.65	12.07	14.30	-149.28	334.06	-182.16	751.55	725.49	26.06	28.838	
5,000.00	4,952.40	4,959.11	4,946.48	12.33	14.58	-149.28	341.35	-182.86	764.93	738.33	26.59	28.764	
5,100.00	5,051.35	5,058.22	5,045.31	12.60	14.86	-149.29	348.64	-183.57	778.30	751.17	27.13	28.690	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program:													0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance						Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
5,200.00	5,150.29	5,157.32	5,144.14	12.87	15.14	-149.29	355.94	-184.27	791.68	764.01	27.66	28.617						
5,300.00	5,249.24	5,256.42	5,242.97	13.14	15.42	-149.29	363.23	-184.97	805.05	776.85	28.20	28.544						
5,400.00	5,348.19	5,355.52	5,341.80	13.42	15.70	-149.30	370.52	-185.67	818.42	789.68	28.75	28.472						
5,500.00	5,447.14	5,454.62	5,440.63	13.69	15.99	-149.30	377.82	-186.37	831.80	802.51	29.29	28.400						
5,600.00	5,546.08	5,553.72	5,539.46	13.97	16.27	-149.30	385.11	-187.08	845.17	815.34	29.83	28.329						
5,700.00	5,645.03	5,652.83	5,638.29	14.25	16.55	-149.31	392.40	-187.78	858.55	828.16	30.38	28.259						
5,800.00	5,743.98	5,751.93	5,737.12	14.53	16.83	-149.31	399.70	-188.48	871.92	840.99	30.93	28.189						
5,900.00	5,842.93	5,851.03	5,835.95	14.82	17.12	-149.31	406.99	-189.18	885.29	853.81	31.48	28.121						
6,000.00	5,941.87	5,950.13	5,934.78	15.10	17.40	-149.32	414.28	-189.89	898.67	866.63	32.03	28.054						
6,100.00	6,040.82	6,049.23	6,033.61	15.39	17.68	-149.32	421.58	-190.59	912.04	879.45	32.59	27.987						
6,200.00	6,139.77	6,148.33	6,132.44	15.67	17.97	-149.32	428.87	-191.29	925.42	892.27	33.14	27.922						
6,300.00	6,238.72	6,247.44	6,231.27	15.96	18.25	-149.33	436.16	-191.99	938.79	905.09	33.70	27.857						
6,400.00	6,337.67	6,346.54	6,330.10	16.25	18.54	-149.33	443.45	-192.69	952.17	917.91	34.26	27.794						
6,500.00	6,436.61	8,075.94	7,360.45	16.54	28.07	-138.23	517.23	773.55	927.33	899.21	28.12	32.976						
6,600.00	6,536.02	8,082.93	7,360.44	16.77	28.09		517.22	780.53	827.71	799.31	28.40	29.150						
6,700.00	6,635.32	8,074.44	7,360.45	16.92	28.06	144.02	517.24	772.05	728.23	699.59	28.64	25.430						
6,800.00	6,732.10	8,050.49	7,360.49	17.02	27.98	159.89	517.29	748.10	631.31	602.48	28.83	21.894						
6,900.00	6,823.98	8,011.66	7,360.56	17.07	27.85	165.27	517.39	709.27	539.36	510.37	28.99	18.605						
7,000.00	6,908.69	7,958.91	7,360.64	17.10	27.71	167.70	517.52	656.52	454.64	425.52	29.13	15.608						
7,100.00	6,984.15	7,906.46	7,360.75	17.12	27.58	168.83	517.68	591.15	379.25	349.99	29.26	12.960						
7,200.00	7,048.50	7,817.16	7,360.88	17.17	27.42	169.22	517.86	514.77	315.06	285.64	29.41	10.711						
7,300.00	7,100.16	7,722.50	7,360.65	17.30	26.05	169.03	518.07	420.11	263.40	233.86	29.55	8.914						
7,400.00	7,137.85	7,584.91	7,341.37	17.53	23.90	167.50	516.96	284.15	212.99	182.55	30.44	6.997						
7,500.00	7,160.65	7,466.60	7,301.83	17.89	22.45	164.68	514.30	172.86	159.13	127.28	31.85	4.996						
7,600.00	7,168.01	7,362.41	7,250.53	18.37	21.51	158.75	510.73	82.37	104.42	71.01	33.41	3.125						
7,700.00	7,168.19	7,274.24	7,196.10	18.96	20.98	134.14	506.87	13.21	46.67	10.85	35.83	1.303	Level 3					
7,755.89	7,168.29	7,232.90	7,167.41	19.36	20.83	85.82	504.82	-16.48	25.66	-14.98	40.63	0.631	Level 1, CC, ES, SF					
7,800.00	7,168.36	7,203.77	7,146.07	19.68	20.75	45.94	503.29	-36.24	41.38	3.06	38.32	1.080	Level 2					
7,900.00	7,168.54	7,147.44	7,102.36	20.51	20.62	17.25	500.15	-71.59	113.44	76.53	36.90	3.074						
8,000.00	7,168.72	7,102.05	7,064.97	21.44	20.52	9.81	497.45	-97.18	194.95	157.82	37.13	5.250						
8,100.00	7,168.90	7,065.04	7,033.20	22.45	20.44	6.59	495.15	-116.01	280.64	243.22	37.42	7.500						
8,200.00	7,169.08	7,034.48	7,006.18	23.53	20.37	4.81	493.19	-130.15	369.12	331.47	37.65	9.803						
8,300.00	7,169.26	7,008.93	6,983.10	24.68	20.31	3.70	491.51	-140.96	459.65	421.81	37.84	12.147						
8,400.00	7,169.44	6,987.31	6,963.24	25.88	20.26	2.94	490.07	-149.38	551.72	513.74	37.99	14.524						
8,500.00	7,169.62	6,968.83	6,946.04	27.14	20.22	2.39	488.81	-156.03	645.01	606.90	38.10	16.927						
8,600.00	7,169.80	6,950.00	6,928.33	28.43	20.18	1.91	487.52	-162.30	739.25	701.05	38.20	19.352						
8,700.00	7,169.98	6,950.00	6,928.33	29.77	20.18	1.91	487.52	-162.30	834.41	796.14	38.27	21.801						
8,800.00	7,170.16	6,926.76	6,906.23	31.13	20.12	1.39	485.91	-169.30	929.87	891.53	38.35	24.248						
8,900.00	7,170.34	6,915.96	6,895.87	32.53	20.10	1.18	485.15	-172.28	1,026.02	987.61	38.41	26.713						
9,000.00	7,170.51	6,900.00	6,880.49	33.95	20.06	0.89	484.02	-176.36	1,122.65	1,084.17	38.47	29.179						

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-98.03	-21.13	-149.89	151.37				
100.00	100.00	101.00	101.00	3.28	3.28	-98.03	-21.13	-149.89	151.37	143.85	7.53	20.106	
200.00	200.00	201.00	201.00	3.31	3.31	-98.02	-21.13	-149.89	151.37	143.80	7.57	19.985	
200.04	200.04	201.04	201.04	3.31	3.31	-98.02	-21.13	-149.89	151.37	143.80	7.57	19.985	
300.00	299.98	301.15	301.13	3.35	3.35	-158.68	-19.36	-150.08	152.95	145.28	7.66	19.958	
400.00	399.84	401.07	400.91	3.42	3.42	-157.42	-14.12	-150.63	157.71	149.91	7.80	20.225	
500.00	499.45	500.67	500.25	3.51	3.51	-156.01	-6.96	-151.38	165.76	157.78	7.98	20.775	
600.00	598.70	600.01	599.32	3.63	3.62	-155.18	0.19	-152.13	177.04	168.84	8.20	21.579	
700.00	697.66	700.89	698.16	3.78	3.75	-154.81	7.33	-152.88	190.37	181.90	8.47	22.473	
800.00	796.60	801.80	797.00	3.95	3.90	-154.51	14.46	-153.63	203.75	194.98	8.77	23.235	
900.00	895.55	902.70	895.83	4.15	4.06	-154.24	21.59	-154.38	217.14	208.04	9.10	23.859	
1,000.00	994.50	1,003.61	994.67	4.37	4.24	-154.01	28.72	-155.13	230.52	221.06	9.46	24.363	
1,100.00	1,093.45	1,104.51	1,093.50	4.60	4.43	-153.80	35.85	-155.88	243.92	234.07	9.85	24.765	
1,200.00	1,192.39	1,205.41	1,192.34	4.85	4.63	-153.61	42.99	-156.63	257.31	247.05	10.26	25.081	
1,300.00	1,291.34	1,306.32	1,291.18	5.10	4.84	-153.44	50.12	-157.38	270.71	260.02	10.69	25.326	
1,400.00	1,390.29	1,407.22	1,390.01	5.37	5.06	-153.29	57.25	-158.13	284.11	272.97	11.14	25.512	
1,500.00	1,489.24	1,491.87	1,488.85	5.65	5.25	-153.15	64.38	-158.88	297.51	285.95	11.56	25.733	
1,600.00	1,588.18	1,609.03	1,587.68	5.94	5.52	-153.03	71.51	-159.63	310.91	298.84	12.07	25.751	
1,700.00	1,687.13	1,709.94	1,686.52	6.23	5.76	-152.91	78.65	-160.38	324.31	311.75	12.56	25.819	
1,800.00	1,786.08	1,789.16	1,785.36	6.53	5.95	-152.80	85.78	-161.13	337.72	324.71	13.01	25.966	
1,900.00	1,885.03	1,888.25	1,884.19	6.69	6.09	-152.70	92.91	-161.88	351.12	338.22	12.90	27.217	
2,000.00	1,983.97	1,987.35	1,983.03	6.72	6.12	-152.61	100.04	-162.63	364.53	351.58	12.95	28.145	
2,100.00	2,082.92	2,086.45	2,081.86	6.77	6.15	-152.53	107.17	-163.38	377.94	364.92	13.02	29.038	
2,200.00	2,181.87	2,185.54	2,180.70	6.83	6.19	-152.45	114.31	-164.13	391.35	378.24	13.11	29.862	
2,300.00	2,280.82	2,284.64	2,279.53	6.91	6.24	-152.37	121.44	-164.88	404.76	391.53	13.22	30.615	
2,400.00	2,379.76	2,383.73	2,378.37	7.00	6.31	-152.30	128.57	-165.63	418.17	404.80	13.36	31.295	
2,500.00	2,478.71	2,482.83	2,477.21	7.10	6.39	-152.24	135.70	-166.37	431.58	418.05	13.53	31.904	
2,600.00	2,577.66	2,581.92	2,576.04	7.22	6.48	-152.18	142.83	-167.12	444.99	431.27	13.72	32.442	
2,700.00	2,676.61	2,681.02	2,674.88	7.34	6.57	-152.12	149.97	-167.87	458.40	444.47	13.93	32.912	
2,800.00	2,775.55	2,780.12	2,773.71	7.48	6.68	-152.07	157.10	-168.62	471.81	457.65	14.16	33.318	
2,900.00	2,874.50	2,879.21	2,872.55	7.63	6.80	-152.01	164.23	-169.37	485.22	470.81	14.41	33.662	
3,000.00	2,973.45	2,978.31	2,971.38	7.79	6.93	-151.97	171.36	-170.12	498.63	483.95	14.69	33.951	
3,100.00	3,072.40	3,077.40	3,070.22	7.96	7.07	-151.92	178.49	-170.87	512.05	497.07	14.98	34.187	
3,200.00	3,171.34	3,176.50	3,169.06	8.13	7.21	-151.88	185.63	-171.62	525.46	510.17	15.29	34.376	
3,300.00	3,270.29	3,275.59	3,267.89	8.32	7.37	-151.83	192.76	-172.37	538.87	523.26	15.61	34.522	
3,400.00	3,369.24	3,374.69	3,366.73	8.51	7.53	-151.80	199.89	-173.12	552.29	536.34	15.95	34.629	
3,500.00	3,468.19	3,473.78	3,465.56	8.71	7.69	-151.76	207.02	-173.87	565.70	549.40	16.30	34.702	
3,600.00	3,567.13	3,572.88	3,564.40	8.92	7.87	-151.72	214.15	-174.62	579.12	562.45	16.67	34.745	
3,700.00	3,666.08	3,671.98	3,663.23	9.14	8.05	-151.69	221.29	-175.37	592.53	575.48	17.05	34.760	
3,800.00	3,765.03	3,771.07	3,762.07	9.36	8.23	-151.66	228.42	-176.12	605.94	588.51	17.44	34.752	
3,900.00	3,863.98	3,870.17	3,860.91	9.58	8.42	-151.62	235.55	-176.87	619.36	601.52	17.84	34.724	
4,000.00	3,962.92	3,969.26	3,959.74	9.81	8.62	-151.59	242.68	-177.62	632.77	614.53	18.25	34.678	
4,100.00	4,061.87	4,068.36	4,058.58	10.05	8.82	-151.57	249.81	-178.37	646.19	627.52	18.67	34.617	
4,200.00	4,160.82	4,167.45	4,157.41	10.29	9.02	-151.54	256.95	-179.12	659.60	640.51	19.10	34.542	
4,300.00	4,259.77	4,266.55	4,256.25	10.53	9.23	-151.51	264.08	-179.87	673.02	653.49	19.53	34.457	
4,400.00	4,358.71	4,365.64	4,355.08	10.78	9.44	-151.49	271.21	-180.62	686.44	666.46	19.98	34.363	
4,500.00	4,457.66	4,464.74	4,453.92	11.03	9.66	-151.46	278.34	-181.37	699.85	679.42	20.43	34.261	
4,600.00	4,556.61	4,563.84	4,552.76	11.28	9.87	-151.44	285.48	-182.12	713.27	692.38	20.88	34.152	
4,700.00	4,655.56	4,662.93	4,651.59	11.54	10.09	-151.42	292.61	-182.87	726.68	705.33	21.35	34.039	
4,800.00	4,754.50	4,762.03	4,750.43	11.80	10.32	-151.39	299.74	-183.61	740.10	718.28	21.82	33.921	
4,900.00	4,853.45	4,861.12	4,849.26	12.07	10.55	-151.37	306.87	-184.36	753.52	731.22	22.29	33.800	
5,000.00	4,952.40	4,960.22	4,948.10	12.33	10.77	-151.35	314.00	-185.11	766.93	744.16	22.77	33.677	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,051.35	5,059.31	5,046.94	12.60	11.01	-151.33	321.14	-185.86	780.35	757.09	23.26	33.552		
5,200.00	5,150.29	5,158.41	5,145.77	12.87	11.24	-151.31	328.27	-186.61	793.76	770.02	23.75	33.426		
5,300.00	5,249.24	5,257.50	5,244.61	13.14	11.48	-151.30	335.40	-187.36	807.18	782.94	24.24	33.300		
5,400.00	5,348.19	5,356.60	5,343.44	13.42	11.71	-151.28	342.53	-188.11	820.60	795.86	24.74	33.173		
5,500.00	5,447.14	5,455.70	5,442.28	13.69	11.95	-151.26	349.66	-188.86	834.01	808.78	25.24	33.046		
5,600.00	5,546.08	5,554.79	5,541.11	13.97	12.19	-151.24	356.80	-189.61	847.43	821.69	25.74	32.920		
5,700.00	5,645.03	5,653.89	5,639.95	14.25	12.44	-151.23	363.93	-190.36	860.85	834.60	26.25	32.795		
5,800.00	5,743.98	5,752.98	5,738.79	14.53	12.68	-151.21	371.06	-191.11	874.26	847.50	26.76	32.671		
5,900.00	5,842.93	5,852.08	5,837.62	14.82	12.93	-151.20	378.19	-191.86	887.68	860.41	27.27	32.548		
6,000.00	5,941.87	5,951.17	5,936.46	15.10	13.17	-151.18	385.32	-192.61	901.10	873.31	27.79	32.426		
6,100.00	6,040.82	6,050.27	6,035.29	15.39	13.42	-151.17	392.46	-193.36	914.51	886.21	28.31	32.306		
6,200.00	6,139.77	7,714.59	7,038.58	15.67	21.50	-153.58	463.13	735.18	899.69	872.50	27.19	33.084		
6,300.00	6,238.72	7,727.11	7,038.57	15.96	21.64	-153.93	463.10	747.69	800.48	772.98	27.50	29.112		
6,400.00	6,337.67	7,739.62	7,038.55	16.25	21.78	-154.38	463.08	760.20	701.27	673.46	27.80	25.223		
6,500.00	6,436.61	7,752.13	7,038.53	16.54	21.92	-154.98	463.06	772.72	602.06	573.94	28.11	21.416		
6,600.00	6,536.02	7,759.15	7,038.52	16.77	22.00	154.56	463.04	779.73	502.40	473.99	28.40	17.687		
6,700.00	6,635.32	7,750.69	7,038.53	16.92	21.91	161.12	463.06	771.27	402.87	374.25	28.62	14.077		
6,800.00	6,732.10	7,726.76	7,038.57	17.02	21.64	170.57	463.10	747.35	305.89	277.14	28.75	10.640		
6,900.00	6,823.98	7,687.96	7,038.62	17.07	21.21	174.45	463.18	708.54	213.86	185.06	28.80	7.426		
7,000.00	6,908.69	7,635.23	7,038.70	17.10	20.65	177.33	463.28	655.82	129.06	100.25	28.81	4.480		
7,100.00	6,984.15	7,569.88	7,038.79	17.12	19.99	-177.39	463.41	590.47	53.67	24.78	28.89	1.858		
7,181.46	7,037.49	7,508.42	7,038.88	17.16	19.39	-95.08	463.53	529.01	5.54	-31.51	37.05	0.149	Level 1, CC, ES, SF	
7,200.00	7,048.50	7,506.48	7,038.90	17.17	19.37	-36.69	463.56	514.10	12.33	-17.71	30.05	0.410	Level 1	
7,300.00	7,100.16	7,409.17	7,038.91	17.30	18.51	-10.20	463.72	429.76	63.05	34.55	28.49	2.213		
7,400.00	7,137.85	7,330.45	7,032.73	17.53	17.88	-7.51	463.41	351.33	107.98	79.17	28.81	3.748		
7,500.00	7,160.65	7,254.91	7,017.78	17.89	17.32	-6.41	462.47	277.33	149.73	120.45	29.28	5.113		
7,600.00	7,168.01	7,181.84	6,995.09	18.37	16.84	-5.87	460.96	207.94	187.80	157.94	29.87	6.288		
7,700.00	7,168.19	7,113.33	6,966.75	18.96	16.44	-5.62	459.03	145.63	229.51	198.98	30.53	7.518		
7,800.00	7,168.36	7,050.00	6,934.76	19.68	16.11	-5.42	456.83	91.05	280.27	249.13	31.14	9.000		
7,900.00	7,168.54	7,000.00	6,905.77	20.51	15.88	-5.27	454.81	50.38	338.69	306.90	31.79	10.655		
8,000.00	7,168.72	6,950.00	6,873.69	21.44	15.68	-5.15	452.56	12.11	403.43	371.16	32.27	12.501		
8,100.00	7,168.90	6,900.00	6,838.72	22.45	15.50	-5.04	450.11	-23.52	473.51	440.85	32.66	14.500		
8,200.00	7,169.08	6,869.45	6,816.01	23.53	15.41	-4.98	448.51	-43.90	547.75	514.69	33.06	16.569		
8,300.00	7,169.26	6,836.78	6,790.68	24.68	15.31	-4.92	446.72	-64.45	625.61	592.25	33.36	18.753		
8,400.00	7,169.44	6,800.00	6,760.96	25.88	15.22	-4.86	444.61	-85.99	706.51	672.91	33.61	21.023		
8,500.00	7,169.62	6,782.48	6,746.37	27.14	15.18	-4.84	443.58	-95.64	789.66	755.83	33.82	23.347		
8,600.00	7,169.80	6,750.00	6,718.65	28.43	15.11	-4.79	441.61	-112.45	875.06	841.05	34.01	25.731		
8,700.00	7,169.98	6,750.00	6,718.65	29.77	15.11	-4.79	441.61	-112.45	962.05	927.92	34.13	28.185		
8,800.00	7,170.16	6,721.52	6,693.67	31.13	15.05	-4.76	439.83	-126.01	1,050.33	1,016.06	34.28	30.642		
8,900.00	7,170.34	6,700.00	6,674.41	32.53	15.00	-4.73	438.46	-135.50	1,140.02	1,105.62	34.40	33.139		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-105.39	-41.17	-149.61	155.17				
100.00	100.00	101.00	101.00	3.28	3.28	-105.39	-41.17	-149.61	155.17	147.65	7.53	20.610	
200.00	200.00	201.01	201.01	3.31	3.31	-105.39	-41.17	-149.61	155.17	147.60	7.57	20.487	
200.12	200.12	201.12	201.12	3.31	3.31	-105.39	-41.17	-149.61	155.17	147.60	7.57	20.487	CC, ES
300.00	299.98	301.52	301.50	3.35	3.35	-165.97	-39.39	-149.91	156.69	149.03	7.66	20.446	
400.00	399.84	401.51	401.39	3.42	3.42	-164.82	-35.00	-150.65	161.38	153.59	7.80	20.695	
500.00	499.45	501.15	500.93	3.51	3.51	-163.99	-30.46	-151.41	169.47	161.49	7.98	21.243	
600.00	598.70	600.49	600.15	3.63	3.62	-163.53	-25.93	-152.16	180.91	172.71	8.20	22.063	
700.00	697.66	700.45	699.12	3.78	3.74	-163.37	-21.41	-152.92	194.51	186.05	8.46	22.992	
800.00	796.60	801.38	798.07	3.95	3.88	-163.24	-16.89	-153.68	208.16	199.41	8.75	23.787	
900.00	895.55	902.32	897.03	4.15	4.04	-163.12	-12.37	-154.43	221.80	212.73	9.07	24.445	
1,000.00	994.50	1,003.25	995.99	4.37	4.21	-163.02	-7.86	-155.19	235.45	226.02	9.42	24.983	
1,100.00	1,093.45	1,104.19	1,094.95	4.60	4.40	-162.93	-3.34	-155.94	249.09	239.29	9.80	25.418	
1,200.00	1,192.39	1,205.13	1,193.91	4.85	4.59	-162.85	1.18	-156.70	262.74	252.54	10.20	25.765	
1,300.00	1,291.34	1,306.06	1,292.86	5.10	4.79	-162.77	5.69	-157.46	276.38	265.77	10.61	26.039	
1,400.00	1,390.29	1,407.00	1,391.82	5.37	5.00	-162.71	10.21	-158.21	290.03	278.98	11.05	26.253	
1,500.00	1,489.24	1,507.93	1,490.78	5.65	5.22	-162.65	14.73	-158.97	303.68	292.18	11.50	26.416	
1,600.00	1,588.18	1,608.87	1,589.74	5.94	5.44	-162.59	19.25	-159.72	317.32	305.37	11.96	26.539	
1,700.00	1,687.13	1,709.81	1,688.70	6.23	5.67	-162.54	23.76	-160.48	330.97	318.54	12.43	26.628	
1,800.00	1,786.08	1,789.26	1,787.65	6.53	5.85	-162.50	28.28	-161.23	344.62	331.76	12.86	26.793	
1,900.00	1,885.03	1,888.32	1,886.61	6.69	6.08	-162.45	32.80	-161.99	358.27	345.42	12.85	27.885	
2,000.00	1,983.97	1,987.39	1,985.57	6.72	6.32	-162.41	37.32	-162.75	371.91	358.81	13.10	28.389	
2,100.00	2,082.92	2,086.45	2,084.53	6.77	6.56	-162.38	41.83	-163.50	385.56	372.19	13.37	28.835	
2,200.00	2,181.87	2,185.51	2,183.49	6.83	6.80	-162.34	46.35	-164.26	399.21	385.55	13.66	29.227	
2,300.00	2,280.82	2,284.58	2,282.44	6.91	7.04	-162.31	50.87	-165.01	412.86	398.90	13.96	29.568	
2,400.00	2,379.76	2,383.64	2,381.40	7.00	7.29	-162.28	55.39	-165.77	426.51	412.23	14.28	29.861	
2,500.00	2,478.71	2,482.71	2,480.36	7.10	7.54	-162.25	59.90	-166.53	440.16	425.54	14.62	30.110	
2,600.00	2,577.66	2,581.77	2,579.32	7.22	7.79	-162.22	64.42	-167.28	453.81	438.84	14.97	30.319	
2,700.00	2,676.61	2,680.83	2,678.28	7.34	8.04	-162.20	68.94	-168.04	467.45	452.12	15.33	30.491	
2,800.00	2,775.55	2,779.90	2,777.23	7.48	8.30	-162.18	73.46	-168.79	481.10	465.40	15.71	30.630	
2,900.00	2,874.50	2,878.96	2,876.19	7.63	8.55	-162.15	77.97	-169.55	494.75	478.66	16.10	30.739	
3,000.00	2,973.45	2,978.03	2,975.15	7.79	8.81	-162.13	82.49	-170.31	508.40	491.91	16.50	30.821	
3,100.00	3,072.40	3,077.09	3,074.11	7.96	9.07	-162.11	87.01	-171.06	522.05	505.15	16.91	30.880	
3,200.00	3,171.34	3,176.15	3,173.07	8.13	9.33	-162.09	91.53	-171.82	535.70	518.37	17.33	30.918	
3,300.00	3,270.29	3,275.22	3,272.02	8.32	9.59	-162.08	96.04	-172.57	549.35	531.59	17.76	30.938	
3,400.00	3,369.24	3,374.28	3,370.98	8.51	9.85	-162.06	100.56	-173.33	563.00	544.80	18.20	30.942	
3,500.00	3,468.19	3,473.35	3,469.94	8.71	10.11	-162.04	105.08	-174.09	576.65	558.01	18.64	30.932	
3,600.00	3,567.13	3,572.41	3,568.90	8.92	10.37	-162.03	109.59	-174.84	590.30	571.20	19.10	30.910	
3,700.00	3,666.08	3,671.47	3,667.86	9.14	10.64	-162.01	114.11	-175.60	603.95	584.39	19.56	30.878	
3,800.00	3,765.03	3,770.54	3,766.81	9.36	10.90	-162.00	118.63	-176.35	617.60	597.57	20.03	30.837	
3,900.00	3,863.98	3,869.60	3,865.77	9.58	11.17	-161.98	123.15	-177.11	631.25	610.75	20.50	30.789	
4,000.00	3,962.92	3,968.67	3,964.73	9.81	11.43	-161.97	127.66	-177.87	644.90	623.91	20.98	30.734	
4,100.00	4,061.87	4,067.73	4,063.69	10.05	11.70	-161.96	132.18	-178.62	658.55	637.08	21.47	30.675	
4,200.00	4,160.82	4,166.79	4,162.65	10.29	11.97	-161.95	136.70	-179.38	672.20	650.24	21.96	30.611	
4,300.00	4,259.77	4,265.86	4,261.60	10.53	12.23	-161.94	141.22	-180.13	685.85	663.39	22.45	30.544	
4,400.00	4,358.71	4,364.92	4,360.56	10.78	12.50	-161.92	145.73	-180.89	699.50	676.54	22.95	30.473	
4,500.00	4,457.66	4,463.98	4,459.52	11.03	12.77	-161.91	150.25	-181.64	713.15	689.69	23.46	30.401	
4,600.00	4,556.61	4,563.05	4,558.48	11.28	13.04	-161.90	154.77	-182.40	726.80	702.83	23.97	30.327	
4,700.00	4,655.56	4,662.11	4,657.44	11.54	13.31	-161.89	159.29	-183.16	740.45	715.97	24.48	30.252	
4,800.00	4,754.50	4,761.18	4,756.39	11.80	13.58	-161.88	163.80	-183.91	754.10	729.11	24.99	30.175	
4,900.00	4,853.45	4,860.24	4,855.35	12.07	13.85	-161.87	168.32	-184.67	767.75	742.24	25.51	30.099	
5,000.00	4,952.40	4,959.30	4,954.31	12.33	14.12	-161.87	172.84	-185.42	781.40	755.37	26.03	30.022	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,051.35	5,058.37	5,053.27	12.60	14.39	-161.86	177.36	-186.18	795.05	768.49	26.55	29.945	
5,200.00	5,150.29	5,157.43	5,152.23	12.87	14.66	-161.85	181.87	-186.94	808.70	781.62	27.08	29.868	
5,300.00	5,249.24	5,256.50	5,251.18	13.14	14.93	-161.84	186.39	-187.69	822.35	794.74	27.60	29.791	
5,400.00	5,348.19	5,355.56	5,350.14	13.42	15.20	-161.83	190.91	-188.45	836.00	807.86	28.13	29.715	
5,500.00	5,447.14	5,454.62	5,449.10	13.69	15.47	-161.83	195.43	-189.20	849.65	820.98	28.67	29.640	
5,600.00	5,546.08	5,553.69	5,548.06	13.97	15.74	-161.82	199.94	-189.96	863.30	834.10	29.20	29.565	
5,700.00	5,645.03	5,652.75	5,647.02	14.25	16.01	-161.81	204.46	-190.72	876.95	847.21	29.74	29.492	
5,800.00	5,743.98	5,751.82	5,745.97	14.53	16.29	-161.81	208.98	-191.47	890.60	860.32	30.27	29.419	
5,900.00	5,842.93	5,850.88	5,844.93	14.82	16.56	-161.80	213.49	-192.23	904.25	873.43	30.81	29.347	
6,000.00	5,941.87	5,949.94	5,943.89	15.10	16.83	-161.79	218.01	-192.98	917.90	886.54	31.35	29.276	
6,100.00	6,040.82	6,049.01	6,042.85	15.39	17.10	-161.79	222.53	-193.74	931.55	899.65	31.90	29.206	
6,200.00	6,139.77	6,148.07	6,141.81	15.67	17.38	-161.78	227.05	-194.50	945.20	912.76	32.44	29.137	
6,300.00	6,238.72	6,247.14	6,240.76	15.96	17.65	-161.77	231.56	-195.25	958.85	925.86	32.98	29.070	
6,400.00	6,337.67	7,936.60	7,243.44	16.25	27.41	147.53	275.59	760.43	916.08	887.67	28.42	32.239	
6,500.00	6,436.61	7,949.09	7,243.42	16.54	27.45	144.81	275.56	772.91	919.74	790.80	28.94	28.325	
6,600.00	6,536.02	7,956.07	7,243.41	16.77	27.48	-177.38	275.55	779.89	723.75	694.18	29.56	24.482	
6,700.00	6,635.32	7,947.58	7,243.42	16.92	27.45	-138.78	275.57	771.40	629.02	598.71	30.30	20.757	
6,800.00	6,732.10	7,923.62	7,243.47	17.02	27.36	-139.84	275.61	747.44	538.39	507.16	31.23	17.239	
6,900.00	6,823.98	7,884.79	7,243.53	17.07	27.22	-140.75	275.68	708.61	454.81	422.35	32.45	14.015	
7,000.00	6,908.69	7,832.04	7,243.63	17.10	27.07	-139.34	275.78	655.86	381.24	347.15	34.08	11.185	
7,100.00	6,984.15	7,766.66	7,243.74	17.12	26.92	-135.74	275.91	590.49	320.45	284.27	36.17	8.858	
7,200.00	7,048.50	7,709.72	7,243.87	17.17	26.81	-130.26	276.05	514.10	274.48	235.89	38.59	7.112	
7,300.00	7,100.16	7,601.80	7,243.87	17.30	25.58	-123.25	276.21	425.62	243.64	203.52	40.12	6.072	
7,400.00	7,137.85	7,495.25	7,232.82	17.53	23.83	-113.17	275.90	319.77	222.12	181.45	40.67	5.462	
7,500.00	7,160.65	7,397.70	7,207.38	17.89	22.46	-102.09	274.91	225.70	208.86	168.03	40.83	5.116	
7,581.44	7,168.03	7,323.60	7,178.62	18.28	21.62	-92.68	273.72	157.46	205.43	164.92	40.51	5.071 SF	
7,600.00	7,168.01	7,307.13	7,171.16	18.37	21.45	-90.60	273.41	142.78	205.58	165.22	40.37	5.093	
7,700.00	7,168.19	7,226.11	7,129.10	18.96	20.75	-79.08	271.62	73.63	214.11	174.69	39.42	5.431	
7,800.00	7,168.36	7,157.34	7,086.75	19.68	20.28	-68.50	269.78	19.52	239.07	200.81	38.26	6.249	
7,900.00	7,168.54	7,100.00	7,047.15	20.51	19.97	-59.96	268.05	-21.89	280.96	243.57	37.39	7.515	
8,000.00	7,168.72	7,050.00	7,009.71	21.44	19.74	-53.14	266.40	-54.96	336.73	299.81	36.93	9.119	
8,100.00	7,168.90	7,010.02	6,977.97	22.45	19.59	-48.23	265.00	-79.23	402.73	365.90	36.82	10.937	
8,200.00	7,169.08	6,975.35	6,949.26	23.53	19.48	-44.41	263.72	-98.62	476.03	439.17	36.86	12.913	
8,300.00	7,169.26	6,950.00	6,927.63	24.68	19.42	-41.86	262.76	-111.79	554.63	517.63	37.00	14.992	
8,400.00	7,169.44	6,920.33	6,901.67	25.88	19.36	-39.12	261.60	-126.10	637.05	599.95	37.10	17.172	
8,500.00	7,169.62	6,900.00	6,883.50	27.14	19.32	-37.40	260.79	-135.20	722.43	685.20	37.22	19.408	
8,600.00	7,169.80	6,879.05	6,864.50	28.43	19.27	-35.74	259.94	-143.96	810.06	772.72	37.33	21.697	
8,700.00	7,169.98	6,850.00	6,837.68	29.77	19.21	-33.63	258.73	-155.07	899.66	862.23	37.43	24.034	
8,800.00	7,170.16	6,850.00	6,837.68	31.13	19.21	-33.63	258.73	-155.07	990.30	952.77	37.53	26.388	
8,900.00	7,170.34	6,833.87	6,822.59	32.53	19.17	-32.55	258.05	-160.70	1,082.27	1,044.66	37.61	28.775	
9,000.00	7,170.51	6,821.96	6,811.35	33.95	19.15	-31.78	257.55	-164.62	1,175.20	1,137.52	37.69	31.183	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.20	-20.04	0.28	20.04				
100.00	100.00	100.00	100.00	3.28	3.28	179.20	-20.04	0.28	20.04	12.51	7.53	2.662	
200.00	200.00	200.00	200.00	3.31	3.31	179.20	-20.04	0.28	20.04	12.47	7.57	2.646	CC, ES
300.00	299.98	300.22	300.20	3.35	3.35	117.76	-19.46	1.93	20.31	12.65	7.66	2.651	
400.00	399.84	400.44	400.28	3.42	3.42	116.79	-17.72	6.89	21.11	13.32	7.79	2.710	
500.00	499.45	500.65	500.09	3.51	3.51	115.33	-14.82	15.15	22.46	14.48	7.97	2.817	
600.00	598.70	600.78	599.49	3.63	3.63	113.88	-10.81	26.56	24.39	16.18	8.21	2.971	
700.00	697.66	700.74	698.61	3.78	3.77	115.23	-6.52	38.78	27.04	18.53	8.50	3.179	
800.00	796.60	800.70	797.73	3.95	3.94	116.42	-2.22	51.01	29.71	20.87	8.85	3.359	
900.00	895.55	900.66	896.85	4.15	4.13	117.41	2.07	63.24	32.40	23.17	9.23	3.511	
1,000.00	994.50	1,000.63	995.96	4.37	4.34	118.25	6.37	75.47	35.09	25.45	9.65	3.638	
1,100.00	1,093.45	1,100.59	1,095.08	4.60	4.56	118.97	10.66	87.70	37.79	27.70	10.09	3.744	
1,200.00	1,192.39	1,200.55	1,194.20	4.85	4.80	119.60	14.95	99.93	40.50	29.93	10.57	3.832	
1,300.00	1,291.34	1,300.51	1,293.32	5.10	5.05	120.15	19.25	112.16	43.21	32.14	11.07	3.905	
1,400.00	1,390.29	1,400.48	1,392.44	5.37	5.31	120.63	23.54	124.39	45.92	34.34	11.58	3.965	
1,500.00	1,489.24	1,500.44	1,491.56	5.65	5.57	121.06	27.84	136.62	48.64	36.53	12.11	4.016	
1,600.00	1,588.18	1,600.40	1,590.68	5.94	5.85	121.44	32.13	148.85	51.36	38.70	12.66	4.057	
1,700.00	1,687.13	1,700.36	1,689.79	6.23	6.13	121.78	36.43	161.08	54.08	40.86	13.22	4.092	
1,800.00	1,786.08	1,800.33	1,788.91	6.53	6.41	122.09	40.72	173.30	56.80	43.02	13.79	4.120	
1,900.00	1,885.03	1,900.29	1,888.03	6.69	6.70	122.38	45.02	185.53	59.53	45.68	13.84	4.300	
2,000.00	1,983.97	2,000.25	1,987.15	6.72	7.00	122.64	49.31	197.76	62.25	48.09	14.16	4.396	
2,100.00	2,082.92	2,100.21	2,086.27	6.77	7.30	122.87	53.61	209.99	64.98	50.48	14.50	4.483	
2,200.00	2,181.87	2,200.18	2,185.39	6.83	7.60	123.09	57.90	222.22	67.71	52.86	14.85	4.560	
2,300.00	2,280.82	2,300.14	2,284.51	6.91	7.90	123.29	62.19	234.45	70.44	55.22	15.22	4.628	
2,400.00	2,379.76	2,400.10	2,383.62	7.00	8.21	123.48	66.49	246.68	73.17	57.56	15.60	4.689	
2,500.00	2,478.71	2,500.06	2,482.74	7.10	8.52	123.65	70.78	258.91	75.90	59.89	16.01	4.742	
2,600.00	2,577.66	2,600.03	2,581.86	7.22	8.83	123.81	75.08	271.14	78.63	62.20	16.42	4.788	
2,700.00	2,676.61	2,700.01	2,680.98	7.34	9.14	123.96	79.37	283.37	81.36	64.51	16.85	4.827	
2,800.00	2,775.55	2,800.05	2,780.10	7.48	9.45	124.10	83.67	295.59	84.09	66.79	17.30	4.862	
2,900.00	2,874.50	2,900.09	2,879.22	7.63	9.77	124.23	87.96	307.82	86.82	69.07	17.75	4.891	
3,000.00	2,973.45	3,000.12	2,978.34	7.79	10.09	124.35	92.26	320.05	89.56	71.34	18.22	4.915	
3,100.00	3,072.40	3,100.16	3,077.46	7.96	10.41	124.47	96.55	332.28	92.29	73.59	18.70	4.935	
3,200.00	3,171.34	3,200.20	3,176.57	8.13	10.73	124.58	100.85	344.51	95.02	75.83	19.19	4.952	
3,300.00	3,270.29	3,300.24	3,275.69	8.32	11.05	124.68	105.14	356.74	97.76	78.07	19.69	4.965	
3,400.00	3,369.24	3,400.27	3,374.81	8.51	11.37	124.78	109.43	368.97	100.49	80.30	20.20	4.976	
3,500.00	3,468.19	3,500.31	3,473.93	8.71	11.69	124.87	113.73	381.20	103.23	82.52	20.71	4.984	
3,600.00	3,567.13	3,600.35	3,573.05	8.92	12.02	124.96	118.02	393.43	105.96	84.73	21.23	4.990	
3,700.00	3,666.08	3,700.39	3,672.17	9.14	12.34	125.04	122.32	405.66	108.70	86.93	21.76	4.994	
3,800.00	3,765.03	3,800.42	3,771.29	9.36	12.66	125.12	126.61	417.89	111.43	89.13	22.30	4.997	
3,900.00	3,863.98	3,899.54	3,870.40	9.58	12.99	125.19	130.91	430.11	114.17	91.32	22.84	4.998	
4,000.00	3,962.92	3,999.50	3,969.52	9.81	13.31	125.27	135.20	442.34	116.90	93.51	23.39	4.998	
4,100.00	4,061.87	4,100.54	4,068.64	10.05	13.64	125.33	139.50	454.57	119.64	95.69	23.95	4.996	
4,200.00	4,160.82	4,200.57	4,167.76	10.29	13.97	125.40	143.79	466.80	122.37	97.87	24.51	4.993	
4,300.00	4,259.77	4,299.39	4,266.88	10.53	14.29	125.46	148.09	479.03	125.11	100.04	25.07	4.991	
4,400.00	4,358.71	4,399.35	4,366.00	10.78	14.62	125.52	152.38	491.26	127.85	102.21	25.64	4.987	
4,500.00	4,457.66	4,500.69	4,465.12	11.03	14.95	125.58	156.67	503.49	130.58	104.37	26.21	4.982	
4,600.00	4,556.61	4,600.72	4,564.23	11.28	15.28	125.63	160.97	515.72	133.32	106.53	26.79	4.977	
4,700.00	4,655.56	4,700.76	4,663.35	11.54	15.61	125.69	165.26	527.95	136.06	108.69	27.37	4.971	
4,800.00	4,754.50	4,800.80	4,762.47	11.80	15.94	125.74	169.56	540.18	138.79	110.84	27.95	4.965	
4,900.00	4,853.45	4,900.84	4,861.59	12.07	16.27	125.79	173.85	552.41	141.53	112.99	28.54	4.959	
5,000.00	4,952.40	5,000.87	4,960.71	12.33	16.60	125.83	178.15	564.63	144.27	115.14	29.13	4.953	
5,100.00	5,051.35	5,100.91	5,059.83	12.60	16.93	125.88	182.44	576.86	147.00	117.29	29.72	4.947	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,150.29	5,200.95	5,158.95	12.87	17.26	125.92	186.74	589.09	149.74	119.43	30.31	4.940	
5,300.00	5,249.24	5,300.99	5,258.07	13.14	17.59	125.96	191.03	601.32	152.48	121.57	30.91	4.933	
5,400.00	5,348.19	5,401.02	5,357.18	13.42	17.92	126.00	195.33	613.55	155.22	123.71	31.51	4.926	
5,500.00	5,447.14	5,501.06	5,456.30	13.69	18.25	126.04	199.62	625.78	157.95	125.85	32.11	4.919	
5,600.00	5,546.08	5,601.10	5,555.42	13.97	18.58	126.08	203.91	638.01	160.69	127.98	32.71	4.913	
5,700.00	5,645.03	5,701.14	5,654.54	14.25	18.92	126.12	208.21	650.24	163.43	130.11	33.31	4.906	
5,800.00	5,743.98	5,801.17	5,753.66	14.53	19.25	126.15	212.50	662.47	166.17	132.24	33.92	4.899	
5,900.00	5,842.93	5,901.21	5,852.78	14.82	19.58	126.19	216.80	674.70	168.90	134.37	34.53	4.892	
6,000.00	5,941.87	6,001.25	5,951.90	15.10	19.91	126.22	221.09	686.93	171.64	136.50	35.14	4.885	
6,100.00	6,040.82	6,101.29	6,051.01	15.39	20.24	126.25	225.39	699.15	174.38	138.63	35.75	4.878	
6,200.00	6,139.77	6,201.32	6,150.13	15.67	20.58	126.28	229.68	711.38	177.12	140.75	36.36	4.871	
6,300.00	6,238.72	6,301.36	6,249.25	15.96	20.91	126.31	233.98	723.61	179.85	142.88	36.98	4.864	
6,400.00	6,337.67	6,401.40	6,348.37	16.25	21.24	126.34	238.27	735.84	182.59	145.00	37.59	4.857	
6,500.00	6,436.61	6,501.44	6,447.49	16.54	21.57	126.37	242.57	748.07	185.33	147.12	38.21	4.851	
6,600.00	6,536.02	6,598.31	6,546.39	16.77	21.90	-170.50	246.85	760.27	187.46	148.64	38.82	4.829	
6,700.00	6,635.32	6,696.06	6,643.32	16.92	22.22	-114.05	251.05	772.23	189.26	149.76	39.50	4.791	
6,800.00	6,732.10	6,794.32	6,741.25	17.02	22.45	-110.98	255.31	777.29	194.34	154.34	40.00	4.858	
6,900.00	6,823.98	6,897.42	6,843.56	17.07	22.60	-114.47	259.80	766.35	203.29	163.11	40.18	5.060	
7,000.00	6,908.69	7,006.02	6,947.93	17.10	22.74	-119.13	264.43	737.14	215.21	175.20	40.01	5.379	
7,100.00	6,984.15	7,120.71	7,051.04	17.12	22.88	-123.63	269.06	687.52	228.83	189.33	39.51	5.792	
7,200.00	7,048.50	7,241.84	7,148.44	17.17	23.10	-127.52	273.50	615.94	242.71	203.90	38.82	6.253	
7,300.00	7,100.16	7,369.40	7,234.42	17.30	23.54	-130.61	277.49	522.08	255.40	217.16	38.24	6.679	
7,400.00	7,137.85	7,502.78	7,302.48	17.53	24.37	-132.86	280.75	407.71	265.56	227.38	38.18	6.955	
7,500.00	7,160.65	7,640.64	7,346.25	17.89	25.74	-134.23	282.99	277.28	272.11	233.06	39.05	6.969	
7,600.00	7,168.01	7,780.97	7,361.00	18.37	27.61	-134.71	283.99	138.02	274.33	233.38	40.96	6.698	
7,604.30	7,168.01	7,783.85	7,361.03	18.39	27.59	-134.71	284.00	135.13	274.34	233.39	40.96	6.699	
7,700.00	7,168.19	7,879.55	7,361.32	18.96	27.75	-134.74	284.26	39.44	274.37	232.78	41.59	6.597	
7,800.00	7,168.36	7,979.55	7,361.63	19.68	27.88	-134.78	284.53	-60.56	274.39	232.08	42.32	6.484	
7,900.00	7,168.54	8,079.55	7,361.94	20.51	28.11	-134.81	284.80	-160.56	274.42	231.23	43.19	6.353	
8,000.00	7,168.72	8,179.55	7,362.24	21.44	28.44	-134.84	285.07	-260.56	274.45	230.23	44.21	6.207	
8,100.00	7,168.90	8,279.55	7,362.55	22.45	28.86	-134.87	285.34	-360.56	274.47	229.11	45.37	6.050	
8,200.00	7,169.08	8,379.55	7,362.86	23.53	29.37	-134.90	285.61	-460.56	274.50	227.86	46.64	5.885	
8,300.00	7,169.26	8,479.55	7,363.16	24.68	29.96	-134.94	285.88	-560.56	274.53	226.50	48.03	5.716	
8,400.00	7,169.44	8,579.55	7,363.47	25.88	30.63	-134.97	286.15	-660.55	274.55	225.03	49.52	5.544	
8,500.00	7,169.62	8,679.55	7,363.78	27.14	31.38	-135.00	286.41	-760.55	274.58	223.47	51.11	5.372	
8,600.00	7,169.80	8,779.55	7,364.09	28.43	32.20	-135.03	286.68	-860.55	274.61	221.83	52.78	5.203	
8,700.00	7,169.98	8,879.55	7,364.39	29.77	33.08	-135.06	286.95	-960.55	274.64	220.10	54.53	5.036	
8,800.00	7,170.16	8,979.55	7,364.70	31.13	34.03	-135.10	287.22	-1,060.55	274.66	218.31	56.35	4.874	
8,900.00	7,170.34	9,079.55	7,365.01	32.53	35.02	-135.13	287.49	-1,160.55	274.69	216.45	58.24	4.716	
9,000.00	7,170.51	9,179.55	7,365.31	33.95	36.07	-135.16	287.76	-1,260.55	274.72	214.53	60.19	4.564	
9,100.00	7,170.69	9,279.55	7,365.62	35.39	37.16	-135.19	288.03	-1,360.55	274.75	212.56	62.19	4.418	
9,200.00	7,170.87	9,379.55	7,365.93	36.85	38.30	-135.22	288.30	-1,460.55	274.77	210.54	64.23	4.278	
9,300.00	7,171.05	9,479.55	7,366.23	38.32	39.47	-135.26	288.57	-1,560.55	274.80	208.48	66.32	4.143	
9,400.00	7,171.23	9,579.55	7,366.54	39.82	40.68	-135.29	288.84	-1,660.54	274.83	206.38	68.45	4.015	
9,500.00	7,171.41	9,679.55	7,366.85	41.32	41.91	-135.32	289.11	-1,760.54	274.86	204.24	70.62	3.892	
9,600.00	7,171.59	9,779.55	7,367.16	42.84	43.18	-135.35	289.38	-1,860.54	274.89	202.07	72.82	3.775	
9,700.00	7,171.77	9,879.55	7,367.46	44.37	44.48	-135.38	289.65	-1,960.54	274.91	199.87	75.05	3.663	
9,800.00	7,171.95	9,979.55	7,367.77	45.91	45.80	-135.42	289.91	-2,060.54	274.94	197.64	77.30	3.557	
9,900.00	7,172.13	10,079.55	7,368.08	47.46	47.14	-135.45	290.18	-2,160.54	274.97	195.39	79.58	3.455	
10,000.00	7,172.31	10,179.55	7,368.38	49.02	48.50	-135.48	290.45	-2,260.54	275.00	193.11	81.89	3.358	
10,100.00	7,172.49	10,279.55	7,368.69	50.58	49.88	-135.51	290.72	-2,360.54	275.03	190.82	84.21	3.266	
10,200.00	7,172.66	10,379.55	7,369.00	52.15	51.28	-135.54	290.99	-2,460.54	275.06	188.50	86.55	3.178	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,300.00	7,172.84	10,479.55	7,369.31	53.73	52.70	-135.58	291.26	-2,560.54	275.09	186.17	88.91	3.094	
10,400.00	7,173.02	10,579.55	7,369.61	55.31	54.12	-135.61	291.53	-2,660.54	275.11	183.83	91.28	3.014	
10,500.00	7,173.20	10,679.55	7,369.92	56.90	55.57	-135.64	291.80	-2,760.53	275.14	181.47	93.67	2.937	
10,600.00	7,173.38	10,779.55	7,370.23	58.49	57.02	-135.67	292.07	-2,860.53	275.17	179.10	96.07	2.864	
10,700.00	7,173.56	10,879.55	7,370.53	60.08	58.49	-135.70	292.34	-2,960.53	275.20	176.71	98.49	2.794	
10,800.00	7,173.74	10,979.55	7,370.84	61.68	59.97	-135.74	292.61	-3,060.53	275.23	174.32	100.91	2.727	
10,900.00	7,173.92	11,079.55	7,371.15	63.29	61.45	-135.77	292.88	-3,160.53	275.26	171.91	103.35	2.663	
11,000.00	7,174.10	11,179.55	7,371.46	64.90	62.95	-135.80	293.15	-3,260.53	275.29	169.50	105.79	2.602	
11,100.00	7,174.28	11,279.55	7,371.76	66.51	64.46	-135.83	293.41	-3,360.53	275.32	167.08	108.24	2.544	
11,200.00	7,174.46	11,379.55	7,372.07	68.12	65.97	-135.86	293.68	-3,460.53	275.35	164.65	110.70	2.487	
11,300.00	7,174.63	11,479.55	7,372.38	69.74	67.49	-135.90	293.95	-3,560.53	275.38	162.21	113.17	2.433	
11,400.00	7,174.81	11,579.55	7,372.68	71.35	69.02	-135.93	294.22	-3,660.53	275.41	159.76	115.64	2.382	
11,500.00	7,174.99	11,679.55	7,372.99	72.98	70.55	-135.96	294.49	-3,760.52	275.44	157.31	118.12	2.332	
11,600.00	7,175.17	11,779.55	7,373.30	74.60	72.09	-135.99	294.76	-3,860.52	275.47	154.86	120.61	2.284	
11,700.00	7,175.35	11,879.55	7,373.60	76.22	73.64	-136.02	295.03	-3,960.52	275.50	152.40	123.10	2.238	
11,800.00	7,175.53	11,979.55	7,373.91	77.85	75.19	-136.06	295.30	-4,060.52	275.53	149.93	125.59	2.194	
11,900.00	7,175.71	12,079.55	7,374.22	79.48	76.75	-136.09	295.57	-4,160.52	275.56	147.46	128.09	2.151	
12,000.00	7,175.89	12,179.55	7,374.53	81.11	78.31	-136.12	295.84	-4,260.52	275.59	144.99	130.60	2.110	
12,100.00	7,176.07	12,279.55	7,374.83	82.75	79.88	-136.15	296.11	-4,360.52	275.62	142.51	133.10	2.071	
12,200.00	7,176.25	12,379.55	7,375.14	84.38	81.45	-136.18	296.38	-4,460.52	275.65	140.03	135.61	2.033	
12,300.00	7,176.43	12,479.55	7,375.45	86.02	83.02	-136.21	296.65	-4,560.52	275.68	137.55	138.13	1.996	
12,400.00	7,176.61	12,579.55	7,375.75	87.65	84.60	-136.25	296.91	-4,660.52	275.71	135.07	140.64	1.960	
12,500.00	7,176.78	12,679.55	7,376.06	89.29	86.18	-136.28	297.18	-4,760.52	275.74	132.58	143.16	1.926	
12,600.00	7,176.96	12,779.55	7,376.37	90.93	87.76	-136.31	297.45	-4,860.51	275.77	130.09	145.68	1.893	
12,700.00	7,177.14	12,879.55	7,376.68	92.57	89.35	-136.34	297.72	-4,960.51	275.80	127.60	148.20	1.861	
12,800.00	7,177.32	12,979.55	7,376.98	94.21	90.94	-136.37	297.99	-5,060.51	275.83	125.10	150.73	1.830	
12,900.00	7,177.50	13,079.55	7,377.29	95.86	92.54	-136.41	298.26	-5,160.51	275.86	122.61	153.26	1.800	
13,000.00	7,177.68	13,179.55	7,377.60	97.50	94.13	-136.44	298.53	-5,260.51	275.89	120.11	155.78	1.771	
13,100.00	7,177.86	13,279.55	7,377.90	99.14	95.73	-136.47	298.80	-5,360.51	275.92	117.61	158.31	1.743	
13,200.00	7,178.04	13,379.55	7,378.21	100.79	97.33	-136.50	299.07	-5,460.51	275.96	115.11	160.85	1.716	
13,300.00	7,178.22	13,479.55	7,378.52	102.44	98.94	-136.53	299.34	-5,560.51	275.99	112.61	163.38	1.689	
13,400.00	7,178.40	13,579.54	7,378.82	104.08	100.54	-136.56	299.61	-5,660.51	276.02	110.11	165.91	1.664	
13,500.00	7,178.58	13,679.54	7,379.13	105.73	102.15	-136.60	299.88	-5,760.51	276.05	107.60	168.44	1.639	
13,600.00	7,178.75	13,779.54	7,379.44	107.38	103.76	-136.63	300.15	-5,860.50	276.08	105.10	170.98	1.615	
13,700.00	7,178.93	13,879.54	7,379.75	109.03	105.38	-136.66	300.41	-5,960.50	276.11	102.60	173.52	1.591	
13,800.00	7,179.11	13,979.54	7,380.05	110.68	106.99	-136.69	300.68	-6,060.50	276.14	100.09	176.05	1.569	
13,900.00	7,179.29	14,079.54	7,380.36	112.33	108.60	-136.72	300.95	-6,160.50	276.18	97.59	178.59	1.546	
14,000.00	7,179.47	14,179.54	7,380.67	113.98	110.22	-136.75	301.22	-6,260.50	276.21	95.08	181.12	1.525	
14,100.00	7,179.65	14,279.54	7,380.97	115.63	111.84	-136.79	301.49	-6,360.50	276.24	92.58	183.66	1.504	
14,200.00	7,179.83	14,379.54	7,381.28	117.29	113.46	-136.82	301.76	-6,460.50	276.27	90.07	186.20	1.484 Level 3	
14,300.00	7,180.01	14,479.54	7,381.59	118.94	115.08	-136.85	302.03	-6,560.50	276.30	87.57	188.74	1.464 Level 3	
14,400.00	7,180.19	14,579.54	7,381.90	120.59	116.71	-136.88	302.30	-6,660.50	276.34	85.06	191.27	1.445 Level 3	
14,500.00	7,180.37	14,679.54	7,382.20	122.25	118.33	-136.91	302.57	-6,760.50	276.37	82.56	193.81	1.426 Level 3	
14,600.00	7,180.55	14,779.54	7,382.51	123.90	119.96	-136.94	302.84	-6,860.50	276.40	80.05	196.35	1.408 Level 3	
14,700.00	7,180.73	14,879.54	7,382.82	125.56	121.59	-136.98	303.11	-6,960.49	276.43	77.55	198.88	1.390 Level 3	
14,800.00	7,180.90	14,979.54	7,383.12	127.21	123.21	-137.01	303.38	-7,060.49	276.47	75.04	201.42	1.373 Level 3	
14,900.00	7,181.08	15,079.54	7,383.43	128.87	124.84	-137.04	303.65	-7,160.49	276.50	72.54	203.96	1.356 Level 3	
15,000.00	7,181.26	15,179.54	7,383.74	130.52	126.47	-137.07	303.91	-7,260.49	276.53	70.04	206.49	1.339 Level 3	
15,100.00	7,181.44	15,279.54	7,384.04	132.18	128.11	-137.10	304.18	-7,360.49	276.56	67.53	209.03	1.323 Level 3	
15,200.00	7,181.62	15,379.54	7,384.35	133.84	129.74	-137.13	304.45	-7,460.49	276.60	65.03	211.57	1.307 Level 3	
15,300.00	7,181.80	15,479.54	7,384.66	135.50	131.37	-137.17	304.72	-7,560.49	276.63	62.53	214.10	1.292 Level 3	
15,400.00	7,181.98	15,579.54	7,384.97	137.15	133.01	-137.20	304.99	-7,660.49	276.66	60.03	216.64	1.277 Level 3	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,412.37	7,182.00	15,591.91	7,385.00	137.36	133.21	-137.20	305.02	-7,672.85	276.67	59.72	216.95	1.275	Level 3, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-40.07	0.28	40.07	32.54	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.291	CC	
300.00	299.98	300.42	300.40	3.35	3.35	118.30	-39.53	1.95	40.38	32.72	7.66	5.270		
400.00	399.84	400.84	400.68	3.42	3.42	117.72	-37.90	6.97	41.29	33.50	7.79	5.299		
500.00	499.45	501.24	500.69	3.51	3.51	116.80	-35.18	15.33	42.81	34.84	7.97	5.371		
600.00	598.70	601.57	600.26	3.63	3.63	115.66	-31.40	26.97	44.97	36.76	8.21	5.478		
700.00	697.66	701.53	699.30	3.78	3.78	115.60	-27.23	39.81	47.78	39.28	8.51	5.616		
800.00	796.60	801.49	798.35	3.95	3.95	115.59	-23.06	52.64	50.61	41.76	8.85	5.717		
900.00	895.55	901.45	897.39	4.15	4.14	115.59	-18.89	65.48	53.44	44.20	9.24	5.783		
1,000.00	994.50	1,001.41	996.44	4.37	4.35	115.58	-14.72	78.32	56.27	46.60	9.67	5.821		
1,100.00	1,093.45	1,101.37	1,095.48	4.60	4.58	115.58	-10.55	91.15	59.10	48.98	10.12	5.838		
1,200.00	1,192.39	1,201.33	1,194.53	4.85	4.82	115.58	-6.37	103.99	61.93	51.32	10.61	5.839		
1,300.00	1,291.34	1,301.29	1,293.57	5.10	5.07	115.57	-2.20	116.83	64.76	53.64	11.11	5.827		
1,400.00	1,390.29	1,401.25	1,392.62	5.37	5.34	115.57	1.97	129.66	67.59	55.95	11.64	5.807		
1,500.00	1,489.24	1,501.21	1,491.66	5.65	5.61	115.57	6.14	142.50	70.42	58.23	12.18	5.780		
1,600.00	1,588.18	1,601.17	1,590.71	5.94	5.89	115.57	10.31	155.34	73.24	60.50	12.74	5.748		
1,700.00	1,687.13	1,701.13	1,689.75	6.23	6.17	115.56	14.48	168.17	76.07	62.76	13.31	5.714		
1,800.00	1,786.08	1,801.09	1,788.79	6.53	6.46	115.56	18.65	181.01	78.90	65.01	13.89	5.679		
1,900.00	1,885.03	1,901.05	1,887.84	6.69	6.62	115.56	22.82	193.84	81.73	67.91	13.83	5.911		
2,000.00	1,983.97	2,001.01	1,986.88	6.72	6.65	115.56	26.99	206.68	84.56	70.67	13.89	6.090		
2,100.00	2,082.92	2,100.97	2,085.93	6.77	6.69	115.56	31.16	219.52	87.39	73.41	13.98	6.253		
2,200.00	2,181.87	2,200.93	2,184.97	6.83	6.75	115.56	35.33	232.35	90.22	76.13	14.09	6.401		
2,300.00	2,280.82	2,300.89	2,284.02	6.91	6.83	115.55	39.50	245.19	93.05	78.81	14.24	6.534		
2,400.00	2,379.76	2,400.85	2,383.06	7.00	6.91	115.55	43.68	258.03	95.88	81.46	14.41	6.652		
2,500.00	2,478.71	2,500.81	2,482.11	7.10	7.01	115.55	47.85	270.86	98.71	84.09	14.61	6.754		
2,600.00	2,577.66	2,600.77	2,581.15	7.22	7.12	115.55	52.02	283.70	101.54	86.70	14.84	6.842		
2,700.00	2,676.61	2,700.73	2,680.20	7.34	7.25	115.55	56.19	296.54	104.36	89.28	15.09	6.917		
2,800.00	2,775.55	2,800.69	2,779.24	7.48	7.38	115.55	60.36	309.37	107.19	91.83	15.36	6.978		
2,900.00	2,874.50	2,900.65	2,878.28	7.63	7.53	115.55	64.53	322.21	110.02	94.37	15.65	7.028		
3,000.00	2,973.45	3,000.61	2,977.33	7.79	7.69	115.55	68.70	335.05	112.85	96.88	15.97	7.067		
3,100.00	3,072.40	3,100.57	3,076.37	7.96	7.85	115.55	72.87	347.88	115.68	99.38	16.30	7.096		
3,200.00	3,171.34	3,200.53	3,175.42	8.13	8.02	115.55	77.04	360.72	118.51	101.86	16.65	7.117		
3,300.00	3,270.29	3,300.49	3,274.46	8.32	8.21	115.54	81.21	373.55	121.34	104.32	17.02	7.129		
3,400.00	3,369.24	3,400.45	3,373.51	8.51	8.40	115.54	85.38	386.39	124.17	106.76	17.40	7.135		
3,500.00	3,468.19	3,500.41	3,472.55	8.71	8.59	115.54	89.55	399.23	127.00	109.19	17.80	7.134		
3,600.00	3,567.13	3,600.37	3,571.60	8.92	8.80	115.54	93.72	412.06	129.83	111.61	18.21	7.128		
3,700.00	3,666.08	3,700.33	3,670.64	9.14	9.01	115.54	97.90	424.90	132.65	114.02	18.64	7.117		
3,800.00	3,765.03	3,800.29	3,769.69	9.36	9.23	115.54	102.07	437.74	135.48	116.41	19.07	7.103		
3,900.00	3,863.98	3,900.25	3,868.73	9.58	9.45	115.54	106.24	450.57	138.31	118.79	19.52	7.085		
4,000.00	3,962.92	4,000.21	3,967.78	9.81	9.67	115.54	110.41	463.41	141.14	121.16	19.98	7.064		
4,100.00	4,061.87	4,100.17	4,066.82	10.05	9.91	115.54	114.58	476.25	143.97	123.52	20.45	7.041		
4,200.00	4,160.82	4,200.13	4,165.86	10.29	10.14	115.54	118.75	489.08	146.80	125.88	20.92	7.016		
4,300.00	4,259.77	4,300.09	4,264.91	10.53	10.38	115.54	122.92	501.92	149.63	128.22	21.41	6.990		
4,400.00	4,358.71	4,400.05	4,363.95	10.78	10.63	115.54	127.09	514.75	152.46	130.56	21.90	6.962		
4,500.00	4,457.66	4,500.01	4,463.00	11.03	10.87	115.54	131.26	527.59	155.29	132.89	22.40	6.933		
4,600.00	4,556.61	4,600.03	4,562.04	11.28	11.13	115.54	135.43	540.43	158.12	135.21	22.90	6.903		
4,700.00	4,655.56	4,700.07	4,661.09	11.54	11.38	115.54	139.60	553.26	160.95	137.53	23.42	6.873		
4,800.00	4,754.50	4,799.89	4,760.13	11.80	11.64	115.54	143.77	566.10	163.77	139.84	23.93	6.843		
4,900.00	4,853.45	4,900.15	4,859.18	12.07	11.90	115.54	147.94	578.94	166.60	142.15	24.46	6.812		
5,000.00	4,952.40	4,999.81	4,958.22	12.33	12.16	115.53	152.12	591.77	169.43	144.45	24.99	6.781		
5,100.00	5,051.35	5,100.23	5,057.27	12.60	12.42	115.53	156.29	604.61	172.26	146.74	25.52	6.750		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,199.73	5,156.31	12.87	12.69	115.53	160.46	617.45	175.09	149.03	26.06	6.719		
5,300.00	5,249.24	5,300.31	5,255.35	13.14	12.96	115.53	164.63	630.28	177.92	151.32	26.60	6.688		
5,400.00	5,348.19	5,399.65	5,354.40	13.42	13.23	115.53	168.80	643.12	180.75	153.60	27.15	6.659		
5,500.00	5,447.14	5,500.39	5,453.44	13.69	13.50	115.53	172.97	655.96	183.58	155.88	27.70	6.628		
5,600.00	5,546.08	5,600.43	5,552.49	13.97	13.78	115.53	177.14	668.79	186.41	158.16	28.25	6.598		
5,700.00	5,645.03	5,700.47	5,651.53	14.25	14.06	115.53	181.31	681.63	189.24	160.43	28.81	6.569		
5,800.00	5,743.98	5,800.51	5,750.58	14.53	14.33	115.53	185.48	694.46	192.06	162.70	29.37	6.540		
5,900.00	5,842.93	5,900.55	5,849.62	14.82	14.61	115.53	189.65	707.30	194.89	164.96	29.93	6.512		
6,000.00	5,941.87	6,000.59	5,948.67	15.10	14.89	115.53	193.82	720.14	197.72	167.23	30.50	6.484		
6,100.00	6,040.82	6,100.63	6,047.71	15.39	15.18	115.53	197.99	732.97	200.55	169.49	31.06	6.456		
6,200.00	6,139.77	6,199.33	6,146.76	15.67	15.46	115.53	202.17	745.81	203.38	171.75	31.63	6.430		
6,300.00	6,238.72	6,300.71	6,245.80	15.96	15.75	115.53	206.34	758.65	206.21	174.00	32.21	6.402		
6,400.00	6,337.67	6,399.93	6,345.63	16.25	16.01	115.80	210.54	770.59	208.98	176.22	32.76	6.379		
6,500.00	6,436.61	6,499.94	6,445.44	16.54	16.18	119.42	214.77	770.03	211.47	178.31	33.16	6.377		
6,600.00	6,536.02	6,595.32	6,539.45	16.77	16.29	-169.81	218.78	754.94	215.68	182.32	33.36	6.465		
6,700.00	6,635.32	6,687.66	6,627.33	16.92	16.35	-101.65	222.55	727.11	222.05	188.66	33.39	6.651		
6,800.00	6,732.10	6,777.41	6,708.02	17.02	16.38	-85.51	226.03	688.14	229.94	196.66	33.28	6.909		
6,900.00	6,823.98	6,864.97	6,780.72	17.07	16.40	-77.13	229.20	639.55	238.64	205.56	33.08	7.214		
7,000.00	6,908.69	6,950.72	6,844.79	17.10	16.43	-71.45	232.01	582.75	247.47	214.63	32.83	7.537		
7,100.00	6,984.15	7,034.97	6,899.77	17.12	16.49	-67.28	234.45	519.04	255.82	223.20	32.61	7.844		
7,200.00	7,048.50	7,118.03	6,945.28	17.17	16.61	-64.20	236.50	449.65	263.18	230.70	32.48	8.103		
7,300.00	7,100.16	7,200.00	6,980.98	17.30	16.78	-61.99	238.14	375.94	269.18	236.66	32.52	8.278		
7,400.00	7,137.85	7,281.68	7,006.85	17.53	17.04	-60.52	239.38	298.54	273.50	240.73	32.77	8.346		
7,500.00	7,160.65	7,362.78	7,022.54	17.89	17.37	-59.73	240.18	219.03	275.97	242.70	33.26	8.297		
7,600.00	7,168.01	7,443.74	7,028.00	18.37	17.76	-59.58	240.56	138.31	276.47	242.49	33.98	8.136		
7,700.00	7,168.19	7,543.74	7,028.43	18.96	18.38	-59.62	240.75	38.31	276.33	241.37	34.96	7.904		
7,800.00	7,168.36	7,643.74	7,028.85	19.68	19.10	-59.66	240.95	-61.69	276.20	240.04	36.16	7.638		
7,900.00	7,168.54	7,743.74	7,029.27	20.51	19.94	-59.70	241.15	-161.68	276.06	238.49	37.57	7.349		
8,000.00	7,168.72	7,843.74	7,029.69	21.44	20.87	-59.74	241.34	-261.68	275.92	236.76	39.16	7.046		
8,100.00	7,168.90	7,943.74	7,030.12	22.45	21.90	-59.78	241.54	-361.68	275.79	234.87	40.92	6.740		
8,200.00	7,169.08	8,043.74	7,030.54	23.53	23.00	-59.83	241.73	-461.68	275.65	232.83	42.82	6.438		
8,300.00	7,169.26	8,143.74	7,030.96	24.68	24.16	-59.87	241.93	-561.68	275.51	230.67	44.84	6.144		
8,400.00	7,169.44	8,243.74	7,031.38	25.88	25.39	-59.91	242.12	-661.68	275.38	228.40	46.98	5.861		
8,500.00	7,169.62	8,343.73	7,031.81	27.14	26.66	-59.95	242.32	-761.68	275.24	226.03	49.21	5.593		
8,600.00	7,169.80	8,443.73	7,032.23	28.43	27.97	-60.00	242.51	-861.67	275.11	223.58	51.53	5.339		
8,700.00	7,169.98	8,543.73	7,032.65	29.77	29.32	-60.04	242.71	-961.67	274.97	221.05	53.92	5.100		
8,800.00	7,170.16	8,643.73	7,033.07	31.13	30.70	-60.08	242.91	-1,061.67	274.84	218.46	56.37	4.875		
8,900.00	7,170.34	8,743.73	7,033.50	32.53	32.11	-60.12	243.10	-1,161.67	274.70	215.82	58.88	4.665		
9,000.00	7,170.51	8,843.73	7,033.92	33.95	33.54	-60.16	243.30	-1,261.67	274.57	213.13	61.44	4.469		
9,100.00	7,170.69	8,943.73	7,034.34	35.39	34.99	-60.21	243.49	-1,361.67	274.43	210.39	64.04	4.285		
9,200.00	7,170.87	9,043.73	7,034.76	36.85	36.46	-60.25	243.69	-1,461.67	274.30	207.62	66.68	4.114		
9,300.00	7,171.05	9,143.73	7,035.18	38.32	37.95	-60.29	243.88	-1,561.66	274.16	204.81	69.36	3.953		
9,400.00	7,171.23	9,243.73	7,035.61	39.82	39.46	-60.33	244.08	-1,661.66	274.03	201.97	72.06	3.803		
9,500.00	7,171.41	9,343.73	7,036.03	41.32	40.97	-60.38	244.28	-1,761.66	273.89	199.10	74.80	3.662		
9,600.00	7,171.59	9,443.73	7,036.45	42.84	42.50	-60.42	244.47	-1,861.66	273.76	196.21	77.55	3.530		
9,700.00	7,171.77	9,543.73	7,036.87	44.37	44.04	-60.46	244.67	-1,961.66	273.63	193.29	80.33	3.406		
9,800.00	7,171.95	9,643.73	7,037.30	45.91	45.59	-60.51	244.86	-2,061.66	273.49	190.36	83.13	3.290		
9,900.00	7,172.13	9,743.73	7,037.72	47.46	47.15	-60.55	245.06	-2,161.66	273.36	187.40	85.95	3.180		
10,000.00	7,172.31	9,843.73	7,038.14	49.02	48.71	-60.59	245.25	-2,261.65	273.22	184.43	88.79	3.077		
10,100.00	7,172.49	9,943.73	7,038.56	50.58	50.28	-60.63	245.45	-2,361.65	273.09	181.45	91.64	2.980		
10,200.00	7,172.66	10,043.73	7,038.99	52.15	51.86	-60.68	245.65	-2,461.65	272.96	178.45	94.51	2.888		
10,300.00	7,172.84	10,143.73	7,039.41	53.73	53.44	-60.72	245.84	-2,561.65	272.83	175.44	97.39	2.801		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,173.02	10,243.73	7,039.83	55.31	55.03	-60.76	246.04	-2,661.65	272.69	172.41	100.28	2.719	
10,500.00	7,173.20	10,343.73	7,040.25	56.90	56.62	-60.81	246.23	-2,761.65	272.56	169.38	103.18	2.641	
10,600.00	7,173.38	10,443.73	7,040.68	58.49	58.22	-60.85	246.43	-2,861.65	272.43	166.33	106.10	2.568	
10,700.00	7,173.56	10,543.73	7,041.10	60.08	59.82	-60.89	246.62	-2,961.65	272.30	163.27	109.02	2.498	
10,800.00	7,173.74	10,643.73	7,041.52	61.68	61.43	-60.93	246.82	-3,061.64	272.16	160.21	111.95	2.431	
10,900.00	7,173.92	10,743.73	7,041.94	63.29	63.04	-60.98	247.02	-3,161.64	272.03	157.13	114.90	2.368	
11,000.00	7,174.10	10,843.73	7,042.37	64.90	64.65	-61.02	247.21	-3,261.64	271.90	154.05	117.85	2.307	
11,100.00	7,174.28	10,943.73	7,042.79	66.51	66.26	-61.06	247.41	-3,361.64	271.77	150.96	120.80	2.250	
11,200.00	7,174.46	11,043.73	7,043.21	68.12	67.88	-61.11	247.60	-3,461.64	271.64	147.87	123.77	2.195	
11,300.00	7,174.63	11,143.73	7,043.63	69.74	69.50	-61.15	247.80	-3,561.64	271.50	144.77	126.74	2.142	
11,400.00	7,174.81	11,243.73	7,044.06	71.35	71.12	-61.19	247.99	-3,661.64	271.37	141.66	129.72	2.092	
11,500.00	7,174.99	11,343.73	7,044.48	72.98	72.75	-61.24	248.19	-3,761.63	271.24	138.54	132.70	2.044	
11,600.00	7,175.17	11,443.73	7,044.90	74.60	74.38	-61.28	248.39	-3,861.63	271.11	135.42	135.69	1.998	
11,700.00	7,175.35	11,543.73	7,045.32	76.22	76.01	-61.32	248.58	-3,961.63	270.98	132.30	138.68	1.954	
11,800.00	7,175.53	11,643.73	7,045.75	77.85	77.64	-61.37	248.78	-4,061.63	270.85	129.16	141.69	1.912	
11,900.00	7,175.71	11,743.72	7,046.17	79.48	79.27	-61.41	248.97	-4,161.63	270.72	126.03	144.69	1.871	
12,000.00	7,175.89	11,843.72	7,046.59	81.11	80.90	-61.46	249.17	-4,261.63	270.59	122.89	147.70	1.832	
12,100.00	7,176.07	11,943.72	7,047.01	82.75	82.54	-61.50	249.36	-4,361.63	270.46	119.74	150.72	1.794	
12,200.00	7,176.25	12,043.72	7,047.44	84.38	84.18	-61.54	249.56	-4,461.62	270.33	116.59	153.74	1.758	
12,300.00	7,176.43	12,143.72	7,047.86	86.02	85.81	-61.59	249.76	-4,561.62	270.20	113.44	156.76	1.724	
12,400.00	7,176.61	12,243.72	7,048.28	87.65	87.45	-61.63	249.95	-4,661.62	270.07	110.28	159.79	1.690	
12,500.00	7,176.78	12,343.72	7,048.70	89.29	89.10	-61.67	250.15	-4,761.62	269.94	107.12	162.82	1.658	
12,600.00	7,176.96	12,443.72	7,049.13	90.93	90.74	-61.72	250.34	-4,861.62	269.81	103.95	165.86	1.627	
12,700.00	7,177.14	12,543.72	7,049.55	92.57	92.38	-61.76	250.54	-4,961.62	269.68	100.78	168.90	1.597	
12,800.00	7,177.32	12,643.72	7,049.97	94.21	94.02	-61.81	250.73	-5,061.62	269.55	97.61	171.94	1.568	
12,900.00	7,177.50	12,743.72	7,050.39	95.86	95.67	-61.85	250.93	-5,161.61	269.42	94.43	174.99	1.540	
13,000.00	7,177.68	12,843.72	7,050.82	97.50	97.32	-61.89	251.13	-5,261.61	269.29	91.25	178.04	1.513	
13,100.00	7,177.86	12,943.72	7,051.24	99.14	98.96	-61.94	251.32	-5,361.61	269.16	88.07	181.10	1.486 Level 3	
13,200.00	7,178.04	13,043.72	7,051.66	100.79	100.61	-61.98	251.52	-5,461.61	269.04	84.88	184.16	1.461 Level 3	
13,300.00	7,178.22	13,143.72	7,052.08	102.44	102.26	-62.03	251.71	-5,561.61	268.91	81.69	187.22	1.436 Level 3	
13,400.00	7,178.40	13,243.72	7,052.51	104.08	103.91	-62.07	251.91	-5,661.61	268.78	78.50	190.28	1.413 Level 3	
13,500.00	7,178.58	13,343.72	7,052.93	105.73	105.56	-62.12	252.10	-5,761.61	268.65	75.30	193.35	1.389 Level 3	
13,600.00	7,178.75	13,443.72	7,053.35	107.38	107.21	-62.16	252.30	-5,861.61	268.52	72.10	196.42	1.367 Level 3	
13,700.00	7,178.93	13,543.72	7,053.77	109.03	108.86	-62.20	252.50	-5,961.60	268.40	68.90	199.49	1.345 Level 3	
13,800.00	7,179.11	13,643.72	7,054.20	110.68	110.51	-62.25	252.69	-6,061.60	268.27	65.70	202.57	1.324 Level 3	
13,900.00	7,179.29	13,743.72	7,054.62	112.33	112.16	-62.29	252.89	-6,161.60	268.14	62.49	205.65	1.304 Level 3	
14,000.00	7,179.47	13,843.72	7,055.04	113.98	113.82	-62.34	253.08	-6,261.60	268.01	59.28	208.73	1.284 Level 3	
14,100.00	7,179.65	13,943.72	7,055.46	115.63	115.47	-62.38	253.28	-6,361.60	267.89	56.07	211.82	1.265 Level 3	
14,200.00	7,179.83	14,043.72	7,055.89	117.29	117.12	-62.43	253.47	-6,461.60	267.76	52.86	214.91	1.246 Level 2	
14,300.00	7,180.01	14,143.72	7,056.31	118.94	118.78	-62.47	253.67	-6,561.60	267.63	49.64	218.00	1.228 Level 2	
14,400.00	7,180.19	14,243.72	7,056.73	120.59	120.43	-62.52	253.86	-6,661.59	267.51	46.42	221.09	1.210 Level 2	
14,500.00	7,180.37	14,343.72	7,057.15	122.25	122.09	-62.56	254.06	-6,761.59	267.38	43.20	224.18	1.193 Level 2	
14,600.00	7,180.55	14,443.72	7,057.58	123.90	123.75	-62.61	254.26	-6,861.59	267.26	39.97	227.28	1.176 Level 2	
14,700.00	7,180.73	14,543.72	7,058.00	125.56	125.40	-62.65	254.45	-6,961.59	267.13	36.75	230.38	1.159 Level 2	
14,800.00	7,180.90	14,643.72	7,058.42	127.21	127.06	-62.69	254.65	-7,061.59	267.00	33.52	233.49	1.144 Level 2	
14,900.00	7,181.08	14,743.72	7,058.84	128.87	128.72	-62.74	254.84	-7,161.59	266.88	30.28	236.59	1.128 Level 2	
15,000.00	7,181.26	14,843.72	7,059.27	130.52	130.37	-62.78	255.04	-7,261.59	266.75	27.05	239.70	1.113 Level 2	
15,100.00	7,181.44	14,943.72	7,059.69	132.18	132.03	-62.83	255.23	-7,361.58	266.63	23.82	242.81	1.098 Level 2	
15,200.00	7,181.62	15,043.71	7,060.11	133.84	133.69	-62.87	255.43	-7,461.58	266.50	20.58	245.92	1.084 Level 2	
15,300.00	7,181.80	15,143.71	7,060.53	135.50	135.35	-62.92	255.63	-7,561.58	266.38	17.34	249.04	1.070 Level 2	
15,400.00	7,181.98	15,243.71	7,060.96	137.15	137.01	-62.96	255.82	-7,661.58	266.25	14.10	252.16	1.056 Level 2	
15,412.37	7,182.00	15,256.08	7,061.01	137.36	137.21	-62.97	255.85	-7,673.95	266.24	13.70	252.54	1.054 Level 2, ES, SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-160.29	1.11	160.29					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-160.29	1.11	160.29	152.76	7.53	21.291		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-160.29	1.11	160.29	152.72	7.57	21.164	CC, ES, SF	
300.00	299.98	296.51	296.50	3.35	3.34	118.55	-161.32	2.37	162.20	154.55	7.66	21.186		
400.00	399.84	392.82	392.67	3.42	3.40	118.68	-164.40	6.13	167.92	160.15	7.78	21.589		
500.00	499.45	488.71	488.22	3.51	3.48	118.88	-169.50	12.36	177.44	169.49	7.95	22.328		
600.00	598.70	583.98	582.83	3.63	3.59	119.10	-176.56	21.00	190.73	182.56	8.17	23.352		
700.00	697.66	679.28	677.06	3.78	3.73	119.31	-185.59	32.03	207.12	198.68	8.44	24.538		
800.00	796.60	777.81	774.30	3.95	3.91	119.31	-195.61	44.27	224.23	215.46	8.77	25.564		
900.00	895.55	876.33	871.55	4.15	4.11	119.31	-205.63	56.51	241.33	232.19	9.15	26.389		
1,000.00	994.50	974.86	968.80	4.37	4.34	119.31	-215.65	68.75	258.44	248.88	9.56	27.042		
1,100.00	1,093.45	1,073.39	1,066.05	4.60	4.59	119.32	-225.67	81.00	275.54	265.54	10.00	27.550		
1,200.00	1,192.39	1,171.91	1,163.30	4.85	4.85	119.32	-235.69	93.24	292.64	282.17	10.47	27.939		
1,300.00	1,291.34	1,270.44	1,260.54	5.10	5.13	119.32	-245.71	105.48	309.75	298.77	10.97	28.231		
1,400.00	1,390.29	1,368.97	1,357.79	5.37	5.42	119.32	-255.73	117.72	326.85	315.36	11.49	28.446		
1,500.00	1,489.24	1,467.49	1,455.04	5.65	5.71	119.32	-265.75	129.97	343.95	331.93	12.03	28.602		
1,600.00	1,588.18	1,566.02	1,552.29	5.94	6.02	119.32	-275.77	142.21	361.06	348.48	12.58	28.708		
1,700.00	1,687.13	1,664.55	1,649.54	6.23	6.34	119.32	-285.80	154.45	378.16	365.02	13.14	28.776		
1,800.00	1,786.08	1,763.07	1,746.78	6.53	6.66	119.32	-295.82	166.69	395.26	381.55	13.72	28.813		
1,900.00	1,885.03	1,861.60	1,844.03	6.69	6.89	119.33	-305.84	178.94	412.37	398.66	13.70	30.094		
2,000.00	1,983.97	1,960.13	1,941.28	6.72	6.98	119.33	-315.86	191.18	429.47	415.66	13.81	31.095		
2,100.00	2,082.92	2,058.65	2,038.53	6.77	7.03	119.33	-325.88	203.42	446.57	432.68	13.89	32.141		
2,200.00	2,181.87	2,157.18	2,135.78	6.83	7.09	119.33	-335.90	215.66	463.68	449.67	14.01	33.105		
2,300.00	2,280.82	2,255.70	2,233.03	6.91	7.16	119.33	-345.92	227.91	480.78	466.63	14.15	33.986		
2,400.00	2,379.76	2,354.23	2,330.27	7.00	7.26	119.33	-355.94	240.15	497.88	483.57	14.31	34.781		
2,500.00	2,478.71	2,452.76	2,427.52	7.10	7.36	119.33	-365.96	252.39	514.99	500.48	14.51	35.493		
2,600.00	2,577.66	2,551.28	2,524.77	7.22	7.48	119.33	-375.98	264.63	532.09	517.36	14.73	36.123		
2,700.00	2,676.61	2,649.81	2,622.02	7.34	7.61	119.33	-386.00	276.88	549.19	534.22	14.97	36.674		
2,800.00	2,775.55	2,748.34	2,719.27	7.48	7.76	119.33	-396.02	289.12	566.30	551.06	15.24	37.151		
2,900.00	2,874.50	2,846.86	2,816.51	7.63	7.91	119.33	-406.04	301.36	583.40	567.87	15.53	37.559		
3,000.00	2,973.45	2,945.39	2,913.76	7.79	8.08	119.33	-416.06	313.60	600.51	584.66	15.84	37.902		
3,100.00	3,072.40	3,043.92	3,011.01	7.96	8.26	119.33	-426.08	325.85	617.61	601.43	16.17	38.185		
3,200.00	3,171.34	3,142.44	3,108.26	8.13	8.44	119.33	-436.10	338.09	634.71	618.19	16.52	38.415		
3,300.00	3,270.29	3,240.97	3,205.51	8.32	8.64	119.33	-446.12	350.33	651.82	634.93	16.89	38.596		
3,400.00	3,369.24	3,339.50	3,302.75	8.51	8.84	119.33	-456.14	362.57	668.92	651.65	17.27	38.734		
3,500.00	3,468.19	3,438.02	3,400.00	8.71	9.06	119.33	-466.16	374.82	686.02	668.36	17.67	38.833		
3,600.00	3,567.13	3,536.55	3,497.25	8.92	9.28	119.33	-476.18	387.06	703.13	685.05	18.08	38.897		
3,700.00	3,666.08	3,635.08	3,594.50	9.14	9.50	119.33	-486.20	399.30	720.23	701.73	18.50	38.931		
3,800.00	3,765.03	3,733.60	3,691.75	9.36	9.73	119.33	-496.22	411.54	737.33	718.40	18.94	38.939		
3,900.00	3,863.98	3,832.13	3,788.99	9.58	9.97	119.33	-506.24	423.79	754.44	735.05	19.38	38.924		
4,000.00	3,962.92	3,930.65	3,886.24	9.81	10.22	119.33	-516.26	436.03	771.54	751.70	19.84	38.890		
4,100.00	4,061.87	4,029.18	3,983.49	10.05	10.46	119.34	-526.28	448.27	788.64	768.34	20.31	38.838		
4,200.00	4,160.82	4,127.71	4,080.74	10.29	10.72	119.34	-536.30	460.51	805.75	784.97	20.78	38.771		
4,300.00	4,259.77	4,226.23	4,177.99	10.53	10.98	119.34	-546.32	472.76	822.85	801.58	21.27	38.692		
4,400.00	4,358.71	4,324.76	4,275.23	10.78	11.24	119.34	-556.34	485.00	839.95	818.20	21.76	38.603		
4,500.00	4,457.66	4,423.29	4,372.48	11.03	11.50	119.34	-566.37	497.24	857.06	834.80	22.26	38.505		
4,600.00	4,556.61	4,521.81	4,469.73	11.28	11.77	119.34	-576.39	509.48	874.16	851.40	22.76	38.399		
4,700.00	4,655.56	4,620.34	4,566.98	11.54	12.05	119.34	-586.41	521.73	891.26	867.99	23.28	38.288		
4,800.00	4,754.50	4,718.87	4,664.23	11.80	12.32	119.34	-596.43	533.97	908.37	884.57	23.80	38.172		
4,900.00	4,853.45	4,817.39	4,761.47	12.07	12.60	119.34	-606.45	546.21	925.47	901.15	24.32	38.052		
5,000.00	4,952.40	4,915.92	4,858.72	12.33	12.88	119.34	-616.47	558.45	942.58	917.72	24.85	37.929		
5,100.00	5,051.35	5,014.45	4,955.97	12.60	13.16	119.34	-626.49	570.70	959.68	934.29	25.39	37.805		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,150.29	5,112.97	5,053.22	12.87	13.45	119.34	-636.51	582.94	976.78	950.86	25.92	37.678	
5,300.00	5,249.24	5,211.50	5,150.47	13.14	13.74	119.34	-646.53	595.18	993.89	967.42	26.47	37.551	
5,400.00	5,348.19	5,310.03	5,247.72	13.42	14.03	119.34	-656.55	607.42	1,010.99	983.97	27.02	37.423	
5,500.00	5,447.14	5,408.55	5,344.96	13.69	14.32	119.34	-666.57	619.67	1,028.09	1,000.53	27.57	37.295	
5,600.00	5,546.08	5,507.08	5,442.21	13.97	14.62	119.34	-676.59	631.91	1,045.20	1,017.07	28.12	37.167	
5,700.00	5,645.03	5,605.61	5,539.46	14.25	14.91	119.34	-686.61	644.15	1,062.30	1,033.62	28.68	37.040	
5,800.00	5,743.98	5,704.13	5,636.71	14.53	15.21	119.34	-696.63	656.39	1,079.40	1,050.16	29.24	36.914	
5,900.00	5,842.93	5,802.66	5,733.96	14.82	15.51	119.34	-706.65	668.64	1,096.51	1,066.70	29.81	36.788	
6,000.00	5,941.87	5,901.18	5,831.20	15.10	15.81	119.34	-716.67	680.88	1,113.61	1,083.24	30.37	36.664	
6,100.00	6,040.82	5,999.71	5,928.45	15.39	16.11	119.34	-726.69	693.12	1,130.71	1,099.77	30.94	36.542	
6,200.00	6,139.77	6,101.76	6,025.70	15.67	16.43	119.34	-736.71	705.36	1,147.82	1,116.29	31.53	36.409	
6,300.00	6,238.72	6,196.76	6,122.95	15.96	16.72	119.34	-746.73	717.61	1,164.92	1,132.83	32.09	36.301	
6,400.00	6,337.67	6,304.71	6,220.20	16.25	17.06	119.34	-756.75	729.85	1,182.02	1,149.33	32.70	36.152	
6,500.00	6,436.61	6,406.18	6,317.44	16.54	17.37	119.34	-766.77	742.09	1,199.13	1,165.84	33.28	36.027	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.54	-140.25	1.11	140.26					
100.00	100.00	100.00	100.00	3.28	3.28	179.54	-140.25	1.11	140.26	132.73	7.53	18.629		
200.00	200.00	200.00	200.00	3.31	3.31	179.54	-140.25	1.11	140.26	132.68	7.57	18.519	CC, ES	
300.00	299.98	297.58	297.56	3.35	3.35	118.44	-141.07	2.56	141.94	134.28	7.66	18.537		
400.00	399.84	395.00	394.85	3.42	3.41	118.42	-143.53	6.88	146.99	139.21	7.78	18.889		
500.00	499.45	492.09	491.58	3.51	3.49	118.38	-147.60	14.05	155.39	147.43	7.95	19.535		
600.00	598.70	588.70	587.51	3.63	3.60	118.33	-153.26	24.01	167.11	158.93	8.18	20.425		
700.00	697.66	687.19	685.02	3.78	3.74	118.43	-160.12	36.08	181.01	172.54	8.47	21.378		
800.00	796.60	786.21	783.04	3.95	3.92	118.55	-167.04	48.27	194.96	186.16	8.80	22.154		
900.00	895.55	885.24	881.06	4.15	4.11	118.66	-173.97	60.46	208.91	199.74	9.18	22.768		
1,000.00	994.50	984.26	979.09	4.37	4.33	118.75	-180.89	72.66	222.87	213.28	9.59	23.244		
1,100.00	1,093.45	1,083.28	1,077.11	4.60	4.56	118.83	-187.82	84.85	236.82	226.79	10.03	23.606		
1,200.00	1,192.39	1,182.30	1,175.13	4.85	4.81	118.90	-194.75	97.04	250.77	240.27	10.50	23.874		
1,300.00	1,291.34	1,281.32	1,273.16	5.10	5.07	118.97	-201.67	109.23	264.73	253.73	11.00	24.067		
1,400.00	1,390.29	1,380.34	1,371.18	5.37	5.34	119.02	-208.60	121.42	278.68	267.17	11.52	24.201		
1,500.00	1,489.24	1,479.36	1,469.21	5.65	5.62	119.08	-215.52	133.61	292.64	280.59	12.05	24.290		
1,600.00	1,588.18	1,578.38	1,567.23	5.94	5.91	119.12	-222.45	145.80	306.59	294.00	12.60	24.340		
1,700.00	1,687.13	1,677.40	1,665.25	6.23	6.21	119.17	-229.37	157.99	320.55	307.39	13.16	24.362		
1,800.00	1,786.08	1,776.43	1,763.28	6.53	6.51	119.21	-236.30	170.18	334.50	320.77	13.73	24.363		
1,900.00	1,885.03	1,875.45	1,861.30	6.69	6.71	119.24	-243.22	182.37	348.46	334.77	13.69	25.449		
2,000.00	1,983.97	1,974.47	1,959.32	6.72	6.77	119.28	-250.15	194.56	362.42	348.63	13.78	26.297		
2,100.00	2,082.92	2,073.49	2,057.35	6.77	6.81	119.31	-257.07	206.76	376.37	362.51	13.87	27.145		
2,200.00	2,181.87	2,172.51	2,155.37	6.83	6.87	119.34	-264.00	218.95	390.33	376.35	13.98	27.924		
2,300.00	2,280.82	2,271.53	2,253.39	6.91	6.95	119.37	-270.92	231.14	404.28	390.16	14.12	28.634		
2,400.00	2,379.76	2,370.55	2,351.42	7.00	7.03	119.39	-277.85	243.33	418.24	403.95	14.29	29.274		
2,500.00	2,478.71	2,469.57	2,449.44	7.10	7.13	119.41	-284.78	255.52	432.20	417.71	14.48	29.844		
2,600.00	2,577.66	2,568.60	2,547.46	7.22	7.25	119.44	-291.70	267.71	446.15	431.45	14.70	30.348		
2,700.00	2,676.61	2,667.62	2,645.49	7.34	7.37	119.46	-298.63	279.90	460.11	445.16	14.95	30.786		
2,800.00	2,775.55	2,766.64	2,743.51	7.48	7.51	119.48	-305.55	292.09	474.07	458.85	15.21	31.164		
2,900.00	2,874.50	2,865.66	2,841.54	7.63	7.66	119.49	-312.48	304.28	488.02	472.52	15.50	31.485		
3,000.00	2,973.45	2,964.68	2,939.56	7.79	7.82	119.51	-319.40	316.47	501.98	486.17	15.81	31.753		
3,100.00	3,072.40	3,063.70	3,037.58	7.96	7.99	119.53	-326.33	328.66	515.94	499.80	16.14	31.972		
3,200.00	3,171.34	3,162.72	3,135.61	8.13	8.17	119.54	-333.25	340.86	529.89	513.41	16.48	32.147		
3,300.00	3,270.29	3,261.74	3,233.63	8.32	8.35	119.56	-340.18	353.05	543.85	527.00	16.85	32.283		
3,400.00	3,369.24	3,360.76	3,331.65	8.51	8.55	119.57	-347.10	365.24	557.81	540.58	17.22	32.384		
3,500.00	3,468.19	3,459.79	3,429.68	8.71	8.75	119.59	-354.03	377.43	571.76	554.14	17.62	32.453		
3,600.00	3,567.13	3,558.81	3,527.70	8.92	8.96	119.60	-360.95	389.62	585.72	567.69	18.03	32.494		
3,700.00	3,666.08	3,657.83	3,625.72	9.14	9.18	119.61	-367.88	401.81	599.68	581.23	18.45	32.510		
3,800.00	3,765.03	3,756.85	3,723.75	9.36	9.40	119.62	-374.81	414.00	613.63	594.75	18.88	32.506		
3,900.00	3,863.98	3,855.87	3,821.77	9.58	9.63	119.63	-381.73	426.19	627.59	608.27	19.32	32.483		
4,000.00	3,962.92	3,954.89	3,919.79	9.81	9.86	119.64	-388.66	438.38	641.55	621.77	19.77	32.444		
4,100.00	4,061.87	4,053.91	4,017.82	10.05	10.10	119.65	-395.58	450.57	655.50	635.27	20.24	32.391		
4,200.00	4,160.82	4,152.93	4,115.84	10.29	10.34	119.66	-402.51	462.76	669.46	648.75	20.71	32.326		
4,300.00	4,259.77	4,251.96	4,213.86	10.53	10.59	119.67	-409.43	474.95	683.42	662.23	21.19	32.252		
4,400.00	4,358.71	4,350.98	4,311.89	10.78	10.84	119.68	-416.36	487.15	697.37	675.70	21.68	32.170		
4,500.00	4,457.66	4,450.00	4,409.91	11.03	11.10	119.69	-423.28	499.34	711.33	689.16	22.17	32.080		
4,600.00	4,556.61	4,549.02	4,507.94	11.28	11.35	119.70	-430.21	511.53	725.29	702.61	22.68	31.985		
4,700.00	4,655.56	4,648.04	4,605.96	11.54	11.62	119.71	-437.13	523.72	739.24	716.06	23.18	31.886		
4,800.00	4,754.50	4,747.06	4,703.98	11.80	11.88	119.72	-444.06	535.91	753.20	729.50	23.70	31.782		
4,900.00	4,853.45	4,846.08	4,802.01	12.07	12.15	119.72	-450.98	548.10	767.16	742.94	24.22	31.676		
5,000.00	4,952.40	4,945.10	4,900.03	12.33	12.42	119.73	-457.91	560.29	781.12	756.37	24.74	31.568		
5,100.00	5,051.35	5,044.12	4,998.05	12.60	12.69	119.74	-464.84	572.48	795.07	769.80	25.27	31.458		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,143.15	5,096.08	12.87	12.97	119.74	-471.76	584.67	809.03	783.22	25.81	31.347		
5,300.00	5,249.24	5,242.17	5,194.10	13.14	13.24	119.75	-478.69	596.86	822.99	796.64	26.35	31.236		
5,400.00	5,348.19	5,341.19	5,292.12	13.42	13.52	119.76	-485.61	609.05	836.94	810.05	26.89	31.124		
5,500.00	5,447.14	5,440.21	5,390.15	13.69	13.80	119.76	-492.54	621.25	850.90	823.46	27.44	31.013		
5,600.00	5,546.08	5,539.23	5,488.17	13.97	14.09	119.77	-499.46	633.44	864.86	836.87	27.99	30.902		
5,700.00	5,645.03	5,638.25	5,586.19	14.25	14.37	119.77	-506.39	645.63	878.82	850.27	28.54	30.791		
5,800.00	5,743.98	5,737.27	5,684.22	14.53	14.66	119.78	-513.31	657.82	892.77	863.67	29.10	30.682		
5,900.00	5,842.93	5,836.29	5,782.24	14.82	14.94	119.78	-520.24	670.01	906.73	877.07	29.66	30.574		
6,000.00	5,941.87	5,935.32	5,880.26	15.10	15.23	119.79	-527.16	682.20	920.69	890.47	30.22	30.466		
6,100.00	6,040.82	6,034.34	5,978.29	15.39	15.52	119.79	-534.09	694.39	934.64	903.86	30.78	30.360		
6,200.00	6,139.77	6,133.36	6,076.31	15.67	15.81	119.80	-541.01	706.58	948.60	917.25	31.35	30.256		
6,300.00	6,238.72	6,232.38	6,174.34	15.96	16.11	119.80	-547.94	718.77	962.56	930.64	31.92	30.153		
6,400.00	6,337.67	6,331.40	6,272.36	16.25	16.40	119.81	-554.87	730.96	976.52	944.02	32.49	30.051		
6,500.00	6,436.61	6,430.42	6,370.38	16.54	16.70	119.81	-561.79	743.15	990.47	957.40	33.07	29.951		
6,600.00	6,536.02	6,529.21	6,468.18	16.77	16.99	-174.83	-568.70	755.32	1,004.36	970.78	33.58	29.913		
6,700.00	6,635.32	6,625.88	6,563.97	16.92	17.25	-112.28	-575.47	766.29	1,018.12	984.15	33.96	29.978		
6,800.00	6,732.10	6,723.61	6,661.36	17.02	17.41	-101.30	-582.32	765.55	1,031.96	997.75	34.21	30.166		
6,900.00	6,823.98	6,825.16	6,761.20	17.07	17.53	-97.43	-589.32	748.98	1,045.62	1,011.25	34.37	30.425		
7,000.00	6,908.69	6,931.02	6,861.09	17.10	17.60	-95.58	-596.29	715.02	1,058.74	1,024.28	34.46	30.727		
7,100.00	6,984.15	7,041.60	6,957.93	17.12	17.63	-94.60	-603.01	662.36	1,070.92	1,036.40	34.52	31.026		
7,200.00	7,048.50	7,157.14	7,047.83	17.17	17.64	-94.09	-609.20	590.30	1,081.75	1,047.13	34.61	31.253		
7,300.00	7,100.16	7,277.60	7,126.13	17.30	17.64	-93.85	-614.54	499.15	1,090.79	1,055.96	34.84	31.313		
7,400.00	7,137.85	7,402.55	7,187.78	17.53	17.69	-93.78	-618.68	390.78	1,097.66	1,062.38	35.28	31.114		
7,500.00	7,160.65	7,531.10	7,227.95	17.89	17.85	-93.81	-621.28	268.92	1,102.01	1,065.99	36.02	30.591		
7,600.00	7,168.01	7,661.89	7,242.95	18.37	18.24	-93.89	-622.09	139.23	1,103.59	1,066.53	37.06	29.775		
7,700.00	7,168.19	7,763.87	7,242.98	18.96	18.75	-93.89	-621.90	37.25	1,103.57	1,065.35	38.23	28.870		
7,800.00	7,168.36	7,863.87	7,242.95	19.68	19.41	-93.88	-621.71	-62.75	1,103.55	1,063.93	39.61	27.857		
7,900.00	7,168.54	7,963.87	7,242.93	20.51	20.21	-93.87	-621.52	-162.75	1,103.52	1,062.29	41.23	26.765		
8,000.00	7,168.72	8,063.87	7,242.90	21.44	21.11	-93.85	-621.33	-262.75	1,103.50	1,060.45	43.05	25.634		
8,100.00	7,168.90	8,163.87	7,242.88	22.45	22.11	-93.84	-621.13	-362.75	1,103.47	1,058.43	45.04	24.498		
8,200.00	7,169.08	8,263.87	7,242.85	23.53	23.19	-93.83	-620.94	-462.75	1,103.45	1,056.25	47.19	23.381		
8,300.00	7,169.26	8,363.87	7,242.83	24.68	24.34	-93.82	-620.75	-562.75	1,103.42	1,053.95	49.48	22.302		
8,400.00	7,169.44	8,463.87	7,242.80	25.88	25.54	-93.81	-620.56	-662.75	1,103.40	1,051.52	51.88	21.270		
8,500.00	7,169.62	8,563.87	7,242.78	27.14	26.79	-93.80	-620.37	-762.75	1,103.37	1,049.00	54.38	20.291		
8,600.00	7,169.80	8,663.87	7,242.75	28.43	28.09	-93.79	-620.18	-862.75	1,103.35	1,046.38	56.96	19.369		
8,700.00	7,169.98	8,763.87	7,242.72	29.77	29.42	-93.78	-619.99	-962.75	1,103.32	1,043.70	59.63	18.503		
8,800.00	7,170.16	8,863.87	7,242.70	31.13	30.79	-93.77	-619.80	-1,062.75	1,103.30	1,040.94	62.36	17.693		
8,900.00	7,170.34	8,963.87	7,242.67	32.53	32.19	-93.76	-619.61	-1,162.75	1,103.27	1,038.13	65.14	16.936		
9,000.00	7,170.51	9,063.87	7,242.65	33.95	33.61	-93.75	-619.42	-1,262.75	1,103.25	1,035.27	67.98	16.229		
9,100.00	7,170.69	9,163.87	7,242.62	35.39	35.05	-93.74	-619.22	-1,362.75	1,103.22	1,032.36	70.86	15.568		
9,200.00	7,170.87	9,263.87	7,242.60	36.85	36.51	-93.73	-619.03	-1,462.75	1,103.20	1,029.42	73.78	14.952		
9,300.00	7,171.05	9,363.87	7,242.57	38.32	37.99	-93.72	-618.84	-1,562.75	1,103.18	1,026.44	76.74	14.376		
9,400.00	7,171.23	9,463.87	7,242.54	39.82	39.49	-93.71	-618.65	-1,662.75	1,103.15	1,023.43	79.72	13.837		
9,500.00	7,171.41	9,563.87	7,242.52	41.32	40.99	-93.70	-618.46	-1,762.75	1,103.13	1,020.39	82.74	13.333		
9,600.00	7,171.59	9,663.87	7,242.49	42.84	42.51	-93.69	-618.27	-1,862.74	1,103.10	1,017.33	85.78	12.860		
9,700.00	7,171.77	9,763.87	7,242.47	44.37	44.05	-93.67	-618.08	-1,962.74	1,103.08	1,014.24	88.84	12.417		
9,800.00	7,171.95	9,863.87	7,242.44	45.91	45.59	-93.66	-617.89	-2,062.74	1,103.05	1,011.14	91.92	12.001		
9,900.00	7,172.13	9,963.87	7,242.42	47.46	47.14	-93.65	-617.70	-2,162.74	1,103.03	1,008.02	95.01	11.609		
10,000.00	7,172.31	10,063.87	7,242.39	49.02	48.69	-93.64	-617.50	-2,262.74	1,103.00	1,004.88	98.13	11.241		
10,100.00	7,172.49	10,163.86	7,242.36	50.58	50.26	-93.63	-617.31	-2,362.74	1,102.98	1,001.72	101.26	10.893		
10,200.00	7,172.66	10,263.86	7,242.34	52.15	51.83	-93.62	-617.12	-2,462.74	1,102.96	998.56	104.40	10.565		
10,300.00	7,172.84	10,363.86	7,242.31	53.73	53.41	-93.61	-616.93	-2,562.74	1,102.93	995.38	107.55	10.255		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,173.02	10,463.86	7,242.29	55.31	54.99	-93.60	-616.74	-2,662.74	1,102.91	992.19	110.72	9.962		
10,500.00	7,173.20	10,563.86	7,242.26	56.90	56.58	-93.59	-616.55	-2,762.74	1,102.88	988.99	113.89	9.684		
10,600.00	7,173.38	10,663.86	7,242.24	58.49	58.17	-93.58	-616.36	-2,862.74	1,102.86	985.78	117.08	9.420		
10,700.00	7,173.56	10,763.86	7,242.21	60.08	59.77	-93.57	-616.17	-2,962.74	1,102.84	982.57	120.27	9.170		
10,800.00	7,173.74	10,863.86	7,242.18	61.68	61.37	-93.56	-615.98	-3,062.74	1,102.81	979.34	123.47	8.932		
10,900.00	7,173.92	10,963.86	7,242.16	63.29	62.98	-93.55	-615.79	-3,162.74	1,102.79	976.11	126.68	8.705		
11,000.00	7,174.10	11,063.86	7,242.13	64.90	64.59	-93.54	-615.59	-3,262.74	1,102.76	972.87	129.89	8.490		
11,100.00	7,174.28	11,163.86	7,242.11	66.51	66.20	-93.53	-615.40	-3,362.74	1,102.74	969.63	133.11	8.284		
11,200.00	7,174.46	11,263.86	7,242.08	68.12	67.81	-93.52	-615.21	-3,462.74	1,102.72	966.37	136.34	8.088		
11,300.00	7,174.63	11,363.86	7,242.06	69.74	69.43	-93.51	-615.02	-3,562.74	1,102.69	963.12	139.57	7.900		
11,400.00	7,174.81	11,463.86	7,242.03	71.35	71.05	-93.49	-614.83	-3,662.74	1,102.67	959.86	142.81	7.721		
11,500.00	7,174.99	11,563.86	7,242.00	72.98	72.67	-93.48	-614.64	-3,762.74	1,102.64	956.59	146.05	7.550		
11,600.00	7,175.17	11,663.86	7,241.98	74.60	74.29	-93.47	-614.45	-3,862.74	1,102.62	953.32	149.30	7.385		
11,700.00	7,175.35	11,763.86	7,241.95	76.22	75.92	-93.46	-614.26	-3,962.74	1,102.60	950.04	152.55	7.228		
11,800.00	7,175.53	11,863.86	7,241.93	77.85	77.55	-93.45	-614.07	-4,062.74	1,102.57	946.77	155.81	7.077		
11,900.00	7,175.71	11,963.86	7,241.90	79.48	79.18	-93.44	-613.87	-4,162.74	1,102.55	943.48	159.07	6.931		
12,000.00	7,175.89	12,063.86	7,241.88	81.11	80.81	-93.43	-613.68	-4,262.74	1,102.53	940.20	162.33	6.792		
12,100.00	7,176.07	12,163.86	7,241.85	82.75	82.44	-93.42	-613.49	-4,362.73	1,102.50	936.91	165.59	6.658		
12,200.00	7,176.25	12,263.86	7,241.82	84.38	84.08	-93.41	-613.30	-4,462.73	1,102.48	933.62	168.86	6.529		
12,300.00	7,176.43	12,363.86	7,241.80	86.02	85.71	-93.40	-613.11	-4,562.73	1,102.46	930.32	172.13	6.405		
12,400.00	7,176.61	12,463.86	7,241.77	87.65	87.35	-93.39	-612.92	-4,662.73	1,102.43	927.03	175.41	6.285		
12,500.00	7,176.78	12,563.86	7,241.75	89.29	88.99	-93.38	-612.73	-4,762.73	1,102.41	923.73	178.68	6.170		
12,600.00	7,176.96	12,663.86	7,241.72	90.93	90.63	-93.37	-612.54	-4,862.73	1,102.39	920.42	181.96	6.058		
12,700.00	7,177.14	12,763.86	7,241.70	92.57	92.27	-93.36	-612.35	-4,962.73	1,102.36	917.12	185.24	5.951		
12,800.00	7,177.32	12,863.86	7,241.67	94.21	93.91	-93.35	-612.16	-5,062.73	1,102.34	913.81	188.53	5.847		
12,900.00	7,177.50	12,963.86	7,241.64	95.86	95.56	-93.34	-611.96	-5,162.73	1,102.32	910.50	191.81	5.747		
13,000.00	7,177.68	13,063.86	7,241.62	97.50	97.20	-93.33	-611.77	-5,262.73	1,102.29	907.19	195.10	5.650		
13,100.00	7,177.86	13,163.86	7,241.59	99.14	98.85	-93.31	-611.58	-5,362.73	1,102.27	903.88	198.39	5.556		
13,200.00	7,178.04	13,263.86	7,241.57	100.79	100.49	-93.30	-611.39	-5,462.73	1,102.25	900.57	201.68	5.465		
13,300.00	7,178.22	13,363.86	7,241.54	102.44	102.14	-93.29	-611.20	-5,562.73	1,102.22	897.25	204.97	5.377		
13,400.00	7,178.40	13,463.86	7,241.52	104.08	103.79	-93.28	-611.01	-5,662.73	1,102.20	893.93	208.27	5.292		
13,500.00	7,178.58	13,563.86	7,241.49	105.73	105.44	-93.27	-610.82	-5,762.73	1,102.18	890.61	211.57	5.210		
13,600.00	7,178.75	13,663.86	7,241.46	107.38	107.08	-93.26	-610.63	-5,862.73	1,102.16	887.29	214.86	5.130		
13,700.00	7,178.93	13,763.86	7,241.44	109.03	108.73	-93.25	-610.44	-5,962.73	1,102.13	883.97	218.16	5.052		
13,800.00	7,179.11	13,863.86	7,241.41	110.68	110.39	-93.24	-610.24	-6,062.73	1,102.11	880.65	221.46	4.977		
13,900.00	7,179.29	13,963.86	7,241.39	112.33	112.04	-93.23	-610.05	-6,162.73	1,102.09	877.32	224.76	4.903		
14,000.00	7,179.47	14,063.86	7,241.36	113.98	113.69	-93.22	-609.86	-6,262.73	1,102.06	874.00	228.07	4.832		
14,100.00	7,179.65	14,163.86	7,241.34	115.63	115.34	-93.21	-609.67	-6,362.73	1,102.04	870.67	231.37	4.763		
14,200.00	7,179.83	14,263.86	7,241.31	117.29	116.99	-93.20	-609.48	-6,462.73	1,102.02	867.34	234.68	4.696		
14,300.00	7,180.01	14,363.86	7,241.28	118.94	118.65	-93.19	-609.29	-6,562.73	1,102.00	864.01	237.98	4.631		
14,400.00	7,180.19	14,463.86	7,241.26	120.59	120.30	-93.18	-609.10	-6,662.73	1,101.97	860.68	241.29	4.567		
14,500.00	7,180.37	14,563.86	7,241.23	122.25	121.96	-93.17	-608.91	-6,762.73	1,101.95	857.35	244.60	4.505		
14,600.00	7,180.55	14,663.86	7,241.21	123.90	123.61	-93.16	-608.72	-6,862.73	1,101.93	854.02	247.91	4.445		
14,700.00	7,180.73	14,763.86	7,241.18	125.56	125.27	-93.15	-608.53	-6,962.72	1,101.91	850.69	251.22	4.386		
14,800.00	7,180.90	14,863.86	7,241.16	127.21	126.92	-93.13	-608.33	-7,062.72	1,101.88	847.35	254.53	4.329		
14,900.00	7,181.08	14,963.86	7,241.13	128.87	128.58	-93.12	-608.14	-7,162.72	1,101.86	844.02	257.84	4.273		
15,000.00	7,181.26	15,063.85	7,241.10	130.52	130.23	-93.11	-607.95	-7,262.72	1,101.84	840.68	261.15	4.219		
15,100.00	7,181.44	15,163.85	7,241.08	132.18	131.89	-93.10	-607.76	-7,362.72	1,101.82	837.35	264.47	4.166		
15,200.00	7,181.62	15,263.85	7,241.05	133.84	133.55	-93.09	-607.57	-7,462.72	1,101.79	834.01	267.78	4.115		
15,300.00	7,181.80	15,363.85	7,241.03	135.50	135.21	-93.08	-607.38	-7,562.72	1,101.77	830.67	271.10	4.064		
15,400.00	7,181.98	15,463.85	7,241.00	137.15	136.86	-93.07	-607.19	-7,662.72	1,101.75	827.34	274.41	4.015		
15,412.37	7,182.00	15,476.22	7,241.00	137.36	137.07	-93.07	-607.16	-7,675.09	1,101.75	826.93	274.82	4.009 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.63	-260.10	1.67	260.11					
100.00	100.00	100.00	100.00	3.28	3.28	179.63	-260.10	1.67	260.11	252.58	7.53	34.548		
200.00	200.00	200.00	200.00	3.31	3.31	179.63	-260.10	1.67	260.11	252.53	7.57	34.343 CC, ES		
300.00	299.98	296.21	296.21	3.35	3.35	118.79	-260.44	1.84	261.31	253.65	7.66	34.123 SF		
400.00	399.84	388.42	388.37	3.42	3.40	119.32	-263.09	3.16	266.73	258.96	7.77	34.314		
500.00	499.45	480.11	479.86	3.51	3.47	120.04	-268.37	5.79	276.76	268.83	7.93	34.897		
600.00	598.70	570.95	570.28	3.63	3.56	120.89	-276.18	9.69	291.41	283.28	8.13	35.829		
700.00	697.66	660.84	659.43	3.78	3.67	121.89	-286.42	14.79	310.04	301.66	8.38	37.006		
800.00	796.60	749.88	747.35	3.95	3.82	122.58	-299.03	21.08	331.41	322.75	8.66	38.284		
900.00	895.55	837.93	833.81	4.15	3.99	122.94	-313.90	28.50	355.38	346.41	8.97	39.620		
1,000.00	994.50	924.82	918.60	4.37	4.21	123.04	-330.90	36.97	381.89	372.57	9.32	40.995		
1,100.00	1,093.45	1,010.44	1,001.54	4.60	4.45	122.93	-349.90	46.44	410.86	401.17	9.69	42.402		
1,200.00	1,192.39	1,100.03	1,087.71	4.85	4.75	122.66	-371.82	57.37	441.96	431.84	10.12	43.673		
1,300.00	1,291.34	1,205.07	1,178.91	5.10	5.14	122.38	-395.34	69.10	473.40	462.76	10.64	44.491		
1,400.00	1,390.29	1,289.84	1,270.10	5.37	5.47	122.14	-418.87	80.83	504.84	493.71	11.13	45.356		
1,500.00	1,489.24	1,384.75	1,361.30	5.65	5.87	121.93	-442.39	92.56	536.29	524.62	11.67	45.938		
1,600.00	1,588.18	1,479.66	1,452.49	5.94	6.28	121.74	-465.92	104.29	567.74	555.52	12.23	46.424		
1,700.00	1,687.13	1,574.57	1,543.69	6.23	6.70	121.58	-489.45	116.02	599.20	586.40	12.81	46.781		
1,800.00	1,786.08	1,669.48	1,634.88	6.53	7.13	121.43	-512.97	127.75	630.67	617.27	13.40	47.064		
1,900.00	1,885.03	1,764.38	1,726.08	6.69	7.57	121.29	-536.50	139.48	662.14	648.47	13.67	48.432		
2,000.00	1,983.97	1,859.29	1,817.27	6.72	7.90	121.16	-560.02	151.21	693.61	679.84	13.76	50.394		
2,100.00	2,082.92	1,954.20	1,908.47	6.77	8.04	121.05	-583.55	162.94	725.08	711.18	13.90	52.154		
2,200.00	2,181.87	2,049.11	1,999.66	6.83	8.12	120.95	-607.08	174.67	756.56	742.55	14.00	54.023		
2,300.00	2,280.82	2,144.02	2,090.86	6.91	8.22	120.85	-630.60	186.40	788.04	773.90	14.14	55.738		
2,400.00	2,379.76	2,238.93	2,182.06	7.00	8.34	120.76	-654.13	198.12	819.52	805.21	14.30	57.296		
2,500.00	2,478.71	2,333.84	2,273.25	7.10	8.47	120.68	-677.65	209.85	851.00	836.50	14.50	58.697		
2,600.00	2,577.66	2,428.74	2,364.45	7.22	8.63	120.60	-701.18	221.58	882.48	867.76	14.72	59.943		
2,700.00	2,676.61	2,523.65	2,455.64	7.34	8.80	120.53	-724.70	233.31	913.97	898.99	14.97	61.039		
2,800.00	2,775.55	2,618.56	2,546.84	7.48	8.99	120.46	-748.23	245.04	945.45	930.20	15.25	61.993		
2,900.00	2,874.50	2,713.47	2,638.03	7.63	9.19	120.40	-771.76	256.77	976.94	961.38	15.55	62.813		
3,000.00	2,973.45	2,808.38	2,729.23	7.79	9.41	120.34	-795.28	268.50	1,008.43	992.55	15.88	63.509		
3,100.00	3,072.40	2,903.29	2,820.42	7.96	9.64	120.29	-818.81	280.23	1,039.91	1,023.69	16.23	64.090		
3,200.00	3,171.34	2,998.19	2,911.62	8.13	9.88	120.24	-842.33	291.96	1,071.40	1,054.81	16.59	64.568		
3,300.00	3,270.29	3,106.90	3,002.81	8.32	10.17	120.19	-865.86	303.69	1,102.89	1,085.88	17.01	64.832		
3,400.00	3,369.24	3,188.01	3,094.01	8.51	10.40	120.14	-889.38	315.42	1,134.38	1,117.00	17.39	65.250		
3,500.00	3,468.19	3,282.92	3,185.20	8.71	10.68	120.10	-912.91	327.15	1,165.87	1,148.07	17.81	65.476		
3,600.00	3,567.13	3,377.83	3,276.40	8.92	10.96	120.06	-936.44	338.88	1,197.37	1,179.12	18.24	65.637		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-240.07	1.67	240.08					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-240.07	1.67	240.08	232.55	7.53	31.887		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-240.07	1.67	240.08	232.50	7.57	31.698 CC, ES		
300.00	299.98	293.14	293.12	3.35	3.34	118.62	-241.39	2.42	242.33	234.67	7.65	31.662 SF		
400.00	399.84	385.97	385.84	3.42	3.40	118.98	-245.31	4.66	249.08	241.32	7.77	32.058		
500.00	499.45	478.19	477.75	3.51	3.47	119.52	-251.80	8.35	260.35	252.42	7.93	32.835		
600.00	598.70	569.52	568.49	3.63	3.57	120.18	-260.75	13.44	276.10	267.97	8.13	33.942		
700.00	697.66	659.84	657.87	3.78	3.69	121.01	-272.07	19.89	295.71	287.33	8.38	35.270		
800.00	796.60	749.26	745.90	3.95	3.85	121.51	-285.69	27.64	317.97	309.30	8.67	36.676		
900.00	895.55	837.61	832.36	4.15	4.05	121.68	-301.48	36.63	342.77	333.78	8.99	38.117		
1,000.00	994.50	925.71	917.98	4.37	4.28	121.58	-319.51	46.89	370.03	360.68	9.35	39.565		
1,100.00	1,093.45	1,021.63	1,010.92	4.60	4.57	121.40	-340.13	58.63	398.28	388.49	9.79	40.682		
1,200.00	1,192.39	1,117.55	1,103.86	4.85	4.89	121.24	-360.75	70.37	426.53	416.27	10.26	41.571		
1,300.00	1,291.34	1,213.47	1,196.80	5.10	5.24	121.10	-381.37	82.10	454.79	444.03	10.76	42.270		
1,400.00	1,390.29	1,309.39	1,289.74	5.37	5.60	120.98	-401.99	93.84	483.04	471.76	11.28	42.819		
1,500.00	1,489.24	1,405.31	1,382.68	5.65	5.98	120.87	-422.60	105.58	511.30	499.48	11.82	43.240		
1,600.00	1,588.18	1,501.23	1,475.62	5.94	6.37	120.77	-443.22	117.31	539.56	527.17	12.39	43.562		
1,700.00	1,687.13	1,602.85	1,568.56	6.23	6.79	120.68	-463.84	129.05	567.82	554.84	12.98	43.745		
1,800.00	1,786.08	1,706.93	1,661.50	6.53	7.23	120.60	-484.46	140.79	596.08	582.49	13.60	43.840		
1,900.00	1,885.03	1,788.99	1,754.44	6.69	7.59	120.52	-505.08	152.52	624.35	610.53	13.82	45.189		
2,000.00	1,983.97	1,884.91	1,847.38	6.72	7.84	120.46	-525.70	164.26	652.61	638.75	13.86	47.075		
2,100.00	2,082.92	1,980.83	1,940.32	6.77	7.93	120.40	-546.31	176.00	680.87	666.91	13.96	48.768		
2,200.00	2,181.87	2,076.75	2,033.26	6.83	8.01	120.34	-566.93	187.73	709.14	695.07	14.07	50.413		
2,300.00	2,280.82	2,172.67	2,126.20	6.91	8.10	120.29	-587.55	199.47	737.40	723.20	14.20	51.921		
2,400.00	2,379.76	2,268.59	2,219.14	7.00	8.21	120.24	-608.17	211.21	765.67	751.30	14.37	53.290		
2,500.00	2,478.71	2,364.51	2,312.08	7.10	8.34	120.20	-628.79	222.94	793.94	779.37	14.56	54.518		
2,600.00	2,577.66	2,460.43	2,405.02	7.22	8.48	120.15	-649.40	234.68	822.20	807.42	14.79	55.610		
2,700.00	2,676.61	2,556.35	2,497.96	7.34	8.65	120.12	-670.02	246.42	850.47	835.44	15.03	56.570		
2,800.00	2,775.55	2,652.27	2,590.90	7.48	8.82	120.08	-690.64	258.15	878.74	863.43	15.31	57.404		
2,900.00	2,874.50	2,748.19	2,683.84	7.63	9.01	120.04	-711.26	269.89	907.01	891.40	15.61	58.120		
3,000.00	2,973.45	2,844.11	2,776.78	7.79	9.21	120.01	-731.88	281.63	935.28	919.35	15.93	58.727		
3,100.00	3,072.40	2,940.03	2,869.71	7.96	9.43	119.98	-752.50	293.36	963.54	947.28	16.27	59.233		
3,200.00	3,171.34	3,035.95	2,962.65	8.13	9.65	119.95	-773.11	305.10	991.81	975.19	16.63	59.647		
3,300.00	3,270.29	3,131.87	3,055.59	8.32	9.89	119.93	-793.73	316.83	1,020.08	1,003.08	17.01	59.979		
3,400.00	3,369.24	3,227.79	3,148.53	8.51	10.14	119.90	-814.35	328.57	1,048.35	1,030.95	17.40	60.237		
3,500.00	3,468.19	3,323.71	3,241.47	8.71	10.40	119.88	-834.97	340.31	1,076.62	1,058.81	17.82	60.429		
3,600.00	3,567.13	3,419.63	3,334.41	8.92	10.66	119.85	-855.59	352.04	1,104.89	1,086.65	18.24	60.563		
3,700.00	3,666.08	3,515.55	3,427.35	9.14	10.93	119.83	-876.20	363.78	1,133.16	1,114.48	18.68	60.646		
3,800.00	3,765.03	3,611.47	3,520.29	9.36	11.21	119.81	-896.82	375.52	1,161.43	1,142.29	19.14	60.685		
3,900.00	3,863.98	3,707.39	3,613.23	9.58	11.50	119.79	-917.44	387.25	1,189.70	1,170.10	19.60	60.684		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-148.38	-241.16	-148.50	283.22				
100.00	100.00	101.00	101.00	3.28	3.28	-148.38	-241.16	-148.50	283.22	275.69	7.53	37.617	
200.00	200.00	201.00	201.00	3.31	3.31	-148.38	-241.16	-148.50	283.22	275.64	7.57	37.392 CC, ES	
300.00	299.98	292.87	292.85	3.35	3.34	150.51	-242.67	-148.57	286.17	278.52	7.65	37.390 SF	
400.00	399.84	384.35	384.22	3.42	3.39	150.47	-247.08	-148.79	294.96	287.19	7.77	37.952	
500.00	499.45	474.91	474.49	3.51	3.47	150.39	-254.33	-149.16	309.53	301.59	7.93	39.020	
600.00	598.70	564.13	563.15	3.63	3.56	150.29	-264.24	-149.65	329.79	321.65	8.14	40.536	
700.00	697.66	651.85	649.98	3.78	3.67	150.30	-276.68	-150.27	354.59	346.22	8.37	42.346	
800.00	796.60	738.29	735.13	3.95	3.82	150.13	-291.52	-151.01	382.00	373.37	8.64	44.238	
900.00	895.55	823.65	818.73	4.15	4.00	149.81	-308.69	-151.86	411.93	403.00	8.93	46.145	
1,000.00	994.50	918.64	911.50	4.37	4.23	149.42	-329.10	-152.88	443.05	433.76	9.29	47.686	
1,100.00	1,093.45	1,013.63	1,004.27	4.60	4.49	149.07	-349.50	-153.89	474.18	464.49	9.69	48.949	
1,200.00	1,192.39	1,108.63	1,097.04	4.85	4.77	148.77	-369.91	-154.91	505.32	495.21	10.11	49.972	
1,300.00	1,291.34	1,203.62	1,189.82	5.10	5.06	148.50	-390.31	-155.93	536.48	525.92	10.56	50.794	
1,400.00	1,390.29	1,301.38	1,282.59	5.37	5.39	148.26	-410.72	-156.94	567.65	556.61	11.04	51.416	
1,500.00	1,489.24	1,406.39	1,375.36	5.65	5.75	148.05	-431.13	-157.96	598.82	587.27	11.56	51.813	
1,600.00	1,588.18	1,488.60	1,468.13	5.94	6.04	147.86	-451.53	-158.97	630.00	617.98	12.03	52.379	
1,700.00	1,687.13	1,583.60	1,560.90	6.23	6.39	147.68	-471.94	-159.99	661.19	648.64	12.55	52.696	
1,800.00	1,786.08	1,678.59	1,653.67	6.53	6.74	147.52	-492.34	-161.01	692.38	679.30	13.08	52.940	
1,900.00	1,885.03	1,773.59	1,746.44	6.69	7.10	147.38	-512.75	-162.02	723.58	710.28	13.30	54.414	
2,000.00	1,983.97	1,868.58	1,839.21	6.72	7.35	147.25	-533.15	-163.04	754.78	741.44	13.34	56.589	
2,100.00	2,082.92	1,963.58	1,931.98	6.77	7.45	147.12	-553.56	-164.05	785.98	772.54	13.44	58.471	
2,200.00	2,181.87	2,058.57	2,024.76	6.83	7.51	147.01	-573.97	-165.07	817.19	803.66	13.53	60.402	
2,300.00	2,280.82	2,153.56	2,117.53	6.91	7.59	146.91	-594.37	-166.09	848.40	834.75	13.65	62.174	
2,400.00	2,379.76	2,248.56	2,210.30	7.00	7.68	146.81	-614.78	-167.10	879.61	865.82	13.79	63.785	
2,500.00	2,478.71	2,343.55	2,303.07	7.10	7.80	146.72	-635.18	-168.12	910.82	896.86	13.96	65.232	
2,600.00	2,577.66	2,438.55	2,395.84	7.22	7.92	146.63	-655.59	-169.13	942.04	927.88	14.16	66.519	
2,700.00	2,676.61	2,533.54	2,488.61	7.34	8.06	146.56	-675.99	-170.15	973.26	958.87	14.39	67.650	
2,800.00	2,775.55	2,628.54	2,581.38	7.48	8.22	146.48	-696.40	-171.17	1,004.48	989.84	14.64	68.632	
2,900.00	2,874.50	2,723.53	2,674.15	7.63	8.38	146.41	-716.81	-172.18	1,035.70	1,020.79	14.91	69.474	
3,000.00	2,973.45	2,818.52	2,766.92	7.79	8.56	146.35	-737.21	-173.20	1,066.92	1,051.72	15.20	70.185	
3,100.00	3,072.40	2,913.52	2,859.70	7.96	8.75	146.28	-757.62	-174.21	1,098.14	1,082.63	15.52	70.775	
3,200.00	3,171.34	3,008.51	2,952.47	8.13	8.95	146.23	-778.02	-175.23	1,129.36	1,113.52	15.85	71.256	
3,300.00	3,270.29	3,103.51	3,045.24	8.32	9.17	146.17	-798.43	-176.25	1,160.59	1,144.39	16.20	71.636	
3,400.00	3,369.24	3,201.50	3,138.01	8.51	9.39	146.12	-818.84	-177.26	1,191.82	1,175.24	16.58	71.900	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-150.43	-261.20	-148.22	300.33				
100.00	100.00	101.00	101.00	3.28	3.28	-150.43	-261.20	-148.22	300.33	292.80	7.53	39.890	
200.00	200.00	201.00	201.00	3.31	3.31	-150.43	-261.20	-148.22	300.33	292.75	7.57	39.651 CC, ES	
300.00	299.98	292.30	292.29	3.35	3.34	148.47	-262.69	-148.28	303.26	295.61	7.65	39.624 SF	
400.00	399.84	383.23	383.11	3.42	3.39	148.47	-267.06	-148.47	312.00	304.22	7.77	40.149	
500.00	499.45	473.26	472.85	3.51	3.46	148.47	-274.21	-148.78	326.47	318.54	7.93	41.167	
600.00	598.70	561.97	561.00	3.63	3.55	148.45	-284.02	-149.20	346.61	338.48	8.13	42.620	
700.00	697.66	649.20	647.36	3.78	3.67	148.55	-296.32	-149.72	371.28	362.91	8.37	44.363	
800.00	796.60	735.18	732.07	3.95	3.82	148.49	-311.00	-150.35	398.57	389.94	8.63	46.188	
900.00	895.55	819.80	814.97	4.15	3.99	148.28	-327.93	-151.08	428.39	419.47	8.92	48.028	
1,000.00	994.50	902.94	895.91	4.37	4.19	147.95	-346.93	-151.89	460.69	451.46	9.24	49.876	
1,100.00	1,093.45	1,009.01	981.09	4.60	4.50	147.52	-369.22	-152.84	495.11	485.46	9.65	51.305	
1,200.00	1,192.39	1,084.70	1,071.67	4.85	4.75	147.10	-393.21	-153.87	529.83	519.79	10.04	52.788	
1,300.00	1,291.34	1,178.42	1,162.25	5.10	5.07	146.73	-417.21	-154.90	564.57	554.08	10.49	53.808	
1,400.00	1,390.29	1,272.13	1,252.84	5.37	5.41	146.41	-441.20	-155.92	599.33	588.36	10.97	54.626	
1,500.00	1,489.24	1,365.84	1,343.42	5.65	5.77	146.12	-465.20	-156.95	634.11	622.64	11.47	55.299	
1,600.00	1,588.18	1,459.56	1,434.00	5.94	6.14	145.86	-489.19	-157.98	668.90	656.92	11.98	55.818	
1,700.00	1,687.13	1,553.27	1,524.59	6.23	6.52	145.63	-513.19	-159.00	703.70	691.18	12.51	56.229	
1,800.00	1,786.08	1,646.98	1,615.17	6.53	6.91	145.42	-537.19	-160.03	738.51	725.45	13.06	56.553	
1,900.00	1,885.03	1,740.70	1,705.75	6.69	7.31	145.23	-561.18	-161.06	773.32	760.03	13.29	58.175	
2,000.00	1,983.97	1,834.41	1,796.34	6.72	7.65	145.05	-585.18	-162.09	808.15	794.58	13.57	59.560	
2,100.00	2,082.92	1,928.12	1,886.92	6.77	7.83	144.89	-609.17	-163.11	842.98	829.42	13.56	62.185	
2,200.00	2,181.87	2,021.84	1,977.50	6.83	7.89	144.74	-633.17	-164.14	877.81	864.17	13.64	64.355	
2,300.00	2,280.82	2,115.55	2,068.09	6.91	7.97	144.60	-657.16	-165.17	912.65	898.90	13.75	66.351	
2,400.00	2,379.76	2,209.26	2,158.67	7.00	8.08	144.48	-681.16	-166.19	947.49	933.60	13.90	68.168	
2,500.00	2,478.71	2,302.98	2,249.25	7.10	8.20	144.36	-705.16	-167.22	982.34	968.27	14.07	69.807	
2,600.00	2,577.66	2,403.31	2,339.83	7.22	8.34	144.25	-729.15	-168.25	1,017.19	1,002.91	14.28	71.222	
2,700.00	2,676.61	2,509.60	2,430.42	7.34	8.52	144.15	-753.15	-169.27	1,052.05	1,037.52	14.53	72.414	
2,800.00	2,775.55	2,584.12	2,521.00	7.48	8.66	144.05	-777.14	-170.30	1,086.90	1,072.15	14.76	73.651	
2,900.00	2,874.50	2,677.83	2,611.58	7.63	8.84	143.96	-801.14	-171.33	1,121.76	1,106.73	15.04	74.608	
3,000.00	2,973.45	2,771.54	2,702.17	7.79	9.03	143.88	-825.13	-172.35	1,156.63	1,141.29	15.34	75.419	
3,100.00	3,072.40	2,865.26	2,792.75	7.96	9.24	143.80	-849.13	-173.38	1,191.49	1,175.83	15.66	76.096	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-133.41	-140.98	-149.06	205.17				
100.00	100.00	101.00	101.00	3.28	3.28	-133.41	-140.98	-149.06	205.17	197.64	7.53	27.250	
200.00	200.00	201.00	201.00	3.31	3.31	-133.41	-140.98	-149.06	205.17	197.59	7.57	27.088	CC, ES, SF
300.00	299.98	295.62	295.61	3.35	3.34	165.31	-142.57	-149.25	208.16	200.50	7.66	27.192	
400.00	399.84	389.78	389.64	3.42	3.40	164.81	-147.22	-149.83	217.07	209.30	7.78	27.914	
500.00	499.45	488.45	488.08	3.51	3.47	164.24	-153.90	-150.67	230.78	222.83	7.95	29.036	
600.00	598.70	586.98	586.38	3.63	3.57	163.93	-160.59	-151.50	247.83	239.66	8.17	30.351	
700.00	697.66	685.12	684.29	3.78	3.69	163.87	-167.25	-152.33	267.01	258.59	8.42	31.715	
800.00	796.60	783.25	782.19	3.95	3.83	163.83	-173.90	-153.16	286.23	277.53	8.70	32.897	
900.00	895.55	881.39	880.10	4.15	3.99	163.79	-180.56	-153.99	305.46	296.44	9.02	33.880	
1,000.00	994.50	979.52	978.00	4.37	4.16	163.76	-187.22	-154.82	324.68	315.32	9.36	34.687	
1,100.00	1,093.45	1,077.66	1,075.91	4.60	4.34	163.74	-193.88	-155.65	343.91	334.18	9.73	35.343	
1,200.00	1,192.39	1,175.79	1,173.81	4.85	4.54	163.71	-200.53	-156.47	363.13	353.01	10.12	35.870	
1,300.00	1,291.34	1,273.93	1,271.72	5.10	4.75	163.69	-207.19	-157.30	382.36	371.82	10.54	36.289	
1,400.00	1,390.29	1,372.06	1,369.62	5.37	4.96	163.67	-213.85	-158.13	401.58	390.61	10.97	36.618	
1,500.00	1,489.24	1,470.19	1,467.53	5.65	5.18	163.65	-220.51	-158.96	420.80	409.39	11.41	36.873	
1,600.00	1,588.18	1,568.33	1,565.43	5.94	5.41	163.64	-227.16	-159.79	440.03	428.16	11.87	37.066	
1,700.00	1,687.13	1,666.46	1,663.34	6.23	5.65	163.62	-233.82	-160.62	459.25	446.91	12.34	37.210	
1,800.00	1,786.08	1,764.60	1,761.24	6.53	5.89	163.61	-240.48	-161.45	478.48	465.66	12.82	37.312	
1,900.00	1,885.03	1,862.73	1,859.15	6.69	6.06	163.60	-247.13	-162.28	497.70	484.96	12.74	39.062	
2,000.00	1,983.97	1,960.87	1,957.05	6.72	6.12	163.58	-253.79	-163.11	516.93	504.11	12.81	40.338	
2,100.00	2,082.92	2,059.00	2,054.96	6.77	6.14	163.57	-260.45	-163.94	536.15	523.28	12.87	41.656	
2,200.00	2,181.87	2,157.14	2,152.86	6.83	6.18	163.56	-267.11	-164.77	555.38	542.42	12.95	42.872	
2,300.00	2,280.82	2,255.27	2,250.77	6.91	6.23	163.55	-273.76	-165.60	574.60	561.54	13.06	43.983	
2,400.00	2,379.76	2,353.41	2,348.67	7.00	6.30	163.55	-280.42	-166.43	593.83	580.63	13.20	44.987	
2,500.00	2,478.71	2,451.54	2,446.58	7.10	6.38	163.54	-287.08	-167.25	613.05	599.69	13.36	45.885	
2,600.00	2,577.66	2,549.68	2,544.48	7.22	6.47	163.53	-293.74	-168.08	632.28	618.73	13.55	46.677	
2,700.00	2,676.61	2,647.81	2,642.39	7.34	6.57	163.52	-300.39	-168.91	651.50	637.75	13.75	47.368	
2,800.00	2,775.55	2,745.94	2,740.29	7.48	6.68	163.51	-307.05	-169.74	670.73	656.74	13.98	47.962	
2,900.00	2,874.50	2,844.08	2,838.20	7.63	6.80	163.51	-313.71	-170.57	689.95	675.72	14.24	48.466	
3,000.00	2,973.45	2,942.21	2,936.10	7.79	6.93	163.50	-320.37	-171.40	709.18	694.67	14.51	48.885	
3,100.00	3,072.40	3,040.35	3,034.01	7.96	7.07	163.50	-327.02	-172.23	728.40	713.61	14.80	49.226	
3,200.00	3,171.34	3,138.48	3,131.91	8.13	7.22	163.49	-333.68	-173.06	747.63	732.52	15.10	49.496	
3,300.00	3,270.29	3,236.62	3,229.82	8.32	7.37	163.49	-340.34	-173.89	766.85	751.42	15.43	49.703	
3,400.00	3,369.24	3,334.75	3,327.72	8.51	7.54	163.48	-347.00	-174.72	786.08	770.31	15.77	49.852	
3,500.00	3,468.19	3,432.89	3,425.63	8.71	7.71	163.48	-353.65	-175.55	805.30	789.18	16.12	49.949	
3,600.00	3,567.13	3,531.02	3,523.53	8.92	7.89	163.47	-360.31	-176.38	824.53	808.04	16.49	50.002	
3,700.00	3,666.08	3,629.16	3,621.44	9.14	8.07	163.47	-366.97	-177.21	843.75	826.88	16.87	50.014	
3,800.00	3,765.03	3,727.29	3,719.34	9.36	8.26	163.46	-373.62	-178.04	862.98	845.71	17.26	49.993	
3,900.00	3,863.98	3,825.42	3,817.25	9.58	8.46	163.46	-380.28	-178.86	882.20	864.54	17.66	49.941	
4,000.00	3,962.92	3,923.56	3,915.15	9.81	8.66	163.46	-386.94	-179.69	901.43	883.35	18.08	49.863	
4,100.00	4,061.87	4,021.69	4,013.06	10.05	8.87	163.45	-393.60	-180.52	920.65	902.15	18.50	49.763	
4,200.00	4,160.82	4,119.83	4,110.96	10.29	9.08	163.45	-400.25	-181.35	939.88	920.95	18.93	49.645	
4,300.00	4,259.77	4,217.96	4,208.87	10.53	9.29	163.44	-406.91	-182.18	959.10	939.73	19.37	49.510	
4,400.00	4,358.71	4,316.10	4,306.77	10.78	9.51	163.44	-413.57	-183.01	978.33	958.51	19.82	49.363	
4,500.00	4,457.66	4,414.23	4,404.68	11.03	9.73	163.44	-420.23	-183.84	997.55	977.28	20.27	49.205	
4,600.00	4,556.61	4,512.37	4,502.58	11.28	9.95	163.44	-426.88	-184.67	1,016.78	996.04	20.73	49.037	
4,700.00	4,655.56	4,610.50	4,600.49	11.54	10.18	163.43	-433.54	-185.50	1,036.00	1,014.80	21.20	48.863	
4,800.00	4,754.50	4,708.64	4,698.39	11.80	10.41	163.43	-440.20	-186.33	1,055.23	1,033.55	21.68	48.683	
4,900.00	4,853.45	4,806.77	4,796.30	12.07	10.64	163.43	-446.86	-187.16	1,074.45	1,052.30	22.15	48.499	
5,000.00	4,952.40	4,904.91	4,894.20	12.33	10.88	163.42	-453.51	-187.99	1,093.68	1,071.04	22.64	48.311	
5,100.00	5,051.35	5,003.04	4,992.11	12.60	11.12	163.42	-460.17	-188.82	1,112.90	1,089.78	23.13	48.122	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,150.29	5,101.17	5,090.01	12.87	11.36	163.42	-466.83	-189.64	1,132.13	1,108.51	23.62	47.931	
5,300.00	5,249.24	5,200.69	5,187.92	13.14	11.60	163.42	-473.49	-190.47	1,151.35	1,127.23	24.12	47.733	
5,400.00	5,348.19	5,302.56	5,285.82	13.42	11.86	163.41	-480.14	-191.30	1,170.58	1,145.95	24.63	47.524	
5,500.00	5,447.14	5,404.42	5,383.73	13.69	12.11	163.41	-486.80	-192.13	1,189.80	1,164.66	25.15	47.317	
6,700.00	6,635.32	7,889.15	7,169.10	16.92	21.79	-118.01	-603.24	775.73	1,171.54	1,134.73	36.81	31.827	
6,800.00	6,732.10	7,865.44	7,169.10	17.02	21.52	-109.07	-603.36	752.03	1,137.30	1,100.02	37.28	30.505	
6,900.00	6,823.98	7,826.84	7,169.08	17.07	21.09	-105.62	-603.55	713.43	1,111.77	1,074.31	37.46	29.678	
7,000.00	6,908.69	7,774.31	7,169.07	17.10	20.53	-102.88	-603.81	660.90	1,094.71	1,057.35	37.36	29.300	
7,100.00	6,984.15	7,709.13	7,169.05	17.12	19.86	-100.02	-604.14	595.72	1,085.02	1,047.99	37.03	29.304	
7,200.00	7,048.50	7,632.91	7,169.02	17.17	19.13	-97.07	-604.53	519.50	1,081.02	1,044.46	36.56	29.568	
7,256.79	7,079.49	7,585.41	7,169.01	17.24	18.70	-95.46	-604.76	472.00	1,080.54	1,044.27	36.27	29.789	
7,300.00	7,100.16	7,547.34	7,169.00	17.30	18.38	-94.30	-604.96	433.93	1,080.76	1,044.72	36.04	29.985	
7,400.00	7,137.85	7,438.14	7,159.50	17.53	17.55	-91.29	-604.86	325.28	1,081.60	1,046.11	35.49	30.474	
7,500.00	7,160.65	7,338.16	7,134.68	17.89	16.95	-88.61	-603.66	228.54	1,082.31	1,047.14	35.18	30.768	
7,600.00	7,168.01	7,245.48	7,098.45	18.37	16.58	-86.26	-601.63	143.35	1,082.89	1,047.82	35.08	30.873	
7,700.00	7,168.19	7,162.71	7,055.96	18.96	16.38	-84.01	-599.10	72.43	1,084.67	1,049.47	35.20	30.817	
7,800.00	7,168.36	7,092.54	7,013.01	19.68	16.24	-81.74	-596.46	17.05	1,089.85	1,054.35	35.50	30.697	
7,900.00	7,168.54	7,033.67	6,972.46	20.51	16.13	-79.61	-593.92	-25.53	1,099.69	1,063.75	35.94	30.598	
8,000.00	7,168.72	6,984.34	6,935.59	21.44	16.03	-77.69	-591.58	-58.19	1,115.07	1,078.61	36.46	30.584	
8,100.00	7,168.90	6,942.90	6,902.73	22.45	15.94	-75.99	-589.48	-83.35	1,136.54	1,099.52	37.02	30.702	
8,200.00	7,169.08	6,907.85	6,873.72	23.53	15.87	-74.51	-587.60	-102.92	1,164.32	1,126.73	37.59	30.975	
8,300.00	7,169.26	6,878.01	6,848.21	24.68	15.81	-73.22	-585.95	-118.30	1,198.36	1,160.22	38.14	31.419	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-137.26	-161.02	-148.78	219.23				
100.00	100.00	101.00	101.00	3.28	3.28	-137.26	-161.02	-148.78	219.23	211.70	7.53	29.119	
200.00	200.00	201.00	201.00	3.31	3.31	-137.26	-161.02	-148.78	219.23	211.66	7.57	28.945	CC, ES, SF
300.00	299.98	295.10	295.08	3.35	3.34	161.51	-162.59	-148.94	222.23	214.57	7.65	29.031	
400.00	399.84	388.75	388.61	3.42	3.40	161.14	-167.21	-149.40	231.15	223.37	7.78	29.727	
500.00	499.45	483.41	482.97	3.51	3.47	160.61	-174.79	-150.16	245.83	237.89	7.94	30.951	
600.00	598.70	581.67	580.84	3.63	3.57	160.23	-183.40	-151.03	264.37	256.21	8.16	32.394	
700.00	697.66	679.51	678.31	3.78	3.70	160.16	-191.97	-151.89	285.01	276.59	8.42	33.861	
800.00	796.60	777.35	775.77	3.95	3.84	160.11	-200.54	-152.76	305.68	296.98	8.70	35.131	
900.00	895.55	875.19	873.23	4.15	4.00	160.07	-209.11	-153.62	326.36	317.34	9.02	36.183	
1,000.00	994.50	973.03	970.68	4.37	4.18	160.04	-217.68	-154.48	347.03	337.66	9.37	37.044	
1,100.00	1,093.45	1,070.87	1,068.14	4.60	4.38	160.01	-226.24	-155.35	367.71	357.96	9.74	37.741	
1,200.00	1,192.39	1,168.71	1,165.60	4.85	4.58	159.98	-234.81	-156.21	388.38	378.24	10.14	38.298	
1,300.00	1,291.34	1,266.55	1,263.06	5.10	4.80	159.96	-243.38	-157.07	409.06	398.50	10.56	38.738	
1,400.00	1,390.29	1,364.39	1,360.52	5.37	5.02	159.94	-251.95	-157.93	429.73	418.74	11.00	39.081	
1,500.00	1,489.24	1,462.23	1,457.98	5.65	5.25	159.92	-260.52	-158.80	450.41	438.96	11.45	39.346	
1,600.00	1,588.18	1,560.07	1,555.44	5.94	5.49	159.90	-269.09	-159.66	471.08	459.17	11.91	39.544	
1,700.00	1,687.13	1,657.91	1,652.90	6.23	5.74	159.88	-277.66	-160.52	491.76	479.37	12.39	39.688	
1,800.00	1,786.08	1,755.75	1,750.36	6.53	5.99	159.86	-286.23	-161.39	512.43	499.55	12.88	39.790	
1,900.00	1,885.03	1,853.59	1,847.82	6.69	6.18	159.85	-294.80	-162.25	533.11	520.29	12.81	41.609	
2,000.00	1,983.97	1,951.42	1,945.28	6.72	6.26	159.84	-303.37	-163.11	553.78	540.88	12.90	42.933	
2,100.00	2,082.92	2,049.26	2,042.74	6.77	6.28	159.83	-311.93	-163.97	574.46	561.50	12.96	44.340	
2,200.00	2,181.87	2,147.10	2,140.20	6.83	6.33	159.81	-320.50	-164.84	595.13	582.09	13.04	45.638	
2,300.00	2,280.82	2,244.94	2,237.66	6.91	6.38	159.80	-329.07	-165.70	615.81	602.66	13.15	46.824	
2,400.00	2,379.76	2,342.78	2,335.12	7.00	6.45	159.79	-337.64	-166.56	636.48	623.19	13.29	47.896	
2,500.00	2,478.71	2,440.62	2,432.58	7.10	6.53	159.78	-346.21	-167.43	657.16	643.71	13.45	48.854	
2,600.00	2,577.66	2,538.46	2,530.04	7.22	6.62	159.78	-354.78	-168.29	677.83	664.20	13.64	49.700	
2,700.00	2,676.61	2,636.30	2,627.50	7.34	6.73	159.77	-363.35	-169.15	698.51	684.66	13.85	50.437	
2,800.00	2,775.55	2,734.14	2,724.96	7.48	6.84	159.76	-371.92	-170.02	719.19	705.10	14.08	51.072	
2,900.00	2,874.50	2,831.98	2,822.41	7.63	6.97	159.75	-380.49	-170.88	739.86	725.53	14.34	51.610	
3,000.00	2,973.45	2,929.82	2,919.87	7.79	7.10	159.75	-389.06	-171.74	760.54	745.93	14.61	52.058	
3,100.00	3,072.40	3,027.66	3,017.33	7.96	7.25	159.74	-397.62	-172.60	781.21	766.31	14.90	52.422	
3,200.00	3,171.34	3,125.50	3,114.79	8.13	7.40	159.73	-406.19	-173.47	801.89	786.67	15.21	52.711	
3,300.00	3,270.29	3,223.33	3,212.25	8.32	7.56	159.73	-414.76	-174.33	822.56	807.02	15.54	52.932	
3,400.00	3,369.24	3,321.17	3,309.71	8.51	7.73	159.72	-423.33	-175.19	843.24	827.36	15.88	53.092	
3,500.00	3,468.19	3,419.01	3,407.17	8.71	7.91	159.72	-431.90	-176.06	863.91	847.67	16.24	53.197	
3,600.00	3,567.13	3,516.85	3,504.63	8.92	8.09	159.71	-440.47	-176.92	884.59	867.98	16.61	53.253	
3,700.00	3,666.08	3,614.69	3,602.09	9.14	8.28	159.71	-449.04	-177.78	905.26	888.27	16.99	53.268	
3,800.00	3,765.03	3,712.53	3,699.55	9.36	8.48	159.70	-457.61	-178.64	925.94	908.55	17.39	53.245	
3,900.00	3,863.98	3,810.37	3,797.01	9.58	8.68	159.70	-466.18	-179.51	946.62	928.82	17.80	53.191	
4,000.00	3,962.92	3,908.21	3,894.47	9.81	8.89	159.69	-474.74	-180.37	967.29	949.08	18.21	53.109	
4,100.00	4,061.87	4,006.05	3,991.93	10.05	9.10	159.69	-483.31	-181.23	987.97	969.33	18.64	53.004	
4,200.00	4,160.82	4,103.89	4,089.39	10.29	9.32	159.68	-491.88	-182.10	1,008.64	989.57	19.07	52.878	
4,300.00	4,259.77	4,201.73	4,186.85	10.53	9.54	159.68	-500.45	-182.96	1,029.32	1,009.80	19.52	52.736	
4,400.00	4,358.71	4,300.43	4,284.31	10.78	9.76	159.68	-509.02	-183.82	1,049.99	1,030.02	19.97	52.574	
4,500.00	4,457.66	4,402.59	4,381.77	11.03	10.00	159.67	-517.59	-184.68	1,070.67	1,050.23	20.44	52.381	
4,600.00	4,556.61	4,504.76	4,479.23	11.28	10.24	159.67	-526.16	-185.55	1,091.34	1,070.43	20.92	52.179	
4,700.00	4,655.56	4,606.92	4,576.68	11.54	10.49	159.67	-534.73	-186.41	1,112.02	1,090.62	21.40	51.970	
4,800.00	4,754.50	4,709.08	4,674.14	11.80	10.73	159.66	-543.30	-187.27	1,132.70	1,110.81	21.89	51.756	
4,900.00	4,853.45	4,788.76	4,771.60	12.07	10.93	159.66	-551.87	-188.14	1,153.37	1,131.05	22.33	51.662	
5,000.00	4,952.40	4,886.60	4,869.06	12.33	11.17	159.66	-560.43	-189.00	1,174.05	1,151.23	22.81	51.463	
5,100.00	5,051.35	4,984.44	4,966.52	12.60	11.42	159.66	-569.00	-189.86	1,194.72	1,171.42	23.31	51.261	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.52	-100.18	0.84	100.18				
100.00	100.00	100.00	100.00	3.28	3.28	179.52	-100.18	0.84	100.18	92.66	7.53	13.307	
200.00	200.00	200.00	200.00	3.31	3.31	179.52	-100.18	0.84	100.18	92.61	7.57	13.228	CC, ES
300.00	299.98	298.87	298.85	3.35	3.35	118.34	-100.71	2.46	101.57	93.91	7.66	13.262	
400.00	399.84	397.63	397.48	3.42	3.41	118.11	-102.31	7.31	105.72	97.93	7.79	13.578	
500.00	499.45	496.17	495.64	3.51	3.50	117.76	-104.96	15.37	112.62	104.66	7.96	14.143	
600.00	598.70	594.78	593.55	3.63	3.61	117.39	-108.62	26.50	122.22	114.02	8.20	14.912	
700.00	697.66	705.82	692.14	3.78	3.77	117.70	-112.57	38.53	133.14	124.64	8.50	15.656	
800.00	796.60	806.43	790.72	3.95	3.94	118.01	-116.53	50.56	144.09	135.25	8.84	16.293	
900.00	895.55	907.03	889.31	4.15	4.14	118.27	-120.49	62.59	155.04	145.82	9.23	16.807	
1,000.00	994.50	1,007.64	987.89	4.37	4.35	118.50	-124.44	74.62	166.00	156.36	9.64	17.215	
1,100.00	1,093.45	1,108.24	1,086.48	4.60	4.58	118.70	-128.40	86.65	176.95	166.86	10.09	17.536	
1,200.00	1,192.39	1,191.16	1,185.07	4.85	4.78	118.87	-132.35	98.68	187.91	177.39	10.52	17.856	
1,300.00	1,291.34	1,309.45	1,283.65	5.10	5.08	119.03	-136.31	110.71	198.87	187.81	11.06	17.974	
1,400.00	1,390.29	1,389.95	1,382.24	5.37	5.29	119.17	-140.26	122.74	209.84	198.31	11.53	18.198	
1,500.00	1,489.24	1,489.34	1,480.82	5.65	5.55	119.30	-144.22	134.77	220.80	208.74	12.06	18.307	
1,600.00	1,588.18	1,588.74	1,579.41	5.94	5.83	119.41	-148.17	146.80	231.76	219.16	12.61	18.385	
1,700.00	1,687.13	1,688.14	1,678.00	6.23	6.11	119.52	-152.13	158.84	242.73	229.56	13.16	18.439	
1,800.00	1,786.08	1,787.53	1,776.58	6.53	6.40	119.61	-156.08	170.87	253.69	239.96	13.73	18.474	
1,900.00	1,885.03	1,886.93	1,875.17	6.69	6.57	119.70	-160.04	182.90	264.66	250.98	13.68	19.351	
2,000.00	1,983.97	1,986.33	1,973.76	6.72	6.62	119.78	-164.00	194.93	275.63	261.88	13.75	20.046	
2,100.00	2,082.92	2,085.72	2,072.34	6.77	6.66	119.86	-167.95	206.96	286.59	272.76	13.83	20.716	
2,200.00	2,181.87	2,185.12	2,170.93	6.83	6.71	119.93	-171.91	218.99	297.56	283.61	13.95	21.335	
2,300.00	2,280.82	2,284.51	2,269.51	6.91	6.78	119.99	-175.86	231.02	308.53	294.44	14.09	21.900	
2,400.00	2,379.76	2,383.91	2,368.10	7.00	6.87	120.05	-179.82	243.05	319.50	305.24	14.26	22.412	
2,500.00	2,478.71	2,483.31	2,466.69	7.10	6.96	120.11	-183.77	255.08	330.47	316.02	14.45	22.870	
2,600.00	2,577.66	2,582.70	2,565.27	7.22	7.07	120.16	-187.73	267.11	341.43	326.77	14.67	23.276	
2,700.00	2,676.61	2,682.10	2,663.86	7.34	7.19	120.21	-191.68	279.14	352.40	337.49	14.91	23.633	
2,800.00	2,775.55	2,781.49	2,762.44	7.48	7.33	120.25	-195.64	291.17	363.37	348.20	15.18	23.942	
2,900.00	2,874.50	2,880.89	2,861.03	7.63	7.47	120.30	-199.59	303.20	374.34	358.88	15.46	24.207	
3,000.00	2,973.45	2,980.29	2,959.62	7.79	7.62	120.34	-203.55	315.23	385.31	369.54	15.77	24.431	
3,100.00	3,072.40	3,079.68	3,058.20	7.96	7.79	120.37	-207.51	327.26	396.28	380.18	16.10	24.617	
3,200.00	3,171.34	3,179.08	3,156.79	8.13	7.96	120.41	-211.46	339.29	407.25	390.81	16.44	24.769	
3,300.00	3,270.29	3,278.48	3,255.37	8.32	8.14	120.45	-215.42	351.32	418.22	401.42	16.80	24.890	
3,400.00	3,369.24	3,377.87	3,353.96	8.51	8.33	120.48	-219.37	363.36	429.19	412.01	17.18	24.983	
3,500.00	3,468.19	3,477.27	3,452.55	8.71	8.53	120.51	-223.33	375.39	440.16	422.59	17.57	25.051	
3,600.00	3,567.13	3,576.66	3,551.13	8.92	8.73	120.54	-227.28	387.42	451.13	433.16	17.98	25.097	
3,700.00	3,666.08	3,676.06	3,649.72	9.14	8.94	120.57	-231.24	399.45	462.11	443.71	18.39	25.123	
3,800.00	3,765.03	3,775.46	3,748.30	9.36	9.15	120.59	-235.19	411.48	473.08	454.25	18.82	25.133	
3,900.00	3,863.98	3,874.85	3,846.89	9.58	9.37	120.62	-239.15	423.51	484.05	464.78	19.26	25.128	
4,000.00	3,962.92	3,974.25	3,945.48	9.81	9.60	120.64	-243.10	435.54	495.02	475.30	19.71	25.110	
4,100.00	4,061.87	4,073.64	4,044.06	10.05	9.83	120.67	-247.06	447.57	505.99	485.82	20.17	25.080	
4,200.00	4,160.82	4,173.04	4,142.65	10.29	10.07	120.69	-251.02	459.60	516.96	496.32	20.64	25.042	
4,300.00	4,259.77	4,272.44	4,241.23	10.53	10.30	120.71	-254.97	471.63	527.93	506.81	21.12	24.995	
4,400.00	4,358.71	4,371.83	4,339.82	10.78	10.55	120.73	-258.93	483.66	538.90	517.30	21.61	24.942	
4,500.00	4,457.66	4,471.23	4,438.41	11.03	10.80	120.75	-262.88	495.69	549.88	527.78	22.10	24.882	
4,600.00	4,556.61	4,570.62	4,536.99	11.28	11.05	120.77	-266.84	507.72	560.85	538.25	22.60	24.818	
4,700.00	4,655.56	4,670.02	4,635.58	11.54	11.30	120.79	-270.79	519.75	571.82	548.71	23.10	24.750	
4,800.00	4,754.50	4,769.42	4,734.16	11.80	11.56	120.81	-274.75	531.78	582.79	559.18	23.62	24.678	
4,900.00	4,853.45	4,868.81	4,832.75	12.07	11.81	120.82	-278.70	543.81	593.76	569.63	24.13	24.605	
5,000.00	4,952.40	4,968.21	4,931.34	12.33	12.08	120.84	-282.66	555.84	604.73	580.08	24.65	24.529	
5,100.00	5,051.35	5,067.61	5,029.92	12.60	12.34	120.86	-286.61	567.88	615.71	590.52	25.18	24.451	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,150.29	5,167.00	5,128.51	12.87	12.61	120.87	-290.57	579.91	626.68	600.97	25.71	24.373	
5,300.00	5,249.24	5,266.40	5,227.09	13.14	12.88	120.89	-294.53	591.94	637.65	611.40	26.25	24.293	
5,400.00	5,348.19	5,365.79	5,325.68	13.42	13.15	120.90	-298.48	603.97	648.62	621.83	26.79	24.214	
5,500.00	5,447.14	5,465.19	5,424.27	13.69	13.42	120.91	-302.44	616.00	659.59	632.26	27.33	24.134	
5,600.00	5,546.08	5,564.59	5,522.85	13.97	13.69	120.93	-306.39	628.03	670.57	642.69	27.88	24.054	
5,700.00	5,645.03	5,663.98	5,621.44	14.25	13.97	120.94	-310.35	640.06	681.54	653.11	28.43	23.974	
5,800.00	5,743.98	5,763.38	5,720.03	14.53	14.25	120.95	-314.30	652.09	692.51	663.53	28.98	23.895	
5,900.00	5,842.93	5,862.77	5,818.61	14.82	14.53	120.97	-318.26	664.12	703.48	673.94	29.54	23.817	
6,000.00	5,941.87	5,962.17	5,917.20	15.10	14.81	120.98	-322.21	676.15	714.45	684.36	30.10	23.739	
6,100.00	6,040.82	6,061.57	6,015.78	15.39	15.09	120.99	-326.17	688.18	725.43	694.77	30.66	23.662	
6,200.00	6,139.77	6,160.96	6,114.37	15.67	15.37	121.00	-330.12	700.21	736.40	705.18	31.22	23.586	
6,300.00	6,238.72	6,260.36	6,212.96	15.96	15.66	121.01	-334.08	712.24	747.37	715.58	31.79	23.511	
6,400.00	6,337.67	6,359.76	6,311.54	16.25	15.94	121.02	-338.04	724.27	758.34	725.99	32.36	23.437	
6,500.00	6,436.61	6,459.15	6,410.13	16.54	16.23	121.03	-341.99	736.30	769.32	736.39	32.93	23.364	
6,600.00	6,536.02	6,558.33	6,508.50	16.77	16.51	-173.94	-345.94	748.31	780.11	746.68	33.43	23.333	
6,700.00	6,635.32	6,655.54	6,604.92	16.92	16.80	-112.06	-349.81	760.07	790.60	756.75	33.85	23.355	
6,800.00	6,732.10	6,750.31	6,699.09	17.02	17.04	-102.37	-353.58	769.71	801.62	767.45	34.18	23.454	
6,900.00	6,823.98	6,849.84	6,798.39	17.07	17.19	-99.86	-357.53	766.43	813.63	779.26	34.37	23.670	
7,000.00	6,908.69	6,955.98	6,902.32	17.10	17.30	-99.34	-361.62	745.94	826.30	791.81	34.49	23.955	
7,100.00	6,984.15	7,069.93	7,008.45	17.12	17.36	-99.64	-365.75	705.06	839.14	804.58	34.56	24.281	
7,200.00	7,048.50	7,192.84	7,112.77	17.17	17.39	-100.32	-369.75	640.56	851.50	816.88	34.62	24.597	
7,300.00	7,100.16	7,325.45	7,209.19	17.30	17.42	-101.15	-373.37	549.94	862.58	827.82	34.76	24.813	
7,400.00	7,137.85	7,467.68	7,289.38	17.53	17.51	-101.95	-376.28	432.86	871.50	836.36	35.14	24.801	
7,500.00	7,160.65	7,618.05	7,343.74	17.89	17.77	-102.57	-378.11	293.05	877.40	841.51	35.89	24.446	
7,600.00	7,168.01	7,773.45	7,363.97	18.37	18.31	-102.87	-378.55	139.36	879.61	842.55	37.06	23.734	
7,700.00	7,168.19	7,875.21	7,364.12	18.96	18.86	-102.87	-378.31	37.61	879.55	841.33	38.21	23.016	
7,800.00	7,168.36	7,975.21	7,364.25	19.68	19.52	-102.87	-378.07	-62.39	879.48	839.89	39.59	22.214	
7,900.00	7,168.54	8,075.21	7,364.38	20.51	20.31	-102.87	-377.84	-162.39	879.42	838.23	41.19	21.351	
8,000.00	7,168.72	8,175.21	7,364.51	21.44	21.21	-102.86	-377.60	-262.39	879.35	836.37	42.98	20.459	
8,100.00	7,168.90	8,275.21	7,364.63	22.45	22.20	-102.86	-377.37	-362.39	879.28	834.34	44.95	19.563	
8,200.00	7,169.08	8,375.21	7,364.76	23.53	23.27	-102.86	-377.13	-462.39	879.22	832.16	47.06	18.683	
8,300.00	7,169.26	8,475.21	7,364.89	24.68	24.41	-102.86	-376.90	-562.39	879.15	829.85	49.31	17.830	
8,400.00	7,169.44	8,575.21	7,365.02	25.88	25.61	-102.85	-376.66	-662.39	879.09	827.42	51.67	17.015	
8,500.00	7,169.62	8,675.21	7,365.15	27.14	26.86	-102.85	-376.43	-762.39	879.02	824.90	54.12	16.241	
8,600.00	7,169.80	8,775.21	7,365.27	28.43	28.15	-102.85	-376.19	-862.39	878.96	822.29	56.67	15.511	
8,700.00	7,169.98	8,875.21	7,365.40	29.77	29.48	-102.85	-375.96	-962.39	878.89	819.61	59.28	14.825	
8,800.00	7,170.16	8,975.21	7,365.53	31.13	30.85	-102.84	-375.72	-1,062.39	878.83	816.86	61.97	14.182	
8,900.00	7,170.34	9,075.21	7,365.66	32.53	32.24	-102.84	-375.49	-1,162.39	878.76	814.06	64.71	13.581	
9,000.00	7,170.51	9,175.21	7,365.79	33.95	33.66	-102.84	-375.25	-1,262.39	878.70	811.20	67.50	13.019	
9,100.00	7,170.69	9,275.21	7,365.92	35.39	35.10	-102.84	-375.02	-1,362.39	878.63	808.30	70.33	12.493	
9,200.00	7,170.87	9,375.21	7,366.04	36.85	36.56	-102.84	-374.78	-1,462.39	878.57	805.37	73.20	12.002	
9,300.00	7,171.05	9,475.21	7,366.17	38.32	38.04	-102.83	-374.55	-1,562.39	878.50	802.39	76.11	11.543	
9,400.00	7,171.23	9,575.21	7,366.30	39.82	39.53	-102.83	-374.31	-1,662.39	878.44	799.39	79.04	11.113	
9,500.00	7,171.41	9,675.21	7,366.43	41.32	41.04	-102.83	-374.08	-1,762.39	878.37	796.36	82.01	10.711	
9,600.00	7,171.59	9,775.21	7,366.56	42.84	42.55	-102.83	-373.84	-1,862.39	878.30	793.31	84.99	10.334	
9,700.00	7,171.77	9,875.21	7,366.68	44.37	44.08	-102.82	-373.60	-1,962.39	878.24	790.24	88.00	9.980	
9,800.00	7,171.95	9,975.21	7,366.81	45.91	45.63	-102.82	-373.37	-2,062.39	878.17	787.14	91.03	9.647	
9,900.00	7,172.13	10,075.21	7,366.94	47.46	47.17	-102.82	-373.13	-2,162.39	878.11	784.03	94.08	9.334	
10,000.00	7,172.31	10,175.21	7,367.07	49.02	48.73	-102.82	-372.90	-2,262.39	878.04	780.90	97.14	9.039	
10,100.00	7,172.49	10,275.21	7,367.20	50.58	50.30	-102.81	-372.66	-2,362.39	877.98	777.76	100.22	8.760	
10,200.00	7,172.66	10,375.21	7,367.33	52.15	51.87	-102.81	-372.43	-2,462.39	877.91	774.60	103.31	8.498	
10,300.00	7,172.84	10,475.21	7,367.45	53.73	53.44	-102.81	-372.19	-2,562.38	877.85	771.43	106.42	8.249	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,173.02	10,575.21	7,367.58	55.31	55.03	-102.81	-371.96	-2,662.38	877.78	768.25	109.53	8.014		
10,500.00	7,173.20	10,675.21	7,367.71	56.90	56.62	-102.80	-371.72	-2,762.38	877.72	765.06	112.65	7.791		
10,600.00	7,173.38	10,775.21	7,367.84	58.49	58.21	-102.80	-371.49	-2,862.38	877.65	761.86	115.79	7.580		
10,700.00	7,173.56	10,875.21	7,367.97	60.08	59.81	-102.80	-371.25	-2,962.38	877.59	758.66	118.93	7.379		
10,800.00	7,173.74	10,975.21	7,368.09	61.68	61.41	-102.80	-371.02	-3,062.38	877.52	755.44	122.08	7.188		
10,900.00	7,173.92	11,075.21	7,368.22	63.29	63.01	-102.79	-370.78	-3,162.38	877.46	752.22	125.24	7.006		
11,000.00	7,174.10	11,175.21	7,368.35	64.90	64.62	-102.79	-370.55	-3,262.38	877.39	748.99	128.40	6.833		
11,100.00	7,174.28	11,275.21	7,368.48	66.51	66.23	-102.79	-370.31	-3,362.38	877.33	745.75	131.57	6.668		
11,200.00	7,174.46	11,375.21	7,368.61	68.12	67.84	-102.79	-370.08	-3,462.38	877.26	742.51	134.75	6.510		
11,300.00	7,174.63	11,475.21	7,368.74	69.74	69.46	-102.78	-369.84	-3,562.38	877.19	739.26	137.93	6.360		
11,400.00	7,174.81	11,575.21	7,368.86	71.35	71.08	-102.78	-369.61	-3,662.38	877.13	736.01	141.12	6.215		
11,500.00	7,174.99	11,675.21	7,368.99	72.98	72.70	-102.78	-369.37	-3,762.38	877.06	732.75	144.31	6.078		
11,600.00	7,175.17	11,775.21	7,369.12	74.60	74.33	-102.78	-369.14	-3,862.38	877.00	729.49	147.51	5.945		
11,700.00	7,175.35	11,875.21	7,369.25	76.22	75.95	-102.77	-368.90	-3,962.38	876.93	726.22	150.71	5.819		
11,800.00	7,175.53	11,975.21	7,369.38	77.85	77.58	-102.77	-368.67	-4,062.38	876.87	722.95	153.91	5.697		
11,900.00	7,175.71	12,075.21	7,369.50	79.48	79.21	-102.77	-368.43	-4,162.38	876.80	719.68	157.12	5.580		
12,000.00	7,175.89	12,175.21	7,369.63	81.11	80.84	-102.77	-368.20	-4,262.38	876.74	716.40	160.33	5.468		
12,100.00	7,176.07	12,275.21	7,369.76	82.75	82.48	-102.76	-367.96	-4,362.38	876.67	713.12	163.55	5.360		
12,200.00	7,176.25	12,375.21	7,369.89	84.38	84.11	-102.76	-367.73	-4,462.38	876.61	709.84	166.77	5.256		
12,300.00	7,176.43	12,475.21	7,370.02	86.02	85.75	-102.76	-367.49	-4,562.38	876.54	706.55	169.99	5.156		
12,400.00	7,176.61	12,575.21	7,370.14	87.65	87.38	-102.76	-367.26	-4,662.38	876.48	703.26	173.21	5.060		
12,500.00	7,176.78	12,675.21	7,370.27	89.29	89.02	-102.75	-367.02	-4,762.38	876.41	699.97	176.44	4.967		
12,600.00	7,176.96	12,775.21	7,370.40	90.93	90.66	-102.75	-366.79	-4,862.38	876.35	696.68	179.67	4.878		
12,700.00	7,177.14	12,875.21	7,370.53	92.57	92.30	-102.75	-366.55	-4,962.38	876.28	693.38	182.90	4.791		
12,800.00	7,177.32	12,975.21	7,370.66	94.21	93.95	-102.75	-366.31	-5,062.38	876.22	690.08	186.13	4.708		
12,900.00	7,177.50	13,075.21	7,370.79	95.86	95.59	-102.74	-366.08	-5,162.37	876.15	686.78	189.37	4.627		
13,000.00	7,177.68	13,175.21	7,370.91	97.50	97.23	-102.74	-365.84	-5,262.37	876.08	683.48	192.60	4.549		
13,100.00	7,177.86	13,275.21	7,371.04	99.14	98.88	-102.74	-365.61	-5,362.37	876.02	680.18	195.84	4.473		
13,200.00	7,178.04	13,375.21	7,371.17	100.79	100.52	-102.74	-365.37	-5,462.37	875.95	676.87	199.08	4.400		
13,300.00	7,178.22	13,475.21	7,371.30	102.44	102.17	-102.73	-365.14	-5,562.37	875.89	673.56	202.33	4.329		
13,400.00	7,178.40	13,575.21	7,371.43	104.08	103.82	-102.73	-364.90	-5,662.37	875.82	670.25	205.57	4.260		
13,500.00	7,178.58	13,675.21	7,371.55	105.73	105.47	-102.73	-364.67	-5,762.37	875.76	666.94	208.82	4.194		
13,600.00	7,178.75	13,775.21	7,371.68	107.38	107.12	-102.73	-364.43	-5,862.37	875.69	663.63	212.06	4.129		
13,700.00	7,178.93	13,875.21	7,371.81	109.03	108.77	-102.73	-364.20	-5,962.37	875.63	660.32	215.31	4.067		
13,800.00	7,179.11	13,975.21	7,371.94	110.68	110.42	-102.72	-363.96	-6,062.37	875.56	657.00	218.56	4.006		
13,900.00	7,179.29	14,075.21	7,372.07	112.33	112.07	-102.72	-363.73	-6,162.37	875.50	653.68	221.81	3.947		
14,000.00	7,179.47	14,175.21	7,372.20	113.98	113.72	-102.72	-363.49	-6,262.37	875.43	650.37	225.07	3.890		
14,100.00	7,179.65	14,275.21	7,372.32	115.63	115.37	-102.72	-363.26	-6,362.37	875.37	647.05	228.32	3.834		
14,200.00	7,179.83	14,375.21	7,372.45	117.29	117.03	-102.71	-363.02	-6,462.37	875.30	643.73	231.58	3.780		
14,300.00	7,180.01	14,475.21	7,372.58	118.94	118.68	-102.71	-362.79	-6,562.37	875.24	640.40	234.83	3.727		
14,400.00	7,180.19	14,575.21	7,372.71	120.59	120.33	-102.71	-362.55	-6,662.37	875.17	637.08	238.09	3.676		
14,500.00	7,180.37	14,675.21	7,372.84	122.25	121.99	-102.71	-362.32	-6,762.37	875.11	633.76	241.35	3.626		
14,600.00	7,180.55	14,775.21	7,372.96	123.90	123.64	-102.70	-362.08	-6,862.37	875.04	630.43	244.61	3.577		
14,700.00	7,180.73	14,875.21	7,373.09	125.56	125.30	-102.70	-361.85	-6,962.37	874.98	627.11	247.87	3.530		
14,800.00	7,180.90	14,975.21	7,373.22	127.21	126.95	-102.70	-361.61	-7,062.37	874.91	623.78	251.13	3.484		
14,900.00	7,181.08	15,075.21	7,373.35	128.87	128.61	-102.70	-361.38	-7,162.37	874.85	620.45	254.39	3.439		
15,000.00	7,181.26	15,175.21	7,373.48	130.52	130.27	-102.69	-361.14	-7,262.37	874.78	617.13	257.65	3.395		
15,100.00	7,181.44	15,275.21	7,373.61	132.18	131.92	-102.69	-360.91	-7,362.37	874.71	613.80	260.92	3.352		
15,200.00	7,181.62	15,375.21	7,373.73	133.84	133.58	-102.69	-360.67	-7,462.37	874.65	610.47	264.18	3.311		
15,300.00	7,181.80	15,475.21	7,373.86	135.50	135.24	-102.69	-360.44	-7,562.37	874.58	607.14	267.45	3.270		
15,400.00	7,181.98	15,575.21	7,373.99	137.15	136.90	-102.68	-360.20	-7,662.37	874.52	603.81	270.71	3.230		
15,412.37	7,182.00	15,587.57	7,374.01	137.36	137.10	-102.68	-360.17	-7,674.73	874.51	603.40	271.11	3.226 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-120.21	0.84	120.22				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-120.21	0.84	120.22	112.69	7.53	15.967	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-120.21	0.84	120.22	112.64	7.57	15.872	CC, ES
300.00	299.98	298.54	298.52	3.35	3.35	118.44	-120.79	2.43	121.65	113.99	7.66	15.884	
400.00	399.84	396.96	396.80	3.42	3.41	118.26	-122.53	7.20	125.94	118.16	7.78	16.178	
500.00	499.45	495.14	494.62	3.51	3.49	117.99	-125.41	15.11	133.09	125.13	7.96	16.717	
600.00	598.70	593.02	591.79	3.63	3.61	117.64	-129.42	26.13	143.07	134.88	8.19	17.463	
700.00	697.66	707.66	690.19	3.78	3.78	117.64	-134.03	38.79	154.67	146.16	8.51	18.179	
800.00	796.60	808.33	788.60	3.95	3.95	117.69	-138.64	51.46	166.28	157.43	8.85	18.787	
900.00	895.55	909.01	887.00	4.15	4.15	117.73	-143.25	64.13	177.90	168.66	9.24	19.261	
1,000.00	994.50	990.31	985.40	4.37	4.33	117.76	-147.86	76.79	189.51	179.90	9.62	19.708	
1,100.00	1,093.45	1,089.63	1,083.81	4.60	4.56	117.79	-152.47	89.46	201.13	191.06	10.06	19.986	
1,200.00	1,192.39	1,188.96	1,182.21	4.85	4.80	117.82	-157.08	102.13	212.74	202.20	10.54	20.188	
1,300.00	1,291.34	1,288.28	1,280.62	5.10	5.06	117.85	-161.69	114.80	224.36	213.32	11.04	20.328	
1,400.00	1,390.29	1,387.60	1,379.02	5.37	5.33	117.87	-166.30	127.46	235.97	224.42	11.56	20.421	
1,500.00	1,489.24	1,486.93	1,477.42	5.65	5.60	117.89	-170.91	140.13	247.59	235.50	12.09	20.477	
1,600.00	1,588.18	1,586.25	1,575.83	5.94	5.88	117.91	-175.52	152.80	259.21	246.56	12.64	20.504	
1,700.00	1,687.13	1,685.57	1,674.23	6.23	6.17	117.93	-180.13	165.46	270.82	257.62	13.21	20.508	
1,800.00	1,786.08	1,784.90	1,772.64	6.53	6.47	117.94	-184.74	178.13	282.44	268.66	13.78	20.496	
1,900.00	1,885.03	1,884.22	1,871.04	6.69	6.65	117.96	-189.35	190.80	294.05	280.32	13.73	21.414	
2,000.00	1,983.97	1,983.54	1,969.44	6.72	6.70	117.97	-193.96	203.46	305.67	291.86	13.81	22.133	
2,100.00	2,082.92	2,082.86	2,067.85	6.77	6.74	117.98	-198.57	216.13	317.29	303.39	13.90	22.833	
2,200.00	2,181.87	2,182.19	2,166.25	6.83	6.80	117.99	-203.18	228.80	328.90	314.89	14.01	23.475	
2,300.00	2,280.82	2,281.51	2,264.66	6.91	6.87	118.00	-207.79	241.46	340.52	326.37	14.15	24.059	
2,400.00	2,379.76	2,380.83	2,363.06	7.00	6.96	118.01	-212.40	254.13	352.13	337.81	14.32	24.585	
2,500.00	2,478.71	2,480.16	2,461.47	7.10	7.06	118.02	-217.01	266.80	363.75	349.23	14.52	25.053	
2,600.00	2,577.66	2,579.48	2,559.87	7.22	7.17	118.03	-221.63	279.46	375.37	360.63	14.74	25.465	
2,700.00	2,676.61	2,678.80	2,658.27	7.34	7.30	118.04	-226.24	292.13	386.98	372.00	14.99	25.824	
2,800.00	2,775.55	2,778.13	2,756.68	7.48	7.43	118.05	-230.85	304.80	398.60	383.35	15.25	26.132	
2,900.00	2,874.50	2,877.45	2,855.08	7.63	7.58	118.06	-235.46	317.46	410.22	394.67	15.54	26.392	
3,000.00	2,973.45	2,976.77	2,953.49	7.79	7.74	118.06	-240.07	330.13	421.83	405.98	15.85	26.609	
3,100.00	3,072.40	3,076.10	3,051.89	7.96	7.90	118.07	-244.68	342.80	433.45	417.27	16.18	26.786	
3,200.00	3,171.34	3,175.42	3,150.29	8.13	8.08	118.08	-249.29	355.46	445.06	428.54	16.53	26.927	
3,300.00	3,270.29	3,274.74	3,248.70	8.32	8.26	118.08	-253.90	368.13	456.68	439.79	16.89	27.035	
3,400.00	3,369.24	3,374.06	3,347.10	8.51	8.46	118.09	-258.51	380.80	468.30	451.02	17.27	27.113	
3,500.00	3,468.19	3,473.39	3,445.51	8.71	8.66	118.09	-263.12	393.46	479.91	462.25	17.67	27.166	
3,600.00	3,567.13	3,572.71	3,543.91	8.92	8.86	118.10	-267.73	406.13	491.53	473.45	18.07	27.196	
3,700.00	3,666.08	3,672.03	3,642.31	9.14	9.08	118.10	-272.34	418.80	503.14	484.65	18.49	27.206	
3,800.00	3,765.03	3,771.36	3,740.72	9.36	9.30	118.11	-276.95	431.46	514.76	495.83	18.93	27.198	
3,900.00	3,863.98	3,870.68	3,839.12	9.58	9.52	118.11	-281.56	444.13	526.38	507.01	19.37	27.175	
4,000.00	3,962.92	3,970.00	3,937.53	9.81	9.75	118.12	-286.17	456.80	537.99	518.17	19.82	27.139	
4,100.00	4,061.87	4,069.33	4,035.93	10.05	9.99	118.12	-290.78	469.46	549.61	529.32	20.29	27.092	
4,200.00	4,160.82	4,168.65	4,134.33	10.29	10.23	118.12	-295.39	482.13	561.23	540.47	20.76	27.035	
4,300.00	4,259.77	4,267.97	4,232.74	10.53	10.47	118.13	-300.00	494.80	572.84	551.60	21.24	26.970	
4,400.00	4,358.71	4,367.29	4,331.14	10.78	10.72	118.13	-304.61	507.46	584.46	562.73	21.73	26.899	
4,500.00	4,457.66	4,466.62	4,429.55	11.03	10.97	118.13	-309.22	520.13	596.07	573.85	22.22	26.822	
4,600.00	4,556.61	4,565.94	4,527.95	11.28	11.22	118.14	-313.83	532.80	607.69	584.96	22.73	26.740	
4,700.00	4,655.56	4,665.26	4,626.36	11.54	11.48	118.14	-318.44	545.46	619.31	596.07	23.23	26.655	
4,800.00	4,754.50	4,764.59	4,724.76	11.80	11.74	118.14	-323.05	558.13	630.92	607.17	23.75	26.566	
4,900.00	4,853.45	4,863.91	4,823.16	12.07	12.01	118.15	-327.66	570.80	642.54	618.27	24.27	26.476	
5,000.00	4,952.40	4,963.23	4,921.57	12.33	12.27	118.15	-332.27	583.47	654.15	629.36	24.79	26.383	
5,100.00	5,051.35	5,062.56	5,019.97	12.60	12.54	118.15	-336.88	596.13	665.77	640.45	25.32	26.290	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,161.88	5,118.38	12.87	12.81	118.16	-341.49	608.80	677.39	651.53	25.86	26.196		
5,300.00	5,249.24	5,261.20	5,216.78	13.14	13.09	118.16	-346.10	621.47	689.00	662.61	26.40	26.101		
5,400.00	5,348.19	5,360.52	5,315.18	13.42	13.36	118.16	-350.71	634.13	700.62	673.68	26.94	26.007		
5,500.00	5,447.14	5,459.85	5,413.59	13.69	13.64	118.16	-355.32	646.80	712.24	684.75	27.49	25.912		
5,600.00	5,546.08	5,559.17	5,511.99	13.97	13.92	118.17	-359.93	659.47	723.85	695.81	28.04	25.818		
5,700.00	5,645.03	5,658.49	5,610.40	14.25	14.20	118.17	-364.55	672.13	735.47	706.88	28.59	25.725		
5,800.00	5,743.98	5,757.82	5,708.80	14.53	14.48	118.17	-369.16	684.80	747.08	717.94	29.15	25.632		
5,900.00	5,842.93	5,857.14	5,807.20	14.82	14.76	118.17	-373.77	697.47	758.70	728.99	29.71	25.541		
6,000.00	5,941.87	5,956.46	5,905.61	15.10	15.05	118.17	-378.38	710.13	770.32	740.05	30.27	25.450		
6,100.00	6,040.82	6,055.79	6,004.01	15.39	15.34	118.18	-382.99	722.80	781.93	751.10	30.83	25.361		
6,200.00	6,139.77	6,155.11	6,102.42	15.67	15.62	118.18	-387.60	735.47	793.55	762.15	31.40	25.272		
6,300.00	6,238.72	6,254.43	6,200.82	15.96	15.91	118.18	-392.21	748.13	805.16	773.20	31.97	25.185		
6,400.00	6,337.67	6,353.76	6,299.22	16.25	16.20	118.18	-396.82	760.80	816.78	784.24	32.54	25.100		
6,500.00	6,436.61	6,453.24	6,398.12	16.54	16.43	118.43	-401.44	769.92	828.39	795.33	33.06	25.057		
6,600.00	6,536.02	6,550.86	6,495.39	16.77	16.57	-175.21	-405.95	764.57	840.14	806.71	33.43	25.132		
6,700.00	6,635.32	6,646.67	6,588.97	16.92	16.65	-110.96	-410.25	744.92	852.04	818.38	33.66	25.314		
6,800.00	6,732.10	6,740.92	6,677.14	17.02	16.70	-98.20	-414.26	712.10	863.75	829.96	33.79	25.564		
6,900.00	6,823.98	6,833.84	6,758.39	17.07	16.72	-92.64	-417.92	667.34	874.96	841.11	33.85	25.849		
7,000.00	6,908.69	6,925.65	6,831.45	17.10	16.73	-89.24	-421.17	611.96	885.33	851.45	33.88	26.130		
7,100.00	6,984.15	7,016.57	6,895.22	17.12	16.75	-86.86	-423.96	547.33	894.60	860.66	33.94	26.359		
7,200.00	7,048.50	7,106.78	6,948.77	17.17	16.79	-85.12	-426.26	474.86	902.50	868.42	34.08	26.483		
7,300.00	7,100.16	7,196.47	6,991.35	17.30	16.88	-83.87	-428.02	396.03	908.81	874.46	34.36	26.451		
7,400.00	7,137.85	7,285.80	7,022.35	17.53	17.05	-83.04	-429.24	312.33	913.37	878.55	34.82	26.229		
7,500.00	7,160.65	7,374.94	7,041.33	17.89	17.31	-82.58	-429.89	225.31	916.06	880.58	35.49	25.814		
7,600.00	7,168.01	7,464.04	7,047.99	18.37	17.68	-82.48	-429.96	136.54	916.81	880.47	36.34	25.231		
7,700.00	7,168.19	7,563.66	7,048.01	18.96	18.24	-82.47	-429.69	36.91	916.74	879.25	37.49	24.450		
7,800.00	7,168.36	7,663.66	7,048.02	19.68	18.93	-82.46	-429.42	-63.08	916.67	877.78	38.89	23.568		
7,900.00	7,168.54	7,763.66	7,048.03	20.51	19.76	-82.45	-429.15	-163.08	916.61	876.09	40.52	22.620		
8,000.00	7,168.72	7,863.66	7,048.05	21.44	20.69	-82.43	-428.89	-263.08	916.54	874.19	42.35	21.641		
8,100.00	7,168.90	7,963.66	7,048.06	22.45	21.71	-82.42	-428.62	-363.08	916.48	872.12	44.36	20.662		
8,200.00	7,169.08	8,063.66	7,048.07	23.53	22.81	-82.41	-428.35	-463.08	916.41	869.90	46.51	19.703		
8,300.00	7,169.26	8,163.66	7,048.09	24.68	23.97	-82.40	-428.08	-563.08	916.34	867.54	48.80	18.777		
8,400.00	7,169.44	8,263.66	7,048.10	25.88	25.20	-82.39	-427.81	-663.08	916.28	865.07	51.20	17.895		
8,500.00	7,169.62	8,363.66	7,048.11	27.14	26.47	-82.38	-427.54	-763.08	916.21	862.51	53.71	17.060		
8,600.00	7,169.80	8,463.66	7,048.12	28.43	27.78	-82.37	-427.27	-863.08	916.15	859.85	56.29	16.275		
8,700.00	7,169.98	8,563.66	7,048.14	29.77	29.14	-82.36	-427.01	-963.08	916.08	857.13	58.95	15.539		
8,800.00	7,170.16	8,663.66	7,048.15	31.13	30.52	-82.35	-426.74	-1,063.08	916.01	854.34	61.68	14.851		
8,900.00	7,170.34	8,763.66	7,048.16	32.53	31.93	-82.33	-426.47	-1,163.08	915.95	851.49	64.46	14.210		
9,000.00	7,170.51	8,863.66	7,048.18	33.95	33.37	-82.32	-426.20	-1,263.08	915.88	848.59	67.29	13.611		
9,100.00	7,170.69	8,963.66	7,048.19	35.39	34.82	-82.31	-425.93	-1,363.08	915.82	845.65	70.16	13.053		
9,200.00	7,170.87	9,063.66	7,048.20	36.85	36.30	-82.30	-425.66	-1,463.08	915.75	842.68	73.07	12.532		
9,300.00	7,171.05	9,163.66	7,048.21	38.32	37.79	-82.29	-425.40	-1,563.08	915.69	839.67	76.02	12.045		
9,400.00	7,171.23	9,263.66	7,048.23	39.82	39.29	-82.28	-425.13	-1,663.08	915.62	836.63	78.99	11.591		
9,500.00	7,171.41	9,363.66	7,048.24	41.32	40.81	-82.27	-424.86	-1,763.08	915.55	833.56	81.99	11.166		
9,600.00	7,171.59	9,463.66	7,048.25	42.84	42.34	-82.26	-424.59	-1,863.08	915.49	830.47	85.02	10.768		
9,700.00	7,171.77	9,563.66	7,048.27	44.37	43.88	-82.25	-424.32	-1,963.07	915.42	827.36	88.06	10.395		
9,800.00	7,171.95	9,663.66	7,048.28	45.91	45.43	-82.24	-424.05	-2,063.07	915.36	824.23	91.13	10.045		
9,900.00	7,172.13	9,763.66	7,048.29	47.46	46.99	-82.22	-423.78	-2,163.07	915.29	821.08	94.21	9.716		
10,000.00	7,172.31	9,863.66	7,048.30	49.02	48.56	-82.21	-423.52	-2,263.07	915.23	817.92	97.31	9.406		
10,100.00	7,172.49	9,963.66	7,048.32	50.58	50.13	-82.20	-423.25	-2,363.07	915.16	814.75	100.42	9.114		
10,200.00	7,172.66	10,063.66	7,048.33	52.15	51.71	-82.19	-422.98	-2,463.07	915.10	811.56	103.54	8.838		
10,300.00	7,172.84	10,163.66	7,048.34	53.73	53.29	-82.18	-422.71	-2,563.07	915.03	808.36	106.68	8.578		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,173.02	10,263.66	7,048.36	55.31	54.88	-82.17	-422.44	-2,663.07	914.97	805.15	109.82	8.331	
10,500.00	7,173.20	10,363.66	7,048.37	56.90	56.48	-82.16	-422.17	-2,763.07	914.90	801.92	112.98	8.098	
10,600.00	7,173.38	10,463.66	7,048.38	58.49	58.08	-82.15	-421.90	-2,863.07	914.84	798.70	116.14	7.877	
10,700.00	7,173.56	10,563.66	7,048.39	60.08	59.68	-82.14	-421.64	-2,963.07	914.77	795.46	119.31	7.667	
10,800.00	7,173.74	10,663.66	7,048.41	61.68	61.28	-82.12	-421.37	-3,063.07	914.71	792.21	122.49	7.467	
10,900.00	7,173.92	10,763.66	7,048.42	63.29	62.89	-82.11	-421.10	-3,163.07	914.64	788.96	125.68	7.278	
11,000.00	7,174.10	10,863.66	7,048.43	64.90	64.51	-82.10	-420.83	-3,263.07	914.58	785.70	128.87	7.097	
11,100.00	7,174.28	10,963.66	7,048.45	66.51	66.12	-82.09	-420.56	-3,363.07	914.51	782.44	132.07	6.924	
11,200.00	7,174.46	11,063.66	7,048.46	68.12	67.74	-82.08	-420.29	-3,463.07	914.45	779.17	135.28	6.760	
11,300.00	7,174.63	11,163.66	7,048.47	69.74	69.36	-82.07	-420.03	-3,563.07	914.38	775.90	138.48	6.603	
11,400.00	7,174.81	11,263.66	7,048.48	71.35	70.99	-82.06	-419.76	-3,663.07	914.32	772.62	141.70	6.453	
11,500.00	7,174.99	11,363.66	7,048.50	72.98	72.61	-82.05	-419.49	-3,763.06	914.25	769.33	144.92	6.309	
11,600.00	7,175.17	11,463.66	7,048.51	74.60	74.24	-82.04	-419.22	-3,863.06	914.19	766.05	148.14	6.171	
11,700.00	7,175.35	11,563.66	7,048.52	76.22	75.87	-82.02	-418.95	-3,963.06	914.12	762.75	151.37	6.039	
11,800.00	7,175.53	11,663.66	7,048.54	77.85	77.50	-82.01	-418.68	-4,063.06	914.06	759.46	154.60	5.913	
11,900.00	7,175.71	11,763.66	7,048.55	79.48	79.13	-82.00	-418.41	-4,163.06	913.99	756.16	157.83	5.791	
12,000.00	7,175.89	11,863.65	7,048.56	81.11	80.77	-81.99	-418.15	-4,263.06	913.93	752.86	161.07	5.674	
12,100.00	7,176.07	11,963.65	7,048.57	82.75	82.41	-81.98	-417.88	-4,363.06	913.86	749.56	164.31	5.562	
12,200.00	7,176.25	12,063.65	7,048.59	84.38	84.04	-81.97	-417.61	-4,463.06	913.80	746.25	167.55	5.454	
12,300.00	7,176.43	12,163.65	7,048.60	86.02	85.68	-81.96	-417.34	-4,563.06	913.73	742.94	170.79	5.350	
12,400.00	7,176.61	12,263.65	7,048.61	87.65	87.32	-81.95	-417.07	-4,663.06	913.67	739.63	174.04	5.250	
12,500.00	7,176.78	12,363.65	7,048.63	89.29	88.96	-81.94	-416.80	-4,763.06	913.60	736.31	177.29	5.153	
12,600.00	7,176.96	12,463.65	7,048.64	90.93	90.61	-81.92	-416.53	-4,863.06	913.54	733.00	180.54	5.060	
12,700.00	7,177.14	12,563.65	7,048.65	92.57	92.25	-81.91	-416.27	-4,963.06	913.47	729.68	183.80	4.970	
12,800.00	7,177.32	12,663.65	7,048.66	94.21	93.89	-81.90	-416.00	-5,063.06	913.41	726.36	187.05	4.883	
12,900.00	7,177.50	12,763.65	7,048.68	95.86	95.54	-81.89	-415.73	-5,163.06	913.35	723.04	190.31	4.799	
13,000.00	7,177.68	12,863.65	7,048.69	97.50	97.19	-81.88	-415.46	-5,263.06	913.28	719.71	193.57	4.718	
13,100.00	7,177.86	12,963.65	7,048.70	99.14	98.83	-81.87	-415.19	-5,363.06	913.22	716.39	196.83	4.640	
13,200.00	7,178.04	13,063.65	7,048.72	100.79	100.48	-81.86	-414.92	-5,463.06	913.15	713.06	200.09	4.564	
13,300.00	7,178.22	13,163.65	7,048.73	102.44	102.13	-81.85	-414.66	-5,563.06	913.09	709.73	203.36	4.490	
13,400.00	7,178.40	13,263.65	7,048.74	104.08	103.78	-81.84	-414.39	-5,663.05	913.02	706.40	206.62	4.419	
13,500.00	7,178.58	13,363.65	7,048.75	105.73	105.43	-81.82	-414.12	-5,763.05	912.96	703.07	209.89	4.350	
13,600.00	7,178.75	13,463.65	7,048.77	107.38	107.08	-81.81	-413.85	-5,863.05	912.90	699.74	213.16	4.283	
13,700.00	7,178.93	13,563.65	7,048.78	109.03	108.73	-81.80	-413.58	-5,963.05	912.83	696.41	216.43	4.218	
13,800.00	7,179.11	13,663.65	7,048.79	110.68	110.38	-81.79	-413.31	-6,063.05	912.77	693.07	219.70	4.155	
13,900.00	7,179.29	13,763.65	7,048.81	112.33	112.04	-81.78	-413.04	-6,163.05	912.70	689.74	222.97	4.093	
14,000.00	7,179.47	13,863.65	7,048.82	113.98	113.69	-81.77	-412.78	-6,263.05	912.64	686.40	226.24	4.034	
14,100.00	7,179.65	13,963.65	7,048.83	115.63	115.35	-81.76	-412.51	-6,363.05	912.58	683.06	229.51	3.976	
14,200.00	7,179.83	14,063.65	7,048.84	117.29	117.00	-81.75	-412.24	-6,463.05	912.51	679.72	232.79	3.920	
14,300.00	7,180.01	14,163.65	7,048.86	118.94	118.65	-81.74	-411.97	-6,563.05	912.45	676.39	236.06	3.865	
14,400.00	7,180.19	14,263.65	7,048.87	120.59	120.31	-81.72	-411.70	-6,663.05	912.38	673.05	239.34	3.812	
14,500.00	7,180.37	14,363.65	7,048.88	122.25	121.97	-81.71	-411.43	-6,763.05	912.32	669.71	242.61	3.760	
14,600.00	7,180.55	14,463.65	7,048.90	123.90	123.62	-81.70	-411.16	-6,863.05	912.26	666.36	245.89	3.710	
14,700.00	7,180.73	14,563.65	7,048.91	125.56	125.28	-81.69	-410.90	-6,963.05	912.19	663.02	249.17	3.661	
14,800.00	7,180.90	14,663.65	7,048.92	127.21	126.94	-81.68	-410.63	-7,063.05	912.13	659.68	252.45	3.613	
14,900.00	7,181.08	14,763.65	7,048.93	128.87	128.59	-81.67	-410.36	-7,163.05	912.06	656.34	255.73	3.567	
15,000.00	7,181.26	14,863.65	7,048.95	130.52	130.25	-81.66	-410.09	-7,263.05	912.00	652.99	259.01	3.521	
15,100.00	7,181.44	14,963.65	7,048.96	132.18	131.91	-81.65	-409.82	-7,363.05	911.94	649.65	262.29	3.477	
15,200.00	7,181.62	15,063.65	7,048.97	133.84	133.57	-81.64	-409.55	-7,463.05	911.87	646.30	265.57	3.434	
15,300.00	7,181.80	15,163.65	7,048.99	135.50	135.23	-81.62	-409.29	-7,563.04	911.81	642.96	268.85	3.391	
15,400.00	7,181.98	15,263.65	7,049.00	137.15	136.89	-81.61	-409.02	-7,663.04	911.75	639.61	272.13	3.350	
15,412.37	7,182.00	15,276.01	7,049.00	137.36	137.09	-81.61	-408.98	-7,675.41	911.74	639.20	272.54	3.345 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-80.14	0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-80.14	0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-80.14	0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	299.85	299.83	3.35	3.35	118.34	-80.22	2.30	81.06	73.40	7.66	10.583	
400.00	399.84	399.65	399.49	3.42	3.41	117.87	-80.44	7.50	83.83	76.04	7.79	10.762	
500.00	499.45	499.34	498.79	3.51	3.50	117.16	-80.82	16.17	88.44	80.47	7.97	11.097	
600.00	598.70	601.02	597.72	3.63	3.62	116.42	-81.34	28.02	94.89	86.68	8.21	11.557	
700.00	697.66	701.31	696.65	3.78	3.77	116.62	-81.89	40.54	102.40	93.89	8.51	12.039	
800.00	796.60	801.59	795.57	3.95	3.94	116.84	-82.43	53.06	109.93	101.08	8.85	12.426	
900.00	895.55	901.88	894.50	4.15	4.13	117.02	-82.98	65.58	117.46	108.23	9.23	12.726	
1,000.00	994.50	1,002.16	993.42	4.37	4.34	117.19	-83.53	78.10	124.99	115.34	9.65	12.954	
1,100.00	1,093.45	1,102.45	1,092.35	4.60	4.56	117.33	-84.07	90.62	132.53	122.43	10.10	13.122	
1,200.00	1,192.39	1,202.73	1,191.27	4.85	4.80	117.46	-84.62	103.14	140.06	129.49	10.58	13.243	
1,300.00	1,291.34	1,303.02	1,290.19	5.10	5.05	117.58	-85.17	115.66	147.60	136.52	11.08	13.325	
1,400.00	1,390.29	1,403.30	1,389.12	5.37	5.31	117.68	-85.71	128.18	155.13	143.54	11.60	13.378	
1,500.00	1,489.24	1,503.58	1,488.04	5.65	5.57	117.78	-86.26	140.70	162.67	150.54	12.13	13.407	
1,600.00	1,588.18	1,603.87	1,586.97	5.94	5.85	117.87	-86.81	153.22	170.21	157.52	12.69	13.418	
1,700.00	1,687.13	1,704.15	1,685.89	6.23	6.13	117.94	-87.35	165.74	177.75	164.50	13.25	13.416	
1,800.00	1,786.08	1,804.44	1,784.82	6.53	6.41	118.02	-87.90	178.26	185.28	171.47	13.82	13.408	
1,900.00	1,885.03	1,904.72	1,883.74	6.69	6.56	118.08	-88.45	190.78	192.82	179.08	13.74	14.031	
2,000.00	1,983.97	2,005.01	1,982.67	6.72	6.58	118.15	-88.99	203.30	200.36	186.56	13.80	14.518	
2,100.00	2,082.92	2,105.29	2,081.59	6.77	6.63	118.20	-89.54	215.82	207.90	194.01	13.89	14.968	
2,200.00	2,181.87	2,205.58	2,180.52	6.83	6.69	118.26	-90.09	228.34	215.44	201.43	14.01	15.382	
2,300.00	2,280.82	2,305.86	2,279.44	6.91	6.76	118.31	-90.63	240.86	222.98	208.83	14.15	15.757	
2,400.00	2,379.76	2,406.15	2,378.36	7.00	6.85	118.36	-91.18	253.38	230.52	216.19	14.32	16.094	
2,500.00	2,478.71	2,506.43	2,477.29	7.10	6.94	118.40	-91.73	265.90	238.05	223.53	14.52	16.394	
2,600.00	2,577.66	2,606.72	2,576.21	7.22	7.06	118.44	-92.27	278.42	245.59	230.85	14.74	16.657	
2,700.00	2,676.61	2,707.00	2,675.14	7.34	7.18	118.48	-92.82	290.94	253.13	238.14	14.99	16.885	
2,800.00	2,775.55	2,807.29	2,774.06	7.48	7.31	118.52	-93.37	303.46	260.67	245.41	15.26	17.080	
2,900.00	2,874.50	2,907.57	2,872.99	7.63	7.46	118.55	-93.91	315.98	268.21	252.66	15.55	17.245	
3,000.00	2,973.45	3,007.86	2,971.91	7.79	7.61	118.58	-94.46	328.51	275.75	259.89	15.86	17.381	
3,100.00	3,072.40	3,108.14	3,070.84	7.96	7.78	118.61	-95.01	341.03	283.29	267.10	16.20	17.492	
3,200.00	3,171.34	3,208.43	3,169.76	8.13	7.95	118.64	-95.55	353.55	290.83	274.29	16.54	17.579	
3,300.00	3,270.29	3,308.71	3,268.69	8.32	8.13	118.67	-96.10	366.07	298.37	281.46	16.91	17.645	
3,400.00	3,369.24	3,409.00	3,367.61	8.51	8.32	118.70	-96.65	378.59	305.91	288.62	17.29	17.693	
3,500.00	3,468.19	3,509.28	3,466.54	8.71	8.52	118.72	-97.19	391.11	313.45	295.77	17.69	17.723	
3,600.00	3,567.13	3,609.56	3,565.46	8.92	8.72	118.75	-97.74	403.63	320.99	302.90	18.09	17.739	
3,700.00	3,666.08	3,709.85	3,664.38	9.14	8.93	118.77	-98.29	416.15	328.53	310.02	18.52	17.742	
3,800.00	3,765.03	3,789.87	3,763.31	9.36	9.11	118.79	-98.83	428.67	336.07	317.17	18.91	17.776	
3,900.00	3,863.98	3,889.58	3,862.23	9.58	9.33	118.81	-99.38	441.19	343.61	324.26	19.35	17.759	
4,000.00	3,962.92	3,989.30	3,961.16	9.81	9.55	118.83	-99.93	453.71	351.15	331.35	19.80	17.734	
4,100.00	4,061.87	4,089.01	4,060.08	10.05	9.78	118.85	-100.47	466.23	358.69	338.43	20.26	17.702	
4,200.00	4,160.82	4,188.73	4,159.01	10.29	10.01	118.87	-101.02	478.75	366.23	345.50	20.73	17.663	
4,300.00	4,259.77	4,288.44	4,257.93	10.53	10.25	118.89	-101.57	491.27	373.77	352.56	21.21	17.620	
4,400.00	4,358.71	4,388.16	4,356.86	10.78	10.49	118.90	-102.11	503.79	381.32	359.62	21.70	17.572	
4,500.00	4,457.66	4,487.87	4,455.78	11.03	10.74	118.92	-102.66	516.31	388.86	366.66	22.19	17.521	
4,600.00	4,556.61	4,587.59	4,554.71	11.28	10.98	118.93	-103.21	528.83	396.40	373.70	22.69	17.466	
4,700.00	4,655.56	4,687.30	4,653.63	11.54	11.24	118.95	-103.75	541.35	403.94	380.73	23.20	17.410	
4,800.00	4,754.50	4,787.02	4,752.55	11.80	11.49	118.96	-104.30	553.87	411.48	387.76	23.71	17.351	
4,900.00	4,853.45	4,886.73	4,851.48	12.07	11.75	118.98	-104.85	566.39	419.02	394.78	24.23	17.291	
5,000.00	4,952.40	4,986.45	4,950.40	12.33	12.01	118.99	-105.39	578.91	426.56	401.80	24.76	17.230	
5,100.00	5,051.35	5,086.16	5,049.33	12.60	12.27	119.00	-105.94	591.43	434.10	408.81	25.28	17.168	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,150.29	5,185.88	5,148.25	12.87	12.53	119.02	-106.49	603.95	441.64	415.82	25.82	17.106		
5,300.00	5,249.24	5,285.59	5,247.18	13.14	12.80	119.03	-107.03	616.47	449.18	422.83	26.35	17.044		
5,400.00	5,348.19	5,385.31	5,346.10	13.42	13.07	119.04	-107.58	628.99	456.72	429.83	26.90	16.981		
5,500.00	5,447.14	5,485.02	5,445.03	13.69	13.34	119.05	-108.13	641.51	464.26	436.82	27.44	16.919		
5,600.00	5,546.08	5,584.74	5,543.95	13.97	13.61	119.06	-108.67	654.03	471.80	443.81	27.99	16.857		
5,700.00	5,645.03	5,684.46	5,642.88	14.25	13.88	119.07	-109.22	666.55	479.34	450.80	28.54	16.796		
5,800.00	5,743.98	5,784.17	5,741.80	14.53	14.16	119.08	-109.77	679.07	486.88	457.79	29.09	16.735		
5,900.00	5,842.93	5,883.89	5,840.73	14.82	14.44	119.09	-110.31	691.59	494.43	464.77	29.65	16.674		
6,000.00	5,941.87	5,983.60	5,939.65	15.10	14.72	119.10	-110.86	704.11	501.97	471.75	30.21	16.615		
6,100.00	6,040.82	6,083.32	6,038.57	15.39	14.99	119.11	-111.41	716.63	509.51	478.73	30.78	16.556		
6,200.00	6,139.77	6,183.03	6,137.50	15.67	15.28	119.12	-111.95	729.15	517.05	485.71	31.34	16.498		
6,300.00	6,238.72	6,282.75	6,236.42	15.96	15.56	119.13	-112.50	741.67	524.59	492.68	31.91	16.441		
6,400.00	6,337.67	6,382.46	6,335.35	16.25	15.84	119.14	-113.05	754.19	532.13	499.65	32.48	16.384		
6,500.00	6,436.61	6,482.18	6,434.27	16.54	16.12	119.15	-113.59	766.71	539.67	506.62	33.05	16.329		
6,600.00	6,536.02	6,578.75	6,530.50	16.77	16.34	-175.68	-114.30	773.96	547.44	513.95	33.49	16.348		
6,700.00	6,635.32	6,674.67	6,626.05	16.92	16.47	-112.65	-115.53	766.92	555.76	522.00	33.76	16.461		
6,800.00	6,732.10	6,770.69	6,719.57	17.02	16.55	-101.03	-117.27	745.60	564.45	530.51	33.94	16.632		
6,900.00	6,823.98	6,866.94	6,809.02	17.07	16.59	-96.52	-119.47	710.38	573.29	539.25	34.03	16.844		
7,000.00	6,908.69	6,963.53	6,892.41	17.10	16.62	-94.05	-122.10	661.91	582.07	547.98	34.09	17.075		
7,100.00	6,984.15	7,060.56	6,967.83	17.12	16.64	-92.48	-125.10	601.09	590.59	556.43	34.15	17.293		
7,200.00	7,048.50	7,158.13	7,033.47	17.17	16.69	-91.42	-128.41	529.10	598.64	564.36	34.28	17.462		
7,300.00	7,100.16	7,256.32	7,087.64	17.30	16.80	-90.69	-131.95	447.39	606.03	571.48	34.55	17.540		
7,400.00	7,137.85	7,355.21	7,128.84	17.53	16.99	-90.23	-135.67	357.68	612.60	577.59	35.01	17.499		
7,500.00	7,160.65	7,454.84	7,155.80	17.89	17.29	-89.99	-139.45	261.95	618.16	582.48	35.68	17.323		
7,600.00	7,168.01	7,555.23	7,167.53	18.37	17.71	-89.96	-143.22	162.43	622.61	586.03	36.57	17.023		
7,700.00	7,168.19	7,655.37	7,168.14	18.96	18.25	-90.00	-146.90	62.35	626.46	588.76	37.70	16.616		
7,800.00	7,168.36	7,755.30	7,168.32	19.68	18.92	-90.00	-150.57	-37.50	630.31	591.23	39.07	16.132		
7,900.00	7,168.54	7,855.22	7,168.50	20.51	19.70	-90.00	-154.23	-137.36	634.16	593.48	40.67	15.591		
8,000.00	7,168.72	7,955.15	7,168.68	21.44	20.60	-90.00	-157.90	-237.22	638.00	595.52	42.48	15.019		
8,100.00	7,168.90	8,055.07	7,168.86	22.45	21.58	-90.00	-161.57	-337.08	641.85	597.39	44.47	14.435		
8,200.00	7,169.08	8,155.00	7,169.03	23.53	22.65	-90.00	-165.23	-436.94	645.70	599.09	46.61	13.854		
8,300.00	7,169.26	8,254.93	7,169.21	24.68	23.79	-90.00	-168.90	-536.80	649.55	600.66	48.89	13.287		
8,400.00	7,169.44	8,354.85	7,169.39	25.88	24.98	-90.00	-172.57	-636.66	653.40	602.11	51.28	12.741		
8,500.00	7,169.62	8,454.78	7,169.57	27.14	26.23	-90.00	-176.23	-736.51	657.25	603.47	53.78	12.221		
8,600.00	7,169.80	8,554.70	7,169.75	28.43	27.52	-90.00	-179.90	-836.37	661.09	604.73	56.37	11.729		
8,700.00	7,169.98	8,654.63	7,169.93	29.77	28.85	-90.00	-183.56	-936.23	664.94	605.92	59.03	11.265		
8,800.00	7,170.16	8,754.56	7,170.11	31.13	30.22	-90.00	-187.23	-1,036.09	668.79	607.04	61.76	10.830		
8,900.00	7,170.34	8,854.48	7,170.29	32.53	31.61	-90.00	-190.90	-1,135.95	672.64	608.10	64.54	10.422		
9,000.00	7,170.51	8,954.41	7,170.47	33.95	33.03	-90.00	-194.56	-1,235.81	676.49	609.11	67.38	10.040		
9,100.00	7,170.69	9,054.33	7,170.65	35.39	34.47	-90.00	-198.23	-1,335.66	680.34	610.08	70.26	9.684		
9,200.00	7,170.87	9,154.26	7,170.83	36.85	35.93	-90.00	-201.89	-1,435.52	684.19	611.01	73.18	9.350		
9,300.00	7,171.05	9,254.19	7,171.01	38.32	37.41	-90.00	-205.56	-1,535.38	688.03	611.90	76.13	9.038		
9,400.00	7,171.23	9,354.11	7,171.18	39.82	38.90	-90.00	-209.23	-1,635.24	691.88	612.77	79.12	8.745		
9,500.00	7,171.41	9,454.04	7,171.36	41.32	40.40	-90.00	-212.89	-1,735.10	695.73	613.60	82.13	8.471		
9,600.00	7,171.59	9,553.96	7,171.54	42.84	41.92	-90.00	-216.56	-1,834.96	699.58	614.42	85.16	8.215		
9,700.00	7,171.77	9,672.36	7,171.76	44.37	43.74	-90.00	-219.91	-1,953.30	702.68	614.10	88.58	7.933		
9,800.00	7,171.95	9,778.21	7,171.94	45.91	45.38	-90.00	-220.24	-2,059.15	703.15	611.37	91.77	7.662		
9,900.00	7,172.13	9,878.21	7,172.12	47.46	46.93	-90.00	-220.44	-2,159.15	703.54	608.66	94.88	7.415		
10,000.00	7,172.31	9,978.21	7,172.30	49.02	48.49	-90.00	-220.65	-2,259.15	703.93	605.93	98.00	7.183		
10,100.00	7,172.49	10,078.21	7,172.48	50.58	50.06	-90.00	-220.86	-2,359.15	704.31	603.18	101.13	6.964		
10,200.00	7,172.66	10,178.21	7,172.66	52.15	51.64	-90.00	-221.07	-2,459.14	704.70	600.42	104.28	6.758		
10,300.00	7,172.84	10,278.20	7,172.84	53.73	53.22	-90.00	-221.28	-2,559.14	705.09	597.65	107.44	6.563		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,173.02	10,378.20	7,173.02	55.31	54.81	-90.00	-221.49	-2,659.14	705.48	594.87	110.61	6.378		
10,500.00	7,173.20	10,478.20	7,173.20	56.90	56.40	-90.00	-221.70	-2,759.14	705.87	592.08	113.79	6.203		
10,600.00	7,173.38	10,578.20	7,173.38	58.49	58.00	-90.00	-221.91	-2,859.14	706.26	589.28	116.98	6.037		
10,700.00	7,173.56	10,678.20	7,173.56	60.08	59.60	-90.00	-222.12	-2,959.14	706.65	586.47	120.18	5.880		
10,800.00	7,173.74	10,778.20	7,173.74	61.68	61.20	-90.00	-222.33	-3,059.14	707.04	583.65	123.39	5.730		
10,900.00	7,173.92	10,878.20	7,173.92	63.29	62.81	-90.00	-222.54	-3,159.14	707.43	580.83	126.60	5.588		
11,000.00	7,174.10	10,978.20	7,174.10	64.90	64.42	-90.00	-222.75	-3,259.13	707.82	578.00	129.82	5.452		
11,100.00	7,174.28	11,078.20	7,174.27	66.51	66.03	-90.00	-222.96	-3,359.13	708.21	575.16	133.05	5.323		
11,200.00	7,174.46	11,178.20	7,174.45	68.12	67.65	-90.00	-223.17	-3,459.13	708.60	572.32	136.28	5.200		
11,300.00	7,174.63	11,278.20	7,174.63	69.74	69.27	-90.00	-223.38	-3,559.13	708.99	569.47	139.51	5.082		
11,400.00	7,174.81	11,378.20	7,174.81	71.35	70.89	-90.00	-223.59	-3,659.13	709.38	566.62	142.76	4.969		
11,500.00	7,174.99	11,478.20	7,174.99	72.98	72.51	-90.00	-223.80	-3,759.13	709.77	563.77	146.00	4.861		
11,600.00	7,175.17	11,578.19	7,175.17	74.60	74.14	-90.00	-224.01	-3,859.13	710.16	560.90	149.25	4.758		
11,700.00	7,175.35	11,678.19	7,175.35	76.22	75.77	-90.00	-224.22	-3,959.13	710.55	558.04	152.51	4.659		
11,800.00	7,175.53	11,778.19	7,175.53	77.85	77.40	-90.00	-224.43	-4,059.13	710.94	555.17	155.77	4.564		
11,900.00	7,175.71	11,878.19	7,175.71	79.48	79.03	-90.00	-224.64	-4,159.12	711.32	552.30	159.03	4.473		
12,000.00	7,175.89	11,978.19	7,175.89	81.11	80.66	-90.00	-224.85	-4,259.12	711.71	549.42	162.29	4.385		
12,100.00	7,176.07	12,078.19	7,176.07	82.75	82.30	-90.00	-225.06	-4,359.12	712.10	546.54	165.56	4.301		
12,200.00	7,176.25	12,178.19	7,176.25	84.38	83.93	-90.00	-225.27	-4,459.12	712.49	543.66	168.83	4.220		
12,300.00	7,176.43	12,278.19	7,176.42	86.02	85.57	-90.00	-225.48	-4,559.12	712.88	540.78	172.11	4.142		
12,400.00	7,176.61	12,378.19	7,176.60	87.65	87.21	-90.00	-225.69	-4,659.12	713.27	537.89	175.38	4.067		
12,500.00	7,176.78	12,478.19	7,176.78	89.29	88.85	-90.00	-225.90	-4,759.12	713.66	535.00	178.66	3.994		
12,600.00	7,176.96	12,578.19	7,176.96	90.93	90.49	-90.00	-226.11	-4,859.12	714.05	532.11	181.94	3.925		
12,700.00	7,177.14	12,678.19	7,177.14	92.57	92.13	-90.00	-226.32	-4,959.12	714.44	529.21	185.23	3.857		
12,800.00	7,177.32	12,778.19	7,177.32	94.21	93.78	-90.00	-226.53	-5,059.11	714.83	526.32	188.51	3.792		
12,900.00	7,177.50	12,878.19	7,177.50	95.86	95.42	-90.00	-226.73	-5,159.11	715.22	523.42	191.80	3.729		
13,000.00	7,177.68	12,978.18	7,177.68	97.50	97.07	-90.00	-226.94	-5,259.11	715.61	520.52	195.09	3.668		
13,100.00	7,177.86	13,078.18	7,177.86	99.14	98.71	-90.00	-227.15	-5,359.11	716.00	517.61	198.38	3.609		
13,200.00	7,178.04	13,178.18	7,178.04	100.79	100.36	-90.00	-227.36	-5,459.11	716.39	514.71	201.68	3.552		
13,300.00	7,178.22	13,278.18	7,178.22	102.44	102.01	-90.00	-227.57	-5,559.11	716.78	511.81	204.97	3.497		
13,400.00	7,178.40	13,378.18	7,178.40	104.08	103.66	-90.00	-227.78	-5,659.11	717.17	508.90	208.27	3.443		
13,500.00	7,178.58	13,478.18	7,178.57	105.73	105.31	-90.00	-227.99	-5,759.11	717.56	505.99	211.57	3.392		
13,600.00	7,178.75	13,578.18	7,178.75	107.38	106.96	-90.00	-228.20	-5,859.11	717.95	503.08	214.86	3.341		
13,700.00	7,178.93	13,678.18	7,178.93	109.03	108.61	-90.00	-228.41	-5,959.10	718.33	500.17	218.17	3.293		
13,800.00	7,179.11	13,778.18	7,179.11	110.68	110.26	-90.00	-228.62	-6,059.10	718.72	497.26	221.47	3.245		
13,900.00	7,179.29	13,878.18	7,179.29	112.33	111.91	-90.00	-228.83	-6,159.10	719.11	494.34	224.77	3.199		
14,000.00	7,179.47	13,978.18	7,179.47	113.98	113.56	-90.00	-229.04	-6,259.10	719.50	491.43	228.08	3.155		
14,100.00	7,179.65	14,078.18	7,179.65	115.63	115.22	-90.00	-229.25	-6,359.10	719.89	488.51	231.38	3.111		
14,200.00	7,179.83	14,178.18	7,179.83	117.29	116.87	-90.00	-229.46	-6,459.10	720.28	485.59	234.69	3.069		
14,300.00	7,180.01	14,278.17	7,180.01	118.94	118.52	-90.00	-229.67	-6,559.10	720.67	482.68	237.99	3.028		
14,400.00	7,180.19	14,378.17	7,180.19	120.59	120.18	-90.00	-229.88	-6,659.10	721.06	479.76	241.30	2.988		
14,500.00	7,180.37	14,478.17	7,180.37	122.25	121.83	-90.00	-230.09	-6,759.10	721.45	476.84	244.61	2.949		
14,600.00	7,180.55	14,578.17	7,180.55	123.90	123.49	-90.00	-230.30	-6,859.09	721.84	473.92	247.92	2.912		
14,700.00	7,180.73	14,678.17	7,180.73	125.56	125.14	-90.00	-230.51	-6,959.09	722.23	470.99	251.23	2.875		
14,800.00	7,180.90	14,778.17	7,180.90	127.21	126.80	-90.00	-230.72	-7,059.09	722.62	468.07	254.55	2.839		
14,900.00	7,181.08	14,878.17	7,181.08	128.87	128.46	-90.00	-230.93	-7,159.09	723.01	465.15	257.86	2.804		
15,000.00	7,181.26	14,978.17	7,181.26	130.52	130.11	-90.00	-231.14	-7,259.09	723.40	462.22	261.17	2.770		
15,100.00	7,181.44	15,078.17	7,181.44	132.18	131.77	-90.00	-231.35	-7,359.09	723.79	459.30	264.49	2.737		
15,200.00	7,181.62	15,178.17	7,181.62	133.84	133.43	-90.00	-231.56	-7,459.09	724.18	456.37	267.80	2.704		
15,300.00	7,181.80	15,278.17	7,181.80	135.50	135.09	-90.00	-231.77	-7,559.09	724.57	453.45	271.12	2.673		
15,400.00	7,181.98	15,378.17	7,181.98	137.15	136.74	-90.00	-231.98	-7,659.08	724.96	450.52	274.44	2.642		
15,412.37	7,182.00	15,390.53	7,182.00	137.36	136.95	-90.00	-232.00	-7,671.45	725.00	450.16	274.84	2.638 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.47	-60.11	0.56	60.12				
100.00	100.00	100.00	100.00	3.28	3.28	179.47	-60.11	0.56	60.12	52.59	7.53	7.985	
200.00	200.00	200.00	200.00	3.31	3.31	179.47	-60.11	0.56	60.12	52.54	7.57	7.937 CC, ES	
300.00	299.98	300.37	300.34	3.35	3.35	118.18	-59.79	2.29	60.64	52.98	7.66	7.915	
400.00	399.84	400.71	400.55	3.42	3.42	117.63	-58.82	7.47	62.21	54.42	7.79	7.985	
500.00	499.45	501.02	500.47	3.51	3.51	116.78	-57.21	16.09	64.84	56.87	7.97	8.133	
600.00	598.70	601.15	599.87	3.63	3.63	115.92	-55.00	27.86	68.57	60.36	8.21	8.351	
700.00	697.66	701.04	698.97	3.78	3.77	116.29	-52.69	40.23	73.22	64.71	8.51	8.607	
800.00	796.60	800.93	798.06	3.95	3.94	116.66	-50.37	52.61	77.88	69.03	8.85	8.802	
900.00	895.55	900.82	897.15	4.15	4.13	116.99	-48.06	64.98	82.55	73.31	9.23	8.942	
1,000.00	994.50	1,000.71	996.25	4.37	4.33	117.28	-45.74	77.35	87.21	77.56	9.65	9.038	
1,100.00	1,093.45	1,100.60	1,095.34	4.60	4.56	117.55	-43.43	89.73	91.89	81.79	10.10	9.098	
1,200.00	1,192.39	1,200.49	1,194.43	4.85	4.79	117.78	-41.11	102.10	96.56	85.98	10.58	9.131	
1,300.00	1,291.34	1,300.38	1,293.53	5.10	5.04	118.00	-38.79	114.48	101.23	90.16	11.07	9.142	
1,400.00	1,390.29	1,400.27	1,392.62	5.37	5.29	118.19	-36.48	126.85	105.91	94.32	11.59	9.136	
1,500.00	1,489.24	1,500.16	1,491.71	5.65	5.56	118.37	-34.16	139.22	110.58	98.46	12.13	9.119	
1,600.00	1,588.18	1,600.05	1,590.81	5.94	5.83	118.54	-31.85	151.60	115.26	102.59	12.68	9.092	
1,700.00	1,687.13	1,700.06	1,689.90	6.23	6.11	118.69	-29.53	163.97	119.94	106.70	13.24	9.060	
1,800.00	1,786.08	1,800.17	1,789.00	6.53	6.39	118.83	-27.22	176.34	124.62	110.81	13.81	9.022	
1,900.00	1,885.03	1,900.28	1,888.09	6.69	6.54	118.96	-24.90	188.72	129.30	115.56	13.74	9.411	
2,000.00	1,983.97	2,000.39	1,987.18	6.72	6.57	119.09	-22.58	201.09	133.98	120.18	13.80	9.711	
2,100.00	2,082.92	2,100.50	2,086.28	6.77	6.61	119.20	-20.27	213.47	138.66	124.78	13.88	9.989	
2,200.00	2,181.87	2,200.61	2,185.37	6.83	6.67	119.31	-17.95	225.84	143.34	129.35	14.00	10.241	
2,300.00	2,280.82	2,300.72	2,284.46	6.91	6.74	119.41	-15.64	238.21	148.03	133.89	14.14	10.469	
2,400.00	2,379.76	2,400.83	2,383.56	7.00	6.83	119.50	-13.32	250.59	152.71	138.40	14.31	10.672	
2,500.00	2,478.71	2,500.94	2,482.65	7.10	6.92	119.59	-11.01	262.96	157.39	142.89	14.51	10.851	
2,600.00	2,577.66	2,601.05	2,581.74	7.22	7.03	119.67	-8.69	275.34	162.07	147.35	14.73	11.006	
2,700.00	2,676.61	2,701.16	2,680.84	7.34	7.16	119.75	-6.37	287.71	166.76	151.79	14.97	11.138	
2,800.00	2,775.55	2,801.27	2,779.93	7.48	7.29	119.82	-4.06	300.08	171.44	156.20	15.24	11.250	
2,900.00	2,874.50	2,901.38	2,879.02	7.63	7.43	119.89	-1.74	312.46	176.13	160.60	15.53	11.342	
3,000.00	2,973.45	3,001.49	2,978.12	7.79	7.58	119.96	0.57	324.83	180.81	164.97	15.84	11.415	
3,100.00	3,072.40	3,101.60	3,077.21	7.96	7.75	120.02	2.89	337.21	185.50	169.33	16.17	11.473	
3,200.00	3,171.34	3,201.71	3,176.31	8.13	7.92	120.08	5.20	349.58	190.18	173.67	16.51	11.516	
3,300.00	3,270.29	3,301.82	3,275.40	8.32	8.10	120.14	7.52	361.95	194.87	177.99	16.88	11.545	
3,400.00	3,369.24	3,401.93	3,374.49	8.51	8.28	120.19	9.84	374.33	199.55	182.29	17.26	11.563	
3,500.00	3,468.19	3,502.04	3,473.59	8.71	8.48	120.24	12.15	386.70	204.24	186.58	17.65	11.570	
3,600.00	3,567.13	3,602.15	3,572.68	8.92	8.68	120.29	14.47	399.07	208.92	190.86	18.06	11.569	
3,700.00	3,666.08	3,702.26	3,671.77	9.14	8.89	120.34	16.78	411.45	213.61	195.13	18.48	11.559	
3,800.00	3,765.03	3,802.37	3,770.87	9.36	9.10	120.38	19.10	423.82	218.29	199.38	18.91	11.543	
3,900.00	3,863.98	3,902.48	3,869.96	9.58	9.32	120.43	21.41	436.20	222.98	203.62	19.35	11.521	
4,000.00	3,962.92	4,002.59	3,969.05	9.81	9.54	120.47	23.73	448.57	227.67	207.86	19.81	11.493	
4,100.00	4,061.87	4,102.70	4,068.15	10.05	9.77	120.51	26.05	460.94	232.35	212.08	20.27	11.462	
4,200.00	4,160.82	4,202.81	4,167.24	10.29	10.01	120.55	28.36	473.32	237.04	216.30	20.74	11.427	
4,300.00	4,259.77	4,302.92	4,266.33	10.53	10.24	120.58	30.68	485.69	241.72	220.50	21.22	11.390	
4,400.00	4,358.71	4,403.03	4,365.43	10.78	10.48	120.62	32.99	498.07	246.41	224.70	21.71	11.350	
4,500.00	4,457.66	4,503.14	4,464.52	11.03	10.73	120.65	35.31	510.44	251.10	228.89	22.21	11.308	
4,600.00	4,556.61	4,603.25	4,563.62	11.28	10.98	120.69	37.62	522.81	255.78	233.08	22.71	11.264	
4,700.00	4,655.56	4,703.36	4,662.71	11.54	11.23	120.72	39.94	535.19	260.47	237.26	23.22	11.220	
4,800.00	4,754.50	4,803.47	4,761.80	11.80	11.48	120.75	42.26	547.56	265.16	241.43	23.73	11.174	
4,900.00	4,853.45	4,903.58	4,860.90	12.07	11.74	120.78	44.57	559.94	269.85	245.60	24.25	11.128	
5,000.00	4,952.40	5,003.69	4,959.99	12.33	12.00	120.81	46.89	572.31	274.53	249.76	24.77	11.082	
5,100.00	5,051.35	5,103.80	5,059.08	12.60	12.26	120.83	49.20	584.68	279.22	253.92	25.30	11.035	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,150.29	5,203.91	5,158.18	12.87	12.52	120.86	51.52	597.06	283.91	258.07	25.84	10.989	
5,300.00	5,249.24	5,304.02	5,257.27	13.14	12.79	120.89	53.83	609.43	288.59	262.22	26.37	10.942	
5,400.00	5,348.19	5,404.13	5,356.36	13.42	13.06	120.91	56.15	621.80	293.28	266.36	26.92	10.896	
5,500.00	5,447.14	5,504.24	5,455.46	13.69	13.33	120.93	58.47	634.18	297.97	270.51	27.46	10.850	
5,600.00	5,546.08	5,604.35	5,554.55	13.97	13.60	120.96	60.78	646.55	302.66	274.64	28.01	10.805	
5,700.00	5,645.03	5,704.46	5,653.64	14.25	13.87	120.98	63.10	658.93	307.34	278.78	28.56	10.760	
5,800.00	5,743.98	5,804.57	5,752.74	14.53	14.15	121.00	65.41	671.30	312.03	282.91	29.12	10.716	
5,900.00	5,842.93	5,904.68	5,851.83	14.82	14.42	121.02	67.73	683.67	316.72	287.04	29.68	10.672	
6,000.00	5,941.87	6,004.79	5,950.93	15.10	14.70	121.04	70.04	696.05	321.41	291.17	30.24	10.629	
6,100.00	6,040.82	6,095.10	6,050.02	15.39	14.95	121.06	72.36	708.42	326.09	295.32	30.78	10.596	
6,200.00	6,139.77	6,205.01	6,149.11	15.67	15.26	121.08	74.68	720.80	330.78	299.41	31.37	10.545	
6,300.00	6,238.72	6,305.12	6,248.21	15.96	15.54	121.10	76.99	733.17	335.47	303.53	31.94	10.504	
6,400.00	6,337.67	6,405.23	6,347.30	16.25	15.82	121.12	79.31	745.54	340.16	307.65	32.51	10.464	
6,500.00	6,436.61	6,505.34	6,446.39	16.54	16.11	121.14	81.62	757.92	344.84	311.76	33.08	10.424	
6,600.00	6,536.02	6,594.16	6,545.11	16.77	16.35	-174.77	83.93	770.12	349.38	315.82	33.57	10.409	
6,700.00	6,635.32	6,692.99	6,643.79	16.92	16.53	-113.75	86.25	772.79	353.99	320.08	33.91	10.438	
6,800.00	6,732.10	6,793.57	6,743.39	17.02	16.65	-104.09	88.62	759.80	358.83	324.68	34.15	10.506	
6,900.00	6,823.98	6,895.97	6,841.41	17.07	16.73	-101.43	90.97	730.65	363.76	329.46	34.30	10.606	
7,000.00	6,908.69	7,000.25	6,935.11	17.10	16.77	-100.66	93.24	685.21	368.61	334.23	34.38	10.723	
7,100.00	6,984.15	7,106.37	7,021.56	17.12	16.80	-100.62	95.37	623.92	373.20	338.76	34.44	10.837	
7,200.00	7,048.50	7,214.24	7,097.78	17.17	16.85	-100.86	97.27	547.78	377.33	342.77	34.56	10.917	
7,300.00	7,100.16	7,323.71	7,160.88	17.30	16.99	-101.19	98.89	458.52	380.83	345.99	34.84	10.932	
7,400.00	7,137.85	7,434.50	7,208.23	17.53	17.23	-101.52	100.15	358.51	383.51	348.17	35.34	10.853	
7,500.00	7,160.65	7,546.30	7,237.75	17.89	17.60	-101.79	101.00	250.84	385.24	349.14	36.10	10.670	
7,600.00	7,168.01	7,658.70	7,248.00	18.37	18.11	-101.96	101.41	139.05	385.93	348.80	37.13	10.394	
7,700.00	7,168.19	7,758.90	7,248.05	18.96	18.70	-101.94	101.56	38.85	385.93	347.62	38.32	10.072	
7,800.00	7,168.36	7,858.89	7,248.10	19.68	19.40	-101.92	101.70	-61.15	385.94	346.21	39.73	9.714	
7,900.00	7,168.54	7,958.89	7,248.16	20.51	20.21	-101.90	101.85	-161.15	385.94	344.58	41.36	9.331	
8,000.00	7,168.72	8,058.89	7,248.21	21.44	21.13	-101.88	102.00	-261.14	385.95	342.76	43.19	8.936	
8,100.00	7,168.90	8,158.89	7,248.26	22.45	22.13	-101.87	102.15	-361.14	385.95	340.77	45.18	8.542	
8,200.00	7,169.08	8,258.89	7,248.31	23.53	23.21	-101.85	102.29	-461.14	385.96	338.63	47.33	8.155	
8,300.00	7,169.26	8,358.89	7,248.36	24.68	24.36	-101.83	102.44	-561.14	385.97	336.37	49.60	7.782	
8,400.00	7,169.44	8,458.89	7,248.41	25.88	25.57	-101.81	102.59	-661.14	385.97	333.99	51.98	7.425	
8,500.00	7,169.62	8,558.89	7,248.46	27.14	26.82	-101.79	102.74	-761.14	385.98	331.51	54.47	7.087	
8,600.00	7,169.80	8,658.89	7,248.51	28.43	28.12	-101.77	102.88	-861.14	385.98	328.95	57.03	6.768	
8,700.00	7,169.98	8,758.89	7,248.57	29.77	29.46	-101.75	103.03	-961.14	385.99	326.32	59.67	6.469	
8,800.00	7,170.16	8,858.89	7,248.62	31.13	30.83	-101.73	103.18	-1,061.14	385.99	323.62	62.37	6.189	
8,900.00	7,170.34	8,958.89	7,248.67	32.53	32.23	-101.71	103.33	-1,161.14	386.00	320.87	65.13	5.927	
9,000.00	7,170.51	9,058.89	7,248.72	33.95	33.65	-101.69	103.47	-1,261.14	386.00	318.07	67.94	5.682	
9,100.00	7,170.69	9,158.89	7,248.77	35.39	35.09	-101.67	103.62	-1,361.14	386.01	315.22	70.79	5.453	
9,200.00	7,170.87	9,258.89	7,248.82	36.85	36.56	-101.65	103.77	-1,461.14	386.02	312.34	73.68	5.239	
9,300.00	7,171.05	9,358.89	7,248.87	38.32	38.04	-101.63	103.92	-1,561.14	386.02	309.42	76.60	5.039	
9,400.00	7,171.23	9,458.89	7,248.92	39.82	39.54	-101.61	104.06	-1,661.14	386.03	306.47	79.55	4.852	
9,500.00	7,171.41	9,558.89	7,248.98	41.32	41.05	-101.59	104.21	-1,761.14	386.03	303.50	82.54	4.677	
9,600.00	7,171.59	9,658.89	7,249.03	42.84	42.57	-101.57	104.36	-1,861.14	386.04	300.50	85.54	4.513	
9,700.00	7,171.77	9,758.89	7,249.08	44.37	44.10	-101.55	104.51	-1,961.14	386.04	297.48	88.57	4.359	
9,800.00	7,171.95	9,858.89	7,249.13	45.91	45.65	-101.53	104.65	-2,061.14	386.05	294.44	91.61	4.214	
9,900.00	7,172.13	9,958.89	7,249.18	47.46	47.20	-101.51	104.80	-2,161.14	386.06	291.38	94.67	4.078	
10,000.00	7,172.31	10,058.89	7,249.23	49.02	48.76	-101.49	104.95	-2,261.14	386.06	288.31	97.75	3.949	
10,100.00	7,172.49	10,158.89	7,249.28	50.58	50.32	-101.47	105.10	-2,361.14	386.07	285.22	100.85	3.828	
10,200.00	7,172.66	10,258.89	7,249.33	52.15	51.90	-101.45	105.24	-2,461.14	386.08	282.12	103.96	3.714	
10,300.00	7,172.84	10,358.89	7,249.38	53.73	53.48	-101.43	105.39	-2,561.14	386.08	279.01	107.08	3.606	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	7,173.02	10,458.89	7,249.44	55.31	55.06	-101.42	105.54	-2,661.14	386.09	275.88	110.21	3.503	
10,500.00	7,173.20	10,558.89	7,249.49	56.90	56.65	-101.40	105.69	-2,761.14	386.09	272.75	113.35	3.406	
10,600.00	7,173.38	10,658.89	7,249.54	58.49	58.25	-101.38	105.83	-2,861.14	386.10	269.60	116.50	3.314	
10,700.00	7,173.56	10,758.89	7,249.59	60.08	59.85	-101.36	105.98	-2,961.14	386.11	266.45	119.66	3.227	
10,800.00	7,173.74	10,858.89	7,249.64	61.68	61.45	-101.34	106.13	-3,061.14	386.11	263.29	122.82	3.144	
10,900.00	7,173.92	10,958.89	7,249.69	63.29	63.05	-101.32	106.28	-3,161.14	386.12	260.12	126.00	3.064	
11,000.00	7,174.10	11,058.89	7,249.74	64.90	64.66	-101.30	106.42	-3,261.14	386.13	256.95	129.18	2.989	
11,100.00	7,174.28	11,158.89	7,249.79	66.51	66.28	-101.28	106.57	-3,361.14	386.13	253.76	132.37	2.917	
11,200.00	7,174.46	11,258.89	7,249.85	68.12	67.89	-101.26	106.72	-3,461.14	386.14	250.58	135.56	2.848	
11,300.00	7,174.63	11,358.89	7,249.90	69.74	69.51	-101.24	106.87	-3,561.14	386.15	247.38	138.76	2.783	
11,400.00	7,174.81	11,458.89	7,249.95	71.35	71.13	-101.22	107.01	-3,661.14	386.15	244.19	141.97	2.720	
11,500.00	7,174.99	11,558.89	7,250.00	72.98	72.75	-101.20	107.16	-3,761.14	386.16	240.98	145.18	2.660	
11,600.00	7,175.17	11,658.89	7,250.05	74.60	74.38	-101.18	107.31	-3,861.14	386.17	237.77	148.39	2.602	
11,700.00	7,175.35	11,758.89	7,250.10	76.22	76.01	-101.16	107.46	-3,961.14	386.17	234.56	151.61	2.547	
11,800.00	7,175.53	11,858.89	7,250.15	77.85	77.64	-101.14	107.60	-4,061.14	386.18	231.35	154.84	2.494	
11,900.00	7,175.71	11,958.89	7,250.20	79.48	79.27	-101.12	107.75	-4,161.14	386.19	228.13	158.06	2.443	
12,000.00	7,175.89	12,058.89	7,250.25	81.11	80.90	-101.10	107.90	-4,261.14	386.19	224.90	161.29	2.394	
12,100.00	7,176.07	12,158.89	7,250.31	82.75	82.53	-101.08	108.05	-4,361.14	386.20	221.68	164.53	2.347	
12,200.00	7,176.25	12,258.89	7,250.36	84.38	84.17	-101.06	108.19	-4,461.14	386.21	218.44	167.76	2.302	
12,300.00	7,176.43	12,358.89	7,250.41	86.02	85.81	-101.04	108.34	-4,561.14	386.22	215.21	171.00	2.259	
12,400.00	7,176.61	12,458.89	7,250.46	87.65	87.44	-101.02	108.49	-4,661.14	386.22	211.98	174.25	2.217	
12,500.00	7,176.78	12,558.89	7,250.51	89.29	89.08	-101.00	108.64	-4,761.14	386.23	208.74	177.49	2.176	
12,600.00	7,176.96	12,658.89	7,250.56	90.93	90.72	-100.98	108.78	-4,861.14	386.24	205.49	180.74	2.137	
12,700.00	7,177.14	12,758.89	7,250.61	92.57	92.37	-100.97	108.93	-4,961.14	386.25	202.25	183.99	2.099	
12,800.00	7,177.32	12,858.89	7,250.66	94.21	94.01	-100.95	109.08	-5,061.14	386.25	199.00	187.25	2.063	
12,900.00	7,177.50	12,958.89	7,250.72	95.86	95.65	-100.93	109.23	-5,161.13	386.26	195.76	190.50	2.028	
13,000.00	7,177.68	13,058.89	7,250.77	97.50	97.30	-100.91	109.37	-5,261.13	386.27	192.51	193.76	1.994	
13,100.00	7,177.86	13,158.89	7,250.82	99.14	98.94	-100.89	109.52	-5,361.13	386.28	189.25	197.02	1.961	
13,200.00	7,178.04	13,258.89	7,250.87	100.79	100.59	-100.87	109.67	-5,461.13	386.28	186.00	200.29	1.929	
13,300.00	7,178.22	13,358.89	7,250.92	102.44	102.24	-100.85	109.81	-5,561.13	386.29	182.74	203.55	1.898	
13,400.00	7,178.40	13,458.89	7,250.97	104.08	103.89	-100.83	109.96	-5,661.13	386.30	179.48	206.82	1.868	
13,500.00	7,178.58	13,558.89	7,251.02	105.73	105.54	-100.81	110.11	-5,761.13	386.31	176.22	210.08	1.839	
13,600.00	7,178.75	13,658.89	7,251.07	107.38	107.18	-100.79	110.26	-5,861.13	386.31	172.96	213.35	1.811	
13,700.00	7,178.93	13,758.89	7,251.12	109.03	108.84	-100.77	110.40	-5,961.13	386.32	169.70	216.62	1.783	
13,800.00	7,179.11	13,858.89	7,251.18	110.68	110.49	-100.75	110.55	-6,061.13	386.33	166.43	219.90	1.757	
13,900.00	7,179.29	13,958.89	7,251.23	112.33	112.14	-100.73	110.70	-6,161.13	386.34	163.17	223.17	1.731	
14,000.00	7,179.47	14,058.89	7,251.28	113.98	113.79	-100.71	110.85	-6,261.13	386.34	159.90	226.45	1.706	
14,100.00	7,179.65	14,158.89	7,251.33	115.63	115.44	-100.69	110.99	-6,361.13	386.35	156.63	229.72	1.682	
14,200.00	7,179.83	14,258.89	7,251.38	117.29	117.10	-100.67	111.14	-6,461.13	386.36	153.36	233.00	1.658	
14,300.00	7,180.01	14,358.89	7,251.43	118.94	118.75	-100.65	111.29	-6,561.13	386.37	150.09	236.28	1.635	
14,400.00	7,180.19	14,458.89	7,251.48	120.59	120.40	-100.63	111.44	-6,661.13	386.38	146.81	239.56	1.613	
14,500.00	7,180.37	14,558.89	7,251.53	122.25	122.06	-100.61	111.58	-6,761.13	386.39	143.54	242.85	1.591	
14,600.00	7,180.55	14,658.89	7,251.59	123.90	123.71	-100.59	111.73	-6,861.13	386.39	140.26	246.13	1.570	
14,700.00	7,180.73	14,758.89	7,251.64	125.56	125.37	-100.57	111.88	-6,961.13	386.40	136.99	249.42	1.549	
14,800.00	7,180.90	14,858.89	7,251.69	127.21	127.03	-100.56	112.03	-7,061.13	386.41	133.71	252.70	1.529	
14,900.00	7,181.08	14,958.89	7,251.74	128.87	128.68	-100.54	112.17	-7,161.13	386.42	130.43	255.99	1.510	
15,000.00	7,181.26	15,058.89	7,251.79	130.52	130.34	-100.52	112.32	-7,261.13	386.43	127.15	259.28	1.490 Level 3	
15,100.00	7,181.44	15,158.89	7,251.84	132.18	132.00	-100.50	112.47	-7,361.13	386.43	123.87	262.57	1.472 Level 3	
15,200.00	7,181.62	15,258.89	7,251.89	133.84	133.65	-100.48	112.62	-7,461.13	386.44	120.59	265.85	1.454 Level 3	
15,300.00	7,181.80	15,358.89	7,251.94	135.50	135.31	-100.46	112.76	-7,561.13	386.45	117.31	269.15	1.436 Level 3	
15,400.00	7,181.98	15,458.89	7,252.00	137.15	136.97	-100.44	112.91	-7,661.13	386.46	114.02	272.44	1.419 Level 3	
15,412.37	7,182.00	15,471.25	7,252.00	137.36	137.18	-100.44	112.93	-7,673.50	386.46	113.62	272.84	1.416 Level 3, SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-200.00	1.39	200.01				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-200.00	1.39	200.01	192.48	7.53	26.565	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-200.00	1.39	200.01	192.43	7.57	26.407	CC, ES, SF
300.00	299.98	294.59	294.57	3.35	3.34	118.62	-201.26	2.31	202.18	194.53	7.65	26.413	
400.00	399.84	388.90	388.76	3.42	3.40	118.94	-205.03	5.06	208.70	200.93	7.77	26.851	
500.00	499.45	482.65	482.19	3.51	3.48	119.44	-211.26	9.60	219.56	211.63	7.94	27.670	
600.00	598.70	575.58	574.50	3.63	3.57	120.03	-219.87	15.88	234.75	226.60	8.15	28.818	
700.00	697.66	667.58	665.51	3.78	3.71	120.73	-230.77	23.83	253.60	245.20	8.40	30.179	
800.00	796.60	758.73	755.19	3.95	3.87	120.98	-243.89	33.39	274.95	266.25	8.70	31.607	
900.00	895.55	853.63	848.12	4.15	4.08	120.91	-259.43	44.73	298.19	289.13	9.05	32.934	
1,000.00	994.50	950.85	943.29	4.37	4.33	120.83	-275.50	56.44	321.57	312.11	9.46	33.993	
1,100.00	1,093.45	1,048.08	1,038.46	4.60	4.61	120.76	-291.56	68.16	344.95	335.05	9.90	34.840	
1,200.00	1,192.39	1,145.31	1,133.64	4.85	4.90	120.70	-307.63	79.87	368.33	357.96	10.37	35.510	
1,300.00	1,291.34	1,242.54	1,228.81	5.10	5.21	120.65	-323.69	91.59	391.71	380.84	10.87	36.036	
1,400.00	1,390.29	1,339.76	1,323.98	5.37	5.54	120.61	-339.76	103.30	415.10	403.71	11.39	36.441	
1,500.00	1,489.24	1,436.99	1,419.16	5.65	5.88	120.56	-355.82	115.02	438.48	426.55	11.93	36.762	
1,600.00	1,588.18	1,534.22	1,514.33	5.94	6.23	120.53	-371.89	126.73	461.86	449.38	12.48	37.000	
1,700.00	1,687.13	1,631.44	1,609.50	6.23	6.59	120.49	-387.95	138.45	485.25	472.19	13.05	37.178	
1,800.00	1,786.08	1,728.67	1,704.67	6.53	6.95	120.46	-404.02	150.16	508.63	494.99	13.63	37.308	
1,900.00	1,885.03	1,825.90	1,799.85	6.69	7.28	120.43	-420.08	161.88	532.01	518.16	13.85	38.418	
2,000.00	1,983.97	1,923.13	1,895.02	6.72	7.45	120.41	-436.15	173.59	555.39	541.56	13.84	40.136	
2,100.00	2,082.92	2,020.35	1,990.19	6.77	7.50	120.38	-452.21	185.31	578.78	564.86	13.92	41.592	
2,200.00	2,181.87	2,117.58	2,085.36	6.83	7.57	120.36	-468.28	197.02	602.16	588.14	14.02	42.938	
2,300.00	2,280.82	2,214.81	2,180.54	6.91	7.65	120.34	-484.34	208.74	625.55	611.38	14.16	44.170	
2,400.00	2,379.76	2,312.04	2,275.71	7.00	7.75	120.32	-500.41	220.45	648.93	634.60	14.33	45.289	
2,500.00	2,478.71	2,409.26	2,370.88	7.10	7.87	120.30	-516.47	232.17	672.31	657.79	14.52	46.292	
2,600.00	2,577.66	2,506.49	2,466.06	7.22	8.00	120.29	-532.54	243.88	695.70	680.95	14.74	47.184	
2,700.00	2,676.61	2,603.72	2,561.23	7.34	8.15	120.27	-548.60	255.60	719.08	704.09	14.99	47.969	
2,800.00	2,775.55	2,700.95	2,656.40	7.48	8.31	120.26	-564.67	267.31	742.46	727.20	15.26	48.651	
2,900.00	2,874.50	2,801.83	2,751.57	7.63	8.49	120.25	-580.73	279.02	765.85	750.29	15.56	49.218	
3,000.00	2,973.45	2,904.60	2,846.75	7.79	8.69	120.23	-596.80	290.74	789.23	773.35	15.89	49.683	
3,100.00	3,072.40	3,007.37	2,941.92	7.96	8.89	120.22	-612.86	302.45	812.62	796.38	16.23	50.064	
3,200.00	3,171.34	3,089.86	3,037.09	8.13	9.07	120.21	-628.92	314.17	836.00	819.44	16.56	50.486	
3,300.00	3,270.29	3,187.08	3,132.26	8.32	9.29	120.20	-644.99	325.88	859.38	842.45	16.93	50.759	
3,400.00	3,369.24	3,284.31	3,227.44	8.51	9.51	120.19	-661.05	337.60	882.77	865.45	17.32	50.971	
3,500.00	3,468.19	3,381.54	3,322.61	8.71	9.75	120.18	-677.12	349.31	906.15	888.43	17.72	51.129	
3,600.00	3,567.13	3,478.76	3,417.78	8.92	9.99	120.17	-693.18	361.03	929.54	911.39	18.14	51.240	
3,700.00	3,666.08	3,575.99	3,512.96	9.14	10.24	120.16	-709.25	372.74	952.92	934.35	18.57	51.308	
3,800.00	3,765.03	3,673.22	3,608.13	9.36	10.49	120.15	-725.31	384.46	976.30	957.29	19.02	51.340	
3,900.00	3,863.98	3,770.45	3,703.30	9.58	10.76	120.15	-741.38	396.17	999.69	980.22	19.47	51.341	
4,000.00	3,962.92	3,867.67	3,798.47	9.81	11.02	120.14	-757.44	407.89	1,023.07	1,003.13	19.94	51.313	
4,100.00	4,061.87	3,964.90	3,893.65	10.05	11.30	120.13	-773.51	419.60	1,046.46	1,026.04	20.41	51.261	
4,200.00	4,160.82	4,062.13	3,988.82	10.29	11.58	120.12	-789.57	431.32	1,069.84	1,048.94	20.90	51.190	
4,300.00	4,259.77	4,159.36	4,083.99	10.53	11.86	120.12	-805.64	443.03	1,093.22	1,071.83	21.39	51.100	
4,400.00	4,358.71	4,256.58	4,179.16	10.78	12.15	120.11	-821.70	454.75	1,116.61	1,094.71	21.90	50.996	
4,500.00	4,457.66	4,353.81	4,274.34	11.03	12.44	120.11	-837.77	466.46	1,139.99	1,117.59	22.41	50.879	
4,600.00	4,556.61	4,451.04	4,369.51	11.28	12.74	120.10	-853.83	478.18	1,163.38	1,140.45	22.92	50.753	
4,700.00	4,655.56	4,548.27	4,464.68	11.54	13.03	120.09	-869.90	489.89	1,186.76	1,163.32	23.45	50.617	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.64	-220.03	1.39	220.04					
100.00	100.00	100.00	100.00	3.28	3.28	179.64	-220.03	1.39	220.04	212.51	7.53	29.226		
200.00	200.00	200.00	200.00	3.31	3.31	179.64	-220.03	1.39	220.04	212.46	7.57	29.052 CC, ES		
300.00	299.98	293.91	293.90	3.35	3.34	118.65	-221.32	2.24	222.24	214.59	7.65	29.036 SF		
400.00	399.84	387.53	387.40	3.42	3.40	118.98	-225.15	4.78	228.86	221.09	7.77	29.449		
500.00	499.45	480.58	480.13	3.51	3.47	119.48	-231.48	8.98	239.89	231.95	7.93	30.241		
600.00	598.70	572.78	571.73	3.63	3.57	120.09	-240.22	14.78	255.30	247.16	8.14	31.361		
700.00	697.66	664.02	662.00	3.78	3.70	120.84	-251.29	22.12	274.47	266.07	8.39	32.694		
800.00	796.60	754.39	750.94	3.95	3.86	121.19	-264.60	30.95	296.18	287.50	8.69	34.097		
900.00	895.55	852.66	837.95	4.15	4.08	121.19	-279.98	41.15	320.35	311.32	9.03	35.469		
1,000.00	994.50	940.03	932.18	4.37	4.31	121.01	-298.05	53.13	345.85	336.43	9.42	36.721		
1,100.00	1,093.45	1,036.72	1,026.40	4.60	4.60	120.86	-316.13	65.12	371.35	361.49	9.86	37.665		
1,200.00	1,192.39	1,133.41	1,120.63	4.85	4.91	120.73	-334.20	77.10	396.85	386.51	10.33	38.410		
1,300.00	1,291.34	1,230.10	1,214.86	5.10	5.23	120.62	-352.27	89.08	422.35	411.52	10.83	38.992		
1,400.00	1,390.29	1,326.79	1,309.08	5.37	5.58	120.51	-370.34	101.07	447.85	436.50	11.36	39.438		
1,500.00	1,489.24	1,423.48	1,403.31	5.65	5.94	120.42	-388.41	113.05	473.36	461.46	11.90	39.792		
1,600.00	1,588.18	1,520.17	1,497.54	5.94	6.31	120.34	-406.49	125.04	498.87	486.41	12.46	40.052		
1,700.00	1,687.13	1,616.86	1,591.76	6.23	6.68	120.27	-424.56	137.02	524.37	511.34	13.03	40.246		
1,800.00	1,786.08	1,713.55	1,685.99	6.53	7.07	120.20	-442.63	149.01	549.88	536.26	13.62	40.386		
1,900.00	1,885.03	1,810.24	1,780.22	6.69	7.44	120.14	-460.70	160.99	575.39	561.53	13.86	41.515		
2,000.00	1,983.97	1,906.93	1,874.45	6.72	7.65	120.08	-478.77	172.97	600.90	587.02	13.88	43.306		
2,100.00	2,082.92	2,003.62	1,968.67	6.77	7.70	120.03	-496.85	184.96	626.41	612.46	13.95	44.898		
2,200.00	2,181.87	2,100.31	2,062.90	6.83	7.78	119.99	-514.92	196.94	651.92	637.86	14.06	46.370		
2,300.00	2,280.82	2,203.00	2,157.13	6.91	7.87	119.94	-532.99	208.93	677.43	663.23	14.20	47.702		
2,400.00	2,379.76	2,293.69	2,251.35	7.00	7.97	119.90	-551.06	220.91	702.94	688.57	14.36	48.938		
2,500.00	2,478.71	2,409.62	2,345.58	7.10	8.12	119.86	-569.14	232.90	728.45	713.87	14.58	49.962		
2,600.00	2,577.66	2,487.07	2,439.81	7.22	8.23	119.83	-587.21	244.88	753.96	739.18	14.78	51.007		
2,700.00	2,676.61	2,583.76	2,534.04	7.34	8.39	119.80	-605.28	256.87	779.47	764.44	15.03	51.862		
2,800.00	2,775.55	2,680.45	2,628.26	7.48	8.56	119.77	-623.35	268.85	804.98	789.68	15.30	52.604		
2,900.00	2,874.50	2,777.14	2,722.49	7.63	8.74	119.74	-641.42	280.83	830.50	814.90	15.60	53.242		
3,000.00	2,973.45	2,873.83	2,816.72	7.79	8.93	119.71	-659.50	292.82	856.01	840.09	15.92	53.781		
3,100.00	3,072.40	2,970.52	2,910.94	7.96	9.14	119.68	-677.57	304.80	881.52	865.27	16.25	54.231		
3,200.00	3,171.34	3,067.21	3,005.17	8.13	9.35	119.66	-695.64	316.79	907.03	890.42	16.61	54.600		
3,300.00	3,270.29	3,163.90	3,099.40	8.32	9.58	119.64	-713.71	328.77	932.55	915.56	16.99	54.894		
3,400.00	3,369.24	3,260.59	3,193.63	8.51	9.81	119.62	-731.79	340.76	958.06	940.68	17.38	55.123		
3,500.00	3,468.19	3,357.28	3,287.85	8.71	10.06	119.60	-749.86	352.74	983.57	965.78	17.79	55.292		
3,600.00	3,567.13	3,453.97	3,382.08	8.92	10.31	119.58	-767.93	364.73	1,009.08	990.87	18.21	55.410		
3,700.00	3,666.08	3,550.66	3,476.31	9.14	10.57	119.56	-786.00	376.71	1,034.60	1,015.95	18.65	55.482		
3,800.00	3,765.03	3,647.35	3,570.53	9.36	10.84	119.54	-804.07	388.69	1,060.11	1,041.01	19.10	55.514		
3,900.00	3,863.98	3,744.04	3,664.76	9.58	11.11	119.52	-822.15	400.68	1,085.62	1,066.07	19.56	55.511		
4,000.00	3,962.92	3,840.73	3,758.99	9.81	11.39	119.51	-840.22	412.66	1,111.14	1,091.11	20.03	55.478		
4,100.00	4,061.87	3,937.42	3,853.22	10.05	11.68	119.49	-858.29	424.65	1,136.65	1,116.14	20.51	55.419		
4,200.00	4,160.82	4,034.11	3,947.44	10.29	11.97	119.48	-876.36	436.63	1,162.17	1,141.16	21.00	55.338		
4,300.00	4,259.77	4,130.80	4,041.67	10.53	12.26	119.46	-894.43	448.62	1,187.68	1,166.18	21.50	55.238		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.65	-179.96	1.11	179.97					
100.00	100.00	100.00	100.00	3.28	3.28	179.65	-179.96	1.11	179.97	172.44	7.53	23.903		
200.00	200.00	200.00	200.00	3.31	3.31	179.65	-179.96	1.11	179.97	172.39	7.57	23.761	CC, ES, SF	
300.00	299.98	295.60	295.58	3.35	3.34	118.63	-181.11	2.22	182.01	174.36	7.66	23.775		
400.00	399.84	390.95	390.81	3.42	3.40	118.85	-184.55	5.52	188.14	180.37	7.78	24.197		
500.00	499.45	485.82	485.35	3.51	3.48	119.19	-190.24	10.98	198.35	190.41	7.94	24.977		
600.00	598.70	579.98	578.87	3.63	3.58	119.60	-198.12	18.53	212.61	204.45	8.16	26.064		
700.00	697.66	673.33	671.18	3.78	3.72	120.03	-208.12	28.12	230.27	221.84	8.42	27.340		
800.00	796.60	769.16	765.53	3.95	3.89	120.03	-220.24	39.74	249.82	241.08	8.74	28.583		
900.00	895.55	867.19	861.99	4.15	4.10	119.99	-232.83	51.81	269.57	260.45	9.11	29.588		
1,000.00	994.50	965.22	958.46	4.37	4.34	119.96	-245.42	63.88	289.31	279.79	9.52	30.388		
1,100.00	1,093.45	1,063.25	1,054.92	4.60	4.60	119.92	-258.01	75.96	309.06	299.10	9.96	31.017		
1,200.00	1,192.39	1,161.28	1,151.39	4.85	4.88	119.90	-270.60	88.03	328.81	318.37	10.44	31.505		
1,300.00	1,291.34	1,259.31	1,247.85	5.10	5.17	119.87	-283.19	100.11	348.56	337.62	10.93	31.877		
1,400.00	1,390.29	1,357.34	1,344.32	5.37	5.47	119.85	-295.78	112.18	368.31	356.85	11.45	32.155		
1,500.00	1,489.24	1,455.37	1,440.79	5.65	5.79	119.83	-308.37	124.25	388.06	376.07	11.99	32.365		
1,600.00	1,588.18	1,553.40	1,537.25	5.94	6.11	119.81	-320.96	136.33	407.80	395.26	12.54	32.512		
1,700.00	1,687.13	1,651.43	1,633.72	6.23	6.44	119.79	-333.55	148.40	427.55	414.44	13.11	32.613		
1,800.00	1,786.08	1,749.46	1,730.18	6.53	6.78	119.78	-346.14	160.47	447.30	433.61	13.69	32.678		
1,900.00	1,885.03	1,847.49	1,826.65	6.69	7.05	119.77	-358.73	172.55	467.05	453.36	13.70	34.103		
2,000.00	1,983.97	1,945.52	1,923.12	6.72	7.17	119.75	-371.32	184.62	486.80	472.98	13.82	35.213		
2,100.00	2,082.92	2,043.55	2,019.58	6.77	7.22	119.74	-383.91	196.70	506.55	492.64	13.91	36.428		
2,200.00	2,181.87	2,141.59	2,116.05	6.83	7.28	119.73	-396.50	208.77	526.30	512.28	14.02	37.550		
2,300.00	2,280.82	2,239.62	2,212.51	6.91	7.36	119.72	-409.09	220.84	546.05	531.89	14.16	38.575		
2,400.00	2,379.76	2,337.65	2,308.98	7.00	7.46	119.71	-421.68	232.92	565.80	551.47	14.32	39.502		
2,500.00	2,478.71	2,435.68	2,405.45	7.10	7.57	119.70	-434.27	244.99	585.54	571.03	14.52	40.333		
2,600.00	2,577.66	2,533.71	2,501.91	7.22	7.69	119.70	-446.86	257.06	605.29	590.55	14.74	41.069		
2,700.00	2,676.61	2,631.74	2,598.38	7.34	7.83	119.69	-459.45	269.14	625.04	610.06	14.98	41.715		
2,800.00	2,775.55	2,729.77	2,694.84	7.48	7.98	119.68	-472.04	281.21	644.79	629.54	15.25	42.274		
2,900.00	2,874.50	2,827.80	2,791.31	7.63	8.14	119.67	-484.63	293.28	664.54	649.00	15.54	42.752		
3,000.00	2,973.45	2,925.83	2,887.78	7.79	8.32	119.67	-497.22	305.36	684.29	668.43	15.86	43.156		
3,100.00	3,072.40	3,023.86	2,984.24	7.96	8.50	119.66	-509.81	317.43	704.04	687.85	16.19	43.491		
3,200.00	3,171.34	3,121.89	3,080.71	8.13	8.70	119.66	-522.40	329.51	723.79	707.25	16.54	43.764		
3,300.00	3,270.29	3,219.92	3,177.17	8.32	8.90	119.65	-535.00	341.58	743.54	726.63	16.91	43.979		
3,400.00	3,369.24	3,317.95	3,273.64	8.51	9.11	119.65	-547.59	353.65	763.28	745.99	17.29	44.145		
3,500.00	3,468.19	3,415.98	3,370.11	8.71	9.33	119.64	-560.18	365.73	783.03	765.34	17.69	44.265		
3,600.00	3,567.13	3,514.01	3,466.57	8.92	9.56	119.64	-572.77	377.80	802.78	784.68	18.10	44.346		
3,700.00	3,666.08	3,612.04	3,563.04	9.14	9.79	119.63	-585.36	389.87	822.53	804.00	18.53	44.391		
3,800.00	3,765.03	3,710.07	3,659.50	9.36	10.04	119.63	-597.95	401.95	842.28	823.31	18.97	44.406		
3,900.00	3,863.98	3,808.10	3,755.97	9.58	10.28	119.62	-610.54	414.02	862.03	842.61	19.42	44.395		
4,000.00	3,962.92	3,906.13	3,852.44	9.81	10.54	119.62	-623.13	426.09	881.78	861.90	19.88	44.359		
4,100.00	4,061.87	4,004.16	3,948.90	10.05	10.80	119.62	-635.72	438.17	901.53	881.18	20.35	44.304		
4,200.00	4,160.82	4,102.20	4,045.37	10.29	11.06	119.61	-648.31	450.24	921.28	900.45	20.83	44.232		
4,300.00	4,259.77	4,200.23	4,141.83	10.53	11.33	119.61	-660.90	462.32	941.02	919.71	21.32	44.146		
4,400.00	4,358.71	4,301.74	4,238.30	10.78	11.61	119.61	-673.49	474.39	960.77	938.95	21.82	44.029		
4,500.00	4,457.66	4,396.29	4,334.77	11.03	11.87	119.60	-686.08	486.46	980.52	958.21	22.32	43.939		
4,600.00	4,556.61	4,505.68	4,431.23	11.28	12.19	119.60	-698.67	498.54	1,000.27	977.42	22.86	43.763		
4,700.00	4,655.56	4,592.35	4,527.70	11.54	12.44	119.60	-711.26	510.61	1,020.02	996.68	23.34	43.697		
4,800.00	4,754.50	4,709.62	4,624.16	11.80	12.78	119.60	-723.85	522.68	1,039.77	1,015.85	23.92	43.472		
4,900.00	4,853.45	4,788.41	4,720.63	12.07	13.01	119.59	-736.44	534.76	1,059.52	1,035.12	24.39	43.433		
5,000.00	4,952.40	4,886.44	4,817.10	12.33	13.30	119.59	-749.03	546.83	1,079.27	1,054.34	24.93	43.295		
5,100.00	5,051.35	4,984.47	4,913.56	12.60	13.60	119.59	-761.62	558.91	1,099.02	1,073.55	25.47	43.155		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1												Offset Well Error:	3.28 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,150.29	5,082.50	5,010.03	12.87	13.90	119.59	-774.21	570.98	1,118.77	1,092.76	26.01	43.013	
5,300.00	5,249.24	5,180.53	5,106.49	13.14	14.20	119.58	-786.80	583.05	1,138.51	1,111.96	26.56	42.869	
5,400.00	5,348.19	5,278.56	5,202.96	13.42	14.50	119.58	-799.39	595.13	1,158.26	1,131.15	27.11	42.725	
5,500.00	5,447.14	5,376.59	5,299.43	13.69	14.80	119.58	-811.98	607.20	1,178.01	1,150.35	27.67	42.581	
5,600.00	5,546.08	5,474.62	5,395.89	13.97	15.11	119.58	-824.57	619.27	1,197.76	1,169.54	28.22	42.437	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-140.59	-181.05	-148.78	234.34				
100.00	100.00	101.00	101.00	3.28	3.28	-140.59	-181.05	-148.78	234.34	226.81	7.53	31.125	
200.00	200.00	201.00	201.00	3.31	3.31	-140.59	-181.05	-148.78	234.34	226.77	7.57	30.939	CC, ES, SF
300.00	299.98	294.58	294.57	3.35	3.34	158.22	-182.61	-148.90	237.33	229.67	7.65	31.004	
400.00	399.84	387.74	387.60	3.42	3.40	157.96	-187.19	-149.24	246.21	238.44	7.77	31.668	
500.00	499.45	479.92	479.48	3.51	3.47	157.56	-194.68	-149.80	260.95	253.02	7.94	32.871	
600.00	598.70	571.43	570.40	3.63	3.57	157.07	-205.01	-150.58	281.45	273.31	8.15	34.550	
700.00	697.66	668.61	666.80	3.78	3.69	156.76	-217.21	-151.50	305.03	296.62	8.41	36.290	
800.00	796.60	765.77	763.19	3.95	3.85	156.53	-229.40	-152.41	328.64	319.95	8.69	37.805	
900.00	895.55	862.94	859.58	4.15	4.03	156.33	-241.60	-153.33	352.26	343.24	9.02	39.066	
1,000.00	994.50	960.10	955.97	4.37	4.22	156.16	-253.79	-154.25	375.88	366.51	9.37	40.104	
1,100.00	1,093.45	1,057.26	1,052.36	4.60	4.44	156.00	-265.99	-155.16	399.51	389.75	9.76	40.950	
1,200.00	1,192.39	1,154.43	1,148.75	4.85	4.66	155.87	-278.18	-156.08	423.14	412.98	10.16	41.632	
1,300.00	1,291.34	1,251.59	1,245.14	5.10	4.90	155.74	-290.37	-157.00	446.77	436.18	10.59	42.176	
1,400.00	1,390.29	1,348.75	1,341.54	5.37	5.15	155.63	-302.57	-157.92	470.40	459.36	11.04	42.605	
1,500.00	1,489.24	1,445.92	1,437.93	5.65	5.41	155.54	-314.76	-158.83	494.04	482.53	11.50	42.944	
1,600.00	1,588.18	1,543.08	1,534.32	5.94	5.67	155.44	-326.95	-159.75	517.67	505.69	11.98	43.203	
1,700.00	1,687.13	1,640.24	1,630.71	6.23	5.95	155.36	-339.15	-160.67	541.31	528.84	12.47	43.399	
1,800.00	1,786.08	1,737.41	1,727.10	6.53	6.22	155.29	-351.34	-161.58	564.95	551.97	12.97	43.544	
1,900.00	1,885.03	1,834.57	1,823.49	6.69	6.46	155.22	-363.54	-162.50	588.58	575.64	12.94	45.475	
2,000.00	1,983.97	1,931.73	1,919.88	6.72	6.57	155.15	-375.73	-163.42	612.22	599.17	13.06	46.884	
2,100.00	2,082.92	2,028.90	2,016.27	6.77	6.60	155.09	-387.92	-164.33	635.86	622.75	13.12	48.478	
2,200.00	2,181.87	2,126.06	2,112.66	6.83	6.65	155.04	-400.12	-165.25	659.50	646.30	13.20	49.951	
2,300.00	2,280.82	2,223.23	2,209.05	6.91	6.71	154.99	-412.31	-166.17	683.14	669.83	13.32	51.300	
2,400.00	2,379.76	2,320.39	2,305.45	7.00	6.79	154.94	-424.51	-167.08	706.79	693.33	13.46	52.521	
2,500.00	2,478.71	2,417.55	2,401.84	7.10	6.88	154.89	-436.70	-168.00	730.43	716.80	13.62	53.616	
2,600.00	2,577.66	2,514.72	2,498.23	7.22	6.98	154.85	-448.89	-168.92	754.07	740.26	13.81	54.585	
2,700.00	2,676.61	2,611.88	2,594.62	7.34	7.09	154.81	-461.09	-169.84	777.71	763.68	14.03	55.434	
2,800.00	2,775.55	2,709.04	2,691.01	7.48	7.22	154.78	-473.28	-170.75	801.36	787.09	14.27	56.168	
2,900.00	2,874.50	2,806.21	2,787.40	7.63	7.35	154.74	-485.48	-171.67	825.00	810.47	14.53	56.793	
3,000.00	2,973.45	2,903.37	2,883.79	7.79	7.50	154.71	-497.67	-172.59	848.64	833.84	14.81	57.317	
3,100.00	3,072.40	3,000.53	2,980.18	7.96	7.66	154.68	-509.86	-173.50	872.29	857.18	15.11	57.748	
3,200.00	3,171.34	3,102.30	3,076.57	8.13	7.83	154.65	-522.06	-174.42	895.93	880.50	15.43	58.066	
3,300.00	3,270.29	3,205.14	3,172.97	8.32	8.02	154.62	-534.25	-175.34	919.57	903.80	15.77	58.298	
3,400.00	3,369.24	3,307.97	3,269.36	8.51	8.21	154.59	-546.44	-176.25	943.22	927.08	16.13	58.460	
3,500.00	3,468.19	3,389.19	3,365.75	8.71	8.37	154.57	-558.64	-177.17	966.86	950.39	16.47	58.701	
3,600.00	3,567.13	3,486.35	3,462.14	8.92	8.57	154.54	-570.83	-178.09	990.51	973.66	16.85	58.786	
3,700.00	3,666.08	3,583.52	3,558.53	9.14	8.77	154.52	-583.03	-179.00	1,014.15	996.91	17.24	58.822	
3,800.00	3,765.03	3,680.68	3,654.92	9.36	8.98	154.50	-595.22	-179.92	1,037.80	1,020.15	17.64	58.817	
3,900.00	3,863.98	3,777.84	3,751.31	9.58	9.20	154.48	-607.41	-180.84	1,061.44	1,043.38	18.06	58.776	
4,000.00	3,962.92	3,875.01	3,847.70	9.81	9.42	154.46	-619.61	-181.76	1,085.09	1,066.60	18.48	58.704	
4,100.00	4,061.87	3,972.17	3,944.09	10.05	9.65	154.44	-631.80	-182.67	1,108.73	1,089.81	18.92	58.604	
4,200.00	4,160.82	4,069.33	4,040.48	10.29	9.88	154.42	-644.00	-183.59	1,132.38	1,113.02	19.36	58.482	
4,300.00	4,259.77	4,166.50	4,136.88	10.53	10.11	154.40	-656.19	-184.51	1,156.02	1,136.21	19.82	58.341	
4,400.00	4,358.71	4,263.66	4,233.27	10.78	10.35	154.39	-668.38	-185.42	1,179.67	1,159.39	20.28	58.183	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-143.56	-201.09	-148.50	249.98				
100.00	100.00	101.00	101.00	3.28	3.28	-143.56	-201.09	-148.50	249.98	242.45	7.53	33.203	
200.00	200.00	201.00	201.00	3.31	3.31	-143.56	-201.09	-148.50	249.98	242.41	7.57	33.004	CC, ES, SF
300.00	299.98	294.02	294.00	3.35	3.34	155.28	-202.63	-148.60	252.96	245.31	7.65	33.048	
400.00	399.84	386.62	386.49	3.42	3.40	155.12	-207.16	-148.89	261.83	254.05	7.77	33.681	
500.00	499.45	478.27	477.84	3.51	3.47	154.85	-214.57	-149.36	276.52	268.59	7.94	34.842	
600.00	598.70	568.53	567.52	3.63	3.56	154.52	-224.72	-150.01	296.97	288.83	8.14	36.472	
700.00	697.66	657.88	655.94	3.78	3.68	154.24	-237.53	-150.82	321.97	313.59	8.38	38.406	
800.00	796.60	754.39	751.25	3.95	3.84	153.91	-252.61	-151.79	348.10	339.43	8.67	40.136	
900.00	895.55	850.90	846.57	4.15	4.03	153.61	-267.69	-152.75	374.24	365.24	9.00	41.583	
1,000.00	994.50	947.40	941.89	4.37	4.24	153.36	-282.77	-153.71	400.38	391.02	9.36	42.776	
1,100.00	1,093.45	1,043.91	1,037.20	4.60	4.47	153.14	-297.86	-154.67	426.54	416.79	9.75	43.749	
1,200.00	1,192.39	1,140.42	1,132.52	4.85	4.72	152.94	-312.94	-155.64	452.69	442.53	10.16	44.536	
1,300.00	1,291.34	1,236.93	1,227.84	5.10	4.98	152.77	-328.02	-156.60	478.86	468.25	10.60	45.166	
1,400.00	1,390.29	1,333.43	1,323.15	5.37	5.25	152.61	-343.11	-157.56	505.02	493.96	11.06	45.665	
1,500.00	1,489.24	1,429.94	1,418.47	5.65	5.53	152.47	-358.19	-158.52	531.19	519.66	11.53	46.065	
1,600.00	1,588.18	1,526.45	1,513.79	5.94	5.82	152.34	-373.27	-159.48	557.36	545.34	12.02	46.371	
1,700.00	1,687.13	1,622.96	1,609.10	6.23	6.11	152.22	-388.36	-160.45	583.54	571.01	12.52	46.606	
1,800.00	1,786.08	1,719.46	1,704.42	6.53	6.42	152.12	-403.44	-161.41	609.71	596.68	13.03	46.783	
1,900.00	1,885.03	1,815.97	1,799.74	6.69	6.70	152.02	-418.52	-162.37	635.89	622.68	13.21	48.144	
2,000.00	1,983.97	1,912.48	1,895.05	6.72	6.85	151.93	-433.60	-163.33	662.07	648.89	13.18	50.230	
2,100.00	2,082.92	2,008.99	1,990.37	6.77	6.89	151.85	-448.69	-164.30	688.25	675.01	13.24	51.986	
2,200.00	2,181.87	2,105.49	2,085.69	6.83	6.94	151.77	-463.77	-165.26	714.43	701.11	13.33	53.610	
2,300.00	2,280.82	2,202.00	2,181.00	6.91	7.01	151.70	-478.85	-166.22	740.61	727.17	13.44	55.099	
2,400.00	2,379.76	2,301.49	2,276.32	7.00	7.10	151.63	-493.94	-167.18	766.80	753.21	13.59	56.439	
2,500.00	2,478.71	2,404.98	2,371.64	7.10	7.20	151.57	-509.02	-168.14	792.98	779.22	13.76	57.621	
2,600.00	2,577.66	2,508.48	2,466.95	7.22	7.32	151.51	-524.10	-169.11	819.17	805.20	13.97	58.658	
2,700.00	2,676.61	2,588.03	2,562.27	7.34	7.42	151.46	-539.19	-170.07	845.36	831.19	14.17	59.671	
2,800.00	2,775.55	2,684.54	2,657.58	7.48	7.56	151.40	-554.27	-171.03	871.54	857.13	14.41	60.486	
2,900.00	2,874.50	2,781.04	2,752.90	7.63	7.70	151.36	-569.35	-171.99	897.73	883.06	14.67	61.183	
3,000.00	2,973.45	2,877.55	2,848.22	7.79	7.86	151.31	-584.44	-172.96	923.92	908.96	14.96	61.769	
3,100.00	3,072.40	2,974.06	2,943.53	7.96	8.03	151.27	-599.52	-173.92	950.11	934.85	15.26	62.253	
3,200.00	3,171.34	3,070.57	3,038.85	8.13	8.21	151.23	-614.60	-174.88	976.30	960.71	15.58	62.645	
3,300.00	3,270.29	3,167.07	3,134.17	8.32	8.39	151.19	-629.68	-175.84	1,002.49	986.56	15.92	62.952	
3,400.00	3,369.24	3,263.58	3,229.48	8.51	8.59	151.15	-644.77	-176.80	1,028.68	1,012.40	16.28	63.184	
3,500.00	3,468.19	3,360.09	3,324.80	8.71	8.79	151.12	-659.85	-177.77	1,054.87	1,038.22	16.65	63.348	
3,600.00	3,567.13	3,456.60	3,420.12	8.92	9.00	151.08	-674.93	-178.73	1,081.06	1,064.02	17.04	63.453	
3,700.00	3,666.08	3,553.10	3,515.43	9.14	9.22	151.05	-690.02	-179.69	1,107.25	1,089.82	17.44	63.506	
3,800.00	3,765.03	3,649.61	3,610.75	9.36	9.44	151.02	-705.10	-180.65	1,133.44	1,115.60	17.85	63.512	
3,900.00	3,863.98	3,746.12	3,706.07	9.58	9.67	150.99	-720.18	-181.62	1,159.64	1,141.37	18.27	63.479	
4,000.00	3,962.92	3,842.63	3,801.38	9.81	9.91	150.96	-735.27	-182.58	1,185.83	1,167.13	18.70	63.411	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-146.12	-221.13	-148.50	266.36					
100.00	100.00	101.00	101.00	3.28	3.28	-146.12	-221.13	-148.50	266.36	258.83	7.53	35.378		
200.00	200.00	201.00	201.00	3.31	3.31	-146.12	-221.13	-148.50	266.36	258.79	7.57	35.167	CC, ES, SF	
300.00	299.98	293.45	293.43	3.35	3.34	152.75	-222.65	-148.58	269.33	261.68	7.65	35.188		
400.00	399.84	385.50	385.37	3.42	3.40	152.65	-227.12	-148.82	278.16	270.38	7.77	35.786		
500.00	499.45	476.62	476.19	3.51	3.47	152.49	-234.45	-149.22	292.79	284.86	7.93	36.901		
600.00	598.70	566.37	565.37	3.63	3.56	152.29	-244.49	-149.77	313.14	305.00	8.14	38.474		
700.00	697.66	654.59	652.69	3.78	3.68	152.16	-257.07	-150.45	338.05	329.67	8.38	40.347		
800.00	796.60	742.24	739.01	3.95	3.83	151.86	-272.21	-151.27	365.53	356.89	8.64	42.295		
900.00	895.55	838.05	833.15	4.15	4.02	151.49	-289.97	-152.23	394.09	385.12	8.97	43.932		
1,000.00	994.50	933.85	927.29	4.37	4.25	151.16	-307.73	-153.19	422.67	413.34	9.33	45.285		
1,100.00	1,093.45	1,029.65	1,021.43	4.60	4.49	150.88	-325.49	-154.15	451.26	441.54	9.73	46.390		
1,200.00	1,192.39	1,125.46	1,115.56	4.85	4.75	150.63	-343.25	-155.11	479.86	469.71	10.15	47.284		
1,300.00	1,291.34	1,221.26	1,209.70	5.10	5.03	150.40	-361.01	-156.08	508.47	497.88	10.59	48.001		
1,400.00	1,390.29	1,317.06	1,303.84	5.37	5.32	150.21	-378.78	-157.04	537.08	526.02	11.06	48.570		
1,500.00	1,489.24	1,412.87	1,397.98	5.65	5.63	150.03	-396.54	-158.00	565.70	554.16	11.54	49.027		
1,600.00	1,588.18	1,508.67	1,492.11	5.94	5.94	149.87	-414.30	-158.96	594.32	582.29	12.04	49.379		
1,700.00	1,687.13	1,604.47	1,586.25	6.23	6.26	149.72	-432.06	-159.92	622.95	610.40	12.55	49.651		
1,800.00	1,786.08	1,700.28	1,680.39	6.53	6.59	149.59	-449.82	-160.89	651.58	638.51	13.07	49.858		
1,900.00	1,885.03	1,803.92	1,774.53	6.69	6.95	149.46	-467.58	-161.85	680.21	666.92	13.29	51.168		
2,000.00	1,983.97	1,908.12	1,868.67	6.72	7.13	149.35	-485.34	-162.81	708.85	695.56	13.29	53.333		
2,100.00	2,082.92	1,987.69	1,962.80	6.77	7.17	149.25	-503.11	-163.77	737.49	724.14	13.35	55.255		
2,200.00	2,181.87	2,083.49	2,056.94	6.83	7.23	149.15	-520.87	-164.73	766.13	752.69	13.43	57.025		
2,300.00	2,280.82	2,179.29	2,151.08	6.91	7.30	149.06	-538.63	-165.70	794.77	781.22	13.55	58.649		
2,400.00	2,379.76	2,275.10	2,245.22	7.00	7.39	148.98	-556.39	-166.66	823.41	809.72	13.70	60.123		
2,500.00	2,478.71	2,370.90	2,339.35	7.10	7.49	148.90	-574.15	-167.62	852.06	838.19	13.87	61.446		
2,600.00	2,577.66	2,466.70	2,433.49	7.22	7.61	148.83	-591.91	-168.58	880.70	866.64	14.06	62.622		
2,700.00	2,676.61	2,562.51	2,527.63	7.34	7.74	148.76	-609.68	-169.55	909.35	895.06	14.29	63.654		
2,800.00	2,775.55	2,658.31	2,621.77	7.48	7.89	148.70	-627.44	-170.51	938.00	923.47	14.53	64.549		
2,900.00	2,874.50	2,754.12	2,715.90	7.63	8.04	148.64	-645.20	-171.47	966.65	951.85	14.80	65.315		
3,000.00	2,973.45	2,849.92	2,810.04	7.79	8.21	148.58	-662.96	-172.43	995.30	980.21	15.09	65.962		
3,100.00	3,072.40	2,945.72	2,904.18	7.96	8.39	148.53	-680.72	-173.39	1,023.95	1,008.55	15.40	66.497		
3,200.00	3,171.34	3,041.53	2,998.32	8.13	8.58	148.48	-698.48	-174.36	1,052.60	1,036.88	15.73	66.931		
3,300.00	3,270.29	3,137.33	3,092.45	8.32	8.78	148.43	-716.24	-175.32	1,081.26	1,065.18	16.07	67.274		
3,400.00	3,369.24	3,233.13	3,186.59	8.51	8.99	148.39	-734.01	-176.28	1,109.91	1,093.47	16.43	67.535		
3,500.00	3,468.19	3,328.94	3,280.73	8.71	9.20	148.34	-751.77	-177.24	1,138.56	1,121.75	16.81	67.722		
3,600.00	3,567.13	3,424.74	3,374.87	8.92	9.42	148.30	-769.53	-178.20	1,167.22	1,150.01	17.20	67.845		
3,700.00	3,666.08	3,520.54	3,469.01	9.14	9.66	148.26	-787.29	-179.17	1,195.87	1,178.26	17.61	67.910		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 1 - XOG PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,200.00	7,174.46	7,236.46	7,236.46	68.12	254.65	-89.82	-73.92	-4,434.63	1,123.19	828.79	294.40	3.815	
11,300.00	7,174.63	7,236.63	7,236.63	69.74	254.66	-89.84	-73.92	-4,434.63	1,037.77	740.13	297.64	3.487	
11,400.00	7,174.81	7,236.81	7,236.81	71.35	254.67	-89.86	-73.92	-4,434.63	955.17	653.78	301.39	3.169	
11,500.00	7,174.99	7,236.99	7,236.99	72.98	254.67	-89.88	-73.92	-4,434.63	876.22	570.49	305.72	2.866	
11,600.00	7,175.17	7,237.17	7,237.17	74.60	254.68	-89.90	-73.92	-4,434.63	801.97	491.30	310.68	2.581	
11,700.00	7,175.35	7,237.35	7,237.35	76.22	254.69	-89.91	-73.92	-4,434.63	733.87	417.65	316.22	2.321	
11,800.00	7,175.53	7,237.53	7,237.53	77.85	254.69	-89.93	-73.92	-4,434.63	673.76	351.56	322.20	2.091	
11,900.00	7,175.71	7,237.71	7,237.71	79.48	254.70	-89.95	-73.92	-4,434.63	623.99	295.75	328.24	1.901	
12,000.00	7,175.89	7,237.89	7,237.89	81.11	254.71	-89.97	-73.92	-4,434.63	587.16	253.48	333.68	1.760	
12,100.00	7,176.07	7,238.07	7,238.07	82.75	254.71	-89.99	-73.92	-4,434.63	565.82	228.16	337.67	1.676	
12,173.00	7,176.20	7,238.20	7,238.20	83.94	254.72	-90.00	-73.92	-4,434.63	561.09	221.90	339.20	1.654	CC, ES, SF
12,200.00	7,176.25	7,238.25	7,238.25	84.38	254.72	-90.00	-73.92	-4,434.63	561.74	222.32	339.43	1.655	
12,300.00	7,176.43	7,238.43	7,238.43	86.02	254.72	-90.02	-73.92	-4,434.63	575.29	236.58	338.70	1.699	
12,400.00	7,176.61	7,238.61	7,238.61	87.65	254.73	-90.04	-73.92	-4,434.63	605.27	269.39	335.88	1.802	
12,500.00	7,176.78	7,238.78	7,238.78	89.29	254.74	-90.06	-73.92	-4,434.63	649.43	317.70	331.73	1.958	
12,600.00	7,176.96	7,238.96	7,238.96	90.93	254.74	-90.08	-73.92	-4,434.63	705.09	378.08	327.01	2.156	
12,700.00	7,177.14	7,239.14	7,239.14	92.57	254.75	-90.10	-73.92	-4,434.63	769.77	447.50	322.28	2.389	
12,800.00	7,177.32	7,239.32	7,239.32	94.21	254.76	-90.11	-73.92	-4,434.63	841.40	523.56	317.84	2.647	
12,900.00	7,177.50	7,239.50	7,239.50	95.86	254.76	-90.13	-73.92	-4,434.63	918.34	604.52	313.82	2.926	
13,000.00	7,177.68	7,239.68	7,239.68	97.50	254.77	-90.15	-73.92	-4,434.63	999.37	689.11	310.26	3.221	
13,100.00	7,177.86	7,239.86	7,239.86	99.14	254.78	-90.17	-73.92	-4,434.63	1,083.58	776.44	307.15	3.528	
13,200.00	7,178.04	7,240.04	7,240.04	100.79	254.78	-90.19	-73.92	-4,434.63	1,170.28	865.85	304.42	3.844	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 4 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,400.00	7,176.61	7,262.61	7,262.61	87.65	255.58	-89.79	-38.68	-5,737.68	1,198.75	898.49	300.26	3.992	
12,500.00	7,176.78	7,262.78	7,262.78	89.29	255.59	-89.81	-38.68	-5,737.68	1,109.86	806.10	303.76	3.654	
12,600.00	7,176.96	7,262.96	7,262.96	90.93	255.59	-89.83	-38.68	-5,737.68	1,023.02	715.21	307.81	3.324	
12,700.00	7,177.14	7,263.14	7,263.14	92.57	255.60	-89.85	-38.68	-5,737.68	938.80	626.28	312.52	3.004	
12,800.00	7,177.32	7,263.32	7,263.32	94.21	255.61	-89.87	-38.68	-5,737.68	857.98	539.99	317.98	2.698	
12,900.00	7,177.50	7,263.50	7,263.50	95.86	255.61	-89.89	-38.68	-5,737.68	781.60	457.33	324.27	2.410	
13,000.00	7,177.68	7,263.68	7,263.68	97.50	255.62	-89.91	-38.68	-5,737.68	711.11	379.72	331.39	2.146	
13,100.00	7,177.86	7,263.86	7,263.86	99.14	255.63	-89.93	-38.68	-5,737.68	648.42	309.25	339.17	1.912	
13,200.00	7,178.04	7,264.04	7,264.04	100.79	255.63	-89.95	-38.68	-5,737.68	596.01	248.88	347.13	1.717	
13,300.00	7,178.22	7,264.22	7,264.22	102.44	255.64	-89.97	-38.68	-5,737.68	556.78	202.42	354.37	1.571	
13,400.00	7,178.40	7,264.40	7,264.40	104.08	255.64	-89.99	-38.68	-5,737.68	533.65	174.04	359.62	1.484	Level 3
13,476.12	7,178.53	7,264.53	7,264.53	105.34	255.65	-90.00	-38.68	-5,737.68	528.20	166.66	361.54	1.461	Level 3, CC, ES, SF
13,500.00	7,178.58	7,264.58	7,264.58	105.73	255.65	-90.00	-38.68	-5,737.68	528.74	167.02	361.71	1.462	Level 3
13,600.00	7,178.75	7,264.75	7,264.75	107.38	255.66	-90.02	-38.68	-5,737.68	542.53	182.27	360.26	1.506	
13,700.00	7,178.93	7,264.93	7,264.93	109.03	255.66	-90.04	-38.68	-5,737.68	573.69	217.79	355.90	1.612	
13,800.00	7,179.11	7,265.11	7,265.11	110.68	255.67	-90.06	-38.68	-5,737.68	619.59	269.78	349.82	1.771	
13,900.00	7,179.29	7,265.29	7,265.29	112.33	255.68	-90.08	-38.68	-5,737.68	677.25	334.11	343.14	1.974	
14,000.00	7,179.47	7,265.47	7,265.47	113.98	255.68	-90.10	-38.68	-5,737.68	743.94	407.32	336.62	2.210	
14,100.00	7,179.65	7,265.65	7,265.65	115.63	255.69	-90.12	-38.68	-5,737.68	817.45	486.82	330.62	2.472	
14,200.00	7,179.83	7,265.83	7,265.83	117.29	255.70	-90.14	-38.68	-5,737.68	896.10	570.80	325.30	2.755	
14,300.00	7,180.01	7,266.01	7,266.01	118.94	255.70	-90.16	-38.68	-5,737.68	978.66	658.02	320.64	3.052	
14,400.00	7,180.19	7,266.19	7,266.19	120.59	255.71	-90.18	-38.68	-5,737.68	1,064.21	747.61	316.60	3.361	
14,500.00	7,180.37	7,266.37	7,266.37	122.25	255.71	-90.20	-38.68	-5,737.68	1,152.10	839.00	313.10	3.680	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 4' @ 4908.00usft (RIG)

Offset Depths are relative to Offset Datum

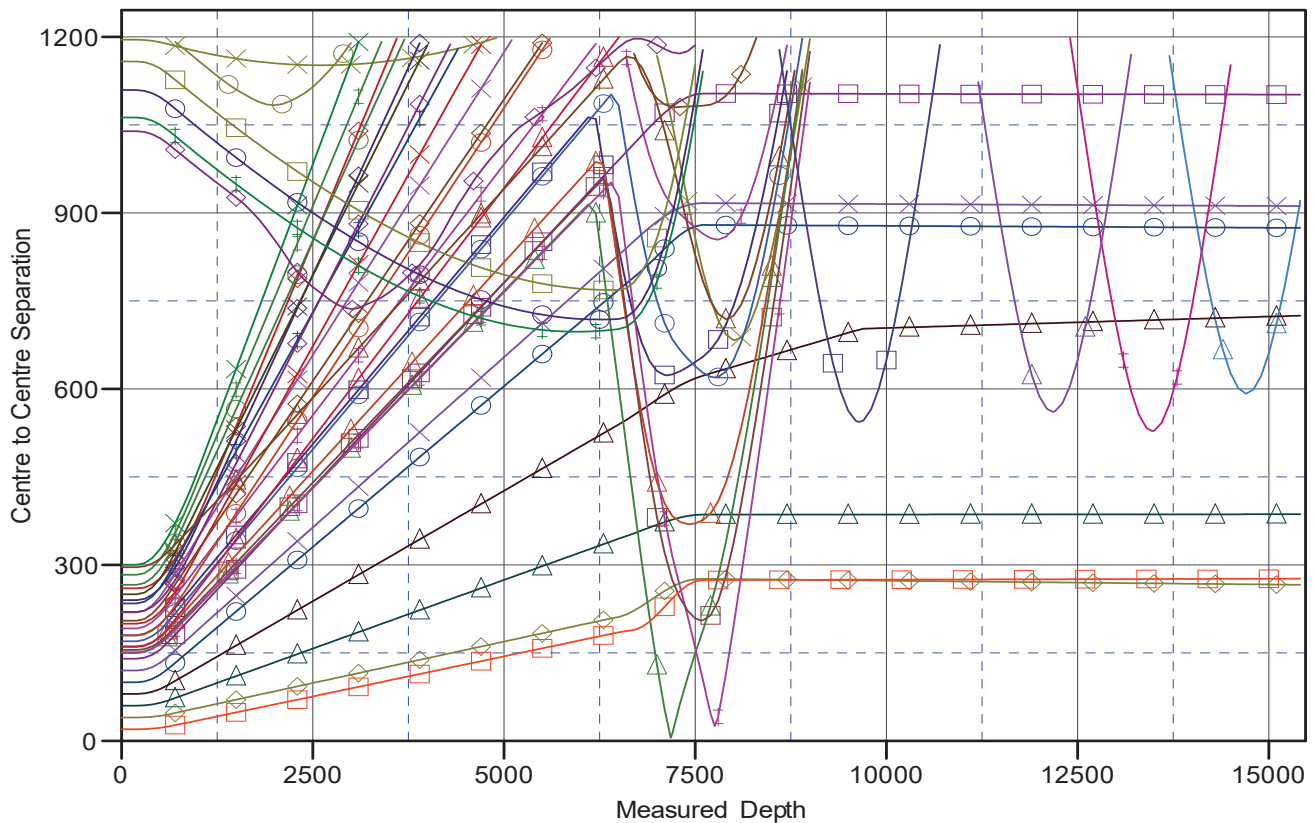
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 30N-30B-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

HSR-WIEDEMAN 14-20, Noble SI Well, No Surveys V0	SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0
KCRJ 11N-13, Noble SI Well, No Surveys V0	SANFORD 31N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 26N-27C-XR, Wellbore #1, Design #1 V0
SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 5N-30B-M, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	
		SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0
		SANFORD 26N-27C-XR, Wellbore #1, Design #1 V0
		SANFORD 30N-30A-M, Wellbore #1, Design #1 V0
		LUNDVALL 4, Noble PR Well, No Surveys V0
		HOMYAK 1, XOG PR Well, No Surveys V0
		KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
		BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
		UPV 29-3H6, Noble SI Well, No Surveys V0
		BENSLER J29-18D, Noble SI Well, Actual Ensign Survey V0
		KAMMERZELL 29-5, XOG PR Well, No Surveys V0
		BENSLER J29-17D, Noble PR Well, Actual Ensign Survey V0
		BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Reference Site:	5N-66W-29 SANFORD 21-29 PAD	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 30N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 4' @ 4908.00usft (RIG)

Offset Depths are relative to Offset Datum

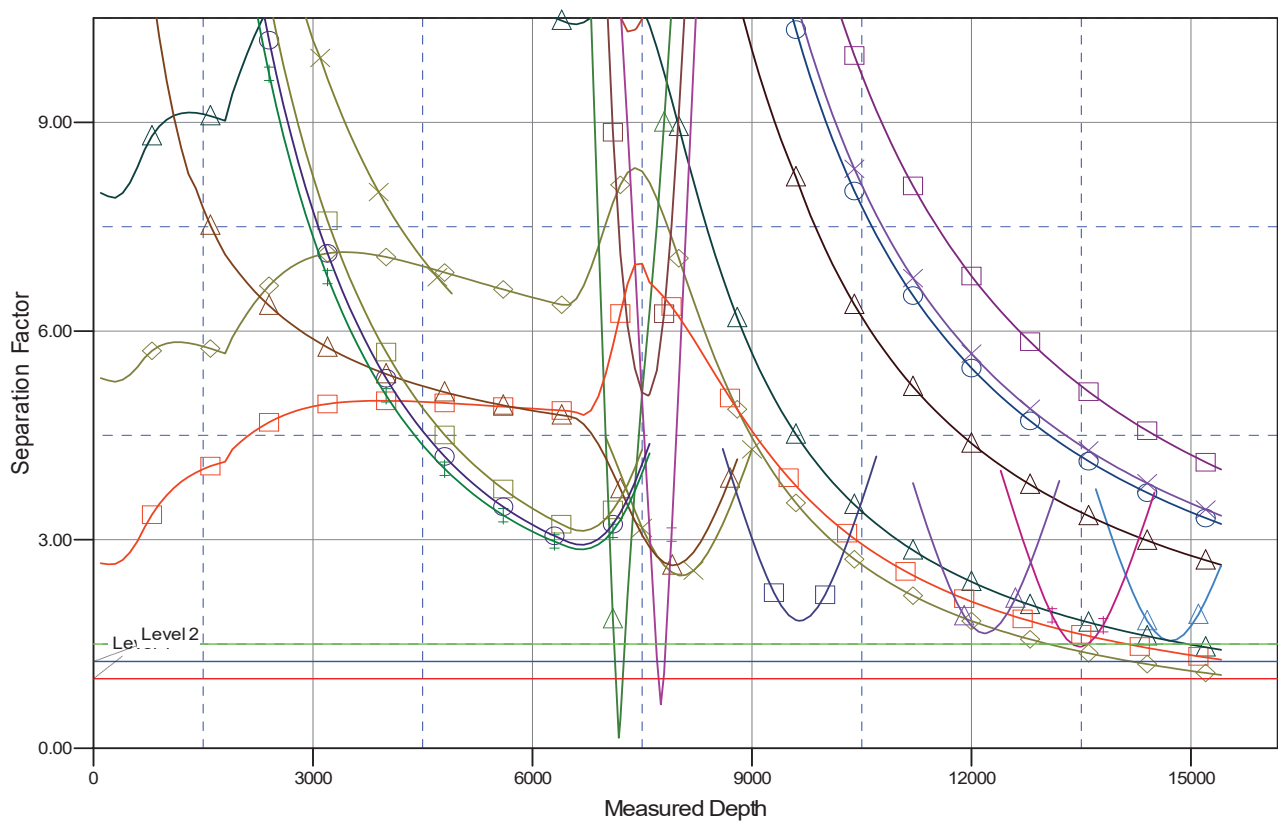
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 30N-30B-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

HSR-WIEDEMAN 14-20, Noble SI Well, No Surveys V0	SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0
KORU 119-S, Noble SI Well, No Surveys V0	SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0
SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0
SANFORD 11N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL4, Noble PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	HOMYAK 1, XOG PR Well, No Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 5N-30B-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	BENSLER J29-18D, Noble SI Well, Actual Ensign Survey V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLER J29-17D, Noble PR Well, Actual Ensign Survey V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	