

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 4C-30-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	15,583.33	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-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,212.67	2,066.90	1,015.26	992.45	44.511	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	6,900.00	6,941.40	1,135.16	1,094.14	27.678	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,515.56	7,397.62	321.48	275.77	7.034	CC, ES, SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,766.10	6,703.87	299.02	46.28	1.183	Level 2, CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,800.00	6,737.73	299.69	45.68	1.180	Level 2, ES, SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,767.78	6,705.55	344.38	91.65	1.363	Level 3, CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,800.00	6,737.73	344.99	91.05	1.359	Level 3, ES, 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	8,086.99	7,363.39	138.10	-142.04	0.493	Level 1, CC, ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,436.05	7,389.12	826.76	528.67	2.774	CC, ES
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,500.00	7,389.20	829.23	530.22	2.773	SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,820.36	7,372.61	312.61	9.31	1.031	Level 2, CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	8,067.92	7,357.37	867.31	587.54	3.100	CC, ES
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	8,100.00	7,357.41	867.90	587.87	3.099	SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,905.74	7,387.48	386.45	336.92	7.802	CC, ES, SF
UPRC 29-7C - Noble T/A Well - No Surveys	6,927.20	6,866.50	1,011.12	752.23	3.905	CC
UPRC 29-7C - Noble T/A Well - No Surveys	7,000.00	6,936.17	1,012.05	750.66	3.872	ES
UPRC 29-7C - Noble T/A Well - No Surveys	7,200.00	7,110.44	1,027.61	760.12	3.842	SF
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	6,771.50	6,703.74	373.55	120.82	1.478	Level 3, CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,800.00	6,724.73	374.02	120.48	1.475	Level 3, ES, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	151.36	143.79	19.984	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,600.00	7,593.49	238.09	196.73	5.757	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	150.17	142.60	19.827	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,091.76	7,665.97	208.52	170.52	5.487	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	155.42	147.84	20.519	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,744.92	479.56	441.71	12.670	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,620.38	7,582.91	6.52	-29.07	0.183	Level 1, CC, ES, SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	180.38	172.80	23.815	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,400.00	7,804.44	899.15	854.91	20.323	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	170.20	162.62	22.471	CC, ES
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	7,065.84	7,687.93	829.44	790.80	21.469	SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	161.61	154.03	21.337	CC, ES
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,338.00	7,717.82	650.17	605.90	14.685	SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,583.33	15,587.72	665.29	394.59	2.458	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	60.11	52.54	7.937	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,583.33	15,252.74	690.98	435.28	2.702	SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	100.18	92.61	13.228	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	15,583.33	15,408.69	874.51	603.53	3.227	SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	60.11	52.54	7.936	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,583.33	15,410.68	504.33	243.39	1.933	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,583.33	15,472.06	280.52	27.75	1.110	Level 2, ES, SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	278.84	277.46	159.71	152.07	20.914	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	400.00	392.81	161.14	153.37	20.753	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	139.89	132.32	18.470	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	300.00	295.90	140.80	133.15	18.401	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	205.37	197.80	27.114	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	300.00	295.99	207.42	199.77	27.106	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.85	28.970	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	295.39	221.43	213.78	28.938	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	155.35	147.77	20.510	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,276.16	7,700.53	232.19	194.89	6.224	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	161.51	153.94	21.324	CC, ES
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,400.00	7,677.40	404.47	367.60	10.970	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	20.03	12.46	2.645	CC
SANFORD 4N-30A-M - Wellbore #1 - Design #1	300.00	299.76	20.08	12.43	2.623	ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	6,603.34	6,606.98	60.82	27.65	1.834	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,583.33	15,390.18	230.86	31.18	1.156	Level 2, SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.290	CC, ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,583.33	15,467.61	488.58	219.33	1.815	SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	99.82	92.25	13.180	CC, ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,583.33	15,671.39	852.85	578.04	3.103	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	119.85	112.28	15.825	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	15,583.33	15,492.61	1,142.29	869.71	4.191	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	79.78	72.21	10.534	CC, ES
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,583.33	15,505.70	700.71	429.60	2.585	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	170.07	162.50	22.454	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	7,400.00	7,853.98	678.07	640.91	18.247	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	180.23	172.66	23.796	CC, ES
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,817.38	894.75	855.98	23.078	SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	192.17	184.59	25.371	CC, ES, SF

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Reference Well:	SANFORD 4C-30-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-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys	12,348.15	7,431.85	293.87	-51.95	0.850	Level 1, CC, ES, SF
HOMYAK 2 - XOG SI Well - No Surveys	10,903.97	7,402.00	1,015.87	694.51	3.161	CC, ES, SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,980.32	7,428.23	984.55	595.49	2.531	CC
LUNDVALL 3 - Noble PR Well - No Surveys	15,000.00	7,428.25	984.75	595.35	2.529	ES, SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,651.28	7,457.52	326.05	-42.09	0.886	Level 1, CC, ES, SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,316.31	7,584.04	361.25	204.05	2.298	CC, ES, SF
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	13,524.80	7,560.00	982.22	836.97	6.762	CC, ES
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,600.00	7,560.00	985.10	838.91	6.739	SF

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 Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
500.00	499.45	488.55	488.55	3.50	14.99	-12.66	-12.66	-121.63	1,202.76	1,193.58	1,174.30	19.28	61.908	
600.00	598.73	586.18	586.18	3.62	15.49	-12.82	-12.82	-121.49	1,202.82	1,181.92	1,162.03	19.89	59.422	
700.00	697.91	683.01	683.01	3.76	15.49	-12.96	-12.96	-121.41	1,203.05	1,169.73	1,149.71	20.02	58.427	
800.00	797.10	781.01	781.01	3.93	15.50	-13.10	-13.10	-121.41	1,203.43	1,157.69	1,137.52	20.18	57.376	
900.00	896.28	880.08	880.08	4.12	15.52	-13.24	-13.24	-121.50	1,203.90	1,145.76	1,125.41	20.35	56.293	
1,000.00	995.47	982.76	982.75	4.33	15.54	-13.39	-13.39	-121.72	1,204.20	1,133.66	1,113.11	20.55	55.162	
1,100.00	1,094.65	1,083.55	1,083.55	4.56	15.56	-13.52	-13.52	-122.02	1,204.21	1,121.30	1,100.54	20.77	53.999	
1,200.00	1,193.84	1,182.83	1,182.82	4.80	15.59	-13.67	-13.67	-122.16	1,204.21	1,108.92	1,087.93	20.99	52.823	
1,300.00	1,293.02	1,278.05	1,278.04	5.05	15.62	-13.80	-13.80	-122.58	1,204.32	1,096.69	1,075.45	21.23	51.645	
1,400.00	1,392.21	1,380.79	1,380.73	5.31	15.65	-13.79	-13.79	-125.83	1,204.30	1,084.54	1,063.05	21.49	50.459	
1,500.00	1,491.39	1,472.14	1,471.82	5.58	15.69	-13.58	-13.58	-132.56	1,204.21	1,072.64	1,050.88	21.76	49.291	
1,600.00	1,590.58	1,577.15	1,576.37	5.86	15.75	-13.22	-13.22	-142.35	1,204.30	1,061.14	1,039.09	22.05	48.126	
1,700.00	1,689.76	1,680.10	1,678.49	6.15	15.81	-12.67	-12.67	-155.25	1,202.72	1,048.34	1,025.99	22.35	46.902	
1,800.00	1,788.95	1,763.90	1,761.26	6.43	15.87	-12.07	-12.07	-168.35	1,202.03	1,036.69	1,014.03	22.66	45.753	
1,900.00	1,888.13	1,838.86	1,835.15	6.59	15.94	-11.48	-11.48	-180.93	1,202.55	1,026.87	1,004.24	22.63	45.374	
2,000.00	1,987.32	1,907.02	1,902.35	6.62	16.00	-10.98	-10.98	-192.04	1,205.01	1,019.99	997.31	22.68	44.981	
2,100.00	2,086.50	1,974.45	1,968.77	6.66	16.06	-10.50	-10.50	-202.71	1,209.62	1,016.37	993.65	22.71	44.744	
2,200.00	2,185.69	2,055.82	2,048.94	6.72	16.15	-10.02	-10.02	-214.25	1,217.36	1,015.27	992.48	22.79	44.540	
2,212.67	2,198.26	2,066.90	2,059.86	6.73	16.16	-9.97	-9.97	-215.68	1,218.54	1,015.26	992.45	22.81	44.511	CC, ES
2,300.00	2,284.87	2,143.20	2,135.01	6.79	16.25	-9.57	-9.57	-225.69	1,227.12	1,015.75	992.84	22.91	44.341	
2,400.00	2,384.06	2,226.00	2,216.36	6.88	16.35	-9.10	-9.10	-237.45	1,237.16	1,017.50	994.47	23.03	44.189	
2,500.00	2,483.24	2,304.71	2,293.35	6.98	16.48	-8.60	-8.60	-249.72	1,247.96	1,021.19	998.05	23.14	44.122	
2,600.00	2,582.43	2,389.92	2,376.41	7.09	16.62	-8.08	-8.08	-263.16	1,261.36	1,026.96	1,003.66	23.30	44.074	
2,700.00	2,681.61	2,491.75	2,475.58	7.22	16.80	-7.45	-7.45	-279.37	1,277.90	1,033.40	1,009.86	23.55	43.889	
2,800.00	2,780.80	2,568.00	2,549.48	7.35	16.96	-6.93	-6.93	-292.79	1,291.01	1,041.18	1,017.49	23.70	43.938	
2,900.00	2,879.98	2,662.27	2,640.49	7.50	17.19	-6.23	-6.23	-310.60	1,307.95	1,050.25	1,026.30	23.96	43.840	
3,000.00	2,979.17	2,745.60	2,720.63	7.66	17.41	-5.56	-5.56	-327.49	1,323.31	1,060.30	1,036.13	24.18	43.858	
3,100.00	3,078.35	2,838.03	2,809.16	7.82	17.69	-4.79	-4.79	-347.34	1,340.96	1,071.53	1,047.06	24.47	43.791	
3,200.00	3,177.54	2,945.78	2,912.34	8.00	18.02	-3.91	-3.91	-370.36	1,361.77	1,083.19	1,058.33	24.85	43.586	
3,300.00	3,276.72	3,057.23	3,019.63	8.18	18.36	-3.05	-3.05	-393.24	1,381.44	1,093.10	1,067.84	25.26	43.273	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
3,400.00	3,375.91	3,154.27	3,113.06	8.37	18.68	-2.32	-413.06	1,398.56	1,103.23	1,077.62	25.61	43.078	
3,500.00	3,475.09	3,273.06	3,227.86	8.57	19.06	-1.50	-435.90	1,418.82	1,112.57	1,086.50	26.07	42.674	
3,600.00	3,574.28	3,365.22	3,317.28	8.78	19.36	-0.96	-451.84	1,434.45	1,121.38	1,094.98	26.40	42.479	
3,700.00	3,673.46	3,458.75	3,407.94	8.99	19.68	-0.50	-466.99	1,451.75	1,131.37	1,104.63	26.74	42.305	
3,800.00	3,772.65	3,563.56	3,509.69	9.21	20.05	0.02	-483.78	1,470.43	1,140.74	1,113.59	27.16	42.008	
3,900.00	3,871.83	3,671.85	3,614.74	9.43	20.45	0.60	-502.15	1,489.19	1,150.09	1,122.49	27.60	41.668	
4,000.00	3,971.02	3,772.74	3,712.73	9.66	20.82	1.15	-519.54	1,505.81	1,158.80	1,130.79	28.01	41.369	
4,100.00	4,070.20	3,850.00	3,787.66	9.89	21.13	1.53	-532.34	1,519.59	1,168.63	1,140.33	28.31	41.286	
4,200.00	4,169.39	3,936.06	3,870.82	10.13	21.50	1.97	-547.28	1,535.91	1,179.93	1,151.27	28.66	41.170	
4,300.00	4,268.57	4,031.54	3,962.88	10.37	21.93	2.47	-564.75	1,554.32	1,191.98	1,162.90	29.08	40.989	
6,200.00	6,153.09	6,230.82	6,128.83	15.48	28.52	8.53	-767.08	1,770.24	1,193.18	1,155.00	38.17	31.258	
6,300.00	6,252.27	6,331.95	6,229.95	15.77	28.67	8.65	-768.02	1,770.94	1,181.60	1,143.01	38.59	30.618	
6,400.00	6,351.46	6,434.74	6,332.74	16.06	28.81	8.78	-769.08	1,771.33	1,169.81	1,130.79	39.02	29.983	
6,500.00	6,450.64	6,536.64	6,434.63	16.34	28.96	8.92	-769.99	1,771.47	1,157.74	1,118.30	39.44	29.354	
6,600.00	6,549.83	6,637.05	6,535.05	16.63	29.11	9.05	-770.77	1,771.50	1,145.53	1,105.67	39.87	28.735	
6,700.00	6,649.01	6,738.14	6,636.13	16.92	29.25	9.19	-771.41	1,771.46	1,133.20	1,092.91	40.29	28.125	
6,794.42	6,743.16	6,837.57	6,735.55	17.11	29.39	-94.13	-771.91	1,771.22	1,127.43	1,086.79	40.65	27.737	
6,800.00	6,748.73	6,843.79	6,741.78	17.13	29.40	-102.34	-772.00	1,771.16	1,127.33	1,086.66	40.67	27.720	
6,900.00	6,847.93	6,941.40	6,839.38	17.25	29.54	-141.01	-773.14	1,770.27	1,135.16	1,094.14	41.01	27.678 SF	
7,000.00	6,944.17	7,036.84	6,934.81	17.33	29.68	-146.04	-773.93	1,769.70	1,157.02	1,115.68	41.33	27.992	
7,100.00	7,035.09	7,128.66	7,026.63	17.37	29.81	-147.46	-774.62	1,769.19	1,192.49	1,150.86	41.63	28.643	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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, 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	97.02	-124.93	1,013.87	1,021.59				
100.00	100.00	89.00	89.00	3.28	3.56	97.02	-124.93	1,013.87	1,021.53	1,013.90	7.63	133.891	
200.00	200.00	189.00	189.00	3.31	5.73	97.02	-124.93	1,013.87	1,021.53	1,011.71	9.82	103.984	
300.00	299.98	288.98	288.98	3.35	8.87	-11.20	-124.93	1,013.87	1,019.82	1,006.82	13.01	78.418	
400.00	399.84	388.84	388.84	3.41	12.22	-11.28	-124.93	1,013.87	1,014.69	998.26	16.43	61.773	
500.00	499.45	488.53	488.53	3.50	14.99	-11.41	-124.91	1,013.87	1,006.14	986.86	19.28	52.187	
600.00	598.73	588.03	588.03	3.62	16.12	-11.59	-124.66	1,013.88	994.38	973.85	20.53	48.435	
700.00	697.91	687.54	687.54	3.76	16.13	-11.74	-124.74	1,013.82	981.85	961.19	20.66	47.524	
800.00	797.10	786.36	786.36	3.93	16.14	-11.88	-124.98	1,013.75	969.33	948.51	20.82	46.567	
900.00	896.28	885.44	885.44	4.12	16.15	-12.03	-125.04	1,013.73	956.84	935.85	20.99	45.585	
1,000.00	995.47	985.22	985.22	4.33	16.17	-12.17	-125.35	1,013.65	944.33	923.15	21.19	44.573	
1,100.00	1,094.65	1,085.07	1,085.06	4.56	16.20	-12.30	-125.98	1,013.47	931.77	910.37	21.40	43.542	
1,200.00	1,193.84	1,184.96	1,184.95	4.80	16.22	-12.43	-126.62	1,013.21	919.13	897.50	21.63	42.500	
1,300.00	1,293.02	1,284.16	1,284.15	5.05	16.25	-12.55	-127.36	1,012.90	906.45	884.58	21.87	41.446	
1,400.00	1,392.21	1,383.96	1,383.94	5.31	16.29	-12.66	-128.41	1,012.56	893.77	871.65	22.13	40.396	
1,500.00	1,491.39	1,488.67	1,488.64	5.58	16.33	-12.77	-129.60	1,011.79	880.72	858.33	22.40	39.326	
1,600.00	1,590.58	1,606.03	1,605.97	5.86	16.38	-12.87	-131.24	1,009.66	866.70	844.02	22.67	38.226	
1,700.00	1,689.76	1,734.60	1,734.27	6.15	16.45	-12.76	-135.86	1,002.91	849.41	826.46	22.94	37.023	
1,800.00	1,788.95	1,857.91	1,856.85	6.43	16.53	-12.36	-143.98	992.42	829.30	806.10	23.21	35.735	
1,900.00	1,888.13	1,986.09	1,983.73	6.59	16.63	-11.82	-153.21	976.73	805.58	782.46	23.13	34.833	
2,000.00	1,987.32	2,099.33	2,094.99	6.62	16.75	-11.01	-164.81	959.21	779.14	755.95	23.18	33.608	
2,100.00	2,086.50	2,229.24	2,221.51	6.66	16.92	-9.69	-181.23	934.78	749.99	726.79	23.20	32.330	
2,200.00	2,185.69	2,327.47	2,316.17	6.72	17.09	-8.38	-195.76	912.96	718.00	694.63	23.36	30.732	
2,300.00	2,284.87	2,406.93	2,392.43	6.79	17.24	-7.03	-209.87	895.72	687.27	663.64	23.63	29.084	
2,400.00	2,384.06	2,495.14	2,477.22	6.88	17.40	-5.37	-226.36	877.81	658.56	634.68	23.89	27.571	
2,500.00	2,483.24	2,602.27	2,579.73	6.98	17.64	-3.06	-247.20	854.71	629.48	605.34	24.13	26.084	
2,600.00	2,582.43	2,713.51	2,686.21	7.09	17.93	-0.57	-266.63	829.08	599.50	575.10	24.40	24.569	
2,700.00	2,681.61	2,814.24	2,781.53	7.22	18.24	2.17	-285.30	802.41	567.45	542.68	24.77	22.904	
2,800.00	2,780.80	2,904.09	2,866.54	7.35	18.53	4.88	-301.69	778.37	536.27	511.04	25.22	21.260	
2,900.00	2,879.98	2,983.47	2,942.10	7.50	18.78	7.40	-315.64	758.44	507.61	481.89	25.72	19.735	
3,000.00	2,979.17	3,063.16	3,018.32	7.66	19.04	10.11	-330.26	740.37	482.77	456.52	26.25	18.394	
3,100.00	3,078.35	3,159.98	3,110.51	7.82	19.40	13.93	-350.33	718.65	460.91	434.08	26.83	17.182	
3,200.00	3,177.54	3,263.49	3,209.15	8.00	19.80	18.29	-369.90	694.14	439.30	411.86	27.44	16.008	
3,300.00	3,276.72	3,358.01	3,299.72	8.18	20.14	22.35	-384.95	671.74	418.30	390.24	28.05	14.911	
3,400.00	3,375.91	3,444.01	3,382.66	8.37	20.45	26.12	-398.01	653.08	400.55	371.89	28.66	13.977	
3,500.00	3,475.09	3,535.92	3,471.81	8.57	20.78	30.16	-411.38	635.22	386.18	356.93	29.25	13.201	
3,600.00	3,574.28	3,630.74	3,563.97	8.78	21.11	34.49	-424.89	617.50	374.37	344.53	29.85	12.543	
3,700.00	3,673.46	3,724.69	3,656.15	8.99	21.42	38.40	-435.85	603.02	364.64	334.26	30.38	12.001	
3,800.00	3,772.65	3,822.68	3,752.29	9.21	21.74	42.64	-447.77	588.32	357.51	326.59	30.92	11.561	
3,900.00	3,871.83	3,917.38	3,844.10	9.43	22.13	47.68	-460.78	569.18	351.82	320.34	31.48	11.176	
3,998.74	3,969.76	4,009.36	3,932.14	9.66	22.56	53.34	-475.34	546.89	349.99	317.99	32.00	10.937	
4,000.00	3,971.02	4,010.54	3,933.27	9.66	22.57	53.41	-475.53	546.60	349.99	317.98	32.01	10.934	
4,100.00	4,070.20	4,096.03	4,014.80	9.89	23.00	58.79	-489.83	525.22	352.90	320.52	32.38	10.898	
4,200.00	4,169.39	4,191.23	4,105.37	10.13	23.49	64.69	-506.65	501.22	360.82	328.08	32.75	11.019	
4,300.00	4,268.57	4,297.41	4,207.18	10.37	23.98	70.72	-522.89	475.87	370.45	337.31	33.14	11.179	
4,400.00	4,367.76	4,400.23	4,307.15	10.62	24.41	75.74	-534.73	454.97	379.42	345.98	33.44	11.345	
4,500.00	4,466.94	4,499.59	4,404.01	10.87	24.81	80.15	-546.28	436.08	390.93	357.24	33.69	11.604	
4,600.00	4,566.13	4,610.64	4,513.32	11.12	25.20	84.30	-556.07	419.26	400.99	366.99	34.01	11.792	
4,700.00	4,665.31	4,715.37	4,617.16	11.38	25.49	87.45	-563.67	407.95	409.97	375.71	34.26	11.965	
4,800.00	4,764.50	4,824.66	4,725.94	11.63	25.75	90.27	-569.63	399.33	417.35	382.82	34.54	12.084	
4,900.00	4,863.68	4,923.72	4,824.70	11.90	25.96	92.57	-574.13	393.21	424.12	389.35	34.77	12.196	
5,000.00	4,962.87	5,024.96	4,925.70	12.16	26.16	94.58	-579.51	388.74	431.57	396.54	35.04	12.318	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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, 554-SRC Energy_ISCWSA REV 2 MWD												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	5,062.05	5,126.76	5,027.33	12.43	26.35	96.33	-584.61	386.05	438.49	403.18	35.31	12.417	
5,200.00	5,161.24	5,249.08	5,149.59	12.70	26.53	98.56	-586.60	383.28	442.56	406.96	35.60	12.430	
5,300.00	5,260.42	5,352.30	5,252.80	12.97	26.65	100.38	-585.62	382.52	444.17	408.30	35.87	12.382	
5,400.00	5,359.61	5,451.88	5,352.38	13.24	26.76	102.04	-584.70	382.52	445.86	409.70	36.15	12.333	
5,500.00	5,458.79	5,549.25	5,449.74	13.52	26.87	103.59	-584.10	382.84	448.00	411.55	36.45	12.290	
5,600.00	5,557.98	5,645.95	5,546.44	13.79	26.99	105.09	-584.08	383.09	451.03	414.26	36.76	12.269	
5,700.00	5,657.16	5,751.69	5,652.18	14.07	27.10	106.58	-584.24	384.43	453.93	416.86	37.07	12.244	
5,800.00	5,756.35	5,851.27	5,751.70	14.35	27.20	107.80	-584.21	387.48	455.92	418.51	37.41	12.187	
5,900.00	5,855.53	5,940.12	5,840.54	14.63	27.31	108.97	-584.86	388.76	459.70	421.94	37.76	12.174	
6,000.00	5,954.72	6,034.80	5,935.21	14.91	27.44	110.34	-586.36	388.03	465.72	427.61	38.11	12.220	
6,100.00	6,053.90	6,136.52	6,036.91	15.20	27.60	111.78	-587.78	387.28	471.89	433.41	38.48	12.264	
6,200.00	6,153.09	6,236.64	6,137.02	15.48	27.74	113.13	-589.03	386.99	477.93	439.07	38.85	12.302	
6,300.00	6,252.27	6,336.51	6,236.88	15.77	27.89	114.38	-590.57	387.22	484.09	444.86	39.24	12.338	
6,400.00	6,351.46	6,437.26	6,337.63	16.06	28.03	115.60	-591.98	387.62	490.25	450.62	39.63	12.371	
6,500.00	6,450.64	6,537.61	6,437.97	16.34	28.17	116.83	-592.91	387.94	496.36	456.33	40.03	12.400	
6,600.00	6,549.83	6,637.38	6,537.73	16.63	28.31	118.03	-593.75	388.38	502.54	462.11	40.44	12.428	
6,700.00	6,649.01	6,737.05	6,637.40	16.92	28.45	119.17	-594.63	388.97	508.85	468.00	40.85	12.456	
6,800.00	6,748.73	6,837.16	6,737.50	17.13	28.59	8.52	-595.55	389.68	509.64	468.44	41.20	12.369	
6,900.00	6,847.93	6,936.26	6,836.59	17.25	28.74	-31.43	-596.38	390.36	498.83	457.31	41.52	12.013	
7,000.00	6,944.17	7,032.60	6,932.93	17.33	28.88	-40.02	-596.98	390.83	477.08	435.24	41.84	11.402	
7,100.00	7,035.09	7,124.40	7,024.73	17.37	29.01	-47.75	-597.38	391.30	445.91	403.73	42.18	10.571	
7,200.00	7,118.44	7,207.97	7,108.30	17.39	29.13	-57.13	-597.59	391.83	408.37	365.75	42.62	9.582	
7,300.00	7,192.18	7,281.00	7,181.32	17.41	29.23	-68.20	-597.80	392.34	369.66	326.40	43.26	8.545	
7,400.00	7,254.49	7,342.51	7,242.83	17.45	29.32	-79.50	-598.04	392.79	337.49	293.25	44.24	7.629	
7,500.00	7,303.82	7,391.30	7,291.62	17.54	29.40	-88.66	-598.25	393.18	321.80	276.30	45.50	7.073	
7,515.56	7,310.25	7,397.62	7,297.94	17.57	29.40	-89.75	-598.27	393.23	321.48	275.77	45.70	7.034 CC, ES, SF	
7,600.00	7,338.98	7,425.66	7,325.98	17.72	29.45	-93.66	-598.38	393.50	331.40	284.77	46.62	7.108	
7,700.00	7,359.09	7,444.75	7,345.07	18.02	29.47	-93.47	-598.45	393.69	368.20	321.00	47.19	7.802	
7,800.00	7,364.03	7,448.61	7,348.93	18.43	29.48	-89.33	-598.46	393.73	426.50	379.24	47.27	9.024	
7,900.00	7,364.15	7,447.68	7,348.00	19.00	29.48	-89.16	-598.46	393.72	498.40	451.28	47.12	10.577	
8,000.00	7,364.28	7,446.75	7,347.07	19.70	29.48	-89.00	-598.46	393.72	578.71	531.79	46.92	12.334	
8,100.00	7,364.41	7,445.83	7,346.15	20.52	29.47	-88.83	-598.45	393.71	664.38	617.66	46.72	14.220	
8,200.00	7,364.54	7,444.92	7,345.24	21.44	29.47	-88.67	-598.45	393.70	753.59	707.05	46.55	16.190	
8,300.00	7,364.67	7,444.01	7,344.33	22.46	29.47	-88.51	-598.45	393.69	845.22	798.82	46.40	18.216	
8,400.00	7,364.79	7,443.11	7,343.43	23.54	29.47	-88.34	-598.44	393.68	938.56	892.28	46.28	20.281	
8,500.00	7,364.92	7,442.22	7,342.54	24.70	29.47	-88.18	-598.44	393.67	1,033.14	986.97	46.18	22.373	
8,600.00	7,365.05	7,441.33	7,341.65	25.91	29.47	-88.02	-598.44	393.66	1,128.66	1,082.56	46.10	24.485	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	96.76	-123.12	1,038.11	1,045.44				
100.00	100.00	89.00	89.00	3.28	3.56	96.76	-123.12	1,038.11	1,045.38	1,037.75	7.63	137.016	
200.00	200.00	189.00	189.00	3.31	5.73	96.76	-123.12	1,038.11	1,045.38	1,035.56	9.82	106.412	
300.00	299.98	288.98	288.98	3.35	8.87	-11.46	-123.12	1,038.11	1,043.67	1,030.67	13.01	80.251	
400.00	399.84	388.84	388.84	3.41	12.22	-11.54	-123.12	1,038.11	1,038.54	1,022.12	16.43	63.225	
500.00	499.45	488.45	488.45	3.50	15.65	-11.67	-123.12	1,038.11	1,030.00	1,010.06	19.94	51.646	
600.00	598.73	587.73	587.73	3.62	19.11	-11.84	-123.12	1,038.11	1,018.26	994.75	23.51	43.309	
700.00	697.91	686.91	686.91	3.76	22.58	-11.99	-123.12	1,038.11	1,005.79	978.69	27.11	37.104	
800.00	797.10	786.10	786.10	3.93	26.06	-12.14	-123.12	1,038.11	993.33	962.60	30.73	32.320	
900.00	896.28	885.28	885.28	4.12	29.55	-12.30	-123.12	1,038.11	980.87	946.49	34.39	28.526	
1,000.00	995.47	984.47	984.47	4.33	33.04	-12.46	-123.12	1,038.11	968.42	930.37	38.06	25.447	
1,100.00	1,094.65	1,083.65	1,083.65	4.56	36.54	-12.62	-123.12	1,038.11	955.98	914.24	41.75	22.900	
1,200.00	1,193.84	1,182.84	1,182.84	4.80	40.04	-12.79	-123.12	1,038.11	943.55	898.10	45.45	20.761	
1,300.00	1,293.02	1,282.02	1,282.02	5.05	43.55	-12.96	-123.12	1,038.11	931.12	881.96	49.16	18.939	
1,400.00	1,392.21	1,381.21	1,381.21	5.31	47.05	-13.14	-123.12	1,038.11	918.70	865.81	52.89	17.370	
1,500.00	1,491.39	1,480.39	1,480.39	5.58	50.56	-13.33	-123.12	1,038.11	906.30	849.67	56.63	16.005	
1,600.00	1,590.58	1,579.58	1,579.58	5.86	54.07	-13.51	-123.12	1,038.11	893.90	833.53	60.37	14.807	
1,700.00	1,689.76	1,678.76	1,678.76	6.15	57.57	-13.71	-123.12	1,038.11	881.51	817.39	64.12	13.748	
1,800.00	1,788.95	1,777.95	1,777.95	6.43	61.08	-13.91	-123.12	1,038.11	869.13	801.25	67.88	12.804	
1,900.00	1,888.13	1,877.13	1,877.13	6.59	64.59	-14.11	-123.12	1,038.11	856.76	785.45	71.31	12.014	
2,000.00	1,987.32	1,976.32	1,976.32	6.62	68.10	-14.32	-123.12	1,038.11	844.41	769.57	74.84	11.283	
2,100.00	2,086.50	2,075.50	2,075.50	6.66	71.61	-14.54	-123.12	1,038.11	832.06	753.68	78.38	10.615	
2,200.00	2,185.69	2,174.69	2,174.69	6.72	75.12	-14.76	-123.12	1,038.11	819.73	737.79	81.94	10.004	
2,300.00	2,284.87	2,273.87	2,273.87	6.79	78.64	-14.99	-123.12	1,038.11	807.41	721.89	85.51	9.442	
2,400.00	2,384.06	2,373.06	2,373.06	6.88	82.15	-15.23	-123.12	1,038.11	795.10	706.00	89.10	8.924	
2,500.00	2,483.24	2,472.24	2,472.24	6.98	85.66	-15.47	-123.12	1,038.11	782.81	690.11	92.70	8.445	
2,600.00	2,582.43	2,571.43	2,571.43	7.09	89.17	-15.73	-123.12	1,038.11	770.53	674.22	96.31	8.001	
2,700.00	2,681.61	2,670.61	2,670.61	7.22	92.68	-15.99	-123.12	1,038.11	758.26	658.33	99.93	7.588	
2,800.00	2,780.80	2,769.80	2,769.80	7.35	96.19	-16.26	-123.12	1,038.11	746.02	642.45	103.57	7.203	
2,900.00	2,879.98	2,868.98	2,868.98	7.50	99.71	-16.54	-123.12	1,038.11	733.78	626.57	107.22	6.844	
3,000.00	2,979.17	2,968.17	2,968.17	7.66	103.22	-16.82	-123.12	1,038.11	721.57	610.70	110.87	6.508	
3,100.00	3,078.35	3,067.35	3,067.35	7.82	106.73	-17.12	-123.12	1,038.11	709.38	594.83	114.54	6.193	
3,200.00	3,177.54	3,166.54	3,166.54	8.00	110.24	-17.43	-123.12	1,038.11	697.20	578.98	118.22	5.898	
3,300.00	3,276.72	3,265.72	3,265.72	8.18	113.76	-17.75	-123.12	1,038.11	685.05	563.14	121.91	5.619	
3,400.00	3,375.91	3,364.91	3,364.91	8.37	117.27	-18.08	-123.12	1,038.11	672.91	547.31	125.60	5.358	
3,500.00	3,475.09	3,464.09	3,464.09	8.57	120.78	-18.42	-123.12	1,038.11	660.80	531.50	129.30	5.111	
3,600.00	3,574.28	3,563.28	3,563.28	8.78	124.30	-18.78	-123.12	1,038.11	648.72	515.71	133.01	4.877	
3,700.00	3,673.46	3,662.46	3,662.46	8.99	127.81	-19.15	-123.12	1,038.11	636.66	499.93	136.73	4.656	
3,800.00	3,772.65	3,761.65	3,761.65	9.21	131.32	-19.53	-123.12	1,038.11	624.63	484.17	140.45	4.447	
3,900.00	3,871.83	3,860.83	3,860.83	9.43	134.84	-19.93	-123.12	1,038.11	612.62	468.44	144.18	4.249	
4,000.00	3,971.02	3,960.02	3,960.02	9.66	138.35	-20.34	-123.12	1,038.11	600.65	452.73	147.91	4.061	
4,100.00	4,070.20	4,059.20	4,059.20	9.89	141.86	-20.77	-123.12	1,038.11	588.70	437.05	151.65	3.882	
4,200.00	4,169.39	4,158.39	4,158.39	10.13	145.38	-21.22	-123.12	1,038.11	576.80	421.40	155.40	3.712	
4,300.00	4,268.57	4,257.57	4,257.57	10.37	148.89	-21.69	-123.12	1,038.11	564.93	405.78	159.15	3.550	
4,400.00	4,367.76	4,356.76	4,356.76	10.62	152.40	-22.17	-123.12	1,038.11	553.09	390.19	162.90	3.395	
4,500.00	4,466.94	4,455.94	4,455.94	10.87	155.92	-22.68	-123.12	1,038.11	541.30	374.64	166.66	3.248	
4,600.00	4,566.13	4,555.13	4,555.13	11.12	159.43	-23.21	-123.12	1,038.11	529.55	359.13	170.43	3.107	
4,700.00	4,665.31	4,654.31	4,654.31	11.38	162.94	-23.77	-123.12	1,038.11	517.85	343.66	174.19	2.973	
4,800.00	4,764.50	4,753.50	4,753.50	11.63	166.46	-24.35	-123.12	1,038.11	506.20	328.24	177.96	2.844	
4,900.00	4,863.68	4,852.68	4,852.68	11.90	169.97	-24.96	-123.12	1,038.11	494.61	312.87	181.74	2.722	
5,000.00	4,962.87	4,951.87	4,951.87	12.16	173.49	-25.59	-123.12	1,038.11	483.07	297.55	185.52	2.604	
5,100.00	5,062.05	5,051.05	5,051.05	12.43	177.00	-26.26	-123.12	1,038.11	471.59	282.29	189.30	2.491	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,150.24	5,150.24	12.70	180.51	-26.96	-123.12	1,038.11	460.18	267.10	193.08	2.383	
5,300.00	5,260.42	5,249.42	5,249.42	12.97	184.03	-27.70	-123.12	1,038.11	448.84	251.97	196.87	2.280	
5,400.00	5,359.61	5,348.61	5,348.61	13.24	187.54	-28.47	-123.12	1,038.11	437.58	236.92	200.66	2.181	
5,500.00	5,458.79	5,447.79	5,447.79	13.52	191.05	-29.28	-123.12	1,038.11	426.40	221.95	204.46	2.086	
5,600.00	5,557.98	5,546.98	5,546.98	13.79	194.57	-30.14	-123.12	1,038.11	415.31	207.06	208.25	1.994	
5,700.00	5,657.16	5,646.16	5,646.16	14.07	198.08	-31.05	-123.12	1,038.11	404.32	192.27	212.05	1.907	
5,800.00	5,756.35	5,745.35	5,745.35	14.35	201.60	-32.00	-123.12	1,038.11	393.44	177.58	215.86	1.823	
5,900.00	5,855.53	5,844.53	5,844.53	14.63	205.11	-33.01	-123.12	1,038.11	382.67	163.00	219.67	1.742	
6,000.00	5,954.72	5,943.72	5,943.72	14.91	208.62	-34.08	-123.12	1,038.11	372.02	148.54	223.48	1.665	
6,100.00	6,053.90	6,042.90	6,042.90	15.20	212.14	-35.21	-123.12	1,038.11	361.51	134.22	227.29	1.591	
6,200.00	6,153.09	6,142.09	6,142.09	15.48	215.65	-36.40	-123.12	1,038.11	351.15	120.04	231.11	1.519	
6,300.00	6,252.27	6,241.27	6,241.27	15.77	219.17	-37.67	-123.12	1,038.11	340.95	106.01	234.93	1.451	Level 3
6,400.00	6,351.46	6,340.46	6,340.46	16.06	222.68	-39.01	-123.12	1,038.11	330.92	92.16	238.76	1.386	Level 3
6,500.00	6,450.64	6,439.64	6,439.64	16.34	226.19	-40.44	-123.12	1,038.11	321.09	78.50	242.59	1.324	Level 3
6,600.00	6,549.83	6,538.83	6,538.83	16.63	229.71	-41.95	-123.12	1,038.11	311.47	65.05	246.42	1.264	Level 3
6,700.00	6,649.01	6,638.01	6,638.01	16.92	233.22	-43.56	-123.12	1,038.11	302.07	51.82	250.25	1.207	Level 2
6,766.10	6,714.87	6,703.87	6,703.87	17.06	235.56	-90.00	-123.12	1,038.11	299.02	46.28	252.74	1.183	Level 2, CC
6,800.00	6,748.73	6,737.73	6,737.73	17.13	236.75	-155.78	-123.12	1,038.11	299.69	45.68	254.01	1.180	Level 2, ES, SF
6,900.00	6,847.93	6,836.93	6,836.93	17.25	240.27	165.37	-123.12	1,038.11	311.39	53.74	257.66	1.209	Level 2
7,000.00	6,944.17	6,933.17	6,933.17	17.33	243.68	160.51	-123.12	1,038.11	336.97	75.84	261.13	1.290	Level 3
7,100.00	7,035.09	7,024.09	7,024.09	17.37	246.90	159.15	-123.12	1,038.11	376.21	111.84	264.37	1.423	Level 3
7,200.00	7,118.44	7,107.44	7,107.44	17.39	249.85	158.55	-123.12	1,038.11	428.62	161.31	267.30	1.603	
7,300.00	7,192.18	7,181.18	7,181.18	17.41	252.47	157.71	-123.12	1,038.11	493.26	223.39	269.88	1.828	
7,400.00	7,254.49	7,243.49	7,243.49	17.45	254.67	155.92	-123.12	1,038.11	568.75	296.71	272.04	2.091	
7,500.00	7,303.82	7,307.18	7,292.82	17.54	256.93	152.10	-123.12	1,038.11	653.27	379.02	274.25	2.382	
7,600.00	7,338.98	7,327.98	7,327.98	17.72	257.67	143.83	-123.12	1,038.11	744.72	469.78	274.94	2.709	
7,700.00	7,359.09	7,348.09	7,348.09	18.02	258.38	123.78	-123.12	1,038.11	840.79	565.18	275.61	3.051	
7,800.00	7,364.03	7,353.03	7,353.03	18.43	258.55	90.43	-123.12	1,038.11	939.04	663.29	275.75	3.405	
7,900.00	7,364.15	7,353.15	7,353.15	19.00	258.56	90.48	-123.12	1,038.11	1,037.76	762.04	275.73	3.764	
8,000.00	7,364.28	7,353.28	7,353.28	19.70	258.56	90.53	-123.12	1,038.11	1,136.71	860.99	275.71	4.123	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	96.31	-120.20	1,086.58	1,093.27				
100.00	100.00	89.00	89.00	3.28	3.56	96.31	-120.20	1,086.58	1,093.21	1,085.58	7.63	143.285	
200.00	200.00	189.00	189.00	3.31	5.73	96.31	-120.20	1,086.58	1,093.21	1,083.39	9.82	111.281	
300.00	299.98	288.98	288.98	3.35	8.87	-11.91	-120.20	1,086.58	1,091.50	1,078.50	13.01	83.929	
400.00	399.84	388.84	388.84	3.41	12.22	-11.99	-120.20	1,086.58	1,086.38	1,069.96	16.43	66.137	
500.00	499.45	488.45	488.45	3.50	15.65	-12.12	-120.20	1,086.58	1,077.86	1,057.92	19.94	54.046	
600.00	598.73	587.73	587.73	3.62	19.11	-12.29	-120.20	1,086.58	1,066.14	1,042.63	23.51	45.345	
700.00	697.91	686.91	686.91	3.76	22.58	-12.44	-120.20	1,086.58	1,053.69	1,026.58	27.11	38.871	
800.00	797.10	786.10	786.10	3.93	26.06	-12.59	-120.20	1,086.58	1,041.25	1,010.51	30.73	33.879	
900.00	896.28	885.28	885.28	4.12	29.55	-12.74	-120.20	1,086.58	1,028.81	994.43	34.39	29.920	
1,000.00	995.47	984.47	984.47	4.33	33.04	-12.90	-120.20	1,086.58	1,016.38	978.33	38.06	26.707	
1,100.00	1,094.65	1,083.65	1,083.65	4.56	36.54	-13.06	-120.20	1,086.58	1,003.96	962.22	41.75	24.049	
1,200.00	1,193.84	1,182.84	1,182.84	4.80	40.04	-13.23	-120.20	1,086.58	991.55	946.10	45.45	21.816	
1,300.00	1,293.02	1,282.02	1,282.02	5.05	43.55	-13.40	-120.20	1,086.58	979.15	929.98	49.17	19.915	
1,400.00	1,392.21	1,381.21	1,381.21	5.31	47.05	-13.58	-120.20	1,086.58	966.75	913.86	52.89	18.278	
1,500.00	1,491.39	1,480.39	1,480.39	5.58	50.56	-13.76	-120.20	1,086.58	954.37	897.74	56.63	16.853	
1,600.00	1,590.58	1,579.58	1,579.58	5.86	54.07	-13.94	-120.20	1,086.58	941.99	881.62	60.37	15.603	
1,700.00	1,689.76	1,678.76	1,678.76	6.15	57.57	-14.13	-120.20	1,086.58	929.62	865.50	64.12	14.497	
1,800.00	1,788.95	1,777.95	1,777.95	6.43	61.08	-14.32	-120.20	1,086.58	917.27	849.38	67.88	13.513	
1,900.00	1,888.13	1,877.13	1,877.13	6.59	64.59	-14.52	-120.20	1,086.58	904.92	833.61	71.31	12.689	
2,000.00	1,987.32	1,976.32	1,976.32	6.62	68.10	-14.73	-120.20	1,086.58	892.59	817.74	74.84	11.926	
2,100.00	2,086.50	2,075.50	2,075.50	6.66	71.61	-14.94	-120.20	1,086.58	880.26	801.88	78.39	11.230	
2,200.00	2,185.69	2,174.69	2,174.69	6.72	75.12	-15.16	-120.20	1,086.58	867.95	786.01	81.94	10.592	
2,300.00	2,284.87	2,273.87	2,273.87	6.79	78.64	-15.38	-120.20	1,086.58	855.65	770.14	85.51	10.006	
2,400.00	2,384.06	2,373.06	2,373.06	6.88	82.15	-15.61	-120.20	1,086.58	843.37	754.27	89.10	9.465	
2,500.00	2,483.24	2,472.24	2,472.24	6.98	85.66	-15.84	-120.20	1,086.58	831.10	738.40	92.70	8.966	
2,600.00	2,582.43	2,571.43	2,571.43	7.09	89.17	-16.09	-120.20	1,086.58	818.84	722.53	96.31	8.502	
2,700.00	2,681.61	2,670.61	2,670.61	7.22	92.68	-16.34	-120.20	1,086.58	806.60	706.66	99.94	8.071	
2,800.00	2,780.80	2,769.80	2,769.80	7.35	96.19	-16.60	-120.20	1,086.58	794.37	690.80	103.57	7.670	
2,900.00	2,879.98	2,868.98	2,868.98	7.50	99.71	-16.86	-120.20	1,086.58	782.16	674.94	107.22	7.295	
3,000.00	2,979.17	2,968.17	2,968.17	7.66	103.22	-17.14	-120.20	1,086.58	769.97	659.09	110.88	6.944	
3,100.00	3,078.35	3,067.35	3,067.35	7.82	106.73	-17.42	-120.20	1,086.58	757.79	643.25	114.54	6.616	
3,200.00	3,177.54	3,166.54	3,166.54	8.00	110.24	-17.71	-120.20	1,086.58	745.64	627.41	118.22	6.307	
3,300.00	3,276.72	3,265.72	3,265.72	8.18	113.76	-18.02	-120.20	1,086.58	733.50	611.59	121.91	6.017	
3,400.00	3,375.91	3,364.91	3,364.91	8.37	117.27	-18.33	-120.20	1,086.58	721.39	595.78	125.60	5.743	
3,500.00	3,475.09	3,464.09	3,464.09	8.57	120.78	-18.65	-120.20	1,086.58	709.29	579.99	129.30	5.485	
3,600.00	3,574.28	3,563.28	3,563.28	8.78	124.30	-18.99	-120.20	1,086.58	697.22	564.21	133.01	5.242	
3,700.00	3,673.46	3,662.46	3,662.46	8.99	127.81	-19.33	-120.20	1,086.58	685.18	548.45	136.73	5.011	
3,800.00	3,772.65	3,761.65	3,761.65	9.21	131.32	-19.69	-120.20	1,086.58	673.16	532.70	140.45	4.793	
3,900.00	3,871.83	3,860.83	3,860.83	9.43	134.84	-20.06	-120.20	1,086.58	661.16	516.98	144.18	4.586	
4,000.00	3,971.02	3,960.02	3,960.02	9.66	138.35	-20.45	-120.20	1,086.58	649.20	501.28	147.92	4.389	
4,100.00	4,070.20	4,059.20	4,059.20	9.89	141.86	-20.85	-120.20	1,086.58	637.26	485.61	151.66	4.202	
4,200.00	4,169.39	4,158.39	4,158.39	10.13	145.38	-21.26	-120.20	1,086.58	625.36	469.96	155.40	4.024	
4,300.00	4,268.57	4,257.57	4,257.57	10.37	148.89	-21.70	-120.20	1,086.58	613.49	454.34	159.15	3.855	
4,400.00	4,367.76	4,356.76	4,356.76	10.62	152.40	-22.14	-120.20	1,086.58	601.66	438.75	162.90	3.693	
4,500.00	4,466.94	4,455.94	4,455.94	10.87	155.92	-22.61	-120.20	1,086.58	589.86	423.20	166.66	3.539	
4,600.00	4,566.13	4,555.13	4,555.13	11.12	159.43	-23.09	-120.20	1,086.58	578.11	407.68	170.42	3.392	
4,700.00	4,665.31	4,654.31	4,654.31	11.38	162.94	-23.60	-120.20	1,086.58	566.39	392.20	174.19	3.252	
4,800.00	4,764.50	4,753.50	4,753.50	11.63	166.46	-24.13	-120.20	1,086.58	554.73	376.77	177.96	3.117	
4,900.00	4,863.68	4,852.68	4,852.68	11.90	169.97	-24.67	-120.20	1,086.58	543.11	361.37	181.73	2.988	
5,000.00	4,962.87	4,951.87	4,951.87	12.16	173.49	-25.25	-120.20	1,086.58	531.54	346.03	185.51	2.865	
5,100.00	5,062.05	5,051.05	5,051.05	12.43	177.00	-25.84	-120.20	1,086.58	520.03	330.74	189.29	2.747	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,150.24	5,150.24	12.70	180.51	-26.47	-120.20	1,086.58	508.57	315.50	193.07	2.634	
5,300.00	5,260.42	5,249.42	5,249.42	12.97	184.03	-27.12	-120.20	1,086.58	497.18	300.32	196.86	2.526	
5,400.00	5,359.61	5,348.61	5,348.61	13.24	187.54	-27.81	-120.20	1,086.58	485.85	285.21	200.65	2.421	
5,500.00	5,458.79	5,447.79	5,447.79	13.52	191.05	-28.52	-120.20	1,086.58	474.60	270.16	204.44	2.321	
5,600.00	5,557.98	5,546.98	5,546.98	13.79	194.57	-29.27	-120.20	1,086.58	463.43	255.19	208.24	2.225	
5,700.00	5,657.16	5,646.16	5,646.16	14.07	198.08	-30.06	-120.20	1,086.58	452.33	240.30	212.03	2.133	
5,800.00	5,756.35	5,745.35	5,745.35	14.35	201.60	-30.89	-120.20	1,086.58	441.33	225.49	215.84	2.045	
5,900.00	5,855.53	5,844.53	5,844.53	14.63	205.11	-31.76	-120.20	1,086.58	430.42	210.78	219.64	1.960	
6,000.00	5,954.72	5,943.72	5,943.72	14.91	208.62	-32.67	-120.20	1,086.58	419.61	196.17	223.45	1.878	
6,100.00	6,053.90	6,042.90	6,042.90	15.20	212.14	-33.63	-120.20	1,086.58	408.92	181.66	227.26	1.799	
6,200.00	6,153.09	6,142.09	6,142.09	15.48	215.65	-34.64	-120.20	1,086.58	398.35	167.28	231.07	1.724	
6,300.00	6,252.27	6,241.27	6,241.27	15.77	219.17	-35.71	-120.20	1,086.58	387.90	153.02	234.89	1.651	
6,400.00	6,351.46	6,340.46	6,340.46	16.06	222.68	-36.84	-120.20	1,086.58	377.60	138.89	238.71	1.582	
6,500.00	6,450.64	6,439.64	6,439.64	16.34	226.19	-38.02	-120.20	1,086.58	367.45	124.92	242.53	1.515	
6,600.00	6,549.83	6,538.83	6,538.83	16.63	229.71	-39.28	-120.20	1,086.58	357.47	111.11	246.36	1.451 Level 3	
6,700.00	6,649.01	6,638.01	6,638.01	16.92	233.22	-40.60	-120.20	1,086.58	347.67	97.48	250.19	1.390 Level 3	
6,767.78	6,716.55	6,705.55	6,705.55	17.06	235.61	-90.00	-120.20	1,086.58	344.38	91.65	252.73	1.363 Level 3, CC	
6,800.00	6,748.73	6,737.73	6,737.73	17.13	236.75	-152.66	-120.20	1,086.58	344.99	91.05	253.94	1.359 Level 3, ES, SF	
6,900.00	6,847.93	6,836.93	6,836.93	17.25	240.27	168.40	-120.20	1,086.58	356.75	99.16	257.59	1.385 Level 3	
7,000.00	6,944.17	6,933.17	6,933.17	17.33	243.68	163.26	-120.20	1,086.58	382.68	121.61	261.07	1.466 Level 3	
7,100.00	7,035.09	7,024.09	7,024.09	17.37	246.90	161.53	-120.20	1,086.58	422.43	158.11	264.32	1.598	
7,200.00	7,118.44	7,107.44	7,107.44	17.39	249.85	160.57	-120.20	1,086.58	475.37	208.11	267.26	1.779	
7,300.00	7,192.18	7,181.18	7,181.18	17.41	252.47	159.43	-120.20	1,086.58	540.48	270.63	269.85	2.003	
7,400.00	7,254.49	7,243.49	7,243.49	17.45	254.67	157.41	-120.20	1,086.58	616.33	344.32	272.02	2.266	
7,500.00	7,303.82	7,307.18	7,292.82	17.54	256.93	153.47	-120.20	1,086.58	701.13	426.90	274.23	2.557	
7,600.00	7,338.98	7,327.98	7,327.98	17.72	257.67	145.13	-120.20	1,086.58	792.78	517.85	274.93	2.884	
7,700.00	7,359.09	7,348.09	7,348.09	18.02	258.38	124.82	-120.20	1,086.58	888.99	613.39	275.60	3.226	
7,800.00	7,364.03	7,353.03	7,353.03	18.43	258.55	90.45	-120.20	1,086.58	987.35	711.61	275.74	3.581	
7,900.00	7,364.15	7,353.15	7,353.15	19.00	258.56	90.49	-120.20	1,086.58	1,086.14	810.42	275.72	3.939	
8,000.00	7,364.28	7,353.28	7,353.28	19.70	258.56	90.54	-120.20	1,086.58	1,185.14	909.43	275.71	4.299	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 29-3H6 - Noble SI Well - No Surv												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	-128.61	-139.52	-174.69	223.57				
100.00	100.00	101.00	99.00	3.28	3.74	-128.61	-139.52	-174.69	223.57	215.75	7.82	28.593	
200.00	200.00	201.00	199.00	3.31	6.28	-128.61	-139.52	-174.69	223.57	213.20	10.37	21.554	
300.00	299.98	301.02	298.98	3.35	9.48	-128.61	-139.52	-174.69	224.53	210.91	13.62	16.487	
400.00	399.84	401.16	398.84	3.41	12.87	124.59	-139.52	-174.69	227.46	210.40	17.07	13.327	
500.00	499.45	501.55	498.45	3.50	16.33	126.27	-139.52	-174.69	232.53	211.91	20.62	11.276	
600.00	598.73	602.27	597.73	3.62	19.84	128.50	-139.52	-174.69	239.84	215.59	24.25	9.891	
700.00	697.91	703.09	696.91	3.76	23.37	130.79	-139.52	-174.69	248.01	220.09	27.92	8.884	
800.00	797.10	803.90	796.10	3.93	26.91	132.94	-139.52	-174.69	256.56	224.94	31.62	8.114	
900.00	896.28	904.72	895.28	4.12	30.46	134.94	-139.52	-174.69	265.44	230.09	35.34	7.510	
1,000.00	995.47	1,005.53	994.47	4.33	34.02	136.82	-139.52	-174.69	274.62	235.53	39.09	7.026	
1,100.00	1,094.65	1,106.35	1,093.65	4.56	37.57	138.57	-139.52	-174.69	284.08	241.23	42.85	6.630	
1,200.00	1,193.84	1,207.16	1,192.84	4.80	41.13	140.21	-139.52	-174.69	293.79	247.16	46.62	6.301	
1,300.00	1,293.02	1,307.98	1,292.02	5.05	44.69	141.74	-139.52	-174.69	303.72	253.31	50.41	6.025	
1,400.00	1,392.21	1,408.79	1,391.21	5.31	48.26	143.18	-139.52	-174.69	313.85	259.65	54.20	5.790	
1,500.00	1,491.39	1,509.61	1,490.39	5.58	51.82	144.53	-139.52	-174.69	324.17	266.17	58.00	5.589	
1,600.00	1,590.58	1,589.58	1,589.58	5.86	54.65	145.79	-139.52	-174.69	334.65	273.58	61.07	5.479	
1,700.00	1,689.76	1,688.76	1,688.76	6.15	58.16	146.97	-139.52	-174.69	345.29	280.46	64.83	5.326	
1,800.00	1,788.95	1,787.95	1,787.95	6.43	61.67	148.09	-139.52	-174.69	356.07	287.48	68.59	5.191	
1,900.00	1,888.13	1,887.13	1,887.13	6.59	65.18	149.14	-139.52	-174.69	366.97	294.95	72.02	5.095	
2,000.00	1,987.32	1,986.32	1,986.32	6.62	68.69	150.13	-139.52	-174.69	377.99	302.44	75.54	5.004	
2,100.00	2,086.50	2,085.50	2,085.50	6.66	72.20	151.06	-139.52	-174.69	389.11	310.03	79.08	4.920	
2,200.00	2,185.69	2,184.69	2,184.69	6.72	75.71	151.94	-139.52	-174.69	400.32	317.70	82.63	4.845	
2,300.00	2,284.87	2,283.87	2,283.87	6.79	79.22	152.77	-139.52	-174.69	411.63	325.44	86.19	4.776	
2,400.00	2,384.06	2,383.06	2,383.06	6.88	82.73	153.56	-139.52	-174.69	423.02	333.25	89.77	4.712	
2,500.00	2,483.24	2,482.24	2,482.24	6.98	86.24	154.31	-139.52	-174.69	434.48	341.12	93.37	4.653	
2,600.00	2,582.43	2,581.43	2,581.43	7.09	89.75	155.02	-139.52	-174.69	446.02	349.04	96.97	4.599	
2,700.00	2,681.61	2,680.61	2,680.61	7.22	93.27	155.69	-139.52	-174.69	457.61	357.02	100.59	4.549	
2,800.00	2,780.80	2,779.80	2,779.80	7.35	96.78	156.33	-139.52	-174.69	469.27	365.05	104.22	4.503	
2,900.00	2,879.98	2,878.98	2,878.98	7.50	100.29	156.94	-139.52	-174.69	480.98	373.12	107.86	4.459	
3,000.00	2,979.17	2,978.17	2,978.17	7.66	103.80	157.52	-139.52	-174.69	492.74	381.23	111.51	4.419	
3,100.00	3,078.35	3,077.35	3,077.35	7.82	107.32	158.07	-139.52	-174.69	504.55	389.38	115.17	4.381	
3,200.00	3,177.54	3,176.54	3,176.54	8.00	110.83	158.60	-139.52	-174.69	516.41	397.56	118.84	4.345	
3,300.00	3,276.72	3,275.72	3,275.72	8.18	114.34	159.10	-139.52	-174.69	528.30	405.78	122.52	4.312	
3,400.00	3,375.91	3,374.91	3,374.91	8.37	117.86	159.58	-139.52	-174.69	540.24	414.03	126.21	4.280	
3,500.00	3,475.09	3,474.09	3,474.09	8.57	121.37	160.04	-139.52	-174.69	552.21	422.30	129.90	4.251	
3,600.00	3,574.28	3,573.28	3,573.28	8.78	124.88	160.49	-139.52	-174.69	564.21	430.61	133.60	4.223	
3,700.00	3,673.46	3,672.46	3,672.46	8.99	128.39	160.91	-139.52	-174.69	576.25	438.94	137.31	4.197	
3,800.00	3,772.65	3,771.65	3,771.65	9.21	131.91	161.31	-139.52	-174.69	588.31	447.29	141.03	4.172	
3,900.00	3,871.83	3,870.83	3,870.83	9.43	135.42	161.70	-139.52	-174.69	600.41	455.66	144.74	4.148	
4,000.00	3,971.02	3,970.02	3,970.02	9.66	138.93	162.08	-139.52	-174.69	612.53	464.06	148.47	4.126	
4,100.00	4,070.20	4,069.20	4,069.20	9.89	142.45	162.44	-139.52	-174.69	624.67	472.47	152.20	4.104	
4,200.00	4,169.39	4,168.39	4,168.39	10.13	145.96	162.78	-139.52	-174.69	636.84	480.90	155.93	4.084	
4,300.00	4,268.57	4,267.57	4,267.57	10.37	149.47	163.11	-139.52	-174.69	649.03	489.36	159.67	4.065	
4,400.00	4,367.76	4,366.76	4,366.76	10.62	152.99	163.44	-139.52	-174.69	661.24	497.82	163.41	4.046	
4,500.00	4,466.94	4,465.94	4,465.94	10.87	156.50	163.74	-139.52	-174.69	673.47	506.31	167.16	4.029	
4,600.00	4,566.13	4,565.13	4,565.13	11.12	160.02	164.04	-139.52	-174.69	685.72	514.81	170.91	4.012	
4,700.00	4,665.31	4,664.31	4,664.31	11.38	163.53	164.33	-139.52	-174.69	697.98	523.32	174.66	3.996	
4,800.00	4,764.50	4,763.50	4,763.50	11.63	167.04	164.61	-139.52	-174.69	710.26	531.85	178.41	3.981	
4,900.00	4,863.68	4,862.68	4,862.68	11.90	170.56	164.87	-139.52	-174.69	722.56	540.39	182.17	3.966	
5,000.00	4,962.87	4,961.87	4,961.87	12.16	174.07	165.13	-139.52	-174.69	734.88	548.95	185.93	3.952	
5,100.00	5,062.05	5,061.05	5,061.05	12.43	177.58	165.38	-139.52	-174.69	747.21	557.51	189.69	3.939	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 29-3H6 - Noble SI Well - No Surv												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	5,161.24	5,160.24	5,160.24	12.70	181.10	165.63	-139.52	-174.69	759.55	566.09	193.46	3.926	
5,300.00	5,260.42	5,259.42	5,259.42	12.97	184.61	165.86	-139.52	-174.69	771.90	574.68	197.23	3.914	
5,400.00	5,359.61	5,358.61	5,358.61	13.24	188.13	166.09	-139.52	-174.69	784.27	583.28	200.99	3.902	
5,500.00	5,458.79	5,457.79	5,457.79	13.52	191.64	166.31	-139.52	-174.69	796.65	591.88	204.77	3.891	
5,600.00	5,557.98	5,556.98	5,556.98	13.79	195.15	166.52	-139.52	-174.69	809.04	600.50	208.54	3.880	
5,700.00	5,657.16	5,656.16	5,656.16	14.07	198.67	166.73	-139.52	-174.69	821.44	609.13	212.31	3.869	
5,800.00	5,756.35	5,755.35	5,755.35	14.35	202.18	166.93	-139.52	-174.69	833.85	617.76	216.09	3.859	
5,900.00	5,855.53	5,854.53	5,854.53	14.63	205.69	167.13	-139.52	-174.69	846.27	626.41	219.87	3.849	
6,000.00	5,954.72	5,953.72	5,953.72	14.91	209.21	167.31	-139.52	-174.69	858.70	635.06	223.64	3.840	
6,100.00	6,053.90	6,052.90	6,052.90	15.20	212.72	167.50	-139.52	-174.69	871.14	643.72	227.42	3.830	
6,200.00	6,153.09	6,152.09	6,152.09	15.48	216.24	167.68	-139.52	-174.69	883.59	652.39	231.20	3.822	
6,300.00	6,252.27	6,251.27	6,251.27	15.77	219.75	167.85	-139.52	-174.69	896.05	661.06	234.99	3.813	
6,400.00	6,351.46	6,350.46	6,350.46	16.06	223.26	168.02	-139.52	-174.69	908.51	669.74	238.77	3.805	
6,500.00	6,450.64	6,449.64	6,449.64	16.34	226.78	168.18	-139.52	-174.69	920.98	678.43	242.56	3.797	
6,600.00	6,549.83	6,548.83	6,548.83	16.63	230.29	168.34	-139.52	-174.69	933.46	687.12	246.34	3.789	
6,700.00	6,649.01	6,648.01	6,648.01	16.92	233.81	168.50	-139.52	-174.69	945.95	695.82	250.13	3.782	
6,800.00	6,748.73	6,747.73	6,747.73	17.13	237.34	57.41	-139.52	-174.69	950.95	697.09	253.86	3.746	
6,900.00	6,847.93	6,846.93	6,846.93	17.25	240.85	19.21	-139.52	-174.69	940.42	682.91	257.51	3.652	
7,000.00	6,944.17	6,943.17	6,943.17	17.33	244.26	14.76	-139.52	-174.69	914.64	653.63	261.02	3.504	
7,100.00	7,035.09	7,034.09	7,034.09	17.37	247.48	14.05	-139.52	-174.69	874.30	610.01	264.29	3.308	
7,200.00	7,118.44	7,117.44	7,117.44	17.39	250.44	14.99	-139.52	-174.69	820.46	553.19	267.27	3.070	
7,300.00	7,192.18	7,208.82	7,191.18	17.41	253.68	17.50	-139.52	-174.69	754.53	484.02	270.51	2.789	
7,400.00	7,254.49	7,253.49	7,253.49	17.45	255.26	22.25	-139.52	-174.69	678.29	406.20	272.09	2.493	
7,500.00	7,303.82	7,302.82	7,302.82	17.54	257.01	30.96	-139.52	-174.69	593.85	320.02	273.84	2.169	
7,600.00	7,338.98	7,337.98	7,337.98	17.72	258.25	46.79	-139.52	-174.69	503.66	228.56	275.10	1.831	
7,700.00	7,359.09	7,358.09	7,358.09	18.02	258.96	71.11	-139.52	-174.69	410.64	134.76	275.88	1.488 Level 3	
7,800.00	7,364.03	7,363.03	7,363.03	18.43	259.14	89.85	-139.52	-174.69	318.49	42.23	276.26	1.153 Level 2	
7,900.00	7,364.15	7,363.15	7,363.15	19.00	259.14	89.90	-139.52	-174.69	232.46	-44.37	276.84	0.840 Level 1	
8,000.00	7,364.28	7,363.28	7,363.28	19.70	259.15	89.95	-139.52	-174.69	163.22	-115.17	278.39	0.586 Level 1	
8,086.99	7,364.39	7,363.39	7,363.39	20.41	259.15	90.00	-139.52	-174.69	138.10	-142.04	280.14	0.493 Level 1, CC, ES, SF	
8,100.00	7,364.41	7,363.41	7,363.41	20.52	259.15	90.01	-139.52	-174.69	138.72	-141.52	280.24	0.495 Level 1	
8,200.00	7,364.54	7,363.54	7,363.54	21.44	259.16	90.06	-139.52	-174.69	178.45	-100.93	279.38	0.639 Level 1	
8,300.00	7,364.67	7,363.67	7,363.67	22.46	259.16	90.11	-139.52	-174.69	253.86	-24.31	278.17	0.913 Level 1	
8,400.00	7,364.79	7,363.79	7,363.79	23.54	259.17	90.17	-139.52	-174.69	342.12	64.61	277.51	1.233 Level 2	
8,500.00	7,364.92	7,363.92	7,363.92	24.70	259.17	90.22	-139.52	-174.69	435.49	158.34	277.15	1.571	
8,600.00	7,365.05	7,364.05	7,364.05	25.91	259.18	90.27	-139.52	-174.69	531.27	254.32	276.95	1.918	
8,700.00	7,365.18	7,364.18	7,364.18	27.17	259.18	90.33	-139.52	-174.69	628.37	351.54	276.83	2.270	
8,800.00	7,365.31	7,364.31	7,364.31	28.47	259.18	90.38	-139.52	-174.69	726.26	449.51	276.75	2.624	
8,900.00	7,365.43	7,364.43	7,364.43	29.81	259.19	90.43	-139.52	-174.69	824.65	547.94	276.71	2.980	
9,000.00	7,365.56	7,364.56	7,364.56	31.19	259.19	90.49	-139.52	-174.69	923.39	646.71	276.69	3.337	
9,100.00	7,365.69	7,364.69	7,364.69	32.59	259.20	90.54	-139.52	-174.69	1,022.38	745.70	276.68	3.695	
9,200.00	7,365.82	7,364.82	7,364.82	34.01	259.20	90.59	-139.52	-174.69	1,121.54	844.86	276.68	4.054	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 29-4H6 - XOG PR Well - No Sur												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	
8,600.00	7,365.05	7,388.05	7,388.05	25.91	260.03	-89.93	-1,101.22	-1,526.01	1,175.81	893.71	282.09	4.168	
8,700.00	7,365.18	7,388.18	7,388.18	27.17	260.03	-89.93	-1,101.22	-1,526.01	1,106.94	823.48	283.46	3.905	
8,800.00	7,365.31	7,388.31	7,388.31	28.47	260.03	-89.94	-1,101.22	-1,526.01	1,043.12	758.04	285.08	3.659	
8,900.00	7,365.43	7,388.43	7,388.43	29.81	260.04	-89.95	-1,101.22	-1,526.01	985.34	698.40	286.94	3.434	
9,000.00	7,365.56	7,388.56	7,388.56	31.19	260.04	-89.96	-1,101.22	-1,526.01	934.71	645.70	289.01	3.234	
9,100.00	7,365.69	7,388.69	7,388.69	32.59	260.05	-89.97	-1,101.22	-1,526.01	892.45	601.23	291.22	3.065	
9,200.00	7,365.82	7,388.82	7,388.82	34.01	260.05	-89.98	-1,101.22	-1,526.01	859.80	566.34	293.46	2.930	
9,300.00	7,365.95	7,388.95	7,388.95	35.46	260.06	-89.99	-1,101.22	-1,526.01	837.88	542.28	295.60	2.834	
9,400.00	7,366.08	7,389.08	7,389.08	36.92	260.06	-90.00	-1,101.22	-1,526.01	827.55	530.05	297.50	2.782	
9,436.05	7,366.12	7,389.12	7,389.12	37.46	260.06	-90.00	-1,101.22	-1,526.01	826.76	528.67	298.09	2.774 CC, ES	
9,500.00	7,366.20	7,389.20	7,389.20	38.40	260.07	-90.01	-1,101.22	-1,526.01	829.23	530.22	299.01	2.773 SF	
9,600.00	7,366.33	7,389.33	7,389.33	39.90	260.07	-90.01	-1,101.22	-1,526.01	842.86	542.78	300.08	2.809	
9,700.00	7,366.46	7,389.46	7,389.46	41.41	260.08	-90.02	-1,101.22	-1,526.01	867.87	567.19	300.69	2.886	
9,800.00	7,366.59	7,389.59	7,389.59	42.93	260.08	-90.03	-1,101.22	-1,526.01	903.32	602.44	300.88	3.002	
9,900.00	7,366.72	7,389.72	7,389.72	44.47	260.08	-90.04	-1,101.22	-1,526.01	948.04	647.29	300.75	3.152	
10,000.00	7,366.84	7,389.84	7,389.84	46.01	260.09	-90.05	-1,101.22	-1,526.01	1,000.79	700.42	300.37	3.332	
10,100.00	7,366.97	7,389.97	7,389.97	47.56	260.09	-90.06	-1,101.22	-1,526.01	1,060.36	760.53	299.83	3.537	
10,200.00	7,367.10	7,409.90	7,390.10	49.12	260.80	-90.07	-1,101.22	-1,526.01	1,125.68	825.78	299.90	3.754	
10,300.00	7,367.23	7,409.77	7,390.23	50.68	260.79	-90.08	-1,101.22	-1,526.01	1,195.80	896.59	299.22	3.996	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
8,700.00	7,365.18	7,371.18	7,371.18	27.17	259.43	89.74	39.05	-1,907.64	1,163.15	885.47	277.68	4.189	
8,800.00	7,365.31	7,371.31	7,371.31	28.47	259.43	89.76	39.05	-1,907.64	1,067.17	789.06	278.11	3.837	
8,900.00	7,365.43	7,371.43	7,371.43	29.81	259.44	89.78	39.05	-1,907.64	972.00	693.33	278.67	3.488	
9,000.00	7,365.56	7,371.56	7,371.56	31.19	259.44	89.81	39.05	-1,907.64	877.90	598.48	279.42	3.142	
9,100.00	7,365.69	7,371.69	7,371.69	32.59	259.45	89.83	39.05	-1,907.64	785.26	504.83	280.43	2.800	
9,200.00	7,365.82	7,371.82	7,371.82	34.01	259.45	89.85	39.05	-1,907.64	694.67	412.86	281.81	2.465	
9,300.00	7,365.95	7,371.95	7,371.95	35.46	259.45	89.88	39.05	-1,907.64	607.04	323.32	283.72	2.140	
9,400.00	7,366.08	7,372.08	7,372.08	36.92	259.46	89.90	39.05	-1,907.64	523.85	237.50	286.36	1.829	
9,500.00	7,366.20	7,372.20	7,372.20	38.40	259.46	89.92	39.05	-1,907.64	447.61	157.66	289.94	1.544	
9,600.00	7,366.33	7,372.33	7,372.33	39.90	259.47	89.95	39.05	-1,907.64	382.47	87.95	294.52	1.299 Level 3	
9,700.00	7,366.46	7,372.46	7,372.46	41.41	259.47	89.97	39.05	-1,907.64	334.98	35.51	299.47	1.119 Level 2	
9,800.00	7,366.59	7,372.59	7,372.59	42.93	259.48	90.00	39.05	-1,907.64	313.27	10.31	302.96	1.034 Level 2	
9,820.36	7,366.61	7,372.61	7,372.61	43.24	259.48	90.00	39.05	-1,907.64	312.61	9.31	303.30	1.031 Level 2, CC, ES, SF	
9,900.00	7,366.72	7,372.72	7,372.72	44.47	259.48	90.02	39.05	-1,907.64	322.59	19.47	303.12	1.064 Level 2	
10,000.00	7,366.84	7,372.84	7,372.84	46.01	259.49	90.04	39.05	-1,907.64	360.55	60.17	300.38	1.200 Level 2	
10,100.00	7,366.97	7,372.97	7,372.97	47.56	259.49	90.07	39.05	-1,907.64	419.43	122.76	296.67	1.414 Level 3	
10,200.00	7,367.10	7,373.10	7,373.10	49.12	259.50	90.09	39.05	-1,907.64	491.78	198.52	293.26	1.677	
10,300.00	7,367.23	7,373.23	7,373.23	50.68	259.50	90.11	39.05	-1,907.64	572.52	282.01	290.51	1.971	
10,400.00	7,367.36	7,373.36	7,373.36	52.26	259.50	90.14	39.05	-1,907.64	658.56	370.19	288.37	2.284	
10,500.00	7,367.49	7,373.49	7,373.49	53.84	259.51	90.16	39.05	-1,907.64	748.09	461.36	286.73	2.609	
10,600.00	7,367.61	7,373.61	7,373.61	55.42	259.51	90.18	39.05	-1,907.64	839.98	554.51	285.47	2.942	
10,700.00	7,367.74	7,373.74	7,373.74	57.01	259.52	90.21	39.05	-1,907.64	933.54	649.06	284.48	3.282	
10,800.00	7,367.87	7,373.87	7,373.87	58.60	259.52	90.23	39.05	-1,907.64	1,028.31	744.60	283.71	3.625	
10,900.00	7,368.00	7,374.00	7,374.00	60.20	259.53	90.25	39.05	-1,907.64	1,123.99	840.89	283.09	3.970	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 29-6H6 - Noble SI Well - No Surv													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	7.00	-7.00	3.28	3.28	-172.14	-1,144.98	-157.98	1,155.83					
100.00	100.00	107.00	93.00	3.28	3.85	-172.14	-1,144.98	-157.98	1,155.83	1,147.90	7.93	145.822		
200.00	200.00	207.00	193.00	3.31	6.46	-172.14	-1,144.98	-157.98	1,155.83	1,145.27	10.55	109.508		
300.00	299.98	307.02	292.98	3.35	9.68	79.75	-1,144.98	-157.98	1,155.51	1,141.70	13.82	83.625		
400.00	399.84	407.16	392.84	3.41	13.07	80.02	-1,144.98	-157.98	1,154.59	1,137.32	17.27	66.843		
500.00	499.45	507.55	492.45	3.50	16.54	80.47	-1,144.98	-157.98	1,153.11	1,132.28	20.83	55.363		
600.00	598.73	608.27	591.73	3.62	20.05	81.08	-1,144.98	-157.98	1,151.18	1,126.72	24.46	47.071		
700.00	697.91	709.09	690.91	3.76	23.58	81.71	-1,144.98	-157.98	1,149.26	1,121.12	28.13	40.851		
800.00	797.10	809.90	790.10	3.93	27.12	82.33	-1,144.98	-157.98	1,147.47	1,115.63	31.84	36.034		
900.00	896.28	889.28	889.28	4.12	29.92	82.96	-1,144.98	-157.98	1,145.83	1,111.00	34.83	32.898		
1,000.00	995.47	988.47	988.47	4.33	33.41	83.58	-1,144.98	-157.98	1,144.32	1,105.79	38.53	29.697		
1,100.00	1,094.65	1,087.65	1,087.65	4.56	36.91	84.21	-1,144.98	-157.98	1,142.96	1,100.70	42.26	27.047		
1,200.00	1,193.84	1,186.84	1,186.84	4.80	40.41	84.85	-1,144.98	-157.98	1,141.73	1,095.73	46.00	24.821		
1,300.00	1,293.02	1,286.02	1,286.02	5.05	43.92	85.48	-1,144.98	-157.98	1,140.65	1,090.90	49.75	22.926		
1,400.00	1,392.21	1,385.21	1,385.21	5.31	47.42	86.11	-1,144.98	-157.98	1,139.71	1,086.19	53.52	21.295		
1,500.00	1,491.39	1,484.39	1,484.39	5.58	50.93	86.75	-1,144.98	-157.98	1,138.91	1,081.61	57.30	19.877		
1,600.00	1,590.58	1,583.58	1,583.58	5.86	54.44	87.38	-1,144.98	-157.98	1,138.25	1,077.17	61.08	18.635		
1,700.00	1,689.76	1,682.76	1,682.76	6.15	57.95	88.02	-1,144.98	-157.98	1,137.73	1,072.86	64.87	17.537		
1,800.00	1,788.95	1,781.95	1,781.95	6.43	61.45	88.65	-1,144.98	-157.98	1,137.36	1,068.69	68.67	16.562		
1,900.00	1,888.13	1,881.13	1,881.13	6.59	64.96	89.29	-1,144.98	-157.98	1,137.13	1,065.00	72.13	15.765		
2,000.00	1,987.32	1,980.32	1,980.32	6.62	68.47	89.93	-1,144.98	-157.98	1,137.04	1,061.37	75.67	15.026		
2,011.66	1,998.89	2,008.11	1,991.89	6.62	69.46	90.00	-1,144.98	-157.98	1,137.04	1,060.38	76.66	14.832		
2,100.00	2,086.50	2,079.50	2,079.50	6.66	71.98	90.56	-1,144.98	-157.98	1,137.10	1,057.87	79.23	14.352		
2,200.00	2,185.69	2,178.69	2,178.69	6.72	75.50	91.20	-1,144.98	-157.98	1,137.29	1,054.50	82.80	13.736		
2,300.00	2,284.87	2,277.87	2,277.87	6.79	79.01	91.84	-1,144.98	-157.98	1,137.63	1,051.25	86.38	13.170		
2,400.00	2,384.06	2,377.06	2,377.06	6.88	82.52	92.47	-1,144.98	-157.98	1,138.12	1,048.13	89.98	12.648		
2,500.00	2,483.24	2,476.24	2,476.24	6.98	86.03	93.11	-1,144.98	-157.98	1,138.74	1,045.15	93.59	12.167		
2,600.00	2,582.43	2,575.43	2,575.43	7.09	89.54	93.74	-1,144.98	-157.98	1,139.51	1,042.29	97.22	11.721		
2,700.00	2,681.61	2,674.61	2,674.61	7.22	93.05	94.37	-1,144.98	-157.98	1,140.42	1,039.56	100.85	11.308		
2,800.00	2,780.80	2,773.80	2,773.80	7.35	96.57	95.01	-1,144.98	-157.98	1,141.47	1,036.97	104.50	10.923		
2,900.00	2,879.98	2,872.98	2,872.98	7.50	100.08	95.64	-1,144.98	-157.98	1,142.66	1,034.50	108.16	10.564		
3,000.00	2,979.17	2,972.17	2,972.17	7.66	103.59	96.27	-1,144.98	-157.98	1,143.99	1,032.16	111.83	10.230		
3,100.00	3,078.35	3,071.35	3,071.35	7.82	107.10	96.90	-1,144.98	-157.98	1,145.46	1,029.96	115.51	9.917		
3,200.00	3,177.54	3,170.54	3,170.54	8.00	110.62	97.52	-1,144.98	-157.98	1,147.08	1,027.88	119.20	9.623		
3,300.00	3,276.72	3,269.72	3,269.72	8.18	114.13	98.15	-1,144.98	-157.98	1,148.83	1,025.93	122.89	9.348		
3,400.00	3,375.91	3,368.91	3,368.91	8.37	117.64	98.77	-1,144.98	-157.98	1,150.72	1,024.12	126.60	9.090		
3,500.00	3,475.09	3,468.09	3,468.09	8.57	121.16	99.39	-1,144.98	-157.98	1,152.74	1,022.44	130.31	8.846		
3,600.00	3,574.28	3,567.28	3,567.28	8.78	124.67	100.01	-1,144.98	-157.98	1,154.91	1,020.88	134.03	8.617		
3,700.00	3,673.46	3,666.46	3,666.46	8.99	128.18	100.63	-1,144.98	-157.98	1,157.21	1,019.46	137.75	8.401		
3,800.00	3,772.65	3,765.65	3,765.65	9.21	131.70	101.24	-1,144.98	-157.98	1,159.65	1,018.16	141.48	8.196		
3,900.00	3,871.83	3,864.83	3,864.83	9.43	135.21	101.85	-1,144.98	-157.98	1,162.22	1,017.00	145.22	8.003		
4,000.00	3,971.02	3,964.02	3,964.02	9.66	138.72	102.46	-1,144.98	-157.98	1,164.92	1,015.96	148.96	7.821		
4,100.00	4,070.20	4,063.20	4,063.20	9.89	142.24	103.07	-1,144.98	-157.98	1,167.76	1,015.05	152.70	7.647		
4,200.00	4,169.39	4,162.39	4,162.39	10.13	145.75	103.67	-1,144.98	-157.98	1,170.73	1,014.27	156.45	7.483		
4,300.00	4,268.57	4,261.57	4,261.57	10.37	149.26	104.27	-1,144.98	-157.98	1,173.83	1,013.62	160.21	7.327		
4,400.00	4,367.76	4,360.76	4,360.76	10.62	152.78	104.87	-1,144.98	-157.98	1,177.05	1,013.09	163.96	7.179		
4,500.00	4,466.94	4,459.94	4,459.94	10.87	156.29	105.46	-1,144.98	-157.98	1,180.41	1,012.69	167.72	7.038		
4,600.00	4,566.13	4,559.13	4,559.13	11.12	159.80	106.05	-1,144.98	-157.98	1,183.90	1,012.41	171.49	6.904		
4,700.00	4,665.31	4,658.31	4,658.31	11.38	163.32	106.64	-1,144.98	-157.98	1,187.51	1,012.26	175.26	6.776		
4,800.00	4,764.50	4,757.50	4,757.50	11.63	166.83	107.22	-1,144.98	-157.98	1,191.25	1,012.22	179.03	6.654		
4,900.00	4,863.68	4,856.68	4,856.68	11.90	170.34	107.80	-1,144.98	-157.98	1,195.11	1,012.31	182.80	6.538		
5,000.00	4,962.87	4,955.87	4,955.87	12.16	173.86	108.37	-1,144.98	-157.98	1,199.09	1,012.52	186.57	6.427		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 29-6H6 - Noble SI Well - No Surv												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	
7,200.00	7,118.44	7,111.44	7,111.44	17.39	250.23	-51.75	-1,144.98	-157.98	1,181.25	913.11	268.14	4.405	
7,300.00	7,192.18	7,185.18	7,185.18	17.41	252.84	-58.62	-1,144.98	-157.98	1,134.99	864.20	270.79	4.191	
7,400.00	7,254.49	7,247.49	7,247.49	17.45	255.05	-66.29	-1,144.98	-157.98	1,084.88	811.83	273.05	3.973	
7,500.00	7,303.82	7,303.18	7,296.82	17.54	257.02	-74.15	-1,144.98	-157.98	1,033.88	758.76	275.12	3.758	
7,600.00	7,338.98	7,331.98	7,331.98	17.72	258.04	-81.31	-1,144.98	-157.98	985.23	708.91	276.32	3.566	
7,700.00	7,359.09	7,352.09	7,352.09	18.02	258.75	-86.95	-1,144.98	-157.98	942.21	664.89	277.32	3.398	
7,800.00	7,364.03	7,357.03	7,357.03	18.43	258.93	-89.98	-1,144.98	-157.98	907.75	629.83	277.91	3.266	
7,900.00	7,364.15	7,357.15	7,357.15	19.00	258.93	-89.99	-1,144.98	-157.98	883.41	604.92	278.49	3.172	
8,000.00	7,364.28	7,357.28	7,357.28	19.70	258.94	-89.99	-1,144.98	-157.98	869.96	590.75	279.22	3.116	
8,067.92	7,364.37	7,357.37	7,357.37	20.25	258.94	-90.00	-1,144.98	-157.98	867.31	587.54	279.77	3.100 CC, ES	
8,100.00	7,364.41	7,357.41	7,357.41	20.52	258.94	-90.00	-1,144.98	-157.98	867.90	587.87	280.03	3.099 SF	
8,200.00	7,364.54	7,357.54	7,357.54	21.44	258.94	-90.01	-1,144.98	-157.98	877.31	596.45	280.86	3.124	
8,300.00	7,364.67	7,357.67	7,357.67	22.46	258.95	-90.02	-1,144.98	-157.98	897.82	616.18	281.64	3.188	
8,400.00	7,364.79	7,357.79	7,357.79	23.54	258.95	-90.03	-1,144.98	-157.98	928.71	646.36	282.35	3.289	
8,500.00	7,364.92	7,357.92	7,357.92	24.70	258.96	-90.04	-1,144.98	-157.98	968.98	686.04	282.93	3.425	
8,600.00	7,365.05	7,358.05	7,358.05	25.91	258.96	-90.05	-1,144.98	-157.98	1,017.51	734.10	283.41	3.590	
8,700.00	7,365.18	7,358.18	7,358.18	27.17	258.97	-90.05	-1,144.98	-157.98	1,073.20	789.42	283.78	3.782	
8,800.00	7,365.31	7,358.31	7,358.31	28.47	258.97	-90.06	-1,144.98	-157.98	1,134.97	850.92	284.05	3.996	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 J 29-19 - Noble SI Well - Actual										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_NS-GYRO-MS, 7350-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	13.73	13.73	3.28	3.28	-121.80	-609.09	-982.41	1,155.90				
100.00	100.00	105.74	105.73	3.28	3.28	-121.80	-609.29	-982.80	1,156.38	1,149.02	7.36	157.134	
200.00	200.00	205.65	205.64	3.31	3.32	-121.80	-609.76	-983.45	1,157.18	1,149.77	7.42	156.056	
300.00	299.98	304.14	304.13	3.35	3.38	130.02	-610.43	-984.07	1,159.19	1,151.68	7.52	154.162	
400.00	399.84	409.81	409.80	3.41	3.47	130.15	-611.18	-984.45	1,163.25	1,155.58	7.68	151.560	
500.00	499.45	506.35	506.34	3.50	3.58	130.34	-612.00	-984.65	1,169.51	1,161.64	7.87	148.569	
600.00	598.73	609.79	609.77	3.62	3.72	130.69	-612.83	-984.78	1,177.85	1,169.72	8.13	144.925	
700.00	697.91	706.26	706.23	3.76	3.87	131.11	-613.67	-984.82	1,186.71	1,178.30	8.41	141.041	
800.00	797.10	806.22	806.19	3.93	4.04	131.53	-614.69	-984.85	1,195.70	1,186.95	8.75	136.710	
7,800.00	7,364.03	7,433.31	7,432.12	18.43	19.40	-97.63	-661.41	-992.70	1,170.43	1,133.54	36.89	31.730	
7,900.00	7,364.15	7,429.17	7,427.98	19.00	19.37	-97.03	-661.48	-992.87	1,076.62	1,039.66	36.96	29.128	
8,000.00	7,364.28	7,425.02	7,423.84	19.70	19.34	-96.42	-661.54	-993.05	984.02	946.92	37.10	26.525	
8,100.00	7,364.41	7,420.88	7,419.70	20.52	19.32	-95.81	-661.60	-993.23	893.00	855.67	37.33	23.922	
8,200.00	7,364.54	7,416.74	7,415.56	21.44	19.29	-95.20	-661.66	-993.41	804.09	766.39	37.70	21.329	
8,300.00	7,364.67	7,412.59	7,411.42	22.46	19.26	-94.59	-661.73	-993.58	718.07	679.79	38.28	18.758	
8,400.00	7,364.79	7,408.45	7,407.27	23.54	19.23	-93.98	-661.79	-993.76	636.14	596.97	39.17	16.241	
8,500.00	7,364.92	7,404.30	7,403.13	24.70	19.21	-93.36	-661.85	-993.94	560.07	519.59	40.49	13.833	
8,600.00	7,365.05	7,400.16	7,398.99	25.91	19.18	-92.75	-661.92	-994.12	492.60	450.25	42.35	11.631	
8,700.00	7,365.18	7,396.01	7,394.85	27.17	19.15	-92.14	-661.98	-994.29	437.72	392.96	44.76	9.780	
8,800.00	7,365.31	7,391.87	7,390.71	28.47	19.13	-91.52	-662.04	-994.47	400.63	353.27	47.36	8.459	
8,900.00	7,365.43	7,387.72	7,386.57	29.81	19.10	-90.91	-662.10	-994.65	386.49	337.05	49.44	7.817	
8,905.74	7,365.44	7,387.48	7,386.33	29.89	19.10	-90.87	-662.11	-994.66	386.45	336.92	49.53	7.802 CC, ES, SF	
9,000.00	7,365.56	7,383.58	7,382.43	31.19	19.07	-90.29	-662.17	-994.82	397.76	347.45	50.31	7.906	
9,100.00	7,365.69	7,379.43	7,378.29	32.59	19.04	-89.68	-662.23	-995.00	432.45	382.50	49.96	8.656	
9,200.00	7,365.82	7,375.29	7,374.15	34.01	19.02	-89.07	-662.29	-995.18	485.58	436.68	48.90	9.931	
9,300.00	7,365.95	7,371.14	7,370.01	35.46	18.99	-88.45	-662.35	-995.36	551.83	504.20	47.63	11.585	
9,400.00	7,366.08	7,367.00	7,365.87	36.92	18.96	-87.84	-662.42	-995.53	627.07	580.63	46.44	13.502	
9,500.00	7,366.20	7,362.85	7,361.73	38.40	18.94	-87.23	-662.48	-995.71	708.44	663.03	45.41	15.601	
9,600.00	7,366.33	7,358.71	7,357.59	39.90	18.86	-86.62	-662.54	-995.89	794.05	749.55	44.50	17.842	
9,700.00	7,366.46	7,354.56	7,353.45	41.41	18.86	-86.01	-662.61	-996.07	882.67	838.86	43.82	20.144	
9,800.00	7,366.59	7,350.42	7,349.31	42.93	18.85	-85.40	-662.67	-996.24	973.49	930.23	43.26	22.503	
9,900.00	7,366.72	7,353.73	7,345.17	44.47	18.88	-84.79	-662.73	-996.42	1,065.93	1,023.10	42.83	24.888	
10,000.00	7,366.84	7,357.87	7,341.03	46.01	18.90	-84.19	-662.79	-996.60	1,159.61	1,117.12	42.49	27.293	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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) - UPRC 29-7C - Noble T/A 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	
4,200.00	4,169.39	4,161.39	4,161.39	10.13	145.71	49.65	-1,257.89	917.51	1,196.11	1,040.18	155.93	7.671	
4,300.00	4,268.57	4,260.57	4,260.57	10.37	149.23	50.11	-1,257.89	917.51	1,187.86	1,028.18	159.68	7.439	
4,400.00	4,367.76	4,359.76	4,359.76	10.62	152.74	50.59	-1,257.89	917.51	1,179.69	1,016.25	163.44	7.218	
4,500.00	4,466.94	4,458.94	4,458.94	10.87	156.25	51.07	-1,257.89	917.51	1,171.60	1,004.40	167.20	7.007	
4,600.00	4,566.13	4,558.13	4,558.13	11.12	159.77	51.55	-1,257.89	917.51	1,163.59	992.64	170.96	6.806	
4,700.00	4,665.31	4,657.31	4,657.31	11.38	163.28	52.04	-1,257.89	917.51	1,155.67	980.95	174.72	6.614	
4,800.00	4,764.50	4,756.50	4,756.50	11.63	166.79	52.54	-1,257.89	917.51	1,147.84	969.35	178.49	6.431	
4,900.00	4,863.68	4,855.68	4,855.68	11.90	170.31	53.05	-1,257.89	917.51	1,140.10	957.83	182.27	6.255	
5,000.00	4,962.87	4,954.87	4,954.87	12.16	173.82	53.56	-1,257.89	917.51	1,132.44	946.40	186.04	6.087	
5,100.00	5,062.05	5,054.05	5,054.05	12.43	177.34	54.08	-1,257.89	917.51	1,124.88	935.06	189.82	5.926	
5,200.00	5,161.24	5,153.24	5,153.24	12.70	180.85	54.61	-1,257.89	917.51	1,117.42	923.81	193.60	5.772	
5,300.00	5,260.42	5,252.42	5,252.42	12.97	184.36	55.14	-1,257.89	917.51	1,110.04	912.66	197.39	5.624	
5,400.00	5,359.61	5,351.61	5,351.61	13.24	187.88	55.68	-1,257.89	917.51	1,102.77	901.60	201.17	5.482	
5,500.00	5,458.79	5,450.79	5,450.79	13.52	191.39	56.23	-1,257.89	917.51	1,095.60	890.63	204.96	5.345	
5,600.00	5,557.98	5,549.98	5,549.98	13.79	194.90	56.78	-1,257.89	917.51	1,088.53	879.77	208.75	5.214	
5,700.00	5,657.16	5,649.16	5,649.16	14.07	198.42	57.34	-1,257.89	917.51	1,081.56	869.01	212.55	5.089	
5,800.00	5,756.35	5,748.35	5,748.35	14.35	201.93	57.91	-1,257.89	917.51	1,074.70	858.35	216.34	4.968	
5,900.00	5,855.53	5,847.53	5,847.53	14.63	205.45	58.49	-1,257.89	917.51	1,067.94	847.80	220.14	4.851	
6,000.00	5,954.72	5,946.72	5,946.72	14.91	208.96	59.07	-1,257.89	917.51	1,061.30	837.36	223.94	4.739	
6,100.00	6,053.90	6,045.90	6,045.90	15.20	212.47	59.66	-1,257.89	917.51	1,054.77	827.03	227.74	4.631	
6,200.00	6,153.09	6,145.09	6,145.09	15.48	215.99	60.26	-1,257.89	917.51	1,048.35	816.81	231.54	4.528	
6,300.00	6,252.27	6,244.27	6,244.27	15.77	219.50	60.86	-1,257.89	917.51	1,042.05	806.70	235.35	4.428	
6,400.00	6,351.46	6,343.46	6,343.46	16.06	223.02	61.47	-1,257.89	917.51	1,035.86	796.71	239.15	4.331	
6,500.00	6,450.64	6,442.64	6,442.64	16.34	226.53	62.09	-1,257.89	917.51	1,029.80	786.84	242.96	4.239	
6,600.00	6,549.83	6,541.83	6,541.83	16.63	230.04	62.72	-1,257.89	917.51	1,023.86	777.09	246.77	4.149	
6,700.00	6,649.01	6,641.01	6,641.01	16.92	233.56	63.35	-1,257.89	917.51	1,018.05	767.47	250.58	4.063	
6,800.00	6,748.73	6,740.73	6,740.73	17.13	237.09	-48.08	-1,257.89	917.51	1,013.43	759.11	254.32	3.985	
6,900.00	6,847.93	6,839.93	6,839.93	17.25	240.61	-87.56	-1,257.89	917.51	1,011.24	753.29	257.95	3.920	
6,927.20	6,874.50	6,866.50	6,866.50	17.27	241.55	-90.00	-1,257.89	917.51	1,011.12	752.23	258.90	3.905 CC	
7,000.00	6,944.17	6,936.17	6,936.17	17.33	244.02	-94.18	-1,257.89	917.51	1,012.05	750.66	261.39	3.872 ES	
7,100.00	7,035.09	7,027.09	7,027.09	17.37	247.24	-97.82	-1,257.89	917.51	1,017.00	752.41	264.59	3.844	
7,200.00	7,118.44	7,110.44	7,110.44	17.39	250.19	-100.44	-1,257.89	917.51	1,027.61	760.12	267.49	3.842 SF	
7,300.00	7,192.18	7,184.18	7,184.18	17.41	252.80	-102.18	-1,257.89	917.51	1,045.48	775.44	270.04	3.872	
7,400.00	7,254.49	7,246.49	7,246.49	17.45	255.01	-102.82	-1,257.89	917.51	1,071.99	799.76	272.23	3.938	
7,500.00	7,303.82	7,304.18	7,295.82	17.54	257.05	-102.06	-1,257.89	917.51	1,107.93	833.61	274.33	4.039	
7,600.00	7,338.98	7,330.98	7,330.98	17.72	258.00	-99.57	-1,257.89	917.51	1,153.32	877.91	275.41	4.188	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	97.77	-154.07	1,129.21	1,139.93					
100.00	100.00	76.00	76.00	3.28	3.55	97.77	-154.07	1,129.21	1,139.67	1,132.05	7.62	149.565		
200.00	200.00	176.00	176.00	3.31	5.54	97.77	-154.07	1,129.21	1,139.67	1,130.04	9.64	118.264		
300.00	299.98	275.98	275.98	3.35	8.65	-10.45	-154.07	1,129.21	1,137.96	1,125.17	12.79	88.962		
400.00	399.84	375.84	375.84	3.41	12.00	-10.52	-154.07	1,129.21	1,132.81	1,116.61	16.20	69.907		
500.00	499.45	475.45	475.45	3.50	15.43	-10.63	-154.07	1,129.21	1,124.24	1,104.53	19.72	57.015		
600.00	598.73	574.73	574.73	3.62	18.88	-10.77	-154.07	1,129.21	1,112.46	1,089.18	23.28	47.776		
700.00	697.91	673.91	673.91	3.76	22.35	-10.90	-154.07	1,129.21	1,099.95	1,073.07	26.88	40.922		
800.00	797.10	773.10	773.10	3.93	25.83	-11.03	-154.07	1,129.21	1,087.43	1,056.93	30.50	35.648		
900.00	896.28	872.28	872.28	4.12	29.32	-11.16	-154.07	1,129.21	1,074.93	1,040.77	34.16	31.472		
1,000.00	995.47	971.47	971.47	4.33	32.81	-11.29	-154.07	1,129.21	1,062.43	1,024.60	37.83	28.087		
1,100.00	1,094.65	1,070.65	1,070.65	4.56	36.31	-11.42	-154.07	1,129.21	1,049.93	1,008.42	41.51	25.291		
1,200.00	1,193.84	1,169.84	1,169.84	4.80	39.81	-11.56	-154.07	1,129.21	1,037.44	992.22	45.22	22.944		
1,300.00	1,293.02	1,269.02	1,269.02	5.05	43.32	-11.71	-154.07	1,129.21	1,024.96	976.03	48.93	20.947		
1,400.00	1,392.21	1,368.21	1,368.21	5.31	46.82	-11.85	-154.07	1,129.21	1,012.48	959.82	52.66	19.228		
1,500.00	1,491.39	1,467.39	1,467.39	5.58	50.33	-12.00	-154.07	1,129.21	1,000.01	943.62	56.39	17.733		
1,600.00	1,590.58	1,566.58	1,566.58	5.86	53.84	-12.16	-154.07	1,129.21	987.55	927.41	60.13	16.422		
1,700.00	1,689.76	1,665.76	1,665.76	6.15	57.34	-12.31	-154.07	1,129.21	975.09	911.21	63.88	15.263		
1,800.00	1,788.95	1,764.95	1,764.95	6.43	60.85	-12.48	-154.07	1,129.21	962.64	895.00	67.64	14.232		
1,900.00	1,888.13	1,864.13	1,864.13	6.59	64.36	-12.64	-154.07	1,129.21	950.20	879.13	71.07	13.369		
2,000.00	1,987.32	1,963.32	1,963.32	6.62	67.87	-12.81	-154.07	1,129.21	937.77	863.17	74.60	12.570		
2,100.00	2,086.50	2,062.50	2,062.50	6.66	71.38	-12.99	-154.07	1,129.21	925.34	847.20	78.14	11.842		
2,200.00	2,185.69	2,161.69	2,161.69	6.72	74.89	-13.17	-154.07	1,129.21	912.93	831.23	81.70	11.174		
2,300.00	2,284.87	2,260.87	2,260.87	6.79	78.41	-13.35	-154.07	1,129.21	900.52	815.25	85.27	10.561		
2,400.00	2,384.06	2,360.06	2,360.06	6.88	81.92	-13.54	-154.07	1,129.21	888.12	799.27	88.86	9.995		
2,500.00	2,483.24	2,459.24	2,459.24	6.98	85.43	-13.74	-154.07	1,129.21	875.73	783.28	92.45	9.472		
2,600.00	2,582.43	2,558.43	2,558.43	7.09	88.94	-13.94	-154.07	1,129.21	863.36	767.29	96.06	8.987		
2,700.00	2,681.61	2,657.61	2,657.61	7.22	92.45	-14.14	-154.07	1,129.21	850.99	751.30	99.69	8.537		
2,800.00	2,780.80	2,756.80	2,756.80	7.35	95.96	-14.35	-154.07	1,129.21	838.64	735.31	103.32	8.117		
2,900.00	2,879.98	2,855.98	2,855.98	7.50	99.48	-14.57	-154.07	1,129.21	826.29	719.32	106.97	7.725		
3,000.00	2,979.17	2,955.17	2,955.17	7.66	102.99	-14.80	-154.07	1,129.21	813.96	703.33	110.63	7.358		
3,100.00	3,078.35	3,054.35	3,054.35	7.82	106.50	-15.03	-154.07	1,129.21	801.64	687.35	114.29	7.014		
3,200.00	3,177.54	3,153.54	3,153.54	8.00	110.01	-15.27	-154.07	1,129.21	789.34	671.37	117.97	6.691		
3,300.00	3,276.72	3,252.72	3,252.72	8.18	113.53	-15.52	-154.07	1,129.21	777.05	655.39	121.65	6.387		
3,400.00	3,375.91	3,351.91	3,351.91	8.37	117.04	-15.77	-154.07	1,129.21	764.77	639.42	125.35	6.101		
3,500.00	3,475.09	3,451.09	3,451.09	8.57	120.55	-16.04	-154.07	1,129.21	752.51	623.46	129.05	5.831		
3,600.00	3,574.28	3,550.28	3,550.28	8.78	124.07	-16.31	-154.07	1,129.21	740.27	607.51	132.76	5.576		
3,700.00	3,673.46	3,649.46	3,649.46	8.99	127.58	-16.59	-154.07	1,129.21	728.04	591.57	136.47	5.335		
3,800.00	3,772.65	3,748.65	3,748.65	9.21	131.09	-16.88	-154.07	1,129.21	715.83	575.64	140.19	5.106		
3,900.00	3,871.83	3,847.83	3,847.83	9.43	134.61	-17.18	-154.07	1,129.21	703.64	559.72	143.92	4.889		
4,000.00	3,971.02	3,947.02	3,947.02	9.66	138.12	-17.50	-154.07	1,129.21	691.47	543.82	147.65	4.683		
4,100.00	4,070.20	4,046.20	4,046.20	9.89	141.63	-17.82	-154.07	1,129.21	679.32	527.93	151.39	4.487		
4,200.00	4,169.39	4,145.39	4,145.39	10.13	145.15	-18.15	-154.07	1,129.21	667.19	512.06	155.13	4.301		
4,300.00	4,268.57	4,244.57	4,244.57	10.37	148.66	-18.50	-154.07	1,129.21	655.08	496.21	158.88	4.123		
4,400.00	4,367.76	4,343.76	4,343.76	10.62	152.17	-18.86	-154.07	1,129.21	643.00	480.38	162.63	3.954		
4,500.00	4,466.94	4,442.94	4,442.94	10.87	155.69	-19.23	-154.07	1,129.21	630.95	464.57	166.38	3.792		
4,600.00	4,566.13	4,542.13	4,542.13	11.12	159.20	-19.62	-154.07	1,129.21	618.92	448.78	170.14	3.638		
4,700.00	4,665.31	4,641.31	4,641.31	11.38	162.71	-20.02	-154.07	1,129.21	606.93	433.02	173.90	3.490		
4,800.00	4,764.50	4,740.50	4,740.50	11.63	166.23	-20.44	-154.07	1,129.21	594.96	417.29	177.67	3.349		
4,900.00	4,863.68	4,839.68	4,839.68	11.90	169.74	-20.88	-154.07	1,129.21	583.03	401.58	181.44	3.213		
5,000.00	4,962.87	4,938.87	4,938.87	12.16	173.26	-21.34	-154.07	1,129.21	571.13	385.91	185.21	3.084		
5,100.00	5,062.05	5,038.05	5,038.05	12.43	176.77	-21.81	-154.07	1,129.21	559.27	370.28	188.99	2.959		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,137.24	5,137.24	12.70	180.28	-22.31	-154.07	1,129.21	547.44	354.67	192.77	2.840	
5,300.00	5,260.42	5,236.42	5,236.42	12.97	183.80	-22.82	-154.07	1,129.21	535.66	339.11	196.55	2.725	
5,400.00	5,359.61	5,335.61	5,335.61	13.24	187.31	-23.36	-154.07	1,129.21	523.93	323.59	200.34	2.615	
5,500.00	5,458.79	5,434.79	5,434.79	13.52	190.82	-23.93	-154.07	1,129.21	512.24	308.12	204.12	2.509	
5,600.00	5,557.98	5,533.98	5,533.98	13.79	194.34	-24.52	-154.07	1,129.21	500.61	292.69	207.91	2.408	
5,700.00	5,657.16	5,633.16	5,633.16	14.07	197.85	-25.14	-154.07	1,129.21	489.03	277.32	211.71	2.310	
5,800.00	5,756.35	5,732.35	5,732.35	14.35	201.37	-25.78	-154.07	1,129.21	477.50	262.00	215.50	2.216	
5,900.00	5,855.53	5,831.53	5,831.53	14.63	204.88	-26.46	-154.07	1,129.21	466.05	246.75	219.30	2.125	
6,000.00	5,954.72	5,930.72	5,930.72	14.91	208.39	-27.18	-154.07	1,129.21	454.66	231.56	223.10	2.038	
6,100.00	6,053.90	6,029.90	6,029.90	15.20	211.91	-27.93	-154.07	1,129.21	443.34	216.44	226.90	1.954	
6,200.00	6,153.09	6,129.09	6,129.09	15.48	215.42	-28.72	-154.07	1,129.21	432.10	201.39	230.71	1.873	
6,300.00	6,252.27	6,228.27	6,228.27	15.77	218.94	-29.55	-154.07	1,129.21	420.95	186.44	234.52	1.795	
6,400.00	6,351.46	6,327.46	6,327.46	16.06	222.45	-30.43	-154.07	1,129.21	409.90	171.57	238.33	1.720	
6,500.00	6,450.64	6,426.64	6,426.64	16.34	225.96	-31.35	-154.07	1,129.21	398.94	156.79	242.15	1.648	
6,600.00	6,549.83	6,525.83	6,525.83	16.63	229.48	-32.33	-154.07	1,129.21	388.09	142.13	245.96	1.578	
6,700.00	6,649.01	6,625.01	6,625.01	16.92	232.99	-33.36	-154.07	1,129.21	377.36	127.58	249.78	1.511	
6,771.50	6,720.26	6,703.74	6,696.26	17.07	235.78	-90.01	-154.07	1,129.21	373.55	120.82	252.73	1.478	Level 3, CC
6,800.00	6,748.73	6,724.73	6,724.73	17.13	236.52	-145.30	-154.07	1,129.21	374.02	120.48	253.53	1.475	Level 3, ES, SF
6,900.00	6,847.93	6,823.93	6,823.93	17.25	240.04	175.65	-154.07	1,129.21	385.77	128.58	257.19	1.500	Level 3
7,000.00	6,944.17	6,920.17	6,920.17	17.33	243.45	170.24	-154.07	1,129.21	412.31	151.62	260.69	1.582	
7,100.00	7,035.09	7,011.09	7,011.09	17.37	246.67	168.16	-154.07	1,129.21	453.08	189.13	263.95	1.717	
7,200.00	7,118.44	7,105.56	7,094.44	17.39	250.02	166.91	-154.07	1,129.21	507.22	239.92	267.31	1.898	
7,300.00	7,192.18	7,168.18	7,168.18	17.41	252.24	165.63	-154.07	1,129.21	573.56	304.05	269.52	2.128	
7,400.00	7,254.49	7,230.49	7,230.49	17.45	254.44	163.73	-154.07	1,129.21	650.55	378.85	271.70	2.394	
7,500.00	7,303.82	7,279.82	7,279.82	17.54	256.19	160.28	-154.07	1,129.21	736.36	462.94	273.42	2.693	
7,600.00	7,338.98	7,314.98	7,314.98	17.72	257.44	152.96	-154.07	1,129.21	828.87	554.24	274.63	3.018	
7,700.00	7,359.09	7,335.09	7,335.09	18.02	258.15	133.00	-154.07	1,129.21	925.82	650.51	275.31	3.363	
7,800.00	7,364.03	7,340.03	7,340.03	18.43	258.32	90.59	-154.07	1,129.21	1,024.79	749.33	275.46	3.720	
7,900.00	7,364.15	7,340.15	7,340.15	19.00	258.33	90.65	-154.07	1,129.21	1,124.09	848.65	275.45	4.081	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-82.81	18.94	-150.17	151.36					
100.00	100.00	101.00	101.00	3.28	3.28	-82.81	18.94	-150.17	151.36	143.83	7.53	20.104		
200.00	200.00	201.00	201.00	3.31	3.31	-82.81	18.94	-150.17	151.36	143.79	7.57	19.984	CC, ES	
300.00	299.98	300.04	300.03	3.35	3.34	168.81	18.22	-150.78	153.59	145.94	7.65	20.068		
400.00	399.84	400.13	399.85	3.41	3.40	168.81	17.35	-151.51	159.34	151.57	7.78	20.490		
500.00	499.45	500.56	499.42	3.50	3.48	169.03	16.48	-152.24	168.51	160.56	7.95	21.209		
600.00	598.73	601.34	598.63	3.62	3.58	169.42	15.62	-152.96	180.89	172.73	8.16	22.168		
700.00	697.91	702.22	697.75	3.76	3.70	169.82	14.76	-153.68	194.03	185.62	8.40	23.089		
800.00	797.10	803.09	796.87	3.93	3.84	170.18	13.90	-154.40	207.17	198.49	8.68	23.861		
900.00	896.28	903.97	895.99	4.12	3.99	170.49	13.04	-155.13	220.32	211.33	8.99	24.500		
1,000.00	995.47	1,004.84	995.11	4.33	4.15	170.77	12.17	-155.85	233.47	224.14	9.33	25.021		
1,100.00	1,094.65	1,105.72	1,094.22	4.56	4.33	171.02	11.31	-156.57	246.63	236.94	9.69	25.441		
1,200.00	1,193.84	1,206.59	1,193.34	4.80	4.51	171.24	10.45	-157.30	259.80	249.72	10.08	25.775		
1,300.00	1,293.02	1,307.47	1,292.46	5.05	4.71	171.45	9.59	-158.02	272.96	262.48	10.48	26.037		
1,400.00	1,392.21	1,408.34	1,391.58	5.31	4.91	171.63	8.73	-158.74	286.13	275.23	10.90	26.240		
1,500.00	1,491.39	1,509.22	1,490.70	5.58	5.12	171.80	7.87	-159.46	299.31	287.97	11.34	26.393		
1,600.00	1,590.58	1,589.91	1,589.82	5.86	5.29	171.95	7.01	-160.19	312.48	300.74	11.75	26.604		
1,700.00	1,689.76	1,689.03	1,688.94	6.15	5.51	172.09	6.14	-160.91	325.66	313.46	12.20	26.691		
1,800.00	1,788.95	1,788.16	1,788.05	6.43	5.73	172.22	5.28	-161.63	338.84	326.17	12.67	26.751		
1,900.00	1,888.13	1,887.28	1,887.17	6.59	5.96	172.34	4.42	-162.36	352.02	339.38	12.64	27.845		
2,000.00	1,987.32	1,986.41	1,986.29	6.62	6.19	172.45	3.56	-163.08	365.20	352.31	12.89	28.338		
2,100.00	2,086.50	2,085.53	2,085.41	6.66	6.42	172.56	2.70	-163.80	378.39	365.24	13.15	28.773		
2,200.00	2,185.69	2,184.66	2,184.53	6.72	6.66	172.65	1.84	-164.52	391.57	378.14	13.43	29.154		
2,300.00	2,284.87	2,283.78	2,283.65	6.79	6.90	172.74	0.98	-165.25	404.76	391.03	13.73	29.484		
2,400.00	2,384.06	2,382.91	2,382.77	6.88	7.14	172.83	0.11	-165.97	417.94	403.90	14.04	29.766		
2,500.00	2,483.24	2,482.03	2,481.88	6.98	7.38	172.91	-0.75	-166.69	431.13	416.76	14.37	30.005		
2,600.00	2,582.43	2,581.15	2,581.00	7.09	7.63	172.98	-1.61	-167.42	444.32	429.61	14.71	30.203		
2,700.00	2,681.61	2,680.28	2,680.12	7.22	7.88	173.05	-2.47	-168.14	457.51	442.44	15.07	30.364		
2,800.00	2,780.80	2,779.40	2,779.24	7.35	8.13	173.12	-3.33	-168.86	470.70	455.26	15.44	30.492		
2,900.00	2,879.98	2,878.53	2,878.36	7.50	8.38	173.18	-4.19	-169.58	483.89	468.07	15.82	30.591		
3,000.00	2,979.17	2,977.65	2,977.48	7.66	8.63	173.24	-5.05	-170.31	497.08	480.87	16.21	30.663		
3,100.00	3,078.35	3,076.78	3,076.60	7.82	8.89	173.30	-5.91	-171.03	510.27	493.65	16.61	30.711		
3,200.00	3,177.54	3,175.90	3,175.71	8.00	9.14	173.35	-6.78	-171.75	523.46	506.43	17.03	30.739		
3,300.00	3,276.72	3,275.03	3,274.83	8.18	9.40	173.40	-7.64	-172.48	536.65	519.20	17.45	30.750		
3,400.00	3,375.91	3,374.15	3,373.95	8.37	9.66	173.45	-8.50	-173.20	549.84	531.96	17.88	30.744		
3,500.00	3,475.09	3,473.28	3,473.07	8.57	9.91	173.50	-9.36	-173.92	563.04	544.71	18.32	30.725		
3,600.00	3,574.28	3,572.40	3,572.19	8.78	10.17	173.54	-10.22	-174.64	576.23	557.46	18.77	30.694		
3,700.00	3,673.46	3,671.53	3,671.31	8.99	10.43	173.58	-11.08	-175.37	589.42	570.19	19.23	30.654		
3,800.00	3,772.65	3,770.65	3,770.43	9.21	10.69	173.62	-11.94	-176.09	602.62	582.93	19.69	30.605		
3,900.00	3,871.83	3,869.78	3,869.54	9.43	10.95	173.66	-12.81	-176.81	615.81	595.65	20.16	30.549		
4,000.00	3,971.02	3,968.90	3,968.66	9.66	11.22	173.70	-13.67	-177.54	629.00	608.37	20.63	30.487		
4,100.00	4,070.20	4,068.03	4,067.78	9.89	11.48	173.73	-14.53	-178.26	642.20	621.09	21.11	30.420		
4,200.00	4,169.39	4,167.15	4,166.90	10.13	11.74	173.77	-15.39	-178.98	655.39	633.80	21.59	30.349		
4,300.00	4,268.57	4,266.28	4,266.02	10.37	12.00	173.80	-16.25	-179.70	668.59	646.50	22.08	30.275		
4,400.00	4,367.76	4,365.40	4,365.14	10.62	12.27	173.83	-17.11	-180.43	681.78	659.21	22.58	30.199		
4,500.00	4,466.94	4,464.53	4,464.26	10.87	12.53	173.86	-17.97	-181.15	694.98	671.91	23.07	30.120		
4,600.00	4,566.13	4,563.65	4,563.37	11.12	12.80	173.89	-18.84	-181.87	708.17	684.60	23.57	30.040		
4,700.00	4,665.31	4,662.78	4,662.49	11.38	13.06	173.92	-19.70	-182.60	721.37	697.29	24.08	29.959		
4,800.00	4,764.50	4,761.90	4,761.61	11.63	13.33	173.95	-20.56	-183.32	734.57	709.98	24.59	29.878		
4,900.00	4,863.68	4,861.03	4,860.73	11.90	13.59	173.97	-21.42	-184.04	747.76	722.67	25.10	29.796		
5,000.00	4,962.87	4,960.15	4,959.85	12.16	13.86	174.00	-22.28	-184.76	760.96	735.35	25.61	29.714		
5,100.00	5,062.05	5,059.28	5,058.97	12.43	14.13	174.02	-23.14	-185.49	774.15	748.03	26.13	29.632		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
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	5,161.24	5,158.40	5,158.09	12.70	14.39	174.05	-24.00	-186.21	787.35	760.71	26.64	29.550	
5,300.00	5,260.42	5,257.53	5,257.20	12.97	14.66	174.07	-24.87	-186.93	800.55	773.38	27.17	29.469	
5,400.00	5,359.61	5,356.65	5,356.32	13.24	14.93	174.09	-25.73	-187.65	813.74	786.06	27.69	29.389	
5,500.00	5,458.79	5,455.78	5,455.44	13.52	15.19	174.11	-26.59	-188.38	826.94	798.73	28.21	29.310	
5,600.00	5,557.98	5,554.90	5,554.56	13.79	15.46	174.13	-27.45	-189.10	840.14	811.40	28.74	29.231	
5,700.00	5,657.16	5,654.03	5,653.68	14.07	15.73	174.15	-28.31	-189.82	853.33	824.06	29.27	29.154	
5,800.00	5,756.35	5,753.15	5,752.80	14.35	16.00	174.17	-29.17	-190.55	866.53	836.73	29.80	29.077	
5,900.00	5,855.53	5,852.28	5,851.92	14.63	16.27	174.19	-30.03	-191.27	879.73	849.40	30.33	29.002	
6,000.00	5,954.72	5,951.40	5,951.03	14.91	16.53	174.21	-30.90	-191.99	892.93	862.06	30.87	28.928	
6,100.00	6,053.90	6,050.53	6,050.15	15.20	16.80	174.23	-31.76	-192.71	906.12	874.72	31.40	28.855	
6,200.00	6,153.09	6,149.65	6,149.27	15.48	17.07	174.24	-32.62	-193.44	919.32	887.38	31.94	28.783	
6,300.00	6,252.27	6,248.78	6,248.39	15.77	17.34	174.26	-33.48	-194.16	932.52	900.04	32.48	28.712	
6,400.00	6,351.46	6,347.90	6,347.51	16.06	17.61	174.28	-34.34	-194.88	945.72	912.70	33.02	28.643	
6,500.00	6,450.64	8,027.96	7,362.67	16.34	26.75	-132.63	-37.31	740.14	934.05	904.99	29.06	32.143	
6,600.00	6,549.83	8,039.93	7,362.66	16.63	26.80	-130.25	-37.24	752.11	838.59	808.97	29.62	28.309	
6,700.00	6,649.01	8,051.90	7,362.64	16.92	26.84	-127.79	-37.16	764.08	744.13	713.83	30.30	24.556	
6,800.00	6,748.73	8,056.32	7,362.64	17.13	26.86	144.94	-37.14	768.50	650.61	619.47	31.14	20.892	
6,900.00	6,847.93	8,045.08	7,362.65	17.25	26.82	123.09	-37.21	757.26	559.68	527.49	32.18	17.389	
7,000.00	6,944.17	8,018.45	7,362.68	17.33	26.71	126.25	-37.37	730.63	474.61	441.08	33.53	14.154	
7,100.00	7,035.09	7,977.09	7,362.73	17.37	26.57	126.84	-37.63	689.27	398.89	363.60	35.29	11.303	
7,200.00	7,118.44	7,922.01	7,362.79	17.39	26.41	124.23	-37.97	634.19	336.08	298.60	37.49	8.966	
7,300.00	7,192.18	7,854.57	7,362.86	17.41	26.26	118.79	-38.39	566.76	289.18	249.28	39.90	7.248	
7,400.00	7,254.49	7,776.44	7,362.95	17.45	25.92	111.19	-38.88	488.62	259.29	217.47	41.83	6.199	
7,500.00	7,303.82	7,685.91	7,361.69	17.54	24.72	102.14	-39.43	398.12	243.95	201.83	42.12	5.792	
7,600.00	7,338.98	7,593.49	7,349.09	17.72	23.23	92.05	-39.89	306.65	238.09	196.73	41.36	5.757 SF	
7,615.80	7,343.18	7,579.46	7,346.02	17.77	23.02	90.46	-39.95	292.96	237.98	196.76	41.21	5.774	
7,700.00	7,359.09	7,506.98	7,325.42	18.02	22.05	82.14	-40.20	223.51	240.94	200.64	40.31	5.978	
7,800.00	7,364.03	7,425.20	7,292.88	18.43	21.16	73.15	-40.38	148.55	251.29	212.00	39.29	6.395	
7,900.00	7,364.15	7,351.60	7,255.59	19.00	20.52	65.28	-40.45	85.14	271.69	233.22	38.47	7.063	
8,000.00	7,364.28	7,287.84	7,217.56	19.70	20.12	58.17	-40.44	34.00	305.07	267.15	37.92	8.045	
8,100.00	7,364.41	7,233.12	7,180.98	20.52	19.85	52.22	-40.38	-6.67	350.96	313.30	37.66	9.319	
8,200.00	7,364.54	7,186.29	7,147.00	21.44	19.67	47.44	-40.29	-38.88	407.48	369.85	37.63	10.829	
8,300.00	7,364.67	7,150.00	7,119.08	22.46	19.56	44.00	-40.19	-62.07	472.43	434.67	37.76	12.512	
8,400.00	7,364.79	7,111.69	7,088.24	23.54	19.47	40.64	-40.06	-84.78	543.81	505.94	37.87	14.360	
8,500.00	7,364.92	7,081.88	7,063.32	24.70	19.40	38.23	-39.95	-101.14	620.20	582.17	38.03	16.309	
8,600.00	7,365.05	7,050.00	7,035.87	25.91	19.33	35.84	-39.81	-117.33	700.49	662.33	38.16	18.357	
8,700.00	7,365.18	7,033.31	7,021.18	27.17	19.30	34.67	-39.73	-125.26	783.70	745.39	38.32	20.454	
8,800.00	7,365.31	7,013.37	7,003.37	28.47	19.26	33.33	-39.64	-134.21	869.37	830.93	38.44	22.618	
8,900.00	7,365.43	7,000.00	6,991.27	29.81	19.23	32.48	-39.57	-139.90	956.99	918.44	38.54	24.829	
9,000.00	7,365.56	6,980.03	6,972.98	31.19	19.19	31.26	-39.46	-147.92	1,046.13	1,007.50	38.63	27.077	
9,100.00	7,365.69	6,965.98	6,959.97	32.59	19.16	30.45	-39.38	-153.22	1,136.60	1,097.88	38.72	29.357	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-90.28	-0.72	-150.17	150.17					
100.00	100.00	101.00	101.00	3.28	3.28	-90.28	-0.72	-150.17	150.17	142.64	7.53	19.946		
200.00	200.00	201.00	201.00	3.31	3.31	-90.28	-0.72	-150.17	150.17	142.60	7.57	19.827	CC, ES	
300.00	299.98	300.29	299.70	3.35	3.34	161.52	-1.24	-150.88	152.54	144.89	7.65	19.928		
400.00	399.84	400.47	399.52	3.41	3.40	161.87	-1.84	-151.71	158.35	150.57	7.78	20.357		
500.00	499.45	500.91	499.07	3.50	3.48	162.54	-2.44	-152.54	167.47	159.52	7.95	21.070		
600.00	598.73	601.71	598.27	3.62	3.59	163.44	-3.05	-153.37	179.75	171.59	8.16	22.017		
700.00	697.91	702.61	697.36	3.76	3.70	164.33	-3.65	-154.19	192.81	184.40	8.41	22.927		
800.00	797.10	803.51	796.46	3.93	3.84	165.11	-4.25	-155.02	205.90	197.21	8.69	23.694		
900.00	896.28	904.41	895.56	4.12	3.99	165.80	-4.84	-155.84	219.02	210.02	9.00	24.330		
1,000.00	995.47	1,005.30	994.66	4.33	4.16	166.40	-5.44	-156.67	232.17	222.83	9.34	24.853		
1,100.00	1,094.65	1,106.20	1,093.75	4.56	4.33	166.95	-6.04	-157.49	245.35	235.64	9.71	25.277		
1,200.00	1,193.84	1,207.10	1,192.85	4.80	4.52	167.43	-6.64	-158.32	258.54	248.45	10.09	25.617		
1,300.00	1,293.02	1,307.99	1,291.95	5.05	4.71	167.87	-7.24	-159.14	271.75	261.26	10.50	25.887		
1,400.00	1,392.21	1,408.89	1,391.05	5.31	4.92	168.27	-7.84	-159.97	284.98	274.06	10.92	26.098		
1,500.00	1,491.39	1,509.79	1,490.14	5.58	5.13	168.64	-8.44	-160.80	298.22	286.86	11.36	26.260		
1,600.00	1,590.58	1,589.32	1,589.24	5.86	5.30	168.97	-9.04	-161.62	311.46	299.70	11.76	26.487		
1,700.00	1,689.76	1,688.42	1,688.34	6.15	5.51	169.27	-9.64	-162.45	324.72	312.51	12.21	26.584		
1,800.00	1,788.95	1,787.52	1,787.44	6.43	5.74	169.56	-10.24	-163.27	337.99	325.31	12.68	26.654		
1,900.00	1,888.13	1,886.62	1,886.54	6.59	5.86	169.82	-10.84	-164.10	351.26	338.70	12.56	27.972		
2,000.00	1,987.32	1,985.73	1,985.63	6.62	5.89	170.06	-11.44	-164.92	364.54	351.94	12.60	28.933		
2,100.00	2,086.50	2,084.83	2,084.73	6.66	5.91	170.28	-12.04	-165.75	377.83	365.18	12.65	29.862		
2,200.00	2,185.69	2,183.93	2,183.83	6.72	5.95	170.49	-12.64	-166.58	391.12	378.39	12.73	30.719		
2,300.00	2,284.87	2,283.04	2,282.93	6.79	6.00	170.69	-13.24	-167.40	404.42	391.58	12.84	31.502		
2,400.00	2,384.06	2,382.14	2,382.02	6.88	6.06	170.87	-13.84	-168.23	417.72	404.75	12.97	32.209		
2,500.00	2,483.24	2,481.24	2,481.12	6.98	6.13	171.04	-14.44	-169.05	431.02	417.90	13.12	32.841		
2,600.00	2,582.43	2,580.35	2,580.22	7.09	6.22	171.20	-15.04	-169.88	444.33	431.02	13.30	33.398		
2,700.00	2,681.61	2,679.45	2,679.32	7.22	6.31	171.36	-15.64	-170.70	457.64	444.13	13.51	33.884		
2,800.00	2,780.80	2,778.55	2,778.42	7.35	6.41	171.50	-16.24	-171.53	470.95	457.22	13.73	34.302		
2,900.00	2,879.98	2,877.65	2,877.51	7.50	6.53	171.63	-16.84	-172.35	484.27	470.30	13.97	34.655		
3,000.00	2,979.17	2,976.76	2,976.61	7.66	6.65	171.76	-17.44	-173.18	497.59	483.35	14.24	34.949		
3,100.00	3,078.35	3,075.86	3,075.71	7.82	6.78	171.88	-18.04	-174.01	510.91	496.39	14.52	35.188		
3,200.00	3,177.54	3,174.96	3,174.81	8.00	6.93	172.00	-18.64	-174.83	524.24	509.42	14.82	35.376		
3,300.00	3,276.72	3,274.07	3,273.90	8.18	7.07	172.11	-19.24	-175.66	537.56	522.43	15.13	35.519		
3,400.00	3,375.91	3,373.17	3,373.00	8.37	7.23	172.21	-19.84	-176.48	550.89	535.42	15.47	35.622		
3,500.00	3,475.09	3,472.27	3,472.10	8.57	7.39	172.31	-20.44	-177.31	564.22	548.41	15.81	35.688		
3,600.00	3,574.28	3,571.38	3,571.20	8.78	7.56	172.41	-21.04	-178.13	577.55	561.38	16.17	35.722		
3,700.00	3,673.46	3,670.48	3,670.30	8.99	7.74	172.50	-21.64	-178.96	590.88	574.34	16.54	35.728		
3,800.00	3,772.65	3,769.58	3,769.39	9.21	7.92	172.59	-22.24	-179.78	604.22	587.30	16.92	35.710		
3,900.00	3,871.83	3,868.68	3,868.49	9.43	8.10	172.67	-22.84	-180.61	617.55	600.24	17.31	35.671		
4,000.00	3,971.02	3,967.79	3,967.59	9.66	8.29	172.75	-23.44	-181.44	630.89	613.17	17.72	35.613		
4,100.00	4,070.20	4,066.89	4,066.69	9.89	8.49	172.82	-24.04	-182.26	644.23	626.10	18.13	35.540		
4,200.00	4,169.39	4,165.99	4,165.78	10.13	8.69	172.90	-24.64	-183.09	657.56	639.02	18.55	35.453		
4,300.00	4,268.57	4,265.10	4,264.88	10.37	8.89	172.97	-25.24	-183.91	670.90	651.93	18.98	35.356		
4,400.00	4,367.76	4,364.20	4,363.98	10.62	9.10	173.03	-25.84	-184.74	684.24	664.83	19.41	35.249		
4,500.00	4,466.94	4,463.30	4,463.08	10.87	9.31	173.10	-26.44	-185.56	697.59	677.73	19.85	35.134		
4,600.00	4,566.13	4,562.41	4,562.18	11.12	9.52	173.16	-27.04	-186.39	710.93	690.62	20.30	35.013		
4,700.00	4,665.31	4,661.51	4,661.27	11.38	9.74	173.22	-27.64	-187.22	724.27	703.51	20.76	34.888		
4,800.00	4,764.50	4,760.61	4,760.37	11.63	9.96	173.28	-28.24	-188.04	737.62	716.39	21.22	34.758		
4,900.00	4,863.68	4,859.71	4,859.47	11.90	10.18	173.33	-28.84	-188.87	750.96	729.27	21.69	34.625		
5,000.00	4,962.87	4,958.82	4,958.57	12.16	10.41	173.39	-29.44	-189.69	764.31	742.15	22.16	34.490		
5,100.00	5,062.05	5,057.92	5,057.66	12.43	10.63	173.44	-30.04	-190.52	777.65	755.02	22.64	34.354		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,157.02	5,156.76	12.70	10.86	173.49	-30.64	-191.34	791.00	767.88	23.12	34.217		
5,300.00	5,260.42	5,256.13	5,255.86	12.97	11.09	173.54	-31.24	-192.17	804.35	780.74	23.60	34.079		
5,400.00	5,359.61	5,355.23	5,354.96	13.24	11.33	173.59	-31.84	-192.99	817.69	793.60	24.09	33.942		
5,500.00	5,458.79	5,454.33	5,454.05	13.52	11.56	173.63	-32.44	-193.82	831.04	806.46	24.58	33.805		
5,600.00	5,557.98	5,553.44	5,553.15	13.79	11.80	173.68	-33.04	-194.65	844.39	819.31	25.08	33.669		
5,700.00	5,657.16	5,652.54	5,652.25	14.07	12.03	173.72	-33.64	-195.47	857.74	832.16	25.58	33.535		
5,800.00	5,756.35	5,751.64	5,751.35	14.35	12.27	173.76	-34.24	-196.30	871.09	845.01	26.08	33.401		
5,900.00	5,855.53	5,850.74	5,850.45	14.63	12.51	173.80	-34.84	-197.12	884.44	857.85	26.58	33.269		
6,000.00	5,954.72	5,949.85	5,949.54	14.91	12.76	173.84	-35.44	-197.95	897.79	870.70	27.09	33.138		
6,100.00	6,053.90	6,048.95	6,048.64	15.20	13.00	173.88	-36.04	-198.77	911.14	883.54	27.60	33.010		
6,200.00	6,153.09	7,675.69	7,038.85	15.48	20.47	-134.53	-58.24	707.67	901.57	874.09	27.49	32.799		
6,300.00	6,252.27	7,687.80	7,038.84	15.77	20.60	-131.84	-58.45	719.79	805.28	777.36	27.92	28.845		
6,400.00	6,351.46	7,700.08	7,038.84	16.06	20.74	-129.02	-58.67	731.90	709.80	681.39	28.41	24.984		
6,500.00	6,450.64	7,712.04	7,038.83	16.34	20.88	-126.08	-58.88	744.01	615.52	586.51	29.01	21.220		
6,600.00	6,549.83	7,724.15	7,038.82	16.63	21.02	-123.04	-59.09	756.13	523.08	493.31	29.77	17.570		
6,700.00	6,649.01	7,736.27	7,038.82	16.92	21.17	-119.91	-59.31	768.24	433.68	402.85	30.83	14.065		
6,800.00	6,748.73	7,740.84	7,038.81	17.13	21.22	143.97	-59.39	772.81	349.28	316.92	32.36	10.794		
6,900.00	6,847.93	7,729.75	7,038.82	17.25	21.09	112.14	-59.19	761.72	275.89	241.36	34.53	7.990		
7,000.00	6,944.17	7,703.26	7,038.83	17.33	20.78	105.44	-58.72	735.24	224.82	187.79	37.03	6.071		
7,091.76	7,027.85	7,665.97	7,038.86	17.37	20.36	95.82	-58.06	697.96	208.52	170.52	38.00	5.487 SF		
7,100.00	7,035.09	7,662.04	7,038.86	17.37	20.32	94.75	-57.99	694.03	208.65	170.68	37.97	5.495		
7,200.00	7,118.44	7,607.09	7,038.89	17.39	19.71	79.74	-57.02	639.09	227.53	191.14	36.39	6.252		
7,300.00	7,192.18	7,539.77	7,038.93	17.41	19.01	64.13	-55.83	571.77	266.04	231.80	34.24	7.770		
7,400.00	7,254.49	7,461.73	7,038.97	17.45	18.25	51.67	-54.45	493.75	308.98	276.35	32.64	9.467		
7,500.00	7,303.82	7,383.24	7,038.71	17.54	17.54	43.63	-53.05	415.27	347.77	316.06	31.70	10.970		
7,600.00	7,338.98	7,321.05	7,033.77	17.72	17.03	38.69	-51.93	353.31	382.99	351.63	31.36	12.213		
7,700.00	7,359.09	7,259.84	7,023.04	18.02	16.57	35.03	-50.79	293.09	414.73	383.42	31.30	13.249		
7,800.00	7,364.03	7,200.00	7,007.00	18.43	16.16	32.61	-49.67	235.47	442.39	410.93	31.45	14.066		
7,900.00	7,364.15	7,141.90	6,986.32	19.00	15.82	31.26	-48.58	181.21	474.15	442.42	31.73	14.944		
8,000.00	7,364.28	7,088.55	6,963.04	19.70	15.54	29.86	-47.59	133.23	513.58	481.49	32.08	16.008		
8,100.00	7,364.41	7,039.62	6,938.23	20.52	15.32	28.48	-46.69	91.08	560.09	527.61	32.47	17.248		
8,200.00	7,364.54	7,000.00	6,915.82	21.44	15.17	27.33	-45.97	58.43	613.04	580.14	32.90	18.635		
8,300.00	7,364.67	6,950.00	6,884.70	22.46	15.01	25.87	-45.08	19.31	671.63	638.40	33.23	20.209		
8,400.00	7,364.79	6,918.34	6,863.45	23.54	14.92	24.96	-44.54	-4.14	735.17	701.56	33.61	21.872		
8,500.00	7,364.92	6,885.52	6,840.22	24.70	14.85	24.02	-43.98	-27.31	803.05	769.12	33.93	23.665		
8,600.00	7,365.05	6,850.00	6,813.77	25.91	14.77	23.04	-43.40	-51.00	874.71	840.49	34.22	25.563		
8,700.00	7,365.18	6,829.21	6,797.68	27.17	14.73	22.48	-43.06	-64.17	949.47	914.99	34.48	27.540		
8,800.00	7,365.31	6,800.00	6,774.38	28.47	14.67	21.71	-42.61	-81.77	1,027.07	992.36	34.70	29.596		
8,900.00	7,365.43	6,783.18	6,760.60	29.81	14.63	21.28	-42.35	-91.41	1,106.97	1,072.08	34.90	31.723		
9,000.00	7,365.56	6,750.00	6,732.70	31.19	14.56	20.45	-41.86	-109.36	1,189.18	1,154.09	35.09	33.888		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
0.00	0.00	1.00	1.00	3.28	3.28	-75.47	38.98	-150.45	155.42				
100.00	100.00	101.00	101.00	3.28	3.28	-75.47	38.98	-150.45	155.42	147.89	7.53	20.643	
200.00	200.00	201.00	201.00	3.31	3.31	-75.47	38.98	-150.45	155.42	147.84	7.57	20.519	CC, ES
300.00	299.98	301.32	298.66	3.35	3.35	176.85	40.49	-150.97	158.07	150.40	7.66	20.631	
400.00	399.84	401.58	398.37	3.41	3.42	177.69	42.96	-151.82	164.77	156.98	7.79	21.144	
500.00	499.45	502.14	497.78	3.50	3.51	178.51	45.42	-152.67	174.99	167.02	7.97	21.956	
600.00	598.73	603.09	596.80	3.62	3.61	179.24	47.88	-153.51	188.50	180.31	8.19	23.011	
700.00	697.91	704.14	695.71	3.76	3.74	179.88	50.32	-154.36	202.80	194.36	8.44	24.028	
800.00	797.10	805.19	794.63	3.93	3.88	-179.56	52.77	-155.20	217.11	208.39	8.72	24.891	
900.00	896.28	906.24	893.54	4.12	4.04	-179.07	55.22	-156.04	231.45	222.41	9.04	25.615	
1,000.00	995.47	1,007.29	992.46	4.33	4.21	-178.64	57.67	-156.89	245.79	236.42	9.38	26.215	
1,100.00	1,094.65	1,108.34	1,091.37	4.56	4.39	-178.25	60.12	-157.73	260.15	250.41	9.74	26.708	
1,200.00	1,193.84	1,209.39	1,190.29	4.80	4.58	-177.91	62.57	-158.57	274.52	264.40	10.13	27.110	
1,300.00	1,293.02	1,289.56	1,289.20	5.05	4.73	-177.60	65.02	-159.41	288.90	278.41	10.49	27.542	
1,400.00	1,392.21	1,388.51	1,388.12	5.31	4.94	-177.32	67.47	-160.26	303.29	292.39	10.90	27.813	
1,500.00	1,491.39	1,487.46	1,487.03	5.58	5.14	-177.06	69.92	-161.10	317.68	306.35	11.33	28.029	
1,600.00	1,590.58	1,586.41	1,585.95	5.86	5.36	-176.83	72.37	-161.94	332.08	320.31	11.78	28.200	
1,700.00	1,689.76	1,685.36	1,684.87	6.15	5.58	-176.62	74.82	-162.79	346.48	334.26	12.23	28.333	
1,800.00	1,788.95	1,784.31	1,783.78	6.43	5.80	-176.42	77.26	-163.63	360.89	348.20	12.69	28.434	
1,900.00	1,888.13	1,883.26	1,882.70	6.59	5.93	-176.24	79.71	-164.47	375.30	362.73	12.57	29.851	
2,000.00	1,987.32	1,982.21	1,981.61	6.62	5.96	-176.07	82.16	-165.32	389.72	377.10	12.62	30.885	
2,100.00	2,086.50	2,081.16	2,080.53	6.66	5.99	-175.92	84.61	-166.16	404.14	391.47	12.67	31.894	
2,200.00	2,185.69	2,180.10	2,179.44	6.72	6.02	-175.77	87.06	-167.00	418.56	405.81	12.75	32.827	
2,300.00	2,284.87	2,279.05	2,278.36	6.79	6.07	-175.64	89.51	-167.85	432.98	420.13	12.85	33.682	
2,400.00	2,384.06	2,378.00	2,377.27	6.88	6.13	-175.51	91.96	-168.69	447.41	434.42	12.98	34.457	
2,500.00	2,483.24	2,476.95	2,476.19	6.98	6.20	-175.39	94.41	-169.53	461.83	448.70	13.14	35.152	
2,600.00	2,582.43	2,575.90	2,575.11	7.09	6.28	-175.28	96.86	-170.38	476.26	462.95	13.32	35.768	
2,700.00	2,681.61	2,674.85	2,674.02	7.22	6.37	-175.17	99.31	-171.22	490.69	477.18	13.51	36.308	
2,800.00	2,780.80	2,773.80	2,772.94	7.35	6.48	-175.07	101.76	-172.06	505.13	491.39	13.74	36.775	
2,900.00	2,879.98	2,872.75	2,871.85	7.50	6.59	-174.98	104.20	-172.91	519.56	505.58	13.98	37.173	
3,000.00	2,979.17	2,971.70	2,970.77	7.66	6.71	-174.89	106.65	-173.75	534.00	519.76	14.24	37.507	
3,100.00	3,078.35	3,070.65	3,069.68	7.82	6.84	-174.81	109.10	-174.59	548.43	533.92	14.52	37.782	
3,200.00	3,177.54	3,169.60	3,168.60	8.00	6.98	-174.73	111.55	-175.44	562.87	548.06	14.81	38.003	
3,300.00	3,276.72	3,268.55	3,267.51	8.18	7.13	-174.65	114.00	-176.28	577.31	562.19	15.12	38.175	
3,400.00	3,375.91	3,367.50	3,366.43	8.37	7.28	-174.58	116.45	-177.12	591.75	576.30	15.45	38.302	
3,500.00	3,475.09	3,466.45	3,465.34	8.57	7.44	-174.51	118.90	-177.97	606.19	590.40	15.79	38.391	
3,600.00	3,574.28	3,565.40	3,564.26	8.78	7.61	-174.45	121.35	-178.81	620.63	604.48	16.14	38.444	
3,700.00	3,673.46	3,664.35	3,663.18	8.99	7.78	-174.38	123.80	-179.65	635.07	618.56	16.51	38.466	
3,800.00	3,772.65	3,763.29	3,762.09	9.21	7.96	-174.32	126.25	-180.50	649.51	632.63	16.89	38.461	
3,900.00	3,871.83	3,862.24	3,861.01	9.43	8.14	-174.27	128.70	-181.34	663.96	646.68	17.28	38.433	
4,000.00	3,971.02	3,961.19	3,959.92	9.66	8.33	-174.21	131.14	-182.18	678.40	660.73	17.67	38.384	
4,100.00	4,070.20	4,060.14	4,058.84	9.89	8.53	-174.16	133.59	-183.03	692.84	674.76	18.08	38.318	
4,200.00	4,169.39	4,159.09	4,157.75	10.13	8.72	-174.11	136.04	-183.87	707.29	688.79	18.50	38.237	
4,300.00	4,268.57	4,258.04	4,256.67	10.37	8.93	-174.06	138.49	-184.71	721.73	702.81	18.92	38.144	
4,400.00	4,367.76	4,356.99	4,355.58	10.62	9.13	-174.02	140.94	-185.56	736.18	716.83	19.35	38.039	
4,500.00	4,466.94	4,455.94	4,454.50	10.87	9.34	-173.97	143.39	-186.40	750.63	730.83	19.79	37.926	
4,600.00	4,566.13	4,554.89	4,553.41	11.12	9.55	-173.93	145.84	-187.24	765.07	744.84	20.24	37.805	
4,700.00	4,665.31	4,653.84	4,652.33	11.38	9.77	-173.89	148.29	-188.09	779.52	758.83	20.69	37.679	
4,800.00	4,764.50	4,752.79	4,751.25	11.63	9.99	-173.85	150.74	-188.93	793.97	772.82	21.15	37.548	
4,900.00	4,863.68	4,851.74	4,850.16	11.90	10.21	-173.81	153.19	-189.77	808.42	786.81	21.61	37.413	
5,000.00	4,962.87	4,950.69	4,949.08	12.16	10.43	-173.77	155.64	-190.62	822.86	800.79	22.08	37.275	
5,100.00	5,062.05	5,049.64	5,047.99	12.43	10.66	-173.74	158.08	-191.46	837.31	814.77	22.55	37.135	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
5,200.00	5,161.24	5,148.59	5,146.91	12.70	10.88	-173.70	160.53	-192.30	851.76	828.74	23.02	36.994		
5,300.00	5,260.42	5,247.54	5,245.82	12.97	11.11	-173.67	162.98	-193.15	866.21	842.71	23.50	36.853		
5,400.00	5,359.61	5,346.48	5,344.74	13.24	11.35	-173.64	165.43	-193.99	880.66	856.67	23.99	36.711		
5,500.00	5,458.79	5,445.43	5,443.65	13.52	11.58	-173.61	167.88	-194.83	895.11	870.63	24.48	36.569		
5,600.00	5,557.98	5,544.38	5,542.57	13.79	11.81	-173.58	170.33	-195.68	909.56	884.59	24.97	36.428		
5,700.00	5,657.16	5,643.33	5,641.48	14.07	12.05	-173.55	172.78	-196.52	924.01	898.55	25.46	36.287		
5,800.00	5,756.35	5,742.28	5,740.40	14.35	12.29	-173.52	175.23	-197.36	938.46	912.50	25.96	36.148		
5,900.00	5,855.53	5,841.23	5,839.32	14.63	12.53	-173.49	177.68	-198.21	952.91	926.45	26.46	36.010		
6,000.00	5,954.72	5,940.18	5,938.23	14.91	12.77	-173.46	180.13	-199.05	967.36	940.40	26.97	35.874		
6,100.00	6,053.90	6,039.13	6,037.15	15.20	13.01	-173.44	182.58	-199.89	981.81	954.34	27.47	35.739		
6,200.00	6,153.09	6,138.08	6,136.06	15.48	13.26	-173.41	185.02	-200.74	996.26	968.28	27.98	35.606		
6,300.00	6,252.27	6,237.03	6,234.98	15.77	13.50	-173.39	187.47	-201.58	1,010.72	982.22	28.49	35.475		
6,400.00	6,351.46	7,839.11	7,173.46	16.06	21.37	-119.40	206.25	731.93	934.19	903.96	30.23	30.903		
6,500.00	6,450.64	7,851.06	7,173.43	16.34	21.50	-118.03	206.20	743.87	850.39	819.30	31.09	27.350		
6,600.00	6,549.83	7,863.00	7,173.41	16.63	21.63	-116.65	206.14	755.82	770.28	738.16	32.12	23.981		
6,700.00	6,649.01	7,874.94	7,173.39	16.92	21.77	-115.25	206.08	767.76	695.14	661.79	33.35	20.841		
6,800.00	6,748.73	7,879.33	7,173.38	17.13	21.82	142.37	206.06	772.15	626.43	591.72	34.71	18.046		
6,900.00	6,847.93	7,868.07	7,173.40	17.25	21.69	109.00	206.12	760.88	567.37	531.32	36.05	15.740		
7,000.00	6,944.17	7,841.41	7,173.45	17.33	21.39	105.32	206.24	734.23	521.90	484.73	37.16	14.043		
7,100.00	7,035.09	7,800.02	7,173.53	17.37	20.93	101.68	206.44	692.84	492.60	454.80	37.80	13.030		
7,200.00	7,118.44	7,744.92	7,173.63	17.39	20.36	96.41	206.70	637.74	479.56	441.71	37.85	12.670 SF		
7,244.55	7,152.59	7,716.30	7,173.68	17.40	20.06	93.60	206.84	609.12	478.34	440.67	37.68	12.696		
7,300.00	7,192.18	7,677.46	7,173.75	17.41	19.68	89.85	207.03	570.28	479.98	442.64	37.34	12.855		
7,400.00	7,254.49	7,600.70	7,173.89	17.45	18.95	82.94	207.40	492.12	489.11	452.57	36.54	13.386		
7,500.00	7,303.82	7,516.87	7,173.59	17.54	18.24	76.90	207.78	409.70	501.89	466.15	35.75	14.040		
7,600.00	7,338.98	7,443.33	7,166.72	17.72	17.66	72.00	207.96	336.52	516.42	481.22	35.19	14.674		
7,700.00	7,359.09	7,372.13	7,152.07	18.02	17.15	67.69	207.93	266.88	531.76	496.93	34.84	15.265		
7,800.00	7,364.03	7,300.00	7,129.41	18.43	16.68	64.15	207.69	198.45	546.98	512.34	34.64	15.791		
7,900.00	7,364.15	7,238.08	7,103.88	19.00	16.33	61.74	207.33	142.06	566.38	531.72	34.67	16.338		
8,000.00	7,364.28	7,179.42	7,074.76	19.70	16.04	59.10	206.85	91.16	592.81	558.02	34.79	17.041		
8,100.00	7,364.41	7,126.91	7,044.82	20.52	15.81	56.53	206.31	48.05	626.64	591.65	34.99	17.909		
8,200.00	7,364.54	7,080.24	7,015.30	21.44	15.63	54.13	205.75	11.92	667.85	632.62	35.24	18.954		
8,300.00	7,364.67	7,038.90	6,987.01	22.46	15.48	51.95	205.20	-18.21	716.09	680.59	35.49	20.176		
8,400.00	7,364.79	7,000.00	6,958.65	23.54	15.35	49.88	204.62	-44.82	770.74	735.01	35.73	21.570		
8,500.00	7,364.92	6,969.96	6,935.68	24.70	15.26	48.29	204.14	-64.16	831.09	795.12	35.96	23.108		
8,600.00	7,365.05	6,950.00	6,919.91	25.91	15.21	47.24	203.81	-76.40	896.51	860.34	36.17	24.785		
8,700.00	7,365.18	6,915.68	6,891.94	27.17	15.11	45.46	203.21	-96.28	966.04	929.71	36.33	26.591		
8,800.00	7,365.31	6,900.00	6,878.82	28.47	15.07	44.66	202.93	-104.85	1,039.39	1,002.92	36.47	28.499		
8,900.00	7,365.43	6,872.41	6,855.22	29.81	15.00	43.27	202.42	-119.14	1,115.76	1,079.16	36.59	30.492		
9,000.00	7,365.56	6,850.00	6,835.62	31.19	14.94	42.16	201.98	-129.98	1,194.87	1,158.18	36.70	32.562		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 (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	-97.89	-20.77	-149.89	151.32					
100.00	100.00	101.00	101.00	3.28	3.28	-97.89	-20.77	-149.89	151.32	143.80	7.53	20.099		
200.00	200.00	201.00	201.00	3.31	3.31	-97.89	-20.77	-149.89	151.32	143.75	7.57	19.979		
300.00	299.98	315.99	298.99	3.35	3.35	153.58	-22.43	-150.25	153.48	145.82	7.66	20.029		
400.00	399.84	401.18	398.73	3.41	3.40	153.09	-26.09	-151.02	159.47	151.69	7.78	20.507		
500.00	499.45	501.60	498.24	3.50	3.48	153.16	-29.75	-151.80	168.56	160.62	7.94	21.217		
600.00	598.73	602.35	597.42	3.62	3.58	153.70	-33.39	-152.57	180.59	172.43	8.16	22.128		
700.00	697.91	703.18	696.52	3.76	3.70	154.33	-37.03	-153.35	193.31	184.90	8.41	22.986		
800.00	797.10	804.01	795.62	3.93	3.84	154.88	-40.67	-154.12	206.05	197.35	8.70	23.695		
900.00	896.28	904.85	894.71	4.12	3.99	155.36	-44.31	-154.90	218.81	209.79	9.01	24.272		
1,000.00	995.47	1,005.68	993.81	4.33	4.16	155.80	-47.94	-155.67	231.58	222.21	9.36	24.733		
1,100.00	1,094.65	1,106.51	1,092.91	4.56	4.34	156.18	-51.58	-156.44	244.36	234.62	9.74	25.096		
1,200.00	1,193.84	1,207.35	1,192.01	4.80	4.53	156.53	-55.22	-157.22	257.15	247.02	10.13	25.376		
1,300.00	1,293.02	1,291.82	1,291.10	5.05	4.70	156.85	-58.86	-157.99	269.95	259.44	10.52	25.668		
1,400.00	1,392.21	1,409.01	1,390.20	5.31	4.94	157.14	-62.50	-158.76	282.76	271.78	10.98	25.743		
1,500.00	1,491.39	1,509.85	1,489.30	5.58	5.16	157.40	-66.14	-159.54	295.58	284.14	11.43	25.853		
1,600.00	1,590.58	1,589.32	1,588.39	5.86	5.33	157.64	-69.78	-160.31	308.40	296.55	11.85	26.031		
1,700.00	1,689.76	1,688.49	1,687.49	6.15	5.55	157.86	-73.42	-161.08	321.22	308.91	12.32	26.082		
1,800.00	1,788.95	1,787.65	1,786.59	6.43	5.78	158.06	-77.06	-161.86	334.05	321.26	12.79	26.108		
1,900.00	1,888.13	1,886.82	1,885.68	6.59	5.92	158.25	-80.70	-162.63	346.89	334.21	12.68	27.356		
2,000.00	1,987.32	1,985.99	1,984.78	6.62	5.95	158.43	-84.33	-163.40	359.72	347.00	12.73	28.268		
2,100.00	2,086.50	2,085.15	2,083.88	6.66	5.97	158.59	-87.97	-164.18	372.56	359.78	12.78	29.147		
2,200.00	2,185.69	2,184.32	2,182.98	6.72	6.01	158.75	-91.61	-164.95	385.41	372.54	12.87	29.955		
2,300.00	2,284.87	2,283.49	2,282.07	6.79	6.06	158.89	-95.25	-165.72	398.25	385.27	12.98	30.690		
2,400.00	2,384.06	2,382.66	2,381.17	6.88	6.13	159.02	-98.89	-166.50	411.10	397.99	13.11	31.350		
2,500.00	2,483.24	2,481.82	2,480.27	6.98	6.20	159.15	-102.53	-167.27	423.95	410.67	13.27	31.937		
2,600.00	2,582.43	2,580.99	2,579.36	7.09	6.29	159.27	-106.17	-168.05	436.80	423.34	13.46	32.451		
2,700.00	2,681.61	2,680.16	2,678.46	7.22	6.39	159.38	-109.81	-168.82	449.65	435.99	13.67	32.896		
2,800.00	2,780.80	2,779.32	2,777.56	7.35	6.50	159.49	-113.45	-169.59	462.51	448.61	13.90	33.275		
2,900.00	2,879.98	2,878.49	2,876.65	7.50	6.61	159.59	-117.09	-170.37	475.37	461.22	14.15	33.593		
3,000.00	2,979.17	2,977.66	2,975.75	7.66	6.74	159.68	-120.72	-171.14	488.22	473.80	14.42	33.853		
3,100.00	3,078.35	3,076.82	3,074.85	7.82	6.88	159.77	-124.36	-171.91	501.08	486.37	14.71	34.060		
3,200.00	3,177.54	3,175.99	3,173.95	8.00	7.02	159.85	-128.00	-172.69	513.94	498.92	15.02	34.220		
3,300.00	3,276.72	3,275.16	3,273.04	8.18	7.18	159.94	-131.64	-173.46	526.80	511.46	15.34	34.337		
3,400.00	3,375.91	3,374.32	3,372.14	8.37	7.34	160.01	-135.28	-174.23	539.67	523.99	15.68	34.415		
3,500.00	3,475.09	3,473.49	3,471.24	8.57	7.51	160.09	-138.92	-175.01	552.53	536.50	16.03	34.460		
3,600.00	3,574.28	3,572.66	3,570.33	8.78	7.68	160.16	-142.56	-175.78	565.39	548.99	16.40	34.474		
3,700.00	3,673.46	3,671.82	3,669.43	8.99	7.86	160.22	-146.20	-176.55	578.26	561.48	16.78	34.463		
3,800.00	3,772.65	3,770.99	3,768.53	9.21	8.05	160.29	-149.84	-177.33	591.12	573.95	17.17	34.428		
3,900.00	3,871.83	3,870.16	3,867.62	9.43	8.24	160.35	-153.48	-178.10	603.99	586.42	17.57	34.374		
4,000.00	3,971.02	3,969.32	3,966.72	9.66	8.44	160.41	-157.12	-178.87	616.86	598.88	17.98	34.304		
4,100.00	4,070.20	4,068.49	4,065.82	9.89	8.64	160.46	-160.75	-179.65	629.73	611.32	18.40	34.219		
4,200.00	4,169.39	4,167.66	4,164.91	10.13	8.84	160.52	-164.39	-180.42	642.59	623.76	18.83	34.122		
4,300.00	4,268.57	4,266.82	4,264.01	10.37	9.05	160.57	-168.03	-181.19	655.46	636.19	19.27	34.015		
4,400.00	4,367.76	4,365.99	4,363.11	10.62	9.26	160.62	-171.67	-181.97	668.33	648.62	19.71	33.900		
4,500.00	4,466.94	4,465.16	4,462.21	10.87	9.48	160.67	-175.31	-182.74	681.20	661.03	20.17	33.779		
4,600.00	4,566.13	4,564.32	4,561.30	11.12	9.70	160.72	-178.95	-183.52	694.07	673.45	20.63	33.652		
4,700.00	4,665.31	4,663.49	4,660.40	11.38	9.92	160.76	-182.59	-184.29	706.94	685.85	21.09	33.520		
4,800.00	4,764.50	4,762.66	4,759.50	11.63	10.15	160.80	-186.23	-185.06	719.81	698.25	21.56	33.386		
4,900.00	4,863.68	4,861.83	4,858.59	11.90	10.37	160.85	-189.87	-185.84	732.68	710.65	22.04	33.249		
5,000.00	4,962.87	4,960.99	4,957.69	12.16	10.61	160.89	-193.51	-186.61	745.56	723.04	22.52	33.111		
5,100.00	5,062.05	5,060.16	5,056.79	12.43	10.84	160.92	-197.14	-187.38	758.43	735.43	23.00	32.972		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 Design5N-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 (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	5,161.24	5,159.33	5,155.88	12.70	11.07	160.96	-200.78	-188.16	771.30	747.81	23.49	32.832		
5,300.00	5,260.42	5,258.49	5,254.98	12.97	11.31	161.00	-204.42	-188.93	784.17	760.19	23.99	32.693		
5,400.00	5,359.61	5,357.66	5,354.08	13.24	11.55	161.03	-208.06	-189.70	797.05	772.56	24.48	32.554		
5,500.00	5,458.79	5,456.83	5,453.18	13.52	11.79	161.07	-211.70	-190.48	809.92	784.93	24.99	32.415		
5,600.00	5,557.98	5,555.99	5,552.27	13.79	12.03	161.10	-215.34	-191.25	822.79	797.30	25.49	32.278		
5,700.00	5,657.16	5,655.16	5,651.37	14.07	12.27	161.13	-218.98	-192.02	835.67	809.67	26.00	32.143		
5,800.00	5,756.35	5,754.33	5,750.47	14.35	12.52	161.16	-222.62	-192.80	848.54	822.03	26.51	32.009		
5,900.00	5,855.53	5,853.49	5,849.56	14.63	12.77	161.19	-226.26	-193.57	861.42	834.39	27.02	31.876		
6,000.00	5,954.72	5,952.66	5,948.66	14.91	13.01	161.22	-229.90	-194.34	874.29	846.75	27.54	31.746		
6,100.00	6,053.90	6,051.83	6,047.76	15.20	13.26	161.25	-233.53	-195.12	887.16	859.11	28.06	31.617		
6,200.00	6,153.09	6,150.99	6,146.85	15.48	13.51	161.28	-237.17	-195.89	900.04	871.46	28.58	31.491		
6,300.00	6,252.27	6,250.16	6,245.95	15.77	13.77	161.30	-240.81	-196.67	912.91	883.81	29.11	31.366		
6,400.00	6,351.46	6,349.33	6,345.05	16.06	14.02	161.33	-244.45	-197.44	925.79	896.16	29.63	31.244		
6,500.00	6,450.64	8,034.93	7,361.83	16.34	21.50	157.45	-288.07	740.62	911.29	882.52	28.77	31.680		
6,600.00	6,549.83	8,047.01	7,361.83	16.63	21.63	156.89	-288.15	752.70	812.02	782.95	29.07	27.931		
6,700.00	6,649.01	8,059.08	7,361.82	16.92	21.77	156.17	-288.23	764.77	712.76	683.38	29.38	24.257		
6,800.00	6,748.73	8,063.61	7,361.82	17.13	21.82	-106.71	-288.26	769.30	612.97	583.31	29.67	20.661		
6,900.00	6,847.93	8,052.47	7,361.83	17.25	21.70	-163.11	-288.19	758.16	513.71	483.84	29.88	17.195		
7,000.00	6,944.17	8,025.95	7,361.84	17.33	21.40	-169.96	-288.01	731.64	417.41	387.42	30.00	13.915		
7,100.00	7,035.09	7,984.68	7,361.86	17.37	20.95	-172.32	-287.74	690.37	326.46	296.41	30.04	10.866		
7,200.00	7,118.44	7,929.69	7,361.89	17.39	20.37	-173.24	-287.38	635.38	243.09	213.06	30.03	8.095		
7,300.00	7,192.18	7,862.33	7,361.93	17.41	19.70	-173.33	-286.93	568.02	169.36	139.38	29.98	5.650		
7,400.00	7,254.49	7,784.26	7,361.97	17.45	18.97	-172.52	-286.41	489.95	107.11	77.20	29.91	3.581		
7,500.00	7,303.82	7,694.13	7,360.97	17.54	18.21	-169.54	-285.78	399.85	56.99	26.98	30.01	1.899		
7,600.00	7,338.98	7,601.09	7,348.93	17.72	17.52	-139.28	-284.72	307.68	11.49	-20.61	32.10	0.358 Level 1		
7,620.38	7,344.32	7,582.91	7,345.02	17.78	17.39	-87.22	-284.46	289.93	6.52	-29.07	35.59	0.183 Level 1, CC, ES, SF		
7,700.00	7,359.09	7,514.01	7,325.62	18.02	16.96	-8.68	-283.31	223.86	36.86	5.86	31.00	1.189 Level 2		
7,800.00	7,364.03	7,431.69	7,293.27	18.43	16.54	-2.58	-281.62	148.25	80.47	48.98	31.49	2.556		
7,900.00	7,364.15	7,357.59	7,256.02	19.00	16.29	-0.83	-279.82	84.26	130.91	98.80	32.11	4.077		
8,000.00	7,364.28	7,293.39	7,217.93	19.70	16.16	0.01	-278.08	32.64	190.45	157.77	32.68	5.827		
8,100.00	7,364.41	7,238.29	7,181.24	20.52	16.06	0.49	-276.46	-8.41	257.26	224.10	33.17	7.757		
8,200.00	7,364.54	7,191.16	7,147.13	21.44	15.97	0.78	-274.99	-40.89	329.82	296.26	33.56	9.828		
8,300.00	7,364.67	7,150.00	7,115.45	22.46	15.89	0.97	-273.65	-67.12	406.93	373.06	33.88	12.013		
8,400.00	7,364.79	7,116.11	7,088.14	23.54	15.82	1.10	-272.51	-87.15	487.66	453.52	34.13	14.287		
8,500.00	7,364.92	7,086.14	7,063.13	24.70	15.76	1.20	-271.48	-103.62	571.27	536.93	34.34	16.638		
8,600.00	7,365.05	7,050.00	7,031.99	25.91	15.68	1.30	-270.21	-121.90	657.37	622.86	34.51	19.048		
8,700.00	7,365.18	7,037.34	7,020.84	27.17	15.66	1.33	-269.76	-127.87	745.05	710.41	34.63	21.512		
8,800.00	7,365.31	7,017.33	7,002.97	28.47	15.62	1.37	-269.05	-136.87	834.43	799.69	34.75	24.015		
8,900.00	7,365.43	7,000.00	6,987.29	29.81	15.58	1.41	-268.42	-144.20	925.11	890.27	34.84	26.554		
9,000.00	7,365.56	6,983.86	6,972.50	31.19	15.55	1.44	-267.84	-150.64	1,016.86	981.94	34.92	29.120		
9,100.00	7,365.69	6,969.77	6,959.47	32.59	15.52	1.46	-267.32	-155.96	1,109.52	1,074.53	34.99	31.710		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-56.68	99.08	-150.73	180.38				
100.00	100.00	101.00	101.00	3.28	3.28	-56.68	99.08	-150.73	180.38	172.85	7.53	23.958	
200.00	200.00	201.00	201.00	3.31	3.31	-56.68	99.08	-150.73	180.38	172.80	7.57	23.815	CC, ES
300.00	299.98	297.09	297.07	3.35	3.35	-164.60	100.72	-150.88	183.14	175.48	7.66	23.911	
400.00	399.84	392.74	392.59	3.41	3.42	-163.83	105.54	-151.35	191.38	183.60	7.79	24.577	
500.00	499.45	509.00	490.59	3.50	3.52	-162.86	112.70	-152.04	204.45	196.47	7.98	25.617	
600.00	598.73	589.64	588.97	3.62	3.61	-162.26	119.96	-152.74	220.70	212.51	8.19	26.962	
700.00	697.91	688.18	687.23	3.76	3.73	-161.86	127.21	-153.44	237.68	229.25	8.43	28.184	
800.00	797.10	786.71	785.50	3.93	3.88	-161.51	134.47	-154.13	254.67	245.95	8.72	29.219	
900.00	896.28	885.25	883.76	4.12	4.03	-161.20	141.72	-154.83	271.67	262.64	9.03	30.085	
1,000.00	995.47	983.78	982.03	4.33	4.21	-160.93	148.97	-155.53	288.67	279.30	9.37	30.800	
1,100.00	1,094.65	1,082.32	1,080.29	4.56	4.39	-160.69	156.22	-156.23	305.68	295.94	9.74	31.385	
1,200.00	1,193.84	1,180.85	1,178.56	4.80	4.59	-160.47	163.47	-156.93	322.70	312.57	10.13	31.860	
1,300.00	1,293.02	1,279.39	1,276.82	5.05	4.79	-160.28	170.72	-157.62	339.72	329.18	10.54	32.241	
1,400.00	1,392.21	1,377.92	1,375.09	5.31	5.00	-160.11	177.98	-158.32	356.74	345.78	10.96	32.544	
1,500.00	1,491.39	1,476.46	1,473.35	5.58	5.22	-159.95	185.23	-159.02	373.77	362.37	11.40	32.782	
1,600.00	1,590.58	1,574.99	1,571.62	5.86	5.45	-159.80	192.48	-159.72	390.80	378.94	11.85	32.966	
1,700.00	1,689.76	1,673.53	1,669.88	6.15	5.68	-159.67	199.73	-160.42	407.83	395.51	12.32	33.107	
1,800.00	1,788.95	1,772.06	1,768.15	6.43	5.92	-159.55	206.98	-161.12	424.86	412.07	12.79	33.211	
1,900.00	1,888.13	1,870.60	1,866.41	6.59	6.16	-159.43	214.23	-161.81	441.89	429.11	12.78	34.578	
2,000.00	1,987.32	1,969.13	1,964.68	6.62	6.40	-159.33	221.48	-162.51	458.93	445.89	13.04	35.201	
2,100.00	2,086.50	2,067.67	2,062.94	6.66	6.65	-159.23	228.74	-163.21	475.96	462.65	13.31	35.754	
2,200.00	2,185.69	2,166.20	2,161.21	6.72	6.90	-159.14	235.99	-163.91	493.00	479.40	13.60	36.241	
2,300.00	2,284.87	2,264.74	2,259.47	6.79	7.15	-159.06	243.24	-164.61	510.04	496.13	13.91	36.664	
2,400.00	2,384.06	2,363.27	2,357.74	6.88	7.41	-158.98	250.49	-165.31	527.08	512.85	14.23	37.029	
2,500.00	2,483.24	2,461.81	2,456.00	6.98	7.67	-158.90	257.74	-166.00	544.12	529.55	14.57	37.340	
2,600.00	2,582.43	2,560.34	2,554.27	7.09	7.93	-158.83	264.99	-166.70	561.17	546.24	14.92	37.602	
2,700.00	2,681.61	2,658.88	2,652.54	7.22	8.19	-158.77	272.25	-167.40	578.21	562.92	15.29	37.818	
2,800.00	2,780.80	2,757.41	2,750.80	7.35	8.45	-158.71	279.50	-168.10	595.25	579.59	15.67	37.994	
2,900.00	2,879.98	2,855.95	2,849.07	7.50	8.72	-158.65	286.75	-168.80	612.30	596.24	16.06	38.134	
3,000.00	2,979.17	2,954.48	2,947.33	7.66	8.99	-158.59	294.00	-169.49	629.34	612.88	16.46	38.240	
3,100.00	3,078.35	3,053.02	3,045.60	7.82	9.25	-158.54	301.25	-170.19	646.39	629.52	16.87	38.318	
3,200.00	3,177.54	3,151.55	3,143.86	8.00	9.52	-158.49	308.50	-170.89	663.43	646.14	17.29	38.370	
3,300.00	3,276.72	3,250.09	3,242.13	8.18	9.79	-158.44	315.76	-171.59	680.48	662.76	17.72	38.400	
3,400.00	3,375.91	3,348.62	3,340.39	8.37	10.06	-158.40	323.01	-172.29	697.53	679.37	18.16	38.410	
3,500.00	3,475.09	3,447.16	3,438.66	8.57	10.33	-158.36	330.26	-172.99	714.57	695.97	18.61	38.403	
3,600.00	3,574.28	3,545.69	3,536.92	8.78	10.61	-158.32	337.51	-173.68	731.62	712.56	19.06	38.381	
3,700.00	3,673.46	3,644.23	3,635.19	8.99	10.88	-158.28	344.76	-174.38	748.67	729.14	19.52	38.347	
3,800.00	3,772.65	3,742.76	3,733.45	9.21	11.15	-158.24	352.01	-175.08	765.72	745.72	19.99	38.302	
3,900.00	3,871.83	3,841.30	3,831.72	9.43	11.43	-158.20	359.27	-175.78	782.76	762.30	20.47	38.247	
4,000.00	3,971.02	3,939.83	3,929.98	9.66	11.70	-158.17	366.52	-176.48	799.81	778.87	20.95	38.185	
4,100.00	4,070.20	4,038.37	4,028.25	9.89	11.98	-158.14	373.77	-177.17	816.86	795.43	21.43	38.116	
4,200.00	4,169.39	4,136.90	4,126.51	10.13	12.26	-158.11	381.02	-177.87	833.91	811.99	21.92	38.042	
4,300.00	4,268.57	4,235.44	4,224.78	10.37	12.53	-158.08	388.27	-178.57	850.96	828.55	22.42	37.964	
4,400.00	4,367.76	4,333.97	4,323.04	10.62	12.81	-158.05	395.52	-179.27	868.01	845.10	22.91	37.881	
4,500.00	4,466.94	4,432.51	4,421.31	10.87	13.09	-158.02	402.77	-179.97	885.06	861.64	23.42	37.796	
4,600.00	4,566.13	4,531.04	4,519.57	11.12	13.36	-157.99	410.03	-180.67	902.11	878.19	23.92	37.709	
4,700.00	4,665.31	4,629.58	4,617.84	11.38	13.64	-157.97	417.28	-181.36	919.16	894.73	24.43	37.620	
4,800.00	4,764.50	4,728.11	4,716.11	11.63	13.92	-157.94	424.53	-182.06	936.21	911.27	24.95	37.530	
4,900.00	4,863.68	4,826.65	4,814.37	11.90	14.20	-157.92	431.78	-182.76	953.26	927.80	25.46	37.439	
5,000.00	4,962.87	4,925.18	4,912.64	12.16	14.48	-157.90	439.03	-183.46	970.31	944.33	25.98	37.347	
5,100.00	5,062.05	5,023.72	5,010.90	12.43	14.76	-157.87	446.28	-184.16	987.36	960.86	26.50	37.255	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,122.25	5,109.17	12.70	15.04	-157.85	453.54	-184.85	1,004.41	977.39	27.03	37.164		
5,300.00	5,260.42	5,220.79	5,207.43	12.97	15.32	-157.83	460.79	-185.55	1,021.47	993.91	27.55	37.072		
5,400.00	5,359.61	5,319.32	5,305.70	13.24	15.60	-157.81	468.04	-186.25	1,038.52	1,010.43	28.08	36.982		
5,500.00	5,458.79	5,417.86	5,403.96	13.52	15.88	-157.79	475.29	-186.95	1,055.57	1,026.96	28.61	36.892		
5,600.00	5,557.98	5,516.39	5,502.23	13.79	16.16	-157.77	482.54	-187.65	1,072.62	1,043.47	29.15	36.802		
5,700.00	5,657.16	5,614.93	5,600.49	14.07	16.44	-157.76	489.79	-188.35	1,089.67	1,059.99	29.68	36.714		
5,800.00	5,756.35	5,713.46	5,698.76	14.35	16.72	-157.74	497.05	-189.04	1,106.72	1,076.51	30.22	36.626		
5,900.00	5,855.53	5,812.00	5,797.02	14.63	17.01	-157.72	504.30	-189.74	1,123.77	1,093.02	30.75	36.540		
6,000.00	5,954.72	5,910.53	5,895.29	14.91	17.29	-157.70	511.55	-190.44	1,140.83	1,109.53	31.29	36.455		
6,100.00	6,053.90	6,009.07	5,993.55	15.20	17.57	-157.69	518.80	-191.14	1,157.88	1,126.04	31.84	36.371		
6,200.00	6,153.09	6,107.60	6,091.82	15.48	17.85	-157.67	526.05	-191.84	1,174.93	1,142.55	32.38	36.288		
6,300.00	6,252.27	6,206.13	6,190.08	15.77	18.13	-157.66	533.30	-192.54	1,191.98	1,159.06	32.92	36.207		
6,600.00	6,549.83	6,059.21	7,360.48	16.63	28.01	-114.09	617.45	755.98	1,184.71	1,147.67	37.04	31.984		
6,700.00	6,649.01	8,071.16	7,360.46	16.92	28.05	-113.34	617.43	767.92	1,122.31	1,083.92	38.39	29.232		
6,800.00	6,748.73	8,075.56	7,360.45	17.13	28.07	141.83	617.41	772.33	1,065.25	1,025.51	39.74	26.804		
6,900.00	6,847.93	8,064.30	7,360.47	17.25	28.03	107.70	617.44	761.06	1,015.07	974.07	40.99	24.761		
7,000.00	6,944.17	8,037.64	7,360.51	17.33	27.94	104.93	617.51	734.41	973.62	931.54	42.08	23.138		
7,100.00	7,035.09	8,003.74	7,360.58	17.37	27.83	103.60	617.61	693.03	941.87	898.92	42.95	21.930		
7,200.00	7,118.44	7,941.16	7,360.67	17.39	27.67	101.75	617.74	637.93	919.73	876.18	43.55	21.119		
7,300.00	7,192.18	7,873.71	7,360.79	17.41	27.52	99.27	617.91	570.48	906.10	862.15	43.95	20.615		
7,400.00	7,254.49	7,804.44	7,360.92	17.45	27.40	96.45	618.10	492.33	899.15	854.91	44.24	20.323 SF		
7,500.00	7,303.82	7,700.16	7,359.52	17.54	25.67	93.40	618.22	396.97	896.51	853.20	43.31	20.699		
7,600.00	7,338.98	7,597.22	7,344.29	17.72	24.07	90.15	617.33	295.28	895.24	853.16	42.08	21.277		
7,685.04	7,357.06	7,516.37	7,320.98	17.97	23.01	87.60	615.79	217.93	894.90	853.55	41.35	21.642		
7,700.00	7,359.09	7,502.68	7,316.07	18.02	22.84	87.17	615.46	205.15	894.91	853.67	41.24	21.702		
7,800.00	7,364.03	7,414.81	7,278.18	18.43	21.94	84.43	612.84	125.99	895.48	854.71	40.77	21.966		
7,900.00	7,364.15	7,337.32	7,236.02	19.00	21.33	81.73	609.88	61.10	898.64	857.98	40.66	22.102		
8,000.00	7,364.28	7,271.66	7,194.37	19.70	20.97	79.08	606.93	10.47	906.48	865.65	40.83	22.200		
8,100.00	7,364.41	7,216.44	7,155.46	20.52	20.78	76.63	604.15	-28.60	920.31	879.12	41.19	22.345		
8,200.00	7,364.54	7,169.99	7,120.23	21.44	20.67	74.43	601.62	-58.75	940.93	899.29	41.65	22.594		
8,300.00	7,364.67	7,130.78	7,088.84	22.46	20.58	72.51	599.36	-82.13	968.72	926.57	42.15	22.982		
8,400.00	7,364.79	7,100.00	7,063.24	23.54	20.52	70.96	597.51	-99.10	1,003.68	961.02	42.66	23.528		
8,500.00	7,364.92	7,068.97	7,036.63	24.70	20.45	69.38	595.58	-114.93	1,045.49	1,002.37	43.12	24.249		
8,600.00	7,365.05	7,050.00	7,019.99	25.91	20.41	68.40	594.37	-123.97	1,093.71	1,050.15	43.56	25.106		
8,700.00	7,365.18	7,023.07	6,995.93	27.17	20.35	67.00	592.63	-135.93	1,147.67	1,103.76	43.91	26.139		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-62.33	79.05	-150.73	170.20				
100.00	100.00	101.00	101.00	3.28	3.28	-62.33	79.05	-150.73	170.20	162.67	7.53	22.606	
200.00	200.00	201.00	201.00	3.31	3.31	-62.33	79.05	-150.73	170.20	162.62	7.57	22.471	CC, ES
300.00	299.98	297.70	297.68	3.35	3.35	-170.15	80.70	-150.90	172.88	165.22	7.66	22.570	
400.00	399.84	393.95	393.80	3.41	3.42	-169.10	85.58	-151.41	180.91	173.12	7.79	23.228	
500.00	499.45	507.45	492.15	3.50	3.52	-167.80	92.64	-152.16	193.63	185.65	7.98	24.265	
600.00	598.73	591.21	590.55	3.62	3.61	-166.86	99.74	-152.90	209.63	201.44	8.19	25.603	
700.00	697.91	689.76	688.84	3.76	3.74	-166.13	106.83	-153.65	226.39	217.96	8.43	26.840	
800.00	797.10	788.30	787.13	3.93	3.88	-165.50	113.93	-154.39	243.19	234.47	8.72	27.897	
900.00	896.28	886.85	885.41	4.12	4.04	-164.96	121.02	-155.14	260.01	250.98	9.03	28.791	
1,000.00	995.47	985.40	983.70	4.33	4.21	-164.48	128.11	-155.88	276.85	267.48	9.37	29.538	
1,100.00	1,094.65	1,083.95	1,081.99	4.56	4.39	-164.06	135.20	-156.63	293.71	283.97	9.74	30.157	
1,200.00	1,193.84	1,182.49	1,180.28	4.80	4.59	-163.68	142.30	-157.37	310.58	300.45	10.13	30.667	
1,300.00	1,293.02	1,281.04	1,278.57	5.05	4.79	-163.34	149.39	-158.12	327.46	316.93	10.53	31.084	
1,400.00	1,392.21	1,379.59	1,376.86	5.31	5.00	-163.03	156.48	-158.87	344.35	333.40	10.96	31.423	
1,500.00	1,491.39	1,478.13	1,475.15	5.58	5.22	-162.76	163.57	-159.61	361.26	349.86	11.40	31.696	
1,600.00	1,590.58	1,576.68	1,573.43	5.86	5.45	-162.51	170.67	-160.36	378.17	366.32	11.85	31.915	
1,700.00	1,689.76	1,675.23	1,671.72	6.15	5.68	-162.27	177.76	-161.10	395.08	382.77	12.31	32.088	
1,800.00	1,788.95	1,773.77	1,770.01	6.43	5.91	-162.06	184.85	-161.85	412.00	399.22	12.79	32.224	
1,900.00	1,888.13	1,872.32	1,868.30	6.59	6.07	-161.87	191.94	-162.59	428.93	416.24	12.69	33.808	
2,000.00	1,987.32	1,970.87	1,965.59	6.62	6.12	-161.69	199.04	-163.34	445.86	433.11	12.75	34.968	
2,100.00	2,086.50	2,069.42	2,064.88	6.66	6.14	-161.52	206.13	-164.08	462.79	449.99	12.81	36.137	
2,200.00	2,185.69	2,167.96	2,163.17	6.72	6.18	-161.37	213.22	-164.83	479.73	466.84	12.89	37.220	
2,300.00	2,284.87	2,266.51	2,261.45	6.79	6.23	-161.22	220.31	-165.57	496.67	483.68	13.00	38.214	
2,400.00	2,384.06	2,365.06	2,359.74	6.88	6.30	-161.09	227.41	-166.32	513.62	500.49	13.13	39.117	
2,500.00	2,483.24	2,463.60	2,458.03	6.98	6.37	-160.96	234.50	-167.07	530.57	517.28	13.29	39.930	
2,600.00	2,582.43	2,562.15	2,556.32	7.09	6.46	-160.84	241.59	-167.81	547.52	534.05	13.47	40.653	
2,700.00	2,681.61	2,660.70	2,654.61	7.22	6.55	-160.73	248.68	-168.56	564.47	550.80	13.67	41.289	
2,800.00	2,780.80	2,759.24	2,752.90	7.35	6.66	-160.62	255.78	-169.30	581.42	567.53	13.90	41.843	
2,900.00	2,879.98	2,857.79	2,851.19	7.50	6.78	-160.52	262.87	-170.05	598.38	584.24	14.14	42.318	
3,000.00	2,979.17	2,956.34	2,949.47	7.66	6.90	-160.43	269.96	-170.79	615.33	600.93	14.40	42.721	
3,100.00	3,078.35	3,054.89	3,047.76	7.82	7.04	-160.34	277.05	-171.54	632.29	617.61	14.69	43.055	
3,200.00	3,177.54	3,153.43	3,146.05	8.00	7.18	-160.26	284.15	-172.28	649.25	634.27	14.98	43.328	
3,300.00	3,276.72	3,251.98	3,244.34	8.18	7.33	-160.18	291.24	-173.03	666.21	650.91	15.30	43.545	
3,400.00	3,375.91	3,350.53	3,342.63	8.37	7.49	-160.10	298.33	-173.77	683.17	667.54	15.63	43.710	
3,500.00	3,475.09	3,449.07	3,440.92	8.57	7.65	-160.03	305.43	-174.52	700.14	684.16	15.97	43.831	
3,600.00	3,574.28	3,547.62	3,539.21	8.78	7.82	-159.96	312.52	-175.26	717.10	700.77	16.33	43.910	
3,700.00	3,673.46	3,646.17	3,637.49	8.99	8.00	-159.90	319.61	-176.01	734.07	717.37	16.70	43.954	
3,800.00	3,772.65	3,744.71	3,735.78	9.21	8.18	-159.83	326.70	-176.76	751.03	733.95	17.08	43.967	
3,900.00	3,871.83	3,843.26	3,834.07	9.43	8.37	-159.77	333.80	-177.50	768.00	750.53	17.47	43.952	
4,000.00	3,971.02	3,941.81	3,932.36	9.66	8.56	-159.72	340.89	-178.25	784.97	767.09	17.88	43.914	
4,100.00	4,070.20	4,040.36	4,030.65	9.89	8.76	-159.66	347.98	-178.99	801.94	783.65	18.29	43.854	
4,200.00	4,169.39	4,138.90	4,128.94	10.13	8.96	-159.61	355.07	-179.74	818.91	800.20	18.71	43.778	
4,300.00	4,268.57	4,237.45	4,227.23	10.37	9.17	-159.56	362.17	-180.48	835.88	816.74	19.13	43.686	
4,400.00	4,367.76	4,336.00	4,325.51	10.62	9.38	-159.51	369.26	-181.23	852.85	833.28	19.57	43.581	
4,500.00	4,466.94	4,434.54	4,423.80	10.87	9.59	-159.47	376.35	-181.97	869.82	849.81	20.01	43.465	
4,600.00	4,566.13	4,533.09	4,522.09	11.12	9.81	-159.42	383.44	-182.72	886.79	866.33	20.46	43.341	
4,700.00	4,665.31	4,631.64	4,620.38	11.38	10.02	-159.38	390.54	-183.46	903.76	882.85	20.92	43.209	
4,800.00	4,764.50	4,730.18	4,718.67	11.63	10.25	-159.34	397.63	-184.21	920.74	899.36	21.38	43.071	
4,900.00	4,863.68	4,828.73	4,816.96	11.90	10.47	-159.30	404.72	-184.95	937.71	915.86	21.84	42.929	
5,000.00	4,962.87	4,927.28	4,915.25	12.16	10.70	-159.26	411.81	-185.70	954.68	932.37	22.31	42.782	
5,100.00	5,062.05	5,025.83	5,013.53	12.43	10.93	-159.22	418.91	-186.45	971.66	948.86	22.79	42.633	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,124.37	5,111.82	12.70	11.16	-159.18	426.00	-187.19	988.63	965.36	23.27	42.482		
5,300.00	5,260.42	5,222.92	5,210.11	12.97	11.39	-159.15	433.09	-187.94	1,005.60	981.85	23.76	42.330		
5,400.00	5,359.61	5,321.47	5,308.40	13.24	11.63	-159.12	440.18	-188.68	1,022.58	998.33	24.24	42.177		
5,500.00	5,458.79	5,420.01	5,406.69	13.52	11.87	-159.08	447.28	-189.43	1,039.55	1,014.82	24.74	42.024		
5,600.00	5,557.98	5,518.56	5,504.98	13.79	12.11	-159.05	454.37	-190.17	1,056.53	1,031.30	25.23	41.871		
5,700.00	5,657.16	5,617.11	5,603.27	14.07	12.35	-159.02	461.46	-190.92	1,073.51	1,047.77	25.73	41.719		
5,800.00	5,756.35	5,715.65	5,701.55	14.35	12.59	-158.99	468.55	-191.66	1,090.48	1,064.25	26.23	41.567		
5,900.00	5,855.53	5,814.20	5,799.84	14.63	12.83	-158.96	475.65	-192.41	1,107.46	1,080.72	26.74	41.417		
6,000.00	5,954.72	5,912.75	5,898.13	14.91	13.08	-158.94	482.74	-193.15	1,124.44	1,097.19	27.25	41.268		
6,100.00	6,053.90	6,011.29	5,996.42	15.20	13.33	-158.91	489.83	-193.90	1,141.41	1,113.66	27.76	41.121		
6,200.00	6,153.09	6,109.84	6,094.71	15.48	13.57	-158.88	496.92	-194.65	1,158.39	1,130.12	28.27	40.976		
6,300.00	6,252.27	7,700.87	7,038.61	15.77	21.35	-114.42	563.34	718.88	1,120.21	1,088.15	32.06	34.943		
6,400.00	6,351.46	7,711.10	7,038.59	16.06	21.46	-113.61	563.32	730.85	1,056.04	1,022.94	33.10	31.902		
6,500.00	6,450.64	7,723.07	7,038.57	16.34	21.60	-112.80	563.29	742.82	997.65	963.40	34.25	29.131		
6,600.00	6,549.83	7,735.04	7,038.55	16.63	21.73	-111.98	563.27	754.79	946.09	910.64	35.46	26.682		
6,700.00	6,649.01	7,747.01	7,038.54	16.92	21.87	-111.16	563.25	766.76	902.55	865.85	36.70	24.596		
6,800.00	6,748.73	7,751.43	7,038.53	17.13	21.92	141.14	563.24	771.18	868.07	830.31	37.75	22.993		
6,900.00	6,847.93	7,740.19	7,038.55	17.25	21.79	103.95	563.26	759.94	844.14	805.69	38.44	21.957		
7,000.00	6,944.17	7,713.56	7,038.59	17.33	21.49	98.08	563.31	733.31	831.65	792.94	38.70	21.488		
7,065.84	7,004.77	7,687.93	7,038.62	17.36	21.21	95.20	563.36	707.68	829.44	790.80	38.63	21.469 SF		
7,100.00	7,035.09	7,672.20	7,038.64	17.37	21.04	93.68	563.39	691.95	829.99	791.45	38.54	21.536		
7,200.00	7,118.44	7,617.12	7,038.72	17.39	20.46	88.87	563.50	636.87	837.18	799.16	38.02	22.019		
7,300.00	7,192.18	7,549.68	7,038.82	17.41	19.79	83.72	563.63	569.43	850.32	813.02	37.29	22.801		
7,400.00	7,254.49	7,471.54	7,038.93	17.45	19.06	78.73	563.78	491.29	866.14	829.65	36.49	23.738		
7,500.00	7,303.82	7,393.47	7,038.45	17.54	18.38	74.62	563.89	413.22	881.76	845.94	35.81	24.620		
7,600.00	7,338.98	7,327.24	7,032.28	17.72	17.86	71.40	563.57	347.32	896.64	861.25	35.40	25.330		
7,700.00	7,359.09	7,262.46	7,019.66	18.02	17.37	68.66	562.78	283.81	910.26	875.10	35.15	25.895		
7,800.00	7,364.03	7,200.00	7,001.47	18.43	16.95	66.61	561.57	224.10	922.03	886.95	35.08	26.286		
7,900.00	7,364.15	7,138.77	6,978.06	19.00	16.58	65.23	559.99	167.57	936.16	901.00	35.16	26.628		
8,000.00	7,364.28	7,083.60	6,952.41	19.70	16.28	63.75	558.23	118.77	955.11	919.72	35.38	26.993		
8,100.00	7,364.41	7,033.50	6,925.54	20.52	16.04	62.23	556.37	76.54	979.27	943.55	35.72	27.417		
8,200.00	7,364.54	6,988.34	6,898.56	21.44	15.84	60.74	554.49	40.39	1,008.91	972.79	36.12	27.931		
8,300.00	7,364.67	6,950.00	6,873.69	22.46	15.68	59.39	552.75	11.27	1,044.11	1,007.54	36.57	28.548		
8,400.00	7,364.79	6,911.53	6,847.03	23.54	15.54	57.99	550.87	-16.39	1,084.78	1,047.76	37.02	29.304		
8,500.00	7,364.92	6,879.05	6,823.25	24.70	15.44	56.77	549.20	-38.44	1,130.73	1,093.27	37.46	30.184		
8,600.00	7,365.05	6,850.00	6,801.06	25.91	15.35	55.65	547.63	-57.12	1,181.66	1,143.78	37.88	31.198		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-68.58	59.01	-150.45	161.61				
100.00	100.00	101.00	101.00	3.28	3.28	-68.58	59.01	-150.45	161.61	154.08	7.53	21.465	
200.00	200.00	201.00	201.00	3.31	3.31	-68.58	59.01	-150.45	161.61	154.03	7.57	21.337	CC, ES
300.00	299.98	298.07	298.05	3.35	3.35	-176.31	60.67	-150.73	164.24	156.59	7.66	21.442	
400.00	399.84	403.32	396.57	3.41	3.42	-175.17	64.96	-151.44	171.79	164.00	7.80	22.038	
500.00	499.45	504.00	495.78	3.50	3.51	-174.16	69.49	-152.20	182.98	175.01	7.97	22.947	
600.00	598.73	605.09	594.59	3.62	3.62	-173.37	74.00	-152.96	197.45	189.26	8.20	24.084	
700.00	697.91	706.28	693.29	3.76	3.75	-172.74	78.51	-153.71	212.70	204.25	8.45	25.177	
800.00	797.10	807.48	791.98	3.93	3.89	-172.19	83.01	-154.46	227.97	219.24	8.73	26.105	
900.00	896.28	908.67	890.68	4.12	4.05	-171.71	87.52	-155.22	243.26	234.21	9.05	26.884	
1,000.00	995.47	1,009.87	989.38	4.33	4.22	-171.29	92.02	-155.97	258.57	249.17	9.39	27.530	
1,100.00	1,094.65	1,088.94	1,088.08	4.56	4.37	-170.91	96.53	-156.73	273.88	264.16	9.72	28.181	
1,200.00	1,193.84	1,187.74	1,186.78	4.80	4.55	-170.58	101.03	-157.48	289.21	279.11	10.10	28.631	
1,300.00	1,293.02	1,286.55	1,285.48	5.05	4.75	-170.27	105.54	-158.23	304.54	294.04	10.50	28.998	
1,400.00	1,392.21	1,385.35	1,384.18	5.31	4.95	-170.00	110.04	-158.99	319.89	308.97	10.92	29.294	
1,500.00	1,491.39	1,484.16	1,482.88	5.58	5.16	-169.75	114.55	-159.74	335.24	323.88	11.35	29.531	
1,600.00	1,590.58	1,582.97	1,581.58	5.86	5.38	-169.53	119.06	-160.50	350.59	338.79	11.80	29.719	
1,700.00	1,689.76	1,681.77	1,680.28	6.15	5.60	-169.32	123.56	-161.25	365.95	353.70	12.25	29.867	
1,800.00	1,788.95	1,780.58	1,778.98	6.43	5.83	-169.13	128.07	-162.00	381.31	368.59	12.72	29.980	
1,900.00	1,888.13	1,879.38	1,877.68	6.59	6.06	-168.95	132.57	-162.76	396.68	383.98	12.70	31.242	
2,000.00	1,987.32	1,978.19	1,976.38	6.62	6.30	-168.79	137.08	-163.51	412.05	399.10	12.95	31.827	
2,100.00	2,086.50	2,076.99	2,075.08	6.66	6.53	-168.64	141.58	-164.27	427.42	414.21	13.21	32.348	
2,200.00	2,185.69	2,175.80	2,173.78	6.72	6.77	-168.50	146.09	-165.02	442.80	429.30	13.50	32.808	
2,300.00	2,284.87	2,274.60	2,272.48	6.79	7.02	-168.37	150.59	-165.77	458.18	444.38	13.80	33.210	
2,400.00	2,384.06	2,373.41	2,371.18	6.88	7.26	-168.25	155.10	-166.53	473.56	459.45	14.11	33.558	
2,500.00	2,483.24	2,472.21	2,469.88	6.98	7.51	-168.13	159.61	-167.28	488.94	474.50	14.44	33.856	
2,600.00	2,582.43	2,571.02	2,568.58	7.09	7.76	-168.02	164.11	-168.04	504.33	489.54	14.79	34.108	
2,700.00	2,681.61	2,669.82	2,667.27	7.22	8.01	-167.92	168.62	-168.79	519.72	504.57	15.14	34.319	
2,800.00	2,780.80	2,768.63	2,765.97	7.35	8.27	-167.83	173.12	-169.54	535.10	519.59	15.51	34.491	
2,900.00	2,879.98	2,867.43	2,864.67	7.50	8.52	-167.73	177.63	-170.30	550.49	534.60	15.90	34.629	
3,000.00	2,979.17	2,966.24	2,963.37	7.66	8.78	-167.65	182.13	-171.05	565.88	549.59	16.29	34.737	
3,100.00	3,078.35	3,065.04	3,062.07	7.82	9.04	-167.57	186.64	-171.81	581.28	564.58	16.69	34.818	
3,200.00	3,177.54	3,163.85	3,160.77	8.00	9.29	-167.49	191.15	-172.56	596.67	579.56	17.11	34.874	
3,300.00	3,276.72	3,262.65	3,259.47	8.18	9.55	-167.42	195.65	-173.31	612.06	594.53	17.53	34.910	
3,400.00	3,375.91	3,361.46	3,358.17	8.37	9.82	-167.35	200.16	-174.07	627.46	609.49	17.96	34.927	
3,500.00	3,475.09	3,460.26	3,456.87	8.57	10.08	-167.28	204.66	-174.82	642.85	624.45	18.41	34.928	
3,600.00	3,574.28	3,559.07	3,555.57	8.78	10.34	-167.22	209.17	-175.58	658.25	639.40	18.85	34.915	
3,700.00	3,673.46	3,657.87	3,654.27	8.99	10.60	-167.16	213.67	-176.33	673.65	654.34	19.31	34.890	
3,800.00	3,772.65	3,756.68	3,752.97	9.21	10.87	-167.10	218.18	-177.08	689.05	669.28	19.77	34.855	
3,900.00	3,871.83	3,855.48	3,851.67	9.43	11.13	-167.05	222.68	-177.84	704.44	684.21	20.24	34.810	
4,000.00	3,971.02	3,954.29	3,950.37	9.66	11.40	-167.00	227.19	-178.59	719.84	699.13	20.71	34.759	
4,100.00	4,070.20	4,053.09	4,049.07	9.89	11.66	-166.95	231.70	-179.35	735.24	714.06	21.19	34.701	
4,200.00	4,169.39	4,151.90	4,147.77	10.13	11.93	-166.90	236.20	-180.10	750.64	728.97	21.67	34.638	
4,300.00	4,268.57	4,250.70	4,246.47	10.37	12.19	-166.85	240.71	-180.85	766.04	743.89	22.16	34.570	
4,400.00	4,367.76	4,349.51	4,345.17	10.62	12.46	-166.81	245.21	-181.61	781.45	758.79	22.65	34.499	
4,500.00	4,466.94	4,448.31	4,443.86	10.87	12.73	-166.76	249.72	-182.36	796.85	773.70	23.15	34.425	
4,600.00	4,566.13	4,547.12	4,542.56	11.12	13.00	-166.72	254.22	-183.11	812.25	788.60	23.65	34.349	
4,700.00	4,665.31	4,645.92	4,641.26	11.38	13.26	-166.68	258.73	-183.87	827.65	803.50	24.15	34.271	
4,800.00	4,764.50	4,744.73	4,739.96	11.63	13.53	-166.65	263.23	-184.62	843.05	818.40	24.66	34.191	
4,900.00	4,863.68	4,843.53	4,838.66	11.90	13.80	-166.61	267.74	-185.38	858.46	833.29	25.17	34.111	
5,000.00	4,962.87	4,942.34	4,937.36	12.16	14.07	-166.57	272.25	-186.13	873.86	848.18	25.68	34.030	
5,100.00	5,062.05	5,041.14	5,036.06	12.43	14.34	-166.54	276.75	-186.88	889.27	863.07	26.19	33.949	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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						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	5,161.24	5,139.95	5,134.76	12.70	14.61	-166.51	281.26	-187.64	904.67	877.96	26.71	33.868		
5,300.00	5,260.42	5,238.75	5,233.46	12.97	14.88	-166.47	285.76	-188.39	920.07	892.84	27.23	33.787		
5,400.00	5,359.61	5,337.56	5,332.16	13.24	15.15	-166.44	290.27	-189.15	935.48	907.73	27.75	33.707		
5,500.00	5,458.79	5,436.36	5,430.86	13.52	15.42	-166.41	294.77	-189.90	950.88	922.61	28.28	33.627		
5,600.00	5,557.98	5,535.17	5,529.56	13.79	15.69	-166.38	299.28	-190.65	966.29	937.49	28.80	33.547		
5,700.00	5,657.16	5,633.97	5,628.26	14.07	15.96	-166.36	303.78	-191.41	981.69	952.36	29.33	33.469		
5,800.00	5,756.35	5,732.78	5,726.96	14.35	16.23	-166.33	308.29	-192.16	997.10	967.24	29.86	33.391		
5,900.00	5,855.53	5,831.58	5,825.66	14.63	16.50	-166.30	312.80	-192.92	1,012.51	982.11	30.39	33.314		
6,000.00	5,954.72	5,930.39	5,924.36	14.91	16.78	-166.28	317.30	-193.67	1,027.91	996.99	30.93	33.238		
6,100.00	6,053.90	6,029.20	6,023.06	15.20	17.05	-166.25	321.81	-194.42	1,043.32	1,011.86	31.46	33.163		
6,200.00	6,153.09	6,128.00	6,121.76	15.48	17.32	-166.23	326.31	-195.18	1,058.73	1,026.73	32.00	33.089		
6,300.00	6,252.27	6,226.81	6,220.45	15.77	17.59	-166.20	330.82	-195.93	1,074.13	1,041.60	32.53	33.017		
6,400.00	6,351.46	7,908.04	7,243.49	16.06	27.30	-117.26	375.82	731.03	1,082.83	1,049.79	33.04	32.773		
6,500.00	6,450.64	7,919.98	7,243.47	16.34	27.34	-116.24	375.80	742.97	1,005.21	970.93	34.28	29.321		
6,600.00	6,549.83	7,931.92	7,243.45	16.63	27.39	-115.21	375.78	754.91	931.72	896.02	35.70	26.101		
6,700.00	6,649.01	7,943.86	7,243.43	16.92	27.43	-114.18	375.75	766.84	863.40	826.12	37.29	23.156		
6,800.00	6,748.73	7,948.25	7,243.42	17.13	27.45	141.95	375.74	771.24	801.28	762.32	38.96	20.565		
6,900.00	6,847.93	7,936.98	7,243.44	17.25	27.41	108.06	375.77	759.96	747.63	707.03	40.60	18.414		
7,000.00	6,944.17	7,910.32	7,243.49	17.33	27.31	104.81	375.82	733.30	705.10	663.05	42.05	16.768		
7,100.00	7,035.09	7,868.92	7,243.56	17.37	27.18	102.40	375.90	691.91	675.16	631.98	43.18	15.636		
7,200.00	7,118.44	7,813.82	7,243.66	17.39	27.02	99.01	376.00	636.80	657.62	613.74	43.88	14.986		
7,300.00	7,192.18	7,746.35	7,243.77	17.41	26.88	94.70	376.13	569.34	650.65	606.43	44.22	14.714		
7,338.00	7,217.29	7,717.82	7,243.82	17.42	26.82	92.92	376.18	540.80	650.17	605.90	44.28	14.685 SF		
7,400.00	7,254.49	7,668.20	7,243.91	17.45	26.39	90.00	376.28	491.18	651.23	607.20	44.03	14.789		
7,500.00	7,303.82	7,582.90	7,243.20	17.54	25.26	85.61	376.40	405.90	655.91	612.85	43.06	15.233		
7,600.00	7,338.98	7,500.99	7,233.87	17.72	23.91	81.63	376.12	324.58	662.62	620.79	41.83	15.840		
7,700.00	7,359.09	7,422.80	7,215.30	18.02	22.80	78.00	375.41	248.69	670.62	629.72	40.90	16.396		
7,800.00	7,364.03	7,347.66	7,188.83	18.43	21.87	74.90	374.33	178.42	679.26	639.00	40.26	16.871		
7,900.00	7,364.15	7,278.57	7,157.34	19.00	21.18	72.31	373.01	116.96	691.45	651.51	39.94	17.311		
8,000.00	7,364.28	7,217.23	7,123.97	19.70	20.68	69.64	371.58	65.56	709.61	669.75	39.86	17.801		
8,100.00	7,364.41	7,163.38	7,090.70	20.52	20.32	67.05	370.13	23.25	734.61	694.66	39.96	18.385		
8,200.00	7,364.54	7,116.36	7,058.83	21.44	20.05	64.65	368.74	-11.28	766.88	726.72	40.16	19.096		
8,300.00	7,364.67	7,075.37	7,029.03	22.46	19.86	62.48	367.43	-39.39	806.43	766.01	40.42	19.952		
8,400.00	7,364.79	7,039.60	7,001.60	23.54	19.70	60.55	366.22	-62.30	852.92	812.23	40.69	20.960		
8,500.00	7,364.92	7,000.00	6,969.78	24.70	19.55	58.39	364.81	-85.83	905.88	864.97	40.91	22.142		
8,600.00	7,365.05	6,980.82	6,953.86	25.91	19.49	57.34	364.11	-96.50	964.40	923.20	41.21	23.404		
8,700.00	7,365.18	6,950.00	6,927.63	27.17	19.42	55.66	362.94	-112.63	1,028.09	986.69	41.39	24.837		
8,800.00	7,365.31	6,935.08	6,914.66	28.47	19.39	54.85	362.36	-119.97	1,096.05	1,054.45	41.60	26.345		
8,900.00	7,365.43	6,915.94	6,897.77	29.81	19.35	53.82	361.61	-128.95	1,167.83	1,126.07	41.76	27.965		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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, 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	-0.40	80.14	-0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.14	-0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.14	-0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	299.09	299.07	3.35	3.35	-108.59	80.71	1.06	81.26	73.60	7.66	10.611	
400.00	399.84	398.10	397.94	3.41	3.41	-108.56	82.41	5.90	84.61	76.83	7.78	10.870	
500.00	499.45	496.97	496.44	3.50	3.51	-108.52	85.24	13.95	90.19	82.23	7.96	11.331	
600.00	598.73	604.12	594.64	3.62	3.63	-108.45	89.16	25.12	97.90	89.69	8.20	11.932	
700.00	697.91	704.46	693.45	3.76	3.78	-108.35	93.44	37.31	106.16	97.67	8.49	12.497	
800.00	797.10	804.80	792.27	3.93	3.95	-108.27	97.72	49.50	114.43	105.60	8.83	12.957	
900.00	896.28	905.15	891.08	4.12	4.14	-108.19	102.00	61.70	122.70	113.49	9.21	13.324	
1,000.00	995.47	1,005.49	989.90	4.33	4.35	-108.12	106.28	73.89	130.97	121.35	9.62	13.612	
1,100.00	1,094.65	1,105.83	1,088.72	4.56	4.58	-108.07	110.57	86.08	139.24	129.17	10.06	13.835	
1,200.00	1,193.84	1,206.17	1,187.53	4.80	4.82	-108.01	114.85	98.27	147.51	136.97	10.53	14.003	
1,300.00	1,293.02	1,306.52	1,286.35	5.05	5.06	-107.97	119.13	110.46	155.77	144.75	11.03	14.128	
1,400.00	1,392.21	1,406.86	1,385.17	5.31	5.32	-107.93	123.41	122.65	164.04	152.51	11.54	14.218	
1,500.00	1,491.39	1,507.20	1,483.98	5.58	5.59	-107.89	127.69	134.85	172.31	160.25	12.07	14.281	
1,600.00	1,590.58	1,607.54	1,582.80	5.86	5.87	-107.85	131.97	147.04	180.58	167.97	12.61	14.322	
1,700.00	1,689.76	1,707.89	1,681.61	6.15	6.15	-107.82	136.25	159.23	188.85	175.69	13.16	14.346	
1,800.00	1,788.95	1,808.23	1,780.43	6.43	6.44	-107.79	140.54	171.42	197.12	183.39	13.73	14.356	
1,900.00	1,888.13	1,908.57	1,879.25	6.59	6.73	-107.77	144.82	183.61	205.39	191.60	13.79	14.892	
2,000.00	1,987.32	2,008.91	1,978.06	6.62	7.02	-107.74	149.10	195.81	213.66	199.54	14.11	15.138	
2,100.00	2,086.50	2,109.26	2,076.88	6.66	7.32	-107.72	153.38	208.00	221.93	207.47	14.45	15.354	
2,200.00	2,185.69	2,190.40	2,175.69	6.72	7.57	-107.70	157.66	220.19	230.20	215.44	14.75	15.602	
2,300.00	2,284.87	2,309.94	2,274.51	6.79	7.93	-107.68	161.94	232.38	238.46	223.28	15.19	15.703	
2,400.00	2,384.06	2,389.72	2,373.33	6.88	8.18	-107.66	166.22	244.57	246.73	231.22	15.51	15.905	
2,500.00	2,483.24	2,489.37	2,472.14	6.98	8.48	-107.65	170.51	256.76	255.00	239.09	15.92	16.022	
2,600.00	2,582.43	2,589.03	2,570.96	7.09	8.79	-107.63	174.79	268.96	263.27	246.94	16.33	16.119	
2,700.00	2,681.61	2,688.69	2,669.78	7.22	9.10	-107.62	179.07	281.15	271.54	254.78	16.76	16.198	
2,800.00	2,780.80	2,788.35	2,768.59	7.35	9.42	-107.60	183.35	293.34	279.81	262.60	17.21	16.261	
2,900.00	2,879.98	2,888.00	2,867.41	7.50	9.73	-107.59	187.63	305.53	288.08	270.42	17.66	16.310	
3,000.00	2,979.17	2,987.66	2,966.22	7.66	10.05	-107.58	191.91	317.72	296.35	278.22	18.13	16.346	
3,100.00	3,078.35	3,087.32	3,065.04	7.82	10.37	-107.56	196.19	329.91	304.62	286.01	18.61	16.371	
3,200.00	3,177.54	3,186.98	3,163.86	8.00	10.68	-107.55	200.48	342.11	312.89	293.79	19.09	16.386	
3,300.00	3,276.72	3,286.63	3,262.67	8.18	11.00	-107.54	204.76	354.30	321.16	301.57	19.59	16.393	
3,400.00	3,375.91	3,386.29	3,361.49	8.37	11.32	-107.53	209.04	366.49	329.43	309.33	20.10	16.392	
3,500.00	3,475.09	3,485.95	3,460.31	8.57	11.65	-107.52	213.32	378.68	337.70	317.09	20.61	16.385	
3,600.00	3,574.28	3,585.61	3,559.12	8.78	11.97	-107.51	217.60	390.87	345.97	324.83	21.13	16.372	
3,700.00	3,673.46	3,685.26	3,657.94	8.99	12.29	-107.51	221.88	403.07	354.24	332.58	21.66	16.354	
3,800.00	3,772.65	3,784.92	3,756.75	9.21	12.61	-107.50	226.16	415.26	362.51	340.31	22.19	16.333	
3,900.00	3,871.83	3,884.58	3,855.57	9.43	12.94	-107.49	230.45	427.45	370.78	348.04	22.74	16.309	
4,000.00	3,971.02	3,984.24	3,954.39	9.66	13.26	-107.48	234.73	439.64	379.04	355.76	23.28	16.281	
4,100.00	4,070.20	4,083.89	4,053.20	9.89	13.59	-107.47	239.01	451.83	387.31	363.48	23.83	16.251	
4,200.00	4,169.39	4,183.55	4,152.02	10.13	13.91	-107.47	243.29	464.02	395.58	371.19	24.39	16.220	
4,300.00	4,268.57	4,283.21	4,250.84	10.37	14.24	-107.46	247.57	476.22	403.85	378.90	24.95	16.186	
4,400.00	4,367.76	4,382.87	4,349.65	10.62	14.57	-107.45	251.85	488.41	412.12	386.61	25.52	16.152	
4,500.00	4,466.94	4,482.52	4,448.47	10.87	14.89	-107.45	256.13	500.60	420.39	394.31	26.08	16.116	
4,600.00	4,566.13	4,582.18	4,547.28	11.12	15.22	-107.44	260.42	512.79	428.66	402.00	26.66	16.080	
4,700.00	4,665.31	4,681.84	4,646.10	11.38	15.55	-107.44	264.70	524.98	436.93	409.70	27.23	16.044	
4,800.00	4,764.50	4,781.50	4,744.92	11.63	15.88	-107.43	268.98	537.17	445.20	417.39	27.81	16.007	
4,900.00	4,863.68	4,881.15	4,843.73	11.90	16.20	-107.43	273.26	549.37	453.47	425.07	28.40	15.970	
5,000.00	4,962.87	4,980.81	4,942.55	12.16	16.53	-107.42	277.54	561.56	461.74	432.76	28.98	15.932	
5,100.00	5,062.05	5,080.47	5,041.36	12.43	16.86	-107.42	281.82	573.75	470.01	440.44	29.57	15.895	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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						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	5,161.24	5,180.13	5,140.18	12.70	17.19	-107.41	286.10	585.94	478.28	448.12	30.16	15.858		
5,300.00	5,260.42	5,279.78	5,239.00	12.97	17.52	-107.41	290.39	598.13	486.55	455.80	30.75	15.821		
5,400.00	5,359.61	5,379.44	5,337.81	13.24	17.85	-107.40	294.67	610.33	494.82	463.47	31.35	15.785		
5,500.00	5,458.79	5,479.10	5,436.63	13.52	18.18	-107.40	298.95	622.52	503.09	471.14	31.95	15.748		
5,600.00	5,557.98	5,578.76	5,535.45	13.79	18.51	-107.39	303.23	634.71	511.36	478.81	32.54	15.713		
5,700.00	5,657.16	5,678.41	5,634.26	14.07	18.84	-107.39	307.51	646.90	519.63	486.48	33.15	15.677		
5,800.00	5,756.35	5,778.07	5,733.08	14.35	19.17	-107.39	311.79	659.09	527.90	494.15	33.75	15.642		
5,900.00	5,855.53	5,877.73	5,831.89	14.63	19.50	-107.38	316.07	671.28	536.17	501.81	34.35	15.608		
6,000.00	5,954.72	5,977.39	5,930.71	14.91	19.83	-107.38	320.36	683.48	544.44	509.48	34.96	15.574		
6,100.00	6,053.90	6,077.04	6,029.53	15.20	20.16	-107.38	324.64	695.67	552.70	517.14	35.57	15.541		
6,200.00	6,153.09	6,176.70	6,128.34	15.48	20.49	-107.37	328.92	707.86	560.97	524.80	36.17	15.508		
6,300.00	6,252.27	6,276.36	6,227.16	15.77	20.83	-107.37	333.20	720.05	569.24	532.46	36.78	15.475		
6,400.00	6,351.46	6,376.02	6,325.98	16.06	21.16	-107.37	337.48	732.24	577.51	540.12	37.40	15.443		
6,500.00	6,450.64	6,475.67	6,424.79	16.34	21.49	-107.36	341.76	744.43	585.78	547.78	38.01	15.412		
6,600.00	6,549.83	6,575.33	6,523.61	16.63	21.82	-107.36	346.04	756.63	594.05	555.43	38.62	15.381		
6,700.00	6,649.01	6,674.99	6,622.42	16.92	22.15	-107.36	350.33	768.82	602.32	563.09	39.24	15.351		
6,800.00	6,748.73	6,775.12	6,722.08	17.13	22.41	140.96	354.66	776.66	610.66	570.96	39.70	15.383		
6,900.00	6,847.93	6,875.94	6,822.42	17.25	22.57	101.92	359.05	769.16	618.98	578.99	39.98	15.480		
7,000.00	6,944.17	6,977.37	6,920.90	17.33	22.70	96.27	363.41	745.73	627.07	586.88	40.19	15.603		
7,100.00	7,035.09	7,079.41	7,014.96	17.37	22.82	93.91	367.62	706.68	634.74	594.39	40.35	15.730		
7,200.00	7,118.44	7,182.04	7,102.06	17.39	22.97	92.53	371.56	652.76	641.78	601.25	40.53	15.834		
7,300.00	7,192.18	7,285.20	7,179.76	17.41	23.22	91.60	375.12	585.16	648.02	607.20	40.82	15.876		
7,400.00	7,254.49	7,388.83	7,245.80	17.45	23.63	90.92	378.21	505.52	653.30	611.98	41.32	15.810		
7,500.00	7,303.82	7,492.80	7,298.23	17.54	24.29	90.43	380.72	415.90	657.48	615.33	42.15	15.598		
7,600.00	7,338.98	7,597.02	7,335.47	17.72	25.25	90.07	382.60	318.70	660.45	617.08	43.37	15.228		
7,700.00	7,359.09	7,701.33	7,356.40	18.02	26.49	89.84	383.77	216.64	662.14	617.15	44.99	14.718		
7,800.00	7,364.03	7,804.40	7,361.09	18.43	27.71	89.75	384.24	113.75	662.55	615.88	46.67	14.195		
7,900.00	7,364.15	7,904.40	7,361.40	19.00	27.77	89.76	384.51	13.75	662.59	615.26	47.32	14.002		
8,000.00	7,364.28	8,004.40	7,361.71	19.70	27.92	89.78	384.78	-86.25	662.62	614.43	48.19	13.749		
8,100.00	7,364.41	8,104.40	7,362.01	20.52	28.18	89.79	385.05	-186.24	662.65	613.38	49.28	13.448		
8,200.00	7,364.54	8,204.40	7,362.32	21.44	28.53	89.81	385.32	-286.24	662.69	612.13	50.55	13.109		
8,300.00	7,364.67	8,304.40	7,362.63	22.46	28.97	89.82	385.59	-386.24	662.72	610.71	52.01	12.743		
8,400.00	7,364.79	8,404.40	7,362.93	23.54	29.50	89.84	385.86	-486.24	662.75	609.13	53.63	12.358		
8,500.00	7,364.92	8,504.40	7,363.24	24.70	30.12	89.85	386.12	-586.24	662.79	607.39	55.40	11.965		
8,600.00	7,365.05	8,604.40	7,363.55	25.91	30.81	89.87	386.39	-686.24	662.82	605.52	57.30	11.568		
8,700.00	7,365.18	8,704.40	7,363.85	27.17	31.58	89.89	386.66	-786.24	662.85	603.53	59.32	11.173		
8,800.00	7,365.31	8,804.40	7,364.16	28.47	32.41	89.90	386.93	-886.24	662.89	601.43	61.46	10.785		
8,900.00	7,365.43	8,904.40	7,364.47	29.81	33.31	89.92	387.20	-986.24	662.92	599.22	63.70	10.407		
9,000.00	7,365.56	9,004.40	7,364.78	31.19	34.27	89.93	387.47	-1,086.24	662.96	596.93	66.02	10.041		
9,100.00	7,365.69	9,104.40	7,365.08	32.59	35.28	89.95	387.74	-1,186.23	662.99	594.56	68.43	9.688		
9,200.00	7,365.82	9,204.40	7,365.39	34.01	36.33	89.96	388.01	-1,286.23	663.02	592.11	70.91	9.350		
9,300.00	7,365.95	9,304.40	7,365.70	35.46	37.44	89.98	388.28	-1,386.23	663.06	589.59	73.46	9.026		
9,400.00	7,366.08	9,404.40	7,366.00	36.92	38.58	89.99	388.55	-1,486.23	663.09	587.02	76.07	8.717		
9,500.00	7,366.20	9,504.40	7,366.31	38.40	39.76	90.01	388.82	-1,586.23	663.13	584.39	78.73	8.422		
9,600.00	7,366.33	9,604.40	7,366.62	39.90	40.98	90.02	389.09	-1,686.23	663.16	581.71	81.45	8.142		
9,700.00	7,366.46	9,704.40	7,366.93	41.41	42.23	90.04	389.36	-1,786.23	663.19	578.99	84.20	7.876		
9,800.00	7,366.59	9,804.40	7,367.23	42.93	43.50	90.06	389.62	-1,886.23	663.23	576.23	87.00	7.623		
9,900.00	7,366.72	9,904.40	7,367.54	44.47	44.80	90.07	389.89	-1,986.23	663.26	573.43	89.84	7.383		
10,000.00	7,366.84	10,004.40	7,367.85	46.01	46.13	90.09	390.16	-2,086.23	663.30	570.59	92.70	7.155		
10,100.00	7,366.97	10,104.40	7,368.15	47.56	47.47	90.10	390.43	-2,186.23	663.33	567.73	95.60	6.939		
10,200.00	7,367.10	10,204.40	7,368.46	49.12	48.84	90.12	390.70	-2,286.22	663.36	564.84	98.53	6.733		
10,300.00	7,367.23	10,304.40	7,368.77	50.68	50.23	90.13	390.97	-2,386.22	663.40	561.92	101.48	6.537		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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								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	7,367.36	10,404.40	7,369.07	52.26	51.63	90.15	391.24	-2,486.22	663.43	558.98	104.45	6.351		
10,500.00	7,367.49	10,504.40	7,369.38	53.84	53.05	90.16	391.51	-2,586.22	663.47	556.02	107.45	6.175		
10,600.00	7,367.61	10,604.40	7,369.69	55.42	54.48	90.18	391.78	-2,686.22	663.50	553.03	110.47	6.006		
10,700.00	7,367.74	10,704.40	7,370.00	57.01	55.93	90.19	392.05	-2,786.22	663.54	550.03	113.50	5.846		
10,800.00	7,367.87	10,804.40	7,370.30	58.60	57.39	90.21	392.32	-2,886.22	663.57	547.02	116.56	5.693		
10,900.00	7,368.00	10,904.40	7,370.61	60.20	58.85	90.23	392.59	-2,986.22	663.61	543.98	119.62	5.547		
11,000.00	7,368.13	11,004.40	7,370.92	61.80	60.34	90.24	392.86	-3,086.22	663.64	540.94	122.71	5.408		
11,100.00	7,368.25	11,104.40	7,371.22	63.41	61.82	90.26	393.12	-3,186.22	663.68	537.88	125.80	5.276		
11,200.00	7,368.38	11,204.40	7,371.53	65.02	63.32	90.27	393.39	-3,286.21	663.71	534.80	128.91	5.149		
11,300.00	7,368.51	11,304.40	7,371.84	66.63	64.83	90.29	393.66	-3,386.21	663.75	531.72	132.03	5.027		
11,400.00	7,368.64	11,404.40	7,372.15	68.24	66.35	90.30	393.93	-3,486.21	663.78	528.62	135.16	4.911		
11,500.00	7,368.77	11,504.40	7,372.45	69.86	67.87	90.32	394.20	-3,586.21	663.82	525.52	138.30	4.800		
11,600.00	7,368.90	11,604.40	7,372.76	71.48	69.40	90.33	394.47	-3,686.21	663.85	522.40	141.45	4.693		
11,700.00	7,369.02	11,704.40	7,373.07	73.10	70.94	90.35	394.74	-3,786.21	663.89	519.28	144.61	4.591		
11,800.00	7,369.15	11,804.40	7,373.37	74.73	72.48	90.36	395.01	-3,886.21	663.92	516.15	147.77	4.493		
11,900.00	7,369.28	11,904.40	7,373.68	76.36	74.02	90.38	395.28	-3,986.21	663.96	513.01	150.95	4.399		
12,000.00	7,369.41	12,004.40	7,373.99	77.98	75.58	90.40	395.55	-4,086.21	663.99	509.87	154.13	4.308		
12,100.00	7,369.54	12,104.40	7,374.29	79.61	77.14	90.41	395.82	-4,186.21	664.03	506.71	157.31	4.221		
12,200.00	7,369.66	12,204.39	7,374.60	81.25	78.70	90.43	396.09	-4,286.20	664.06	503.55	160.51	4.137		
12,300.00	7,369.79	12,304.39	7,374.91	82.88	80.27	90.44	396.36	-4,386.20	664.10	500.39	163.71	4.057		
12,400.00	7,369.92	12,404.39	7,375.22	84.52	81.84	90.46	396.62	-4,486.20	664.13	497.22	166.92	3.979		
12,500.00	7,370.05	12,504.39	7,375.52	86.15	83.41	90.47	396.89	-4,586.20	664.17	494.04	170.13	3.904		
12,600.00	7,370.18	12,604.39	7,375.83	87.79	84.99	90.49	397.16	-4,686.20	664.21	490.86	173.34	3.832		
12,700.00	7,370.30	12,704.39	7,376.14	89.43	86.57	90.50	397.43	-4,786.20	664.24	487.68	176.56	3.762		
12,800.00	7,370.43	12,804.39	7,376.44	91.07	88.16	90.52	397.70	-4,886.20	664.28	484.49	179.79	3.695		
12,900.00	7,370.56	12,904.39	7,376.75	92.71	89.75	90.53	397.97	-4,986.20	664.31	481.29	183.02	3.630		
13,000.00	7,370.69	13,004.39	7,377.06	94.35	91.34	90.55	398.24	-5,086.20	664.35	478.10	186.25	3.567		
13,100.00	7,370.82	13,104.39	7,377.37	96.00	92.93	90.56	398.51	-5,186.20	664.38	474.90	189.49	3.506		
13,200.00	7,370.95	13,204.39	7,377.67	97.64	94.53	90.58	398.78	-5,286.19	664.42	471.69	192.73	3.447		
13,300.00	7,371.07	13,304.39	7,377.98	99.29	96.13	90.60	399.05	-5,386.19	664.46	468.48	195.97	3.391		
13,400.00	7,371.20	13,404.39	7,378.29	100.93	97.73	90.61	399.32	-5,486.19	664.49	465.27	199.22	3.335		
13,500.00	7,371.33	13,504.39	7,378.59	102.58	99.34	90.63	399.59	-5,586.19	664.53	462.06	202.47	3.282		
13,600.00	7,371.46	13,604.39	7,378.90	104.23	100.94	90.64	399.85	-5,686.19	664.56	458.84	205.73	3.230		
13,700.00	7,371.59	13,704.39	7,379.21	105.88	102.55	90.66	400.12	-5,786.19	664.60	455.62	208.98	3.180		
13,800.00	7,371.71	13,804.39	7,379.51	107.53	104.16	90.67	400.39	-5,886.19	664.64	452.39	212.24	3.132		
13,900.00	7,371.84	13,904.39	7,379.82	109.18	105.78	90.69	400.66	-5,986.19	664.67	449.17	215.50	3.084		
14,000.00	7,371.97	14,004.39	7,380.13	110.83	107.39	90.70	400.93	-6,086.19	664.71	445.94	218.77	3.038		
14,100.00	7,372.10	14,104.39	7,380.44	112.48	109.01	90.72	401.20	-6,186.19	664.74	442.71	222.03	2.994		
14,200.00	7,372.23	14,204.39	7,380.74	114.13	110.62	90.73	401.47	-6,286.18	664.78	439.48	225.30	2.951		
14,300.00	7,372.36	14,304.39	7,381.05	115.78	112.24	90.75	401.74	-6,386.18	664.82	436.24	228.57	2.909		
14,400.00	7,372.48	14,404.39	7,381.36	117.44	113.86	90.76	402.01	-6,486.18	664.85	433.01	231.85	2.868		
14,500.00	7,372.61	14,504.39	7,381.66	119.09	115.49	90.78	402.28	-6,586.18	664.89	429.77	235.12	2.828		
14,600.00	7,372.74	14,604.39	7,381.97	120.74	117.11	90.80	402.55	-6,686.18	664.93	426.53	238.40	2.789		
14,700.00	7,372.87	14,704.39	7,382.28	122.40	118.74	90.81	402.82	-6,786.18	664.96	423.29	241.67	2.751		
14,800.00	7,373.00	14,804.39	7,382.59	124.05	120.36	90.83	403.09	-6,886.18	665.00	420.05	244.95	2.715		
14,900.00	7,373.12	14,904.39	7,382.89	125.71	121.99	90.84	403.35	-6,986.18	665.04	416.80	248.24	2.679		
15,000.00	7,373.25	15,004.39	7,383.20	127.36	123.62	90.86	403.62	-7,086.18	665.07	413.55	251.52	2.644		
15,100.00	7,373.38	15,104.39	7,383.51	129.02	125.25	90.87	403.89	-7,186.18	665.11	410.31	254.80	2.610		
15,200.00	7,373.51	15,204.39	7,383.81	130.68	126.88	90.89	404.16	-7,286.17	665.15	407.06	258.09	2.577		
15,300.00	7,373.64	15,304.39	7,384.12	132.33	128.51	90.90	404.43	-7,386.17	665.18	403.81	261.38	2.545		
15,400.00	7,373.77	15,404.39	7,384.43	133.99	130.15	90.92	404.70	-7,486.17	665.22	400.55	264.67	2.513		
15,500.00	7,373.89	15,504.39	7,384.74	135.65	131.78	90.93	404.97	-7,586.17	665.26	397.30	267.96	2.483		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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
15,583.33	7,374.00	15,587.72	7,384.99	137.03	133.14	90.95	405.19	-7,669.50	665.29	394.59	270.70	2.458 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-0.53	60.11	-0.56	60.11					
100.00	100.00	100.00	100.00	3.28	3.28	-0.53	60.11	-0.56	60.11	52.58	7.53	7.984		
200.00	200.00	200.00	200.00	3.31	3.31	-0.53	60.11	-0.56	60.11	52.54	7.57	7.937	CC, ES	
300.00	299.98	299.36	299.34	3.35	3.35	-108.71	60.64	1.08	61.19	53.53	7.66	7.990		
400.00	399.84	398.66	398.50	3.41	3.42	-108.65	62.24	5.99	64.43	56.65	7.78	8.277		
500.00	499.45	497.81	497.28	3.50	3.51	-108.55	64.89	14.15	69.83	61.87	7.96	8.771		
600.00	598.73	603.16	595.58	3.62	3.63	-108.34	68.58	25.53	77.30	69.09	8.20	9.422		
700.00	697.91	703.49	694.33	3.76	3.78	-107.82	72.74	38.33	85.44	76.95	8.50	10.058		
800.00	797.10	803.83	793.08	3.93	3.95	-107.38	76.90	51.13	93.59	84.76	8.83	10.595		
900.00	896.28	895.84	891.83	4.12	4.13	-107.02	81.06	63.92	101.75	92.55	9.20	11.062		
1,000.00	995.47	1,004.50	990.58	4.33	4.36	-106.71	85.22	76.72	109.91	100.28	9.63	11.412		
1,100.00	1,094.65	1,095.17	1,089.34	4.56	4.57	-106.44	89.38	89.52	118.07	108.01	10.06	11.741		
1,200.00	1,193.84	1,205.17	1,188.09	4.80	4.83	-106.21	93.54	102.32	126.23	115.68	10.55	11.962		
1,300.00	1,293.02	1,305.50	1,286.84	5.05	5.09	-106.00	97.69	115.12	134.40	123.35	11.05	12.163		
1,400.00	1,392.21	1,405.84	1,385.59	5.31	5.35	-105.82	101.85	127.92	142.57	131.00	11.57	12.325		
1,500.00	1,491.39	1,506.17	1,484.35	5.58	5.62	-105.66	106.01	140.72	150.74	138.64	12.10	12.457		
1,600.00	1,590.58	1,606.51	1,583.10	5.86	5.90	-105.51	110.17	153.51	158.91	146.26	12.65	12.562		
1,700.00	1,689.76	1,706.84	1,681.85	6.15	6.19	-105.38	114.33	166.31	167.08	153.87	13.21	12.647		
1,800.00	1,788.95	1,792.82	1,780.60	6.43	6.44	-105.26	118.49	179.11	175.25	161.51	13.74	12.753		
1,900.00	1,888.13	1,907.51	1,879.35	6.59	6.62	-105.15	122.64	191.91	183.42	169.73	13.69	13.397		
2,000.00	1,987.32	2,007.85	1,978.11	6.62	6.65	-105.06	126.80	204.71	191.59	177.84	13.75	13.934		
2,100.00	2,086.50	2,108.18	2,076.86	6.66	6.70	-104.97	130.96	217.51	199.77	185.93	13.84	14.436		
2,200.00	2,185.69	2,208.52	2,175.61	6.72	6.76	-104.88	135.12	230.30	207.94	193.98	13.95	14.901		
2,300.00	2,284.87	2,308.85	2,274.36	6.79	6.83	-104.80	139.28	243.10	216.11	202.01	14.10	15.328		
2,400.00	2,384.06	2,409.19	2,373.12	6.88	6.92	-104.73	143.44	255.90	224.29	210.02	14.27	15.716		
2,500.00	2,483.24	2,509.52	2,471.87	6.98	7.02	-104.67	147.60	268.70	232.46	217.99	14.47	16.066		
2,600.00	2,582.43	2,609.86	2,570.62	7.09	7.14	-104.60	151.75	281.50	240.64	225.95	14.69	16.379		
2,700.00	2,681.61	2,689.81	2,669.37	7.22	7.23	-104.55	155.91	294.30	248.81	233.90	14.91	16.685		
2,800.00	2,780.80	2,789.47	2,768.12	7.35	7.37	-104.49	160.07	307.10	256.99	241.81	15.18	16.932		
2,900.00	2,879.98	2,889.14	2,866.88	7.50	7.51	-104.44	164.23	319.89	265.16	249.70	15.47	17.146		
3,000.00	2,979.17	2,988.80	2,965.63	7.66	7.67	-104.39	168.39	332.69	273.34	257.57	15.77	17.330		
3,100.00	3,078.35	3,088.47	3,064.38	7.82	7.83	-104.35	172.55	345.49	281.52	265.42	16.10	17.486		
3,200.00	3,177.54	3,188.13	3,163.13	8.00	8.00	-104.30	176.71	358.29	289.69	273.25	16.44	17.617		
3,300.00	3,276.72	3,287.80	3,261.89	8.18	8.18	-104.26	180.86	371.09	297.87	281.06	16.81	17.725		
3,400.00	3,375.91	3,387.46	3,360.64	8.37	8.37	-104.23	185.02	383.89	306.05	288.86	17.18	17.812		
3,500.00	3,475.09	3,487.13	3,459.39	8.57	8.57	-104.19	189.18	396.69	314.22	296.65	17.57	17.881		
3,600.00	3,574.28	3,586.79	3,558.14	8.78	8.77	-104.16	193.34	409.48	322.40	304.42	17.98	17.933		
3,700.00	3,673.46	3,686.45	3,656.90	8.99	8.98	-104.12	197.50	422.28	330.58	312.18	18.40	17.971		
3,800.00	3,772.65	3,786.12	3,755.65	9.21	9.19	-104.09	201.66	435.08	338.75	319.93	18.82	17.995		
3,900.00	3,871.83	3,885.78	3,854.40	9.43	9.42	-104.06	205.81	447.88	346.93	327.67	19.26	18.009		
4,000.00	3,971.02	3,985.45	3,953.15	9.66	9.64	-104.03	209.97	460.68	355.11	335.39	19.72	18.012		
4,100.00	4,070.20	4,085.11	4,051.90	9.89	9.87	-104.01	214.13	473.48	363.29	343.11	20.18	18.007		
4,200.00	4,169.39	4,184.78	4,150.66	10.13	10.11	-103.98	218.29	486.28	371.46	350.82	20.64	17.994		
4,300.00	4,268.57	4,284.44	4,249.41	10.37	10.34	-103.96	222.45	499.07	379.64	358.52	21.12	17.974		
4,400.00	4,367.76	4,384.11	4,348.16	10.62	10.59	-103.93	226.61	511.87	387.82	366.21	21.61	17.950		
4,500.00	4,466.94	4,483.77	4,446.91	10.87	10.83	-103.91	230.77	524.67	396.00	373.90	22.10	17.920		
4,600.00	4,566.13	4,583.44	4,545.67	11.12	11.08	-103.89	234.92	537.47	404.17	381.58	22.60	17.886		
4,700.00	4,665.31	4,683.10	4,644.42	11.38	11.34	-103.87	239.08	550.27	412.35	389.25	23.10	17.850		
4,800.00	4,764.50	4,782.77	4,743.17	11.63	11.59	-103.85	243.24	563.07	420.53	396.92	23.61	17.810		
4,900.00	4,863.68	4,882.43	4,841.92	11.90	11.85	-103.83	247.40	575.86	428.71	404.58	24.13	17.768		
5,000.00	4,962.87	4,982.10	4,940.67	12.16	12.11	-103.81	251.56	588.66	436.88	412.23	24.65	17.724		
5,100.00	5,062.05	5,081.76	5,039.43	12.43	12.38	-103.79	255.72	601.46	445.06	419.89	25.18	17.678		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,181.43	5,138.18	12.70	12.64	-103.78	259.87	614.26	453.24	427.53	25.71	17.631		
5,300.00	5,260.42	5,281.09	5,236.93	12.97	12.91	-103.76	264.03	627.06	461.42	435.18	26.24	17.583		
5,400.00	5,359.61	5,380.76	5,335.68	13.24	13.18	-103.74	268.19	639.86	469.60	442.82	26.78	17.535		
5,500.00	5,458.79	5,480.42	5,434.44	13.52	13.45	-103.73	272.35	652.66	477.77	450.45	27.32	17.486		
5,600.00	5,557.98	5,580.09	5,533.19	13.79	13.72	-103.71	276.51	665.45	485.95	458.08	27.87	17.437		
5,700.00	5,657.16	5,679.75	5,631.94	14.07	14.00	-103.70	280.67	678.25	494.13	465.71	28.42	17.388		
5,800.00	5,756.35	5,779.42	5,730.69	14.35	14.28	-103.68	284.83	691.05	502.31	473.34	28.97	17.338		
5,900.00	5,855.53	5,879.08	5,829.45	14.63	14.55	-103.67	288.98	703.85	510.49	480.96	29.53	17.289		
6,000.00	5,954.72	5,978.75	5,928.20	14.91	14.83	-103.66	293.14	716.65	518.66	488.58	30.08	17.240		
6,100.00	6,053.90	6,078.41	6,026.95	15.20	15.11	-103.64	297.30	729.45	526.84	496.20	30.65	17.192		
6,200.00	6,153.09	6,178.08	6,125.70	15.48	15.40	-103.63	301.46	742.25	535.02	503.81	31.21	17.143		
6,300.00	6,252.27	6,277.74	6,224.45	15.77	15.68	-103.62	305.62	755.04	543.20	511.43	31.77	17.096		
6,400.00	6,351.46	6,378.25	6,324.06	16.06	15.96	-103.62	309.81	767.80	551.37	519.03	32.34	17.050		
6,500.00	6,450.64	6,483.14	6,428.71	16.34	16.15	-104.73	314.24	770.38	558.91	526.10	32.81	17.036		
6,600.00	6,549.83	6,582.16	6,526.63	16.63	16.27	-107.32	318.41	757.02	566.32	533.14	33.18	17.070		
6,700.00	6,649.01	6,671.56	6,612.31	16.92	16.34	-110.86	322.08	732.04	575.57	542.12	33.45	17.206		
6,800.00	6,748.73	6,753.21	6,686.82	17.13	16.37	133.21	325.29	698.93	588.17	554.61	33.57	17.523		
6,900.00	6,847.93	6,831.28	6,753.54	17.25	16.39	90.17	328.19	658.60	603.28	569.73	33.56	17.978		
7,000.00	6,944.17	6,906.55	6,812.74	17.33	16.41	80.89	330.78	612.25	619.81	586.34	33.47	18.518		
7,100.00	7,035.09	6,979.65	6,864.62	17.37	16.45	75.32	333.07	560.86	636.72	603.37	33.35	19.090		
7,200.00	7,118.44	7,050.00	6,908.67	17.39	16.51	71.22	335.03	506.09	653.08	619.83	33.25	19.641		
7,300.00	7,192.18	7,121.11	6,946.80	17.41	16.61	67.98	336.75	446.13	668.08	634.84	33.23	20.103		
7,400.00	7,254.49	7,190.17	6,977.20	17.45	16.76	65.50	338.15	384.18	681.06	647.73	33.33	20.432		
7,500.00	7,303.82	7,258.48	7,000.51	17.54	16.96	63.65	339.25	320.02	691.51	657.90	33.61	20.575		
7,600.00	7,338.98	7,326.25	7,016.73	17.72	17.21	62.39	340.05	254.25	699.02	664.94	34.08	20.511		
7,700.00	7,359.09	7,393.70	7,025.83	18.02	17.51	61.68	340.56	187.45	703.35	668.60	34.75	20.241		
7,800.00	7,364.03	7,469.44	7,028.11	18.43	17.91	61.52	340.79	111.77	704.35	668.74	35.61	19.779		
7,900.00	7,364.15	7,569.44	7,028.53	19.00	18.55	61.54	340.99	11.77	704.18	667.44	36.74	19.165		
8,000.00	7,364.28	7,669.44	7,028.96	19.70	19.30	61.56	341.18	-88.23	704.00	665.92	38.09	18.485		
8,100.00	7,364.41	7,769.44	7,029.38	20.52	20.17	61.57	341.38	-188.23	703.83	664.20	39.63	17.762		
8,200.00	7,364.54	7,869.44	7,029.80	21.44	21.13	61.59	341.57	-288.22	703.65	662.31	41.34	17.021		
8,300.00	7,364.67	7,969.44	7,030.22	22.46	22.17	61.61	341.77	-388.22	703.48	660.27	43.21	16.281		
8,400.00	7,364.79	8,069.44	7,030.65	23.54	23.29	61.63	341.96	-488.22	703.31	658.09	45.21	15.556		
8,500.00	7,364.92	8,169.44	7,031.07	24.70	24.47	61.65	342.16	-588.22	703.13	655.80	47.33	14.855		
8,600.00	7,365.05	8,269.44	7,031.49	25.91	25.71	61.67	342.36	-688.22	702.96	653.40	49.55	14.185		
8,700.00	7,365.18	8,369.44	7,031.91	27.17	26.99	61.69	342.55	-788.22	702.78	650.91	51.87	13.550		
8,800.00	7,365.31	8,469.44	7,032.34	28.47	28.31	61.71	342.75	-888.22	702.61	648.35	54.26	12.949		
8,900.00	7,365.43	8,569.44	7,032.76	29.81	29.67	61.73	342.94	-988.21	702.43	645.72	56.72	12.385		
9,000.00	7,365.56	8,669.44	7,033.18	31.19	31.06	61.75	343.14	-1,088.21	702.26	643.03	59.23	11.856		
9,100.00	7,365.69	8,769.44	7,033.60	32.59	32.47	61.77	343.33	-1,188.21	702.09	640.28	61.80	11.360		
9,200.00	7,365.82	8,869.44	7,034.03	34.01	33.91	61.79	343.53	-1,288.21	701.91	637.49	64.42	10.896		
9,300.00	7,365.95	8,969.44	7,034.45	35.46	35.37	61.81	343.72	-1,388.21	701.74	634.66	67.08	10.462		
9,400.00	7,366.08	9,069.44	7,034.87	36.92	36.85	61.83	343.92	-1,488.21	701.56	631.79	69.77	10.055		
9,500.00	7,366.20	9,169.44	7,035.29	38.40	38.34	61.85	344.12	-1,588.20	701.39	628.89	72.50	9.675		
9,600.00	7,366.33	9,269.44	7,035.72	39.90	39.85	61.87	344.31	-1,688.20	701.22	625.97	75.25	9.318		
9,700.00	7,366.46	9,369.44	7,036.14	41.41	41.37	61.89	344.51	-1,788.20	701.04	623.01	78.03	8.984		
9,800.00	7,366.59	9,469.44	7,036.56	42.93	42.90	61.91	344.70	-1,888.20	700.87	620.04	80.83	8.671		
9,900.00	7,366.72	9,569.44	7,036.98	44.47	44.44	61.93	344.90	-1,988.20	700.70	617.04	83.66	8.376		
10,000.00	7,366.84	9,669.43	7,037.41	46.01	45.99	61.95	345.09	-2,088.20	700.52	614.02	86.50	8.098		
10,100.00	7,366.97	9,769.43	7,037.83	47.56	47.55	61.97	345.29	-2,188.20	700.35	610.99	89.36	7.837		
10,200.00	7,367.10	9,869.43	7,038.25	49.12	49.11	61.99	345.49	-2,288.19	700.18	607.94	92.24	7.591		
10,300.00	7,367.23	9,969.43	7,038.67	50.68	50.69	62.01	345.68	-2,388.19	700.00	604.88	95.13	7.359		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	7,367.36	10,069.43	7,039.10	52.26	52.26	62.03	345.88	-2,488.19	699.83	601.80	98.03	7.139		
10,500.00	7,367.49	10,169.43	7,039.52	53.84	53.85	62.05	346.07	-2,588.19	699.66	598.71	100.95	6.931		
10,600.00	7,367.61	10,269.43	7,039.94	55.42	55.44	62.07	346.27	-2,688.19	699.48	595.61	103.87	6.734		
10,700.00	7,367.74	10,369.43	7,040.36	57.01	57.03	62.09	346.46	-2,788.19	699.31	592.50	106.81	6.547		
10,800.00	7,367.87	10,469.43	7,040.79	58.60	58.63	62.11	346.66	-2,888.18	699.14	589.38	109.75	6.370		
10,900.00	7,368.00	10,569.43	7,041.21	60.20	60.23	62.13	346.86	-2,988.18	698.97	586.26	112.71	6.202		
11,000.00	7,368.13	10,669.43	7,041.63	61.80	61.84	62.15	347.05	-3,088.18	698.79	583.12	115.67	6.041		
11,100.00	7,368.25	10,769.43	7,042.05	63.41	63.45	62.17	347.25	-3,188.18	698.62	579.98	118.64	5.888		
11,200.00	7,368.38	10,869.43	7,042.48	65.02	65.06	62.19	347.44	-3,288.18	698.45	576.83	121.62	5.743		
11,300.00	7,368.51	10,969.43	7,042.90	66.63	66.68	62.20	347.64	-3,388.18	698.28	573.67	124.60	5.604		
11,400.00	7,368.64	11,069.43	7,043.32	68.24	68.30	62.22	347.83	-3,488.18	698.11	570.51	127.59	5.471		
11,500.00	7,368.77	11,169.43	7,043.74	69.86	69.92	62.24	348.03	-3,588.17	697.93	567.34	130.59	5.344		
11,600.00	7,368.90	11,269.43	7,044.17	71.48	71.54	62.26	348.23	-3,688.17	697.76	564.17	133.59	5.223		
11,700.00	7,369.02	11,369.43	7,044.59	73.10	73.17	62.28	348.42	-3,788.17	697.59	560.99	136.60	5.107		
11,800.00	7,369.15	11,469.43	7,045.01	74.73	74.80	62.30	348.62	-3,888.17	697.42	557.81	139.61	4.995		
11,900.00	7,369.28	11,569.43	7,045.43	76.36	76.42	62.32	348.81	-3,988.17	697.25	554.62	142.63	4.889		
12,000.00	7,369.41	11,669.43	7,045.86	77.98	78.06	62.34	349.01	-4,088.17	697.07	551.43	145.65	4.786		
12,100.00	7,369.54	11,769.43	7,046.28	79.61	79.69	62.36	349.20	-4,188.16	696.90	548.23	148.67	4.687		
12,200.00	7,369.66	11,869.43	7,046.70	81.25	81.32	62.38	349.40	-4,288.16	696.73	545.03	151.70	4.593		
12,300.00	7,369.79	11,969.42	7,047.12	82.88	82.96	62.40	349.60	-4,388.16	696.56	541.82	154.74	4.502		
12,400.00	7,369.92	12,069.42	7,047.55	84.52	84.60	62.42	349.79	-4,488.16	696.39	538.62	157.77	4.414		
12,500.00	7,370.05	12,169.42	7,047.97	86.15	86.24	62.44	349.99	-4,588.16	696.22	535.41	160.81	4.329		
12,600.00	7,370.18	12,269.42	7,048.39	87.79	87.88	62.46	350.18	-4,688.16	696.05	532.19	163.85	4.248		
12,700.00	7,370.30	12,369.42	7,048.81	89.43	89.52	62.48	350.38	-4,788.16	695.88	528.97	166.90	4.169		
12,800.00	7,370.43	12,469.42	7,049.24	91.07	91.16	62.50	350.57	-4,888.15	695.70	525.75	169.95	4.094		
12,900.00	7,370.56	12,569.42	7,049.66	92.71	92.80	62.52	350.77	-4,988.15	695.53	522.53	173.00	4.020		
13,000.00	7,370.69	12,669.42	7,050.08	94.35	94.45	62.54	350.97	-5,088.15	695.36	519.31	176.06	3.950		
13,100.00	7,370.82	12,769.42	7,050.50	96.00	96.09	62.56	351.16	-5,188.15	695.19	516.08	179.11	3.881		
13,200.00	7,370.95	12,869.42	7,050.93	97.64	97.74	62.58	351.36	-5,288.15	695.02	512.85	182.17	3.815		
13,300.00	7,371.07	12,969.42	7,051.35	99.29	99.39	62.60	351.55	-5,388.15	694.85	509.61	185.24	3.751		
13,400.00	7,371.20	13,069.42	7,051.77	100.93	101.03	62.62	351.75	-5,488.15	694.68	506.38	188.30	3.689		
13,500.00	7,371.33	13,169.42	7,052.19	102.58	102.68	62.64	351.94	-5,588.14	694.51	503.14	191.37	3.629		
13,600.00	7,371.46	13,269.42	7,052.62	104.23	104.33	62.66	352.14	-5,688.14	694.34	499.90	194.44	3.571		
13,700.00	7,371.59	13,369.42	7,053.04	105.88	105.98	62.68	352.34	-5,788.14	694.17	496.66	197.51	3.515		
13,800.00	7,371.71	13,469.42	7,053.46	107.53	107.63	62.70	352.53	-5,888.14	694.00	493.42	200.58	3.460		
13,900.00	7,371.84	13,569.42	7,053.88	109.18	109.28	62.72	352.73	-5,988.14	693.83	490.17	203.66	3.407		
14,000.00	7,371.97	13,669.42	7,054.31	110.83	110.94	62.74	352.92	-6,088.14	693.66	486.92	206.74	3.355		
14,100.00	7,372.10	13,769.42	7,054.73	112.48	112.59	62.76	353.12	-6,188.13	693.49	483.67	209.82	3.305		
14,200.00	7,372.23	13,869.42	7,055.15	114.13	114.24	62.78	353.31	-6,288.13	693.32	480.42	212.90	3.257		
14,300.00	7,372.36	13,969.42	7,055.57	115.78	115.90	62.80	353.51	-6,388.13	693.15	477.17	215.98	3.209		
14,400.00	7,372.48	14,069.42	7,056.00	117.44	117.55	62.83	353.71	-6,488.13	692.98	473.91	219.07	3.163		
14,500.00	7,372.61	14,169.41	7,056.42	119.09	119.20	62.85	353.90	-6,588.13	692.81	470.66	222.15	3.119		
14,600.00	7,372.74	14,269.41	7,056.84	120.74	120.86	62.87	354.10	-6,688.13	692.64	467.40	225.24	3.075		
14,700.00	7,372.87	14,369.41	7,057.26	122.40	122.51	62.89	354.29	-6,788.13	692.47	464.14	228.33	3.033		
14,800.00	7,373.00	14,469.41	7,057.69	124.05	124.17	62.91	354.49	-6,888.12	692.30	460.88	231.42	2.991		
14,900.00	7,373.12	14,569.41	7,058.11	125.71	125.83	62.93	354.68	-6,988.12	692.13	457.62	234.52	2.951		
15,000.00	7,373.25	14,669.41	7,058.53	127.36	127.48	62.95	354.88	-7,088.12	691.96	454.35	237.61	2.912		
15,100.00	7,373.38	14,769.41	7,058.95	129.02	129.14	62.97	355.07	-7,188.12	691.80	451.09	240.71	2.874		
15,200.00	7,373.51	14,869.41	7,059.38	130.68	130.80	62.99	355.27	-7,288.12	691.63	447.82	243.81	2.837		
15,300.00	7,373.64	14,969.41	7,059.80	132.33	132.46	63.01	355.47	-7,388.12	691.46	444.55	246.91	2.800		
15,400.00	7,373.77	15,069.41	7,060.22	133.99	134.12	63.03	355.66	-7,488.11	691.29	441.28	250.01	2.765		
15,500.00	7,373.89	15,169.41	7,060.64	135.65	135.77	63.05	355.86	-7,588.11	691.12	438.01	253.11	2.731		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
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
15,583.33	7,374.00	15,252.74	7,061.00	137.03	137.16	63.06	356.02	-7,671.44	690.98	435.28	255.70	2.702 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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	-0.48	100.18	-0.84	100.18				
100.00	100.00	100.00	100.00	3.28	3.28	-0.48	100.18	-0.84	100.18	92.66	7.53	13.307	
200.00	200.00	200.00	200.00	3.31	3.31	-0.48	100.18	-0.84	100.18	92.61	7.57	13.228 CC, ES	
300.00	299.98	298.34	298.32	3.35	3.35	-108.73	101.00	0.64	101.56	93.90	7.66	13.262	
400.00	399.84	396.58	396.42	3.41	3.42	-108.88	103.44	5.07	105.69	97.90	7.78	13.579	
500.00	499.45	494.59	494.07	3.50	3.51	-109.10	107.49	12.41	112.55	104.60	7.96	14.144	
600.00	598.73	592.28	591.06	3.62	3.62	-109.33	113.14	22.64	122.08	113.89	8.19	14.911	
700.00	697.91	708.79	688.96	3.76	3.79	-109.02	120.01	35.09	132.98	124.48	8.50	15.643	
800.00	797.10	790.61	787.31	3.93	3.93	-108.71	126.96	47.68	143.93	135.12	8.81	16.343	
900.00	896.28	909.99	885.66	4.12	4.17	-108.44	133.91	60.27	154.88	145.66	9.22	16.793	
1,000.00	995.47	989.40	984.01	4.33	4.34	-108.22	140.87	72.86	165.84	156.24	9.59	17.285	
1,100.00	1,094.65	1,088.80	1,082.36	4.56	4.57	-108.02	147.82	85.45	176.79	166.75	10.04	17.613	
1,200.00	1,193.84	1,188.20	1,180.71	4.80	4.82	-107.84	154.77	98.05	187.75	177.24	10.51	17.868	
1,300.00	1,293.02	1,287.59	1,279.06	5.05	5.07	-107.68	161.72	110.64	198.71	187.71	11.00	18.063	
1,400.00	1,392.21	1,386.99	1,377.41	5.31	5.34	-107.54	168.67	123.23	209.67	198.16	11.51	18.210	
1,500.00	1,491.39	1,486.38	1,475.76	5.58	5.61	-107.41	175.62	135.82	220.64	208.59	12.04	18.319	
1,600.00	1,590.58	1,585.78	1,574.11	5.86	5.90	-107.30	182.57	148.41	231.60	219.01	12.59	18.397	
1,700.00	1,689.76	1,685.18	1,672.46	6.15	6.19	-107.19	189.52	161.00	242.56	229.42	13.15	18.450	
1,800.00	1,788.95	1,784.57	1,770.81	6.43	6.48	-107.10	196.47	173.60	253.53	239.81	13.72	18.484	
1,900.00	1,888.13	1,883.97	1,869.16	6.59	6.66	-107.01	203.42	186.19	264.50	250.83	13.66	19.358	
2,000.00	1,987.32	1,983.36	1,967.51	6.62	6.72	-106.93	210.37	198.78	275.46	261.72	13.74	20.047	
2,100.00	2,086.50	2,082.76	2,065.86	6.66	6.76	-106.85	217.33	211.37	286.43	272.60	13.82	20.719	
2,200.00	2,185.69	2,182.16	2,164.21	6.72	6.82	-106.79	224.28	223.96	297.40	283.46	13.94	21.338	
2,300.00	2,284.87	2,281.55	2,262.56	6.79	6.89	-106.72	231.23	236.55	308.37	294.29	14.08	21.905	
2,400.00	2,384.06	2,380.95	2,360.91	6.88	6.98	-106.66	238.18	249.15	319.33	305.09	14.25	22.417	
2,500.00	2,483.24	2,480.35	2,459.26	6.98	7.08	-106.61	245.13	261.74	330.30	315.86	14.44	22.876	
2,600.00	2,582.43	2,579.74	2,557.61	7.09	7.19	-106.55	252.08	274.33	341.27	326.61	14.66	23.283	
2,700.00	2,681.61	2,679.14	2,655.96	7.22	7.32	-106.51	259.03	286.92	352.24	337.34	14.90	23.640	
2,800.00	2,780.80	2,778.53	2,754.31	7.35	7.45	-106.46	265.98	299.51	363.21	348.04	15.17	23.950	
2,900.00	2,879.98	2,877.93	2,852.66	7.50	7.60	-106.42	272.93	312.10	374.18	358.73	15.45	24.216	
3,000.00	2,979.17	2,977.33	2,951.01	7.66	7.75	-106.38	279.88	324.70	385.15	369.39	15.76	24.440	
3,100.00	3,078.35	3,076.72	3,049.36	7.82	7.92	-106.34	286.84	337.29	396.12	380.03	16.09	24.626	
3,200.00	3,177.54	3,176.12	3,147.71	8.00	8.09	-106.30	293.79	349.88	407.09	390.66	16.43	24.778	
3,300.00	3,276.72	3,275.51	3,246.06	8.18	8.27	-106.27	300.74	362.47	418.06	401.27	16.79	24.899	
3,400.00	3,375.91	3,374.91	3,344.41	8.37	8.47	-106.23	307.69	375.06	429.03	411.86	17.17	24.992	
3,500.00	3,475.09	3,474.31	3,442.76	8.57	8.66	-106.20	314.64	387.65	440.00	422.44	17.56	25.060	
3,600.00	3,574.28	3,573.70	3,541.11	8.78	8.87	-106.17	321.59	400.25	450.97	433.01	17.96	25.106	
3,700.00	3,673.46	3,673.10	3,639.46	8.99	9.08	-106.14	328.54	412.84	461.94	443.56	18.38	25.132	
3,800.00	3,772.65	3,772.49	3,737.81	9.21	9.30	-106.12	335.49	425.43	472.91	454.10	18.81	25.142	
3,900.00	3,871.83	3,871.89	3,836.16	9.43	9.52	-106.09	342.44	438.02	483.88	464.63	19.25	25.136	
4,000.00	3,971.02	3,971.29	3,934.51	9.66	9.75	-106.07	349.39	450.61	494.86	475.15	19.70	25.118	
4,100.00	4,070.20	4,070.68	4,032.86	9.89	9.98	-106.04	356.34	463.20	505.83	485.67	20.16	25.089	
4,200.00	4,169.39	4,170.08	4,131.21	10.13	10.21	-106.02	363.30	475.80	516.80	496.17	20.63	25.050	
4,300.00	4,268.57	4,269.48	4,229.56	10.37	10.46	-106.00	370.25	488.39	527.77	506.66	21.11	25.003	
4,400.00	4,367.76	4,368.87	4,327.91	10.62	10.70	-105.98	377.20	500.98	538.74	517.15	21.59	24.949	
4,500.00	4,466.94	4,468.27	4,426.26	10.87	10.95	-105.96	384.15	513.57	549.71	527.63	22.09	24.890	
4,600.00	4,566.13	4,567.66	4,524.61	11.12	11.20	-105.94	391.10	526.16	560.68	538.10	22.59	24.825	
4,700.00	4,665.31	4,667.06	4,622.96	11.38	11.46	-105.92	398.05	538.75	571.66	548.56	23.09	24.757	
4,800.00	4,764.50	4,766.46	4,721.31	11.63	11.71	-105.90	405.00	551.34	582.63	559.03	23.60	24.685	
4,900.00	4,863.68	4,865.85	4,819.66	11.90	11.98	-105.89	411.95	563.94	593.60	569.48	24.12	24.611	
5,000.00	4,962.87	4,965.25	4,918.01	12.16	12.24	-105.87	418.90	576.53	604.57	579.93	24.64	24.535	
5,100.00	5,062.05	5,064.64	5,016.36	12.43	12.50	-105.85	425.85	589.12	615.54	590.37	25.17	24.457	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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	5,161.24	5,164.04	5,114.71	12.70	12.77	-105.84	432.80	601.71	626.51	600.82	25.70	24.379		
5,300.00	5,260.42	5,263.44	5,213.06	12.97	13.04	-105.82	439.76	614.30	637.49	611.25	26.24	24.299		
5,400.00	5,359.61	5,362.83	5,311.41	13.24	13.32	-105.81	446.71	626.89	648.46	621.68	26.77	24.219		
5,500.00	5,458.79	5,462.23	5,409.76	13.52	13.59	-105.80	453.66	639.49	659.43	632.11	27.32	24.139		
5,600.00	5,557.98	5,561.63	5,508.11	13.79	13.87	-105.78	460.61	652.08	670.40	642.54	27.86	24.059		
5,700.00	5,657.16	5,661.02	5,606.46	14.07	14.14	-105.77	467.56	664.67	681.37	652.96	28.42	23.979		
5,800.00	5,756.35	5,760.42	5,704.81	14.35	14.42	-105.76	474.51	677.26	692.35	663.38	28.97	23.900		
5,900.00	5,855.53	5,859.81	5,803.16	14.63	14.70	-105.75	481.46	689.85	703.32	673.79	29.52	23.821		
6,000.00	5,954.72	5,959.21	5,901.51	14.91	14.99	-105.73	488.41	702.44	714.29	684.21	30.08	23.743		
6,100.00	6,053.90	6,058.61	5,999.86	15.20	15.27	-105.72	495.36	715.04	725.26	694.62	30.65	23.666		
6,200.00	6,153.09	6,158.00	6,098.21	15.48	15.55	-105.71	502.31	727.63	736.24	705.03	31.21	23.590		
6,300.00	6,252.27	6,257.40	6,196.56	15.77	15.84	-105.70	509.27	740.22	747.21	715.43	31.78	23.515		
6,400.00	6,351.46	6,356.79	6,294.91	16.06	16.13	-105.69	516.22	752.81	758.18	725.84	32.34	23.440		
6,500.00	6,450.64	6,456.19	6,393.26	16.34	16.41	-105.68	523.17	765.40	769.15	736.24	32.92	23.367		
6,600.00	6,549.83	6,557.10	6,493.25	16.63	16.69	-105.77	530.24	776.88	780.09	746.61	33.47	23.306		
6,700.00	6,649.01	6,658.22	6,593.99	16.92	16.87	-106.81	537.38	775.19	790.76	756.83	33.93	23.308		
6,800.00	6,748.73	6,755.02	6,689.03	17.13	16.98	139.44	544.15	758.62	801.82	767.58	34.23	23.423		
6,900.00	6,847.93	6,848.88	6,777.77	17.25	17.05	98.38	550.49	728.96	813.34	778.93	34.41	23.637		
7,000.00	6,944.17	6,940.23	6,859.04	17.33	17.09	90.87	556.32	687.84	824.96	790.46	34.50	23.913		
7,100.00	7,035.09	7,029.44	6,931.96	17.37	17.10	86.81	561.57	636.83	836.27	801.74	34.54	24.214		
7,200.00	7,118.44	7,116.88	6,995.84	17.39	17.13	83.94	566.20	577.41	846.91	812.34	34.57	24.499		
7,300.00	7,192.18	7,202.87	7,050.17	17.41	17.17	81.74	570.16	510.96	856.50	821.85	34.65	24.720		
7,400.00	7,254.49	7,287.69	7,094.53	17.45	17.28	80.02	573.43	438.81	864.74	829.90	34.84	24.824		
7,500.00	7,303.82	7,371.61	7,128.63	17.54	17.46	78.72	575.97	362.25	871.35	836.17	35.18	24.771		
7,600.00	7,338.98	7,454.85	7,152.25	17.72	17.72	77.82	577.78	282.50	876.12	840.42	35.70	24.541		
7,700.00	7,359.09	7,537.64	7,165.25	18.02	18.06	77.28	578.84	200.80	878.90	842.48	36.42	24.133		
7,800.00	7,364.03	7,625.37	7,168.05	18.43	18.52	77.13	579.18	113.17	879.60	842.25	37.34	23.555		
7,900.00	7,364.15	7,725.37	7,168.23	19.00	19.14	77.13	579.36	13.17	879.53	840.99	38.54	22.824		
8,000.00	7,364.28	7,825.37	7,168.41	19.70	19.89	77.13	579.54	-86.83	879.46	839.49	39.97	22.003		
8,100.00	7,364.41	7,925.37	7,168.59	20.52	20.74	77.13	579.72	-186.83	879.40	837.78	41.62	21.130		
8,200.00	7,364.54	8,025.37	7,168.77	21.44	21.69	77.14	579.90	-286.83	879.33	835.88	43.46	20.235		
8,300.00	7,364.67	8,125.37	7,168.95	22.46	22.72	77.14	580.08	-386.83	879.27	833.81	45.46	19.341		
8,400.00	7,364.79	8,225.37	7,169.13	23.54	23.82	77.14	580.26	-486.83	879.20	831.59	47.61	18.467		
8,500.00	7,364.92	8,325.37	7,169.31	24.70	24.98	77.14	580.44	-586.83	879.14	829.25	49.89	17.623		
8,600.00	7,365.05	8,425.37	7,169.49	25.91	26.20	77.15	580.62	-686.83	879.07	826.80	52.27	16.818		
8,700.00	7,365.18	8,525.37	7,169.66	27.17	27.47	77.15	580.80	-786.83	879.01	824.26	54.75	16.054		
8,800.00	7,365.31	8,625.37	7,169.84	28.47	28.77	77.15	580.98	-886.83	878.94	821.63	57.31	15.335		
8,900.00	7,365.43	8,725.37	7,170.02	29.81	30.11	77.15	581.16	-986.83	878.88	818.93	59.95	14.660		
9,000.00	7,365.56	8,825.37	7,170.20	31.19	31.49	77.16	581.34	-1,086.83	878.81	816.16	62.65	14.028		
9,100.00	7,365.69	8,925.37	7,170.38	32.59	32.89	77.16	581.52	-1,186.83	878.75	813.35	65.40	13.437		
9,200.00	7,365.82	9,025.37	7,170.56	34.01	34.31	77.16	581.70	-1,286.83	878.68	810.48	68.20	12.884		
9,300.00	7,365.95	9,125.37	7,170.74	35.46	35.76	77.16	581.88	-1,386.83	878.62	807.57	71.04	12.367		
9,400.00	7,366.08	9,225.37	7,170.92	36.92	37.22	77.17	582.06	-1,486.83	878.55	804.63	73.92	11.884		
9,500.00	7,366.20	9,325.37	7,171.10	38.40	38.70	77.17	582.24	-1,586.83	878.48	801.65	76.84	11.433		
9,600.00	7,366.33	9,425.37	7,171.28	39.90	40.20	77.17	582.42	-1,686.83	878.42	798.64	79.78	11.010		
9,700.00	7,366.46	9,525.37	7,171.46	41.41	41.71	77.17	582.60	-1,786.83	878.35	795.60	82.75	10.614		
9,800.00	7,366.59	9,625.37	7,171.63	42.93	43.23	77.18	582.78	-1,886.83	878.29	792.54	85.75	10.243		
9,900.00	7,366.72	9,725.37	7,171.81	44.47	44.76	77.18	582.96	-1,986.82	878.22	789.46	88.76	9.894		
10,000.00	7,366.84	9,825.37	7,171.99	46.01	46.30	77.18	583.14	-2,086.82	878.16	786.36	91.79	9.567		
10,100.00	7,366.97	9,925.37	7,172.17	47.56	47.85	77.18	583.32	-2,186.82	878.09	783.25	94.85	9.258		
10,200.00	7,367.10	10,025.37	7,172.35	49.12	49.41	77.18	583.50	-2,286.82	878.03	780.11	97.91	8.967		
10,300.00	7,367.23	10,125.37	7,172.53	50.68	50.98	77.19	583.68	-2,386.82	877.96	776.97	100.99	8.693		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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	7,367.36	10,225.37	7,172.71	52.26	52.55	77.19	583.86	-2,486.82	877.90	773.81	104.09	8.434		
10,500.00	7,367.49	10,325.37	7,172.89	53.84	54.13	77.19	584.04	-2,586.82	877.83	770.64	107.19	8.189		
10,600.00	7,367.61	10,425.37	7,173.07	55.42	55.71	77.19	584.22	-2,686.82	877.77	767.45	110.31	7.957		
10,700.00	7,367.74	10,525.37	7,173.25	57.01	57.30	77.20	584.39	-2,786.82	877.70	764.26	113.44	7.737		
10,800.00	7,367.87	10,625.37	7,173.43	58.60	58.89	77.20	584.57	-2,886.82	877.64	761.06	116.57	7.529		
10,900.00	7,368.00	10,725.37	7,173.61	60.20	60.49	77.20	584.75	-2,986.82	877.57	757.85	119.72	7.330		
11,000.00	7,368.13	10,825.37	7,173.78	61.80	62.09	77.20	584.93	-3,086.82	877.50	754.63	122.87	7.142		
11,100.00	7,368.25	10,925.37	7,173.96	63.41	63.70	77.21	585.11	-3,186.82	877.44	751.41	126.03	6.962		
11,200.00	7,368.38	11,025.37	7,174.14	65.02	65.30	77.21	585.29	-3,286.82	877.37	748.18	129.20	6.791		
11,300.00	7,368.51	11,125.37	7,174.32	66.63	66.92	77.21	585.47	-3,386.82	877.31	744.94	132.37	6.628		
11,400.00	7,368.64	11,225.37	7,174.50	68.24	68.53	77.21	585.65	-3,486.82	877.24	741.70	135.55	6.472		
11,500.00	7,368.77	11,325.37	7,174.68	69.86	70.15	77.22	585.83	-3,586.82	877.18	738.45	138.73	6.323		
11,600.00	7,368.90	11,425.37	7,174.86	71.48	71.77	77.22	586.01	-3,686.82	877.11	735.19	141.92	6.180		
11,700.00	7,369.02	11,525.37	7,175.04	73.10	73.39	77.22	586.19	-3,786.82	877.05	731.94	145.11	6.044		
11,800.00	7,369.15	11,625.37	7,175.22	74.73	75.01	77.22	586.37	-3,886.82	876.98	728.67	148.31	5.913		
11,900.00	7,369.28	11,725.37	7,175.40	76.36	76.64	77.23	586.55	-3,986.82	876.92	725.41	151.51	5.788		
12,000.00	7,369.41	11,825.37	7,175.58	77.98	78.27	77.23	586.73	-4,086.82	876.85	722.13	154.72	5.667		
12,100.00	7,369.54	11,925.37	7,175.76	79.61	79.90	77.23	586.91	-4,186.82	876.79	718.86	157.93	5.552		
12,200.00	7,369.66	12,025.37	7,175.93	81.25	81.53	77.23	587.09	-4,286.82	876.72	715.58	161.14	5.441		
12,300.00	7,369.79	12,125.37	7,176.11	82.88	83.16	77.24	587.27	-4,386.82	876.66	712.30	164.35	5.334		
12,400.00	7,369.92	12,225.37	7,176.29	84.52	84.79	77.24	587.45	-4,486.82	876.59	709.02	167.57	5.231		
12,500.00	7,370.05	12,325.37	7,176.47	86.15	86.43	77.24	587.63	-4,586.82	876.53	705.73	170.79	5.132		
12,600.00	7,370.18	12,425.37	7,176.65	87.79	88.07	77.24	587.81	-4,686.82	876.46	702.44	174.02	5.037		
12,700.00	7,370.30	12,525.37	7,176.83	89.43	89.71	77.25	587.99	-4,786.82	876.39	699.15	177.25	4.945		
12,800.00	7,370.43	12,625.37	7,177.01	91.07	91.35	77.25	588.17	-4,886.81	876.33	695.85	180.48	4.856		
12,900.00	7,370.56	12,725.37	7,177.19	92.71	92.99	77.25	588.35	-4,986.81	876.26	692.56	183.71	4.770		
13,000.00	7,370.69	12,825.37	7,177.37	94.35	94.63	77.25	588.53	-5,086.81	876.20	689.26	186.94	4.687		
13,100.00	7,370.82	12,925.37	7,177.55	96.00	96.27	77.26	588.71	-5,186.81	876.13	685.96	190.18	4.607		
13,200.00	7,370.95	13,025.37	7,177.73	97.64	97.92	77.26	588.89	-5,286.81	876.07	682.65	193.41	4.529		
13,300.00	7,371.07	13,125.37	7,177.90	99.29	99.56	77.26	589.07	-5,386.81	876.00	679.35	196.65	4.455		
13,400.00	7,371.20	13,225.37	7,178.08	100.93	101.21	77.26	589.25	-5,486.81	875.94	676.04	199.90	4.382		
13,500.00	7,371.33	13,325.37	7,178.26	102.58	102.85	77.27	589.43	-5,586.81	875.87	672.73	203.14	4.312		
13,600.00	7,371.46	13,425.37	7,178.44	104.23	104.50	77.27	589.61	-5,686.81	875.81	669.42	206.38	4.244		
13,700.00	7,371.59	13,525.37	7,178.62	105.88	106.15	77.27	589.79	-5,786.81	875.74	666.11	209.63	4.178		
13,800.00	7,371.71	13,625.37	7,178.80	107.53	107.80	77.27	589.97	-5,886.81	875.68	662.80	212.88	4.114		
13,900.00	7,371.84	13,725.37	7,178.98	109.18	109.45	77.28	590.15	-5,986.81	875.61	659.49	216.13	4.051		
14,000.00	7,371.97	13,825.37	7,179.16	110.83	111.10	77.28	590.33	-6,086.81	875.55	656.17	219.38	3.991		
14,100.00	7,372.10	13,925.37	7,179.34	112.48	112.75	77.28	590.51	-6,186.81	875.48	652.85	222.63	3.932		
14,200.00	7,372.23	14,025.37	7,179.52	114.13	114.40	77.28	590.69	-6,286.81	875.42	649.53	225.88	3.876		
14,300.00	7,372.36	14,125.37	7,179.70	115.78	116.05	77.29	590.87	-6,386.81	875.35	646.21	229.14	3.820		
14,400.00	7,372.48	14,225.37	7,179.88	117.44	117.71	77.29	591.05	-6,486.81	875.29	642.89	232.39	3.766		
14,500.00	7,372.61	14,325.36	7,180.05	119.09	119.36	77.29	591.23	-6,586.81	875.22	639.57	235.65	3.714		
14,600.00	7,372.74	14,425.36	7,180.23	120.74	121.01	77.29	591.41	-6,686.81	875.15	636.25	238.91	3.663		
14,700.00	7,372.87	14,525.36	7,180.41	122.40	122.67	77.30	591.59	-6,786.81	875.09	632.93	242.16	3.614		
14,800.00	7,373.00	14,625.36	7,180.59	124.05	124.32	77.30	591.77	-6,886.81	875.02	629.60	245.42	3.565		
14,900.00	7,373.12	14,725.36	7,180.77	125.71	125.98	77.30	591.95	-6,986.81	874.96	626.28	248.68	3.518		
15,000.00	7,373.25	14,825.36	7,180.95	127.36	127.63	77.30	592.13	-7,086.81	874.89	622.95	251.94	3.473		
15,100.00	7,373.38	14,925.36	7,181.13	129.02	129.29	77.31	592.31	-7,186.81	874.83	619.62	255.21	3.428		
15,200.00	7,373.51	15,025.36	7,181.31	130.68	130.94	77.31	592.48	-7,286.81	874.76	616.29	258.47	3.384		
15,300.00	7,373.64	15,125.36	7,181.49	132.33	132.60	77.31	592.66	-7,386.81	874.70	612.96	261.73	3.342		
15,400.00	7,373.77	15,225.36	7,181.67	133.99	134.26	77.31	592.84	-7,486.81	874.63	609.63	265.00	3.301		
15,500.00	7,373.89	15,325.36	7,181.85	135.65	135.92	77.31	593.02	-7,586.81	874.57	606.30	268.26	3.260		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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							
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
15,583.33	7,374.00	15,408.69	7,182.00	137.03	137.30	77.32	593.17	-7,670.13	874.51	603.53	270.98	3.227 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.73	-60.11	0.28	60.11					
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-60.11	0.28	60.11	52.58	7.53	7.984		
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-60.11	0.28	60.11	52.54	7.57	7.936 CC, ES		
300.00	299.98	298.68	298.66	3.35	3.35	71.83	-61.18	1.59	60.65	53.00	7.65	7.924		
400.00	399.84	397.33	397.18	3.41	3.41	72.68	-64.41	5.54	62.30	54.53	7.77	8.018		
500.00	499.45	495.94	495.42	3.50	3.49	74.01	-69.78	12.10	65.07	57.13	7.93	8.201		
600.00	598.73	594.49	593.24	3.62	3.60	75.54	-77.28	21.26	69.04	60.89	8.15	8.468		
700.00	697.91	706.64	690.95	3.76	3.78	75.45	-86.84	32.94	74.74	66.29	8.45	8.843		
800.00	797.10	806.83	789.46	3.93	3.96	74.92	-96.99	45.34	80.91	72.12	8.79	9.204		
900.00	896.28	907.03	887.98	4.12	4.18	74.46	-107.14	57.74	87.09	77.92	9.17	9.495		
1,000.00	995.47	992.78	986.49	4.33	4.38	74.06	-117.29	70.15	93.28	83.72	9.56	9.758		
1,100.00	1,094.65	1,092.59	1,085.00	4.56	4.64	73.71	-127.44	82.55	99.46	89.46	10.01	9.940		
1,200.00	1,193.84	1,207.61	1,183.51	4.80	4.95	73.40	-137.60	94.95	105.65	95.13	10.52	10.043		
1,300.00	1,293.02	1,307.80	1,282.02	5.05	5.23	73.13	-147.75	107.35	111.85	100.83	11.02	10.149		
1,400.00	1,392.21	1,392.01	1,380.53	5.31	5.48	72.88	-157.90	119.75	118.04	106.54	11.50	10.266		
1,500.00	1,491.39	1,508.19	1,479.05	5.58	5.84	72.66	-168.05	132.15	124.24	112.16	12.08	10.285		
1,600.00	1,590.58	1,608.38	1,577.56	5.86	6.16	72.46	-178.20	144.55	130.44	117.81	12.63	10.326		
1,700.00	1,689.76	1,708.57	1,676.07	6.15	6.48	72.28	-188.35	156.96	136.64	123.44	13.20	10.354		
1,800.00	1,788.95	1,808.77	1,774.58	6.43	6.79	72.11	-198.50	169.36	142.84	129.08	13.76	10.381		
1,900.00	1,888.13	1,908.96	1,873.09	6.59	6.96	71.96	-208.65	181.76	149.04	135.37	13.68	10.899		
2,000.00	1,987.32	2,009.15	1,971.60	6.62	7.00	71.82	-218.80	194.16	155.25	141.52	13.73	11.307		
2,100.00	2,086.50	2,109.35	2,070.12	6.66	7.05	71.69	-228.95	206.56	161.45	147.64	13.82	11.686		
2,200.00	2,185.69	2,209.54	2,168.63	6.72	7.12	71.57	-239.10	218.96	167.66	153.73	13.93	12.035		
2,300.00	2,284.87	2,309.73	2,267.14	6.79	7.21	71.46	-249.25	231.37	173.86	159.79	14.07	12.353		
2,400.00	2,384.06	2,409.93	2,365.65	6.88	7.31	71.35	-259.40	243.77	180.07	165.82	14.25	12.640		
2,500.00	2,483.24	2,489.88	2,464.16	6.98	7.40	71.26	-269.55	256.17	186.28	171.85	14.42	12.916		
2,600.00	2,582.43	2,589.69	2,562.67	7.09	7.53	71.17	-279.70	268.57	192.48	177.84	14.64	13.145		
2,700.00	2,681.61	2,689.49	2,661.19	7.22	7.67	71.08	-289.85	280.97	198.69	183.80	14.89	13.346		
2,800.00	2,780.80	2,789.30	2,759.70	7.35	7.82	71.00	-300.00	293.37	204.90	189.74	15.16	13.519		
2,900.00	2,879.98	2,889.11	2,858.21	7.50	7.98	70.93	-310.15	305.77	211.11	195.66	15.45	13.667		
3,000.00	2,979.17	2,988.91	2,956.72	7.66	8.16	70.86	-320.31	318.18	217.32	201.56	15.76	13.792		
3,100.00	3,078.35	3,088.72	3,055.23	7.82	8.34	70.79	-330.46	330.58	223.53	207.44	16.09	13.895		
3,200.00	3,177.54	3,188.53	3,153.74	8.00	8.53	70.73	-340.61	342.98	229.74	213.30	16.44	13.978		
3,300.00	3,276.72	3,288.33	3,252.26	8.18	8.74	70.67	-350.76	355.38	235.95	219.15	16.80	14.044		
3,400.00	3,375.91	3,388.14	3,350.77	8.37	8.95	70.61	-360.91	367.78	242.16	224.98	17.18	14.094		
3,500.00	3,475.09	3,487.95	3,449.28	8.57	9.17	70.55	-371.06	380.18	248.37	230.79	17.58	14.130		
3,600.00	3,574.28	3,587.75	3,547.79	8.78	9.39	70.50	-381.21	392.59	254.58	236.59	17.99	14.153		
3,700.00	3,673.46	3,687.56	3,646.30	8.99	9.62	70.45	-391.36	404.99	260.79	242.38	18.41	14.166		
3,800.00	3,772.65	3,787.37	3,744.81	9.21	9.86	70.41	-401.51	417.39	267.00	248.16	18.84	14.169		
3,900.00	3,871.83	3,887.17	3,843.33	9.43	10.11	70.36	-411.66	429.79	273.21	253.92	19.29	14.164		
4,000.00	3,971.02	3,986.98	3,941.84	9.66	10.36	70.32	-421.81	442.19	279.43	259.68	19.75	14.151		
4,100.00	4,070.20	4,086.79	4,040.35	9.89	10.61	70.28	-431.96	454.59	285.64	265.43	20.21	14.133		
4,200.00	4,169.39	4,186.59	4,138.86	10.13	10.87	70.24	-442.11	467.00	291.85	271.16	20.69	14.109		
4,300.00	4,268.57	4,286.40	4,237.37	10.37	11.13	70.20	-452.26	479.40	298.06	276.89	21.17	14.081		
4,400.00	4,367.76	4,386.21	4,335.88	10.62	11.40	70.17	-462.41	491.80	304.27	282.61	21.66	14.049		
4,500.00	4,466.94	4,486.01	4,434.40	10.87	11.67	70.13	-472.56	504.20	310.48	288.33	22.16	14.014		
4,600.00	4,566.13	4,585.82	4,532.91	11.12	11.95	70.10	-482.71	516.60	316.70	294.04	22.66	13.976		
4,700.00	4,665.31	4,685.63	4,631.42	11.38	12.23	70.07	-492.86	529.00	322.91	299.74	23.17	13.936		
4,800.00	4,764.50	4,785.43	4,729.93	11.63	12.51	70.04	-503.02	541.40	329.12	305.44	23.69	13.895		
4,900.00	4,863.68	4,885.24	4,828.44	11.90	12.79	70.01	-513.17	553.81	335.33	311.13	24.21	13.852		
5,000.00	4,962.87	4,985.05	4,926.95	12.16	13.08	69.98	-523.32	566.21	341.55	316.81	24.74	13.808		
5,100.00	5,062.05	5,084.85	5,025.47	12.43	13.37	69.95	-533.47	578.61	347.76	322.49	25.27	13.764		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
5,200.00	5,161.24	5,184.66	5,123.98	12.70	13.66	69.93	-543.62	591.01	353.97	328.17	25.80	13.718		
5,300.00	5,260.42	5,284.47	5,222.49	12.97	13.95	69.90	-553.77	603.41	360.18	333.84	26.34	13.673		
5,400.00	5,359.61	5,384.27	5,321.00	13.24	14.25	69.88	-563.92	615.81	366.40	339.51	26.89	13.627		
5,500.00	5,458.79	5,484.08	5,419.51	13.52	14.55	69.85	-574.07	628.22	372.61	345.18	27.44	13.581		
5,600.00	5,557.98	5,583.89	5,518.02	13.79	14.85	69.83	-584.22	640.62	378.82	350.84	27.99	13.536		
5,700.00	5,657.16	5,683.69	5,616.54	14.07	15.15	69.81	-594.37	653.02	385.04	356.50	28.54	13.490		
5,800.00	5,756.35	5,783.50	5,715.05	14.35	15.45	69.79	-604.52	665.42	391.25	362.15	29.10	13.445		
5,900.00	5,855.53	5,883.31	5,813.56	14.63	15.76	69.77	-614.67	677.82	397.46	367.80	29.66	13.401		
6,000.00	5,954.72	5,983.11	5,912.07	14.91	16.06	69.75	-624.82	690.22	403.68	373.45	30.22	13.356		
6,100.00	6,053.90	6,082.92	6,010.58	15.20	16.37	69.73	-634.97	702.62	409.89	379.10	30.79	13.313		
6,200.00	6,153.09	6,182.73	6,109.09	15.48	16.68	69.71	-645.12	715.03	416.10	384.74	31.36	13.269		
6,300.00	6,252.27	6,282.53	6,207.60	15.77	16.99	69.69	-655.27	727.43	422.32	390.39	31.93	13.227		
6,400.00	6,351.46	6,382.34	6,306.12	16.06	17.30	69.67	-665.42	739.83	428.53	396.03	32.50	13.185		
6,500.00	6,450.64	6,482.15	6,404.63	16.34	17.61	69.65	-675.57	752.23	434.74	401.67	33.08	13.143		
6,600.00	6,549.83	6,582.92	6,504.28	16.63	17.88	69.88	-685.84	762.88	440.90	407.27	33.64	13.108		
6,700.00	6,649.01	6,682.36	6,603.05	16.92	18.05	71.83	-695.96	759.86	446.96	412.76	34.20	13.070		
6,800.00	6,748.73	6,777.38	6,695.92	17.13	18.16	-36.07	-705.43	742.57	453.92	419.28	34.63	13.106		
6,900.00	6,847.93	6,869.49	6,782.54	17.25	18.23	-71.55	-714.21	712.74	461.82	426.92	34.90	13.234		
7,000.00	6,944.17	6,959.12	6,861.86	17.33	18.26	-73.89	-722.21	671.96	470.25	435.23	35.02	13.429		
7,100.00	7,035.09	7,046.64	6,933.09	17.37	18.27	-73.26	-729.34	621.72	478.80	443.77	35.03	13.667		
7,200.00	7,118.44	7,132.42	6,995.61	17.39	18.26	-71.99	-735.55	563.42	487.04	452.04	35.00	13.916		
7,300.00	7,192.18	7,216.78	7,048.95	17.41	18.25	-70.67	-740.80	498.35	494.59	459.61	34.98	14.139		
7,400.00	7,254.49	7,300.00	7,092.74	17.45	18.23	-69.49	-745.05	427.78	501.11	466.07	35.05	14.299		
7,500.00	7,303.82	7,382.40	7,126.72	17.54	18.23	-68.55	-748.27	352.85	506.32	471.05	35.27	14.356		
7,600.00	7,338.98	7,464.18	7,150.65	17.72	18.26	-67.90	-750.46	274.74	510.01	474.32	35.69	14.290		
7,700.00	7,359.09	7,545.59	7,164.40	18.02	18.34	-67.55	-751.59	194.56	512.01	475.68	36.33	14.092		
7,800.00	7,364.03	7,630.19	7,168.03	18.43	18.56	-67.51	-751.67	110.08	512.34	475.12	37.22	13.765		
7,900.00	7,364.15	7,730.19	7,168.19	19.00	19.04	-67.51	-751.34	10.09	512.24	473.82	38.42	13.333		
8,000.00	7,364.28	7,830.19	7,168.36	19.70	19.72	-67.51	-751.00	-89.91	512.13	472.30	39.83	12.858		
8,100.00	7,364.41	7,930.19	7,168.53	20.52	20.55	-67.51	-750.67	-189.91	512.03	470.59	41.44	12.356		
8,200.00	7,364.54	8,030.19	7,168.69	21.44	21.48	-67.51	-750.34	-289.91	511.93	468.71	43.22	11.845		
8,300.00	7,364.67	8,130.19	7,168.86	22.46	22.50	-67.51	-750.01	-389.91	511.82	466.67	45.15	11.335		
8,400.00	7,364.79	8,230.19	7,169.03	23.54	23.60	-67.51	-749.68	-489.91	511.72	464.50	47.22	10.837		
8,500.00	7,364.92	8,330.19	7,169.19	24.70	24.76	-67.51	-749.35	-589.91	511.62	462.21	49.40	10.356		
8,600.00	7,365.05	8,430.19	7,169.36	25.91	25.98	-67.51	-749.02	-689.91	511.51	459.83	51.69	9.896		
8,700.00	7,365.18	8,530.19	7,169.53	27.17	27.24	-67.51	-748.69	-789.91	511.41	457.35	54.06	9.460		
8,800.00	7,365.31	8,630.19	7,169.69	28.47	28.54	-67.51	-748.36	-889.91	511.31	454.80	56.51	9.048		
8,900.00	7,365.43	8,730.19	7,169.86	29.81	29.88	-67.51	-748.03	-989.91	511.21	452.17	59.03	8.660		
9,000.00	7,365.56	8,830.19	7,170.03	31.19	31.25	-67.51	-747.70	-1,089.91	511.10	449.49	61.61	8.296		
9,100.00	7,365.69	8,930.19	7,170.19	32.59	32.65	-67.51	-747.37	-1,189.91	511.00	446.76	64.24	7.955		
9,200.00	7,365.82	9,030.19	7,170.36	34.01	34.08	-67.51	-747.04	-1,289.90	510.90	443.98	66.91	7.635		
9,300.00	7,365.95	9,130.19	7,170.53	35.46	35.52	-67.51	-746.71	-1,389.90	510.79	441.16	69.63	7.336		
9,400.00	7,366.08	9,230.19	7,170.69	36.92	36.99	-67.51	-746.37	-1,489.90	510.69	438.31	72.38	7.055		
9,500.00	7,366.20	9,330.19	7,170.86	38.40	38.47	-67.51	-746.04	-1,589.90	510.59	435.42	75.17	6.793		
9,600.00	7,366.33	9,430.19	7,171.03	39.90	39.96	-67.51	-745.71	-1,689.90	510.48	432.51	77.98	6.547		
9,700.00	7,366.46	9,530.19	7,171.19	41.41	41.47	-67.51	-745.38	-1,789.90	510.38	429.57	80.82	6.315		
9,800.00	7,366.59	9,630.19	7,171.36	42.93	42.99	-67.51	-745.05	-1,889.90	510.28	426.60	83.68	6.098		
9,900.00	7,366.72	9,730.19	7,171.53	44.47	44.52	-67.51	-744.72	-1,989.90	510.17	423.62	86.56	5.894		
10,000.00	7,366.84	9,830.19	7,171.69	46.01	46.06	-67.51	-744.39	-2,089.90	510.07	420.61	89.46	5.702		
10,100.00	7,366.97	9,930.19	7,171.86	47.56	47.61	-67.51	-744.06	-2,189.90	509.97	417.59	92.37	5.521		
10,200.00	7,367.10	10,030.19	7,172.03	49.12	49.17	-67.51	-743.73	-2,289.90	509.87	414.56	95.31	5.350		
10,300.00	7,367.23	10,130.19	7,172.19	50.68	50.73	-67.51	-743.40	-2,389.90	509.76	411.51	98.25	5.188		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
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	7,367.36	10,230.19	7,172.36	52.26	52.30	-67.51	-743.07	-2,489.90	509.66	408.45	101.21	5.036	
10,500.00	7,367.49	10,330.19	7,172.53	53.84	53.88	-67.50	-742.74	-2,589.90	509.56	405.38	104.18	4.891	
10,600.00	7,367.61	10,430.19	7,172.69	55.42	55.46	-67.50	-742.41	-2,689.89	509.45	402.29	107.16	4.754	
10,700.00	7,367.74	10,530.19	7,172.86	57.01	57.05	-67.50	-742.08	-2,789.89	509.35	399.20	110.15	4.624	
10,800.00	7,367.87	10,630.19	7,173.03	58.60	58.64	-67.50	-741.74	-2,889.89	509.25	396.10	113.15	4.501	
10,900.00	7,368.00	10,730.19	7,173.20	60.20	60.24	-67.50	-741.41	-2,989.89	509.14	392.99	116.16	4.383	
11,000.00	7,368.13	10,830.19	7,173.36	61.80	61.84	-67.50	-741.08	-3,089.89	509.04	389.87	119.17	4.271	
11,100.00	7,368.25	10,930.19	7,173.53	63.41	63.44	-67.50	-740.75	-3,189.89	508.94	386.74	122.20	4.165	
11,200.00	7,368.38	11,030.19	7,173.70	65.02	65.05	-67.50	-740.42	-3,289.89	508.83	383.61	125.22	4.063	
11,300.00	7,368.51	11,130.19	7,173.86	66.63	66.66	-67.50	-740.09	-3,389.89	508.73	380.47	128.26	3.966	
11,400.00	7,368.64	11,230.19	7,174.03	68.24	68.27	-67.50	-739.76	-3,489.89	508.63	377.33	131.30	3.874	
11,500.00	7,368.77	11,330.19	7,174.20	69.86	69.89	-67.50	-739.43	-3,589.89	508.53	374.18	134.35	3.785	
11,600.00	7,368.90	11,430.19	7,174.36	71.48	71.51	-67.50	-739.10	-3,689.89	508.42	371.03	137.40	3.700	
11,700.00	7,369.02	11,530.19	7,174.53	73.10	73.13	-67.50	-738.77	-3,789.89	508.32	367.87	140.45	3.619	
11,800.00	7,369.15	11,630.19	7,174.70	74.73	74.75	-67.50	-738.44	-3,889.89	508.22	364.70	143.51	3.541	
11,900.00	7,369.28	11,730.19	7,174.86	76.36	76.38	-67.50	-738.11	-3,989.88	508.11	361.54	146.58	3.467	
12,000.00	7,369.41	11,830.19	7,175.03	77.98	78.01	-67.50	-737.78	-4,089.88	508.01	358.37	149.64	3.395	
12,100.00	7,369.54	11,930.19	7,175.20	79.61	79.63	-67.50	-737.44	-4,189.88	507.91	355.19	152.71	3.326	
12,200.00	7,369.66	12,030.19	7,175.36	81.25	81.27	-67.50	-737.11	-4,289.88	507.80	352.02	155.79	3.260	
12,300.00	7,369.79	12,130.19	7,175.53	82.88	82.90	-67.50	-736.78	-4,389.88	507.70	348.83	158.87	3.196	
12,400.00	7,369.92	12,230.19	7,175.70	84.52	84.53	-67.50	-736.45	-4,489.88	507.60	345.65	161.95	3.134	
12,500.00	7,370.05	12,330.19	7,175.86	86.15	86.17	-67.50	-736.12	-4,589.88	507.50	342.46	165.03	3.075	
12,600.00	7,370.18	12,430.19	7,176.03	87.79	87.80	-67.50	-735.79	-4,689.88	507.39	339.28	168.12	3.018	
12,700.00	7,370.30	12,530.19	7,176.20	89.43	89.44	-67.50	-735.46	-4,789.88	507.29	336.08	171.21	2.963	
12,800.00	7,370.43	12,630.19	7,176.36	91.07	91.08	-67.50	-735.13	-4,889.88	507.19	332.89	174.30	2.910	
12,900.00	7,370.56	12,730.19	7,176.53	92.71	92.72	-67.50	-734.80	-4,989.88	507.08	329.69	177.39	2.859	
13,000.00	7,370.69	12,830.19	7,176.70	94.35	94.36	-67.50	-734.47	-5,089.88	506.98	326.50	180.48	2.809	
13,100.00	7,370.82	12,930.19	7,176.86	96.00	96.01	-67.50	-734.14	-5,189.88	506.88	323.29	183.58	2.761	
13,200.00	7,370.95	13,030.19	7,177.03	97.64	97.65	-67.50	-733.81	-5,289.88	506.77	320.09	186.68	2.715	
13,300.00	7,371.07	13,130.19	7,177.20	99.29	99.30	-67.50	-733.48	-5,389.87	506.67	316.89	189.78	2.670	
13,400.00	7,371.20	13,230.19	7,177.36	100.93	100.94	-67.50	-733.15	-5,489.87	506.57	313.68	192.88	2.626	
13,500.00	7,371.33	13,330.19	7,177.53	102.58	102.59	-67.50	-732.81	-5,589.87	506.46	310.48	195.99	2.584	
13,600.00	7,371.46	13,430.19	7,177.70	104.23	104.23	-67.50	-732.48	-5,689.87	506.36	307.27	199.10	2.543	
13,700.00	7,371.59	13,530.19	7,177.86	105.88	105.88	-67.50	-732.15	-5,789.87	506.26	304.06	202.20	2.504	
13,800.00	7,371.71	13,630.19	7,178.03	107.53	107.53	-67.50	-731.82	-5,889.87	506.16	300.84	205.31	2.465	
13,900.00	7,371.84	13,730.19	7,178.20	109.18	109.18	-67.50	-731.49	-5,989.87	506.05	297.63	208.42	2.428	
14,000.00	7,371.97	13,830.19	7,178.36	110.83	110.83	-67.50	-731.16	-6,089.87	505.95	294.42	211.53	2.392	
14,100.00	7,372.10	13,930.19	7,178.53	112.48	112.48	-67.50	-730.83	-6,189.87	505.85	291.20	214.65	2.357	
14,200.00	7,372.23	14,030.19	7,178.70	114.13	114.13	-67.50	-730.50	-6,289.87	505.74	287.98	217.76	2.322	
14,300.00	7,372.36	14,130.19	7,178.86	115.78	115.78	-67.50	-730.17	-6,389.87	505.64	284.76	220.88	2.289	
14,400.00	7,372.48	14,230.19	7,179.03	117.44	117.44	-67.50	-729.84	-6,489.87	505.54	281.54	223.99	2.257	
14,500.00	7,372.61	14,330.19	7,179.20	119.09	119.09	-67.50	-729.51	-6,589.87	505.43	278.32	227.11	2.226	
14,600.00	7,372.74	14,430.19	7,179.37	120.74	120.74	-67.50	-729.18	-6,689.87	505.33	275.10	230.23	2.195	
14,700.00	7,372.87	14,530.19	7,179.53	122.40	122.40	-67.50	-728.85	-6,789.86	505.23	271.88	233.35	2.165	
14,800.00	7,373.00	14,630.19	7,179.70	124.05	124.05	-67.50	-728.52	-6,889.86	505.12	268.66	236.47	2.136	
14,900.00	7,373.12	14,730.19	7,179.87	125.71	125.71	-67.50	-728.18	-6,989.86	505.02	265.43	239.59	2.108	
15,000.00	7,373.25	14,830.19	7,180.03	127.36	127.36	-67.50	-727.85	-7,089.86	504.92	262.21	242.71	2.080	
15,100.00	7,373.38	14,930.19	7,180.20	129.02	129.02	-67.50	-727.52	-7,189.86	504.82	258.98	245.83	2.053	
15,200.00	7,373.51	15,030.19	7,180.37	130.68	130.67	-67.50	-727.19	-7,289.86	504.71	255.75	248.96	2.027	
15,300.00	7,373.64	15,130.19	7,180.53	132.33	132.33	-67.50	-726.86	-7,389.86	504.61	252.53	252.08	2.002	
15,400.00	7,373.77	15,230.19	7,180.70	133.99	133.99	-67.50	-726.53	-7,489.86	504.51	249.30	255.21	1.977	
15,500.00	7,373.89	15,330.19	7,180.87	135.65	135.65	-67.50	-726.20	-7,589.86	504.40	246.07	258.33	1.953	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 31N-30B-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
15,578.78	7,373.99	15,408.97	7,181.00	136.96	136.95	-67.50	-725.94	-7,668.64	504.32	243.53	260.80	1.934	
15,583.33	7,374.00	15,410.68	7,181.00	137.03	136.98	-67.50	-725.93	-7,670.35	504.33	243.39	260.93	1.933 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.60	-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	299.30	299.28	3.35	3.35	71.61	-40.92	1.77	40.38	32.73	7.66	5.275		
400.00	399.84	398.60	398.44	3.41	3.41	72.22	-43.47	6.26	41.32	33.54	7.77	5.315		
500.00	499.45	497.89	497.35	3.50	3.49	73.18	-47.72	13.73	42.88	34.94	7.94	5.399		
600.00	598.73	597.15	595.88	3.62	3.61	74.17	-53.65	24.18	45.14	36.98	8.17	5.527		
700.00	697.91	702.96	694.76	3.76	3.77	73.78	-60.63	36.46	48.14	39.68	8.46	5.690		
800.00	797.10	803.01	793.71	3.93	3.95	73.41	-67.62	48.77	51.15	42.36	8.80	5.815		
900.00	896.28	903.05	892.66	4.12	4.15	73.09	-74.61	61.07	54.17	44.99	9.17	5.904		
1,000.00	995.47	1,003.10	991.60	4.33	4.37	72.80	-81.60	73.38	57.18	47.59	9.59	5.964		
1,100.00	1,094.65	1,096.85	1,090.55	4.56	4.59	72.53	-88.59	85.68	60.20	50.18	10.02	6.009		
1,200.00	1,193.84	1,203.19	1,189.50	4.80	4.86	72.30	-95.58	97.99	63.21	52.71	10.50	6.019		
1,300.00	1,293.02	1,303.24	1,288.45	5.05	5.13	72.08	-102.57	110.29	66.23	55.23	11.00	6.023		
1,400.00	1,392.21	1,403.28	1,387.39	5.31	5.41	71.89	-109.56	122.60	69.25	57.74	11.51	6.017		
1,500.00	1,491.39	1,503.33	1,486.34	5.58	5.69	71.71	-116.55	134.91	72.27	60.23	12.04	6.003		
1,600.00	1,590.58	1,596.63	1,585.29	5.86	5.97	71.54	-123.54	147.21	75.29	62.72	12.56	5.992		
1,700.00	1,689.76	1,696.58	1,684.23	6.15	6.27	71.39	-130.53	159.52	78.31	65.19	13.12	5.968		
1,800.00	1,788.95	1,803.47	1,783.18	6.43	6.59	71.25	-137.52	171.82	81.33	67.63	13.70	5.935		
1,900.00	1,888.13	1,896.49	1,882.13	6.59	6.74	71.12	-144.51	184.13	84.35	70.74	13.62	6.195		
2,000.00	1,987.32	2,003.56	1,981.08	6.62	6.78	70.99	-151.50	196.43	87.37	73.70	13.68	6.389		
2,100.00	2,086.50	2,103.60	2,080.02	6.66	6.83	70.88	-158.49	208.74	90.39	76.63	13.76	6.570		
2,200.00	2,185.69	2,203.65	2,178.97	6.72	6.89	70.77	-165.49	221.05	93.42	79.54	13.87	6.734		
2,300.00	2,284.87	2,296.30	2,277.92	6.79	6.97	70.67	-172.48	233.35	96.44	82.43	14.01	6.885		
2,400.00	2,384.06	2,403.74	2,376.86	6.88	7.06	70.58	-179.47	245.66	99.46	85.28	14.18	7.014		
2,500.00	2,483.24	2,503.79	2,475.81	6.98	7.17	70.49	-186.46	257.96	102.49	88.11	14.37	7.130		
2,600.00	2,582.43	2,603.83	2,574.76	7.09	7.29	70.41	-193.45	270.27	105.51	90.92	14.59	7.230		
2,700.00	2,681.61	2,703.88	2,673.71	7.22	7.42	70.33	-200.44	282.57	108.53	93.70	14.84	7.315		
2,800.00	2,780.80	2,803.92	2,772.65	7.35	7.56	70.26	-207.43	294.88	111.56	96.45	15.10	7.386		
2,900.00	2,879.98	2,903.97	2,871.60	7.50	7.72	70.19	-214.42	307.19	114.58	99.19	15.39	7.445		
3,000.00	2,979.17	3,004.02	2,970.55	7.66	7.88	70.12	-221.41	319.49	117.61	101.91	15.70	7.492		
3,100.00	3,078.35	3,104.06	3,069.49	7.82	8.06	70.06	-228.40	331.80	120.63	104.61	16.02	7.528		
3,200.00	3,177.54	3,204.11	3,168.44	8.00	8.24	70.00	-235.39	344.10	123.65	107.29	16.37	7.554		
3,300.00	3,276.72	3,304.15	3,267.39	8.18	8.43	69.94	-242.38	356.41	126.68	109.95	16.73	7.572		
3,400.00	3,375.91	3,404.20	3,366.34	8.37	8.64	69.88	-249.37	368.71	129.70	112.60	17.11	7.582		
3,500.00	3,475.09	3,504.25	3,465.28	8.57	8.84	69.83	-256.36	381.02	132.73	115.23	17.50	7.585		
3,600.00	3,574.28	3,604.29	3,564.23	8.78	9.06	69.78	-263.35	393.33	135.75	117.85	17.90	7.583		
3,700.00	3,673.46	3,704.34	3,663.18	8.99	9.28	69.73	-270.35	405.63	138.78	120.46	18.32	7.575		
3,800.00	3,772.65	3,804.38	3,762.12	9.21	9.51	69.69	-277.34	417.94	141.80	123.05	18.75	7.563		
3,900.00	3,871.83	3,904.43	3,861.07	9.43	9.74	69.64	-284.33	430.24	144.83	125.64	19.19	7.547		
4,000.00	3,971.02	4,004.47	3,960.02	9.66	9.98	69.60	-291.32	442.55	147.85	128.22	19.64	7.528		
4,100.00	4,070.20	4,104.52	4,058.97	9.89	10.22	69.56	-298.31	454.85	150.88	130.78	20.10	7.507		
4,200.00	4,169.39	4,204.57	4,157.91	10.13	10.47	69.52	-305.30	467.16	153.91	133.34	20.57	7.483		
4,300.00	4,268.57	4,304.61	4,256.86	10.37	10.72	69.49	-312.29	479.47	156.93	135.89	21.04	7.457		
4,400.00	4,367.76	4,404.66	4,355.81	10.62	10.98	69.45	-319.28	491.77	159.96	138.43	21.53	7.430		
4,500.00	4,466.94	4,504.70	4,454.75	10.87	11.24	69.41	-326.27	504.08	162.98	140.96	22.02	7.401		
4,600.00	4,566.13	4,604.75	4,553.70	11.12	11.50	69.38	-333.26	516.38	166.01	143.49	22.52	7.372		
4,700.00	4,665.31	4,704.80	4,652.65	11.38	11.77	69.35	-340.25	528.69	169.03	146.01	23.02	7.342		
4,800.00	4,764.50	4,804.84	4,751.60	11.63	12.04	69.32	-347.24	540.99	172.06	148.53	23.53	7.311		
4,900.00	4,863.68	4,904.89	4,850.54	11.90	12.31	69.29	-354.23	553.30	175.09	151.04	24.05	7.280		
5,000.00	4,962.87	5,004.93	4,949.49	12.16	12.58	69.26	-361.22	565.61	178.11	153.54	24.57	7.249		
5,100.00	5,062.05	5,104.98	5,048.44	12.43	12.86	69.23	-368.21	577.91	181.14	156.04	25.10	7.218		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,205.02	5,147.38	12.70	13.14	69.21	-375.20	590.22	184.16	158.54	25.63	7.187		
5,300.00	5,260.42	5,305.07	5,246.33	12.97	13.42	69.18	-382.20	602.52	187.19	161.03	26.16	7.156		
5,400.00	5,359.61	5,394.88	5,345.28	13.24	13.67	69.15	-389.19	614.83	190.22	163.55	26.67	7.132		
5,500.00	5,458.79	5,505.16	5,444.23	13.52	13.99	69.13	-396.18	627.14	193.24	166.00	27.24	7.094		
5,600.00	5,557.98	5,605.21	5,543.17	13.79	14.27	69.11	-403.17	639.44	196.27	168.48	27.78	7.064		
5,700.00	5,657.16	5,694.75	5,642.12	14.07	14.53	69.08	-410.16	651.75	199.29	170.99	28.30	7.041		
5,800.00	5,756.35	5,805.30	5,741.07	14.35	14.85	69.06	-417.15	664.05	202.32	173.44	28.88	7.005		
5,900.00	5,855.53	5,905.35	5,840.01	14.63	15.15	69.04	-424.14	676.36	205.35	175.91	29.44	6.976		
6,000.00	5,954.72	6,005.39	5,938.96	14.91	15.44	69.02	-431.13	688.66	208.37	178.38	29.99	6.947		
6,100.00	6,053.90	6,105.44	6,037.91	15.20	15.73	69.00	-438.12	700.97	211.40	180.85	30.55	6.919		
6,200.00	6,153.09	6,205.48	6,136.86	15.48	16.03	68.98	-445.11	713.28	214.43	183.31	31.12	6.891		
6,300.00	6,252.27	6,294.47	6,235.80	15.77	16.29	68.96	-452.10	725.58	217.45	185.80	31.65	6.871		
6,400.00	6,351.46	6,405.57	6,334.75	16.06	16.62	68.94	-459.09	737.89	220.48	188.23	32.25	6.837		
6,500.00	6,450.64	6,505.62	6,433.70	16.34	16.92	68.92	-466.08	750.19	223.51	190.69	32.82	6.811		
6,600.00	6,549.83	6,594.38	6,532.69	16.63	17.19	68.90	-473.08	762.50	226.53	193.18	33.35	6.792		
6,700.00	6,649.01	6,695.12	6,633.00	16.92	17.37	70.99	-480.15	766.48	229.32	195.39	33.93	6.759		
6,800.00	6,748.73	6,792.87	6,729.76	17.13	17.50	-36.05	-486.94	755.14	232.76	198.34	34.42	6.762		
6,900.00	6,847.93	6,888.35	6,821.51	17.25	17.57	-70.72	-493.35	729.87	237.22	202.50	34.72	6.832		
7,000.00	6,944.17	6,981.79	6,906.68	17.33	17.62	-72.33	-499.28	692.10	242.40	207.55	34.85	6.955		
7,100.00	7,035.09	7,073.47	6,984.01	17.37	17.63	-71.08	-504.63	643.30	247.96	213.12	34.84	7.117		
7,200.00	7,118.44	7,163.63	7,052.48	17.39	17.64	-69.30	-509.34	584.95	253.54	218.79	34.75	7.296		
7,300.00	7,192.18	7,252.52	7,111.27	17.41	17.64	-67.57	-513.36	518.49	258.81	224.16	34.65	7.469		
7,400.00	7,254.49	7,340.39	7,159.77	17.45	17.66	-66.07	-516.63	445.37	263.48	228.84	34.64	7.607		
7,500.00	7,303.82	7,427.47	7,197.47	17.54	17.71	-64.90	-519.14	366.99	267.28	232.49	34.79	7.684		
7,600.00	7,338.98	7,513.97	7,224.02	17.72	17.82	-64.09	-520.85	284.75	270.03	234.88	35.16	7.681		
7,700.00	7,359.09	7,600.13	7,239.18	18.02	18.03	-63.66	-521.76	200.01	271.60	235.82	35.78	7.591		
7,800.00	7,364.03	7,688.74	7,243.00	18.43	18.35	-63.58	-521.86	111.54	271.97	235.31	36.66	7.418		
7,900.00	7,364.15	7,788.74	7,242.97	19.00	18.89	-63.55	-521.67	11.54	272.08	234.24	37.83	7.192		
8,000.00	7,364.28	7,888.74	7,242.95	19.70	19.59	-63.53	-521.48	-88.46	272.19	232.97	39.21	6.942		
8,100.00	7,364.41	7,988.74	7,242.92	20.52	20.42	-63.50	-521.29	-188.46	272.29	231.52	40.78	6.677		
8,200.00	7,364.54	8,088.74	7,242.90	21.44	21.35	-63.48	-521.10	-288.46	272.40	229.89	42.51	6.407		
8,300.00	7,364.67	8,188.74	7,242.87	22.46	22.37	-63.45	-520.91	-388.46	272.51	228.11	44.40	6.138		
8,400.00	7,364.79	8,288.74	7,242.85	23.54	23.46	-63.43	-520.71	-488.46	272.62	226.21	46.41	5.874		
8,500.00	7,364.92	8,388.74	7,242.82	24.70	24.63	-63.40	-520.52	-588.45	272.73	224.19	48.54	5.619		
8,600.00	7,365.05	8,488.74	7,242.79	25.91	25.84	-63.38	-520.33	-688.45	272.83	222.07	50.76	5.375		
8,700.00	7,365.18	8,588.74	7,242.77	27.17	27.11	-63.35	-520.14	-788.45	272.94	219.87	53.08	5.143		
8,800.00	7,365.31	8,688.74	7,242.74	28.47	28.42	-63.33	-519.95	-888.45	273.05	217.59	55.46	4.923		
8,900.00	7,365.43	8,788.74	7,242.72	29.81	29.76	-63.30	-519.76	-988.45	273.16	215.25	57.91	4.717		
9,000.00	7,365.56	8,888.74	7,242.69	31.19	31.13	-63.28	-519.57	-1,088.45	273.27	212.85	60.42	4.523		
9,100.00	7,365.69	8,988.74	7,242.67	32.59	32.54	-63.26	-519.38	-1,188.45	273.38	210.40	62.98	4.341		
9,200.00	7,365.82	9,088.74	7,242.64	34.01	33.96	-63.23	-519.19	-1,288.45	273.49	207.90	65.58	4.170		
9,300.00	7,365.95	9,188.74	7,242.61	35.46	35.41	-63.21	-519.00	-1,388.45	273.59	205.37	68.23	4.010		
9,400.00	7,366.08	9,288.74	7,242.59	36.92	36.88	-63.18	-518.80	-1,488.45	273.70	202.80	70.90	3.860		
9,500.00	7,366.20	9,388.74	7,242.56	38.40	38.36	-63.16	-518.61	-1,588.45	273.81	200.20	73.61	3.720		
9,600.00	7,366.33	9,488.74	7,242.54	39.90	39.86	-63.13	-518.42	-1,688.45	273.92	197.58	76.34	3.588		
9,700.00	7,366.46	9,588.74	7,242.51	41.41	41.37	-63.11	-518.23	-1,788.45	274.03	194.93	79.10	3.464		
9,800.00	7,366.59	9,688.74	7,242.49	42.93	42.89	-63.08	-518.04	-1,888.45	274.14	192.26	81.88	3.348		
9,900.00	7,366.72	9,788.74	7,242.46	44.47	44.43	-63.06	-517.85	-1,988.45	274.25	189.57	84.68	3.239		
10,000.00	7,366.84	9,888.74	7,242.43	46.01	45.97	-63.03	-517.66	-2,088.45	274.36	186.86	87.50	3.136		
10,100.00	7,366.97	9,988.74	7,242.41	47.56	47.52	-63.01	-517.47	-2,188.45	274.47	184.14	90.33	3.039		
10,200.00	7,367.10	10,088.74	7,242.38	49.12	49.08	-62.99	-517.28	-2,288.45	274.58	181.40	93.18	2.947		
10,300.00	7,367.23	10,188.74	7,242.36	50.68	50.65	-62.96	-517.08	-2,388.45	274.68	178.65	96.03	2.860		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	7,367.36	10,288.74	7,242.33	52.26	52.22	-62.94	-516.89	-2,488.45	274.79	175.89	98.91	2.778		
10,500.00	7,367.49	10,388.74	7,242.31	53.84	53.80	-62.91	-516.70	-2,588.45	274.90	173.12	101.79	2.701		
10,600.00	7,367.61	10,488.74	7,242.28	55.42	55.39	-62.89	-516.51	-2,688.45	275.01	170.33	104.68	2.627		
10,700.00	7,367.74	10,588.73	7,242.25	57.01	56.98	-62.86	-516.32	-2,788.45	275.12	167.54	107.58	2.557		
10,800.00	7,367.87	10,688.73	7,242.23	58.60	58.57	-62.84	-516.13	-2,888.45	275.23	164.75	110.48	2.491		
10,900.00	7,368.00	10,788.73	7,242.20	60.20	60.17	-62.81	-515.94	-2,988.45	275.34	161.94	113.40	2.428		
11,000.00	7,368.13	10,888.73	7,242.18	61.80	61.77	-62.79	-515.75	-3,088.45	275.45	159.13	116.32	2.368		
11,100.00	7,368.25	10,988.73	7,242.15	63.41	63.38	-62.77	-515.56	-3,188.45	275.56	156.31	119.25	2.311		
11,200.00	7,368.38	11,088.73	7,242.13	65.02	64.99	-62.74	-515.37	-3,288.45	275.67	153.49	122.18	2.256		
11,300.00	7,368.51	11,188.73	7,242.10	66.63	66.60	-62.72	-515.17	-3,388.45	275.78	150.66	125.12	2.204		
11,400.00	7,368.64	11,288.73	7,242.07	68.24	68.21	-62.69	-514.98	-3,488.45	275.89	147.83	128.06	2.154		
11,500.00	7,368.77	11,388.73	7,242.05	69.86	69.83	-62.67	-514.79	-3,588.45	276.00	144.99	131.01	2.107		
11,600.00	7,368.90	11,488.73	7,242.02	71.48	71.45	-62.65	-514.60	-3,688.45	276.11	142.15	133.96	2.061		
11,700.00	7,369.02	11,588.73	7,242.00	73.10	73.07	-62.62	-514.41	-3,788.44	276.22	139.30	136.92	2.017		
11,800.00	7,369.15	11,688.73	7,241.97	74.73	74.70	-62.60	-514.22	-3,888.44	276.33	136.46	139.87	1.976		
11,900.00	7,369.28	11,788.73	7,241.95	76.36	76.33	-62.57	-514.03	-3,988.44	276.44	133.60	142.83	1.935		
12,000.00	7,369.41	11,888.73	7,241.92	77.98	77.95	-62.55	-513.84	-4,088.44	276.55	130.75	145.80	1.897		
12,100.00	7,369.54	11,988.73	7,241.90	79.61	79.58	-62.52	-513.65	-4,188.44	276.66	127.89	148.77	1.860		
12,200.00	7,369.66	12,088.73	7,241.87	81.25	81.22	-62.50	-513.45	-4,288.44	276.77	125.03	151.73	1.824		
12,300.00	7,369.79	12,188.73	7,241.84	82.88	82.85	-62.48	-513.26	-4,388.44	276.88	122.17	154.71	1.790		
12,400.00	7,369.92	12,288.73	7,241.82	84.52	84.48	-62.45	-513.07	-4,488.44	276.99	119.31	157.68	1.757		
12,500.00	7,370.05	12,388.73	7,241.79	86.15	86.12	-62.43	-512.88	-4,588.44	277.10	116.45	160.65	1.725		
12,600.00	7,370.18	12,488.73	7,241.77	87.79	87.76	-62.40	-512.69	-4,688.44	277.21	113.58	163.63	1.694		
12,700.00	7,370.30	12,588.73	7,241.74	89.43	89.40	-62.38	-512.50	-4,788.44	277.32	110.71	166.61	1.664		
12,800.00	7,370.43	12,688.73	7,241.72	91.07	91.04	-62.36	-512.31	-4,888.44	277.43	107.84	169.59	1.636		
12,900.00	7,370.56	12,788.73	7,241.69	92.71	92.68	-62.33	-512.12	-4,988.44	277.54	104.97	172.57	1.608		
13,000.00	7,370.69	12,888.73	7,241.66	94.35	94.32	-62.31	-511.93	-5,088.44	277.65	102.10	175.55	1.582		
13,100.00	7,370.82	12,988.73	7,241.64	96.00	95.97	-62.29	-511.74	-5,188.44	277.76	99.23	178.54	1.556		
13,200.00	7,370.95	13,088.73	7,241.61	97.64	97.61	-62.26	-511.54	-5,288.44	277.87	96.35	181.52	1.531		
13,300.00	7,371.07	13,188.73	7,241.59	99.29	99.26	-62.24	-511.35	-5,388.44	277.98	93.48	184.51	1.507		
13,400.00	7,371.20	13,288.73	7,241.56	100.93	100.90	-62.21	-511.16	-5,488.44	278.09	90.60	187.49	1.483 Level 3		
13,500.00	7,371.33	13,388.73	7,241.54	102.58	102.55	-62.19	-510.97	-5,588.44	278.21	87.73	190.48	1.461 Level 3		
13,600.00	7,371.46	13,488.73	7,241.51	104.23	104.20	-62.17	-510.78	-5,688.44	278.32	84.85	193.47	1.439 Level 3		
13,700.00	7,371.59	13,588.73	7,241.48	105.88	105.85	-62.14	-510.59	-5,788.44	278.43	81.97	196.46	1.417 Level 3		
13,800.00	7,371.71	13,688.73	7,241.46	107.53	107.50	-62.12	-510.40	-5,888.44	278.54	79.09	199.44	1.397 Level 3		
13,900.00	7,371.84	13,788.73	7,241.43	109.18	109.15	-62.09	-510.21	-5,988.44	278.65	76.22	202.43	1.376 Level 3		
14,000.00	7,371.97	13,888.73	7,241.41	110.83	110.80	-62.07	-510.02	-6,088.44	278.76	73.34	205.42	1.357 Level 3		
14,100.00	7,372.10	13,988.73	7,241.38	112.48	112.45	-62.05	-509.82	-6,188.44	278.87	70.46	208.41	1.338 Level 3		
14,200.00	7,372.23	14,088.73	7,241.36	114.13	114.10	-62.02	-509.63	-6,288.44	278.98	67.58	211.40	1.320 Level 3		
14,300.00	7,372.36	14,188.73	7,241.33	115.78	115.75	-62.00	-509.44	-6,388.44	279.09	64.70	214.39	1.302 Level 3		
14,400.00	7,372.48	14,288.73	7,241.30	117.44	117.40	-61.98	-509.25	-6,488.44	279.20	61.82	217.38	1.284 Level 3		
14,500.00	7,372.61	14,388.73	7,241.28	119.09	119.06	-61.95	-509.06	-6,588.44	279.32	58.94	220.38	1.267 Level 3		
14,600.00	7,372.74	14,488.73	7,241.25	120.74	120.71	-61.93	-508.87	-6,688.44	279.43	56.06	223.37	1.251 Level 3		
14,700.00	7,372.87	14,588.73	7,241.23	122.40	122.37	-61.91	-508.68	-6,788.44	279.54	53.18	226.36	1.235 Level 2		
14,800.00	7,373.00	14,688.73	7,241.20	124.05	124.02	-61.88	-508.49	-6,888.44	279.65	50.30	229.35	1.219 Level 2		
14,900.00	7,373.12	14,788.73	7,241.18	125.71	125.68	-61.86	-508.30	-6,988.43	279.76	47.42	232.34	1.204 Level 2		
15,000.00	7,373.25	14,888.73	7,241.15	127.36	127.33	-61.84	-508.11	-7,088.43	279.87	44.54	235.33	1.189 Level 2		
15,100.00	7,373.38	14,988.73	7,241.12	129.02	128.99	-61.81	-507.91	-7,188.43	279.98	41.66	238.32	1.175 Level 2		
15,200.00	7,373.51	15,088.73	7,241.10	130.68	130.65	-61.79	-507.72	-7,288.43	280.10	38.78	241.31	1.161 Level 2		
15,300.00	7,373.64	15,188.73	7,241.07	132.33	132.30	-61.76	-507.53	-7,388.43	280.21	35.90	244.30	1.147 Level 2		
15,400.00	7,373.77	15,288.73	7,241.05	133.99	133.96	-61.74	-507.34	-7,488.43	280.32	33.03	247.29	1.134 Level 2		
15,500.00	7,373.89	15,388.73	7,241.02	135.65	135.62	-61.72	-507.15	-7,588.43	280.43	30.15	250.28	1.120 Level 2		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
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
15,583.33	7,374.00	15,472.06	7,241.00	137.03	137.00	-61.70	-506.99	-7,671.76	280.52	27.75	252.77	1.110	Level 2, ES, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.70	-159.92	0.84	159.92					
100.00	100.00	100.00	100.00	3.28	3.28	179.70	-159.92	0.84	159.92	152.39	7.53	21.241		
200.00	200.00	200.00	200.00	3.31	3.31	179.70	-159.92	0.84	159.92	152.35	7.57	21.115		
278.84	278.83	277.46	277.46	3.34	3.34	71.84	-160.04	0.89	159.71	152.07	7.64	20.914 CC, ES		
300.00	299.98	297.61	297.61	3.35	3.35	72.01	-160.28	1.01	159.75	152.09	7.66	20.867		
400.00	399.84	392.81	392.75	3.41	3.40	73.17	-163.11	2.42	161.14	153.37	7.76	20.753 SF		
500.00	499.45	487.88	487.61	3.50	3.47	74.84	-168.75	5.24	164.57	156.65	7.92	20.791		
600.00	598.73	582.75	582.01	3.62	3.57	76.90	-177.20	9.45	170.21	162.10	8.11	20.979		
700.00	697.91	677.42	675.83	3.76	3.70	78.56	-188.40	15.04	178.69	170.33	8.36	21.373		
800.00	797.10	771.71	768.84	3.93	3.86	79.53	-202.32	21.97	190.01	181.35	8.65	21.959		
900.00	896.28	865.44	860.72	4.12	4.06	79.88	-218.86	30.22	204.02	195.04	8.99	22.704		
1,000.00	995.47	958.41	951.21	4.33	4.30	79.71	-237.91	39.72	220.68	211.32	9.36	23.583		
1,100.00	1,094.65	1,057.82	1,039.82	4.56	4.60	79.16	-259.28	50.37	239.95	230.17	9.78	24.540		
1,200.00	1,193.84	1,147.97	1,133.78	4.80	4.92	78.45	-283.52	62.46	260.65	250.40	10.24	25.444		
1,300.00	1,293.02	1,245.75	1,227.74	5.05	5.30	77.84	-307.76	74.55	281.38	270.62	10.76	26.153		
1,400.00	1,392.21	1,343.54	1,321.70	5.31	5.69	77.31	-332.00	86.63	302.13	290.83	11.30	26.730		
1,500.00	1,491.39	1,441.33	1,415.66	5.58	6.11	76.86	-356.24	98.72	322.91	311.06	11.86	27.238		
1,600.00	1,590.58	1,539.11	1,509.62	5.86	6.54	76.45	-380.48	110.80	343.71	331.27	12.44	27.634		
1,700.00	1,689.76	1,636.90	1,603.58	6.15	6.98	76.10	-404.72	122.89	364.52	351.49	13.03	27.970		
1,800.00	1,788.95	1,734.69	1,697.54	6.43	7.43	75.78	-428.96	134.97	385.34	371.70	13.64	28.250		
1,900.00	1,888.13	1,832.47	1,791.50	6.59	7.83	75.49	-453.19	147.06	406.18	392.31	13.86	29.300		
2,000.00	1,987.32	1,930.26	1,885.46	6.62	8.03	75.23	-477.43	159.14	427.02	413.17	13.85	30.832		
2,100.00	2,086.50	2,028.05	1,979.43	6.66	8.10	75.00	-501.67	171.23	447.87	433.94	13.93	32.158		
2,200.00	2,185.69	2,125.83	2,073.39	6.72	8.20	74.79	-525.91	183.31	468.72	454.69	14.04	33.389		
2,300.00	2,284.87	2,223.62	2,167.35	6.79	8.32	74.59	-550.15	195.40	489.59	475.40	14.18	34.519		
2,400.00	2,384.06	2,321.41	2,261.31	6.88	8.45	74.41	-574.39	207.48	510.45	496.09	14.36	35.548		
2,500.00	2,483.24	2,419.19	2,355.27	6.98	8.61	74.25	-598.63	219.57	531.32	516.76	14.57	36.474		
2,600.00	2,582.43	2,516.98	2,449.23	7.09	8.79	74.09	-622.87	231.65	552.20	537.39	14.80	37.301		
2,700.00	2,681.61	2,614.77	2,543.19	7.22	8.98	73.95	-647.11	243.74	573.08	558.01	15.07	38.031		
2,800.00	2,780.80	2,712.55	2,637.15	7.35	9.19	73.82	-671.35	255.82	593.96	578.60	15.36	38.669		
2,900.00	2,879.98	2,810.34	2,731.11	7.50	9.41	73.70	-695.59	267.91	614.84	599.17	15.68	39.222		
3,000.00	2,979.17	2,908.13	2,825.07	7.66	9.65	73.58	-719.83	279.99	635.73	619.71	16.02	39.695		
3,100.00	3,078.35	3,005.91	2,919.04	7.82	9.90	73.48	-744.06	292.08	656.62	640.24	16.38	40.096		
3,200.00	3,177.54	3,103.70	3,013.00	8.00	10.16	73.38	-768.30	304.16	677.51	660.75	16.76	40.430		
3,300.00	3,276.72	3,201.49	3,106.96	8.18	10.44	73.28	-792.54	316.25	698.40	681.24	17.16	40.705		
3,400.00	3,375.91	3,300.72	3,200.92	8.37	10.73	73.19	-816.78	328.33	719.30	701.72	17.58	40.919		
3,500.00	3,475.09	3,402.94	3,294.88	8.57	11.04	73.11	-841.02	340.42	740.19	722.17	18.02	41.067		
3,600.00	3,574.28	3,505.15	3,388.84	8.78	11.35	73.03	-865.26	352.51	761.09	742.61	18.48	41.173		
3,700.00	3,673.46	3,607.36	3,482.80	8.99	11.68	72.95	-889.50	364.59	781.99	763.03	18.96	41.243		
3,800.00	3,772.65	3,709.58	3,576.76	9.21	12.01	72.88	-913.74	376.68	802.89	783.44	19.45	41.281		
3,900.00	3,871.83	3,788.21	3,670.72	9.43	12.28	72.82	-937.98	388.76	823.79	803.91	19.88	41.430		
4,000.00	3,971.02	3,886.00	3,764.68	9.66	12.61	72.75	-962.22	400.85	844.69	824.31	20.38	41.442		
4,100.00	4,070.20	3,983.78	3,858.64	9.89	12.94	72.69	-986.46	412.93	865.60	844.71	20.89	41.434		
4,200.00	4,169.39	4,081.57	3,952.61	10.13	13.29	72.63	-1,010.70	425.02	886.50	865.09	21.41	41.407		
4,300.00	4,268.57	4,179.36	4,046.57	10.37	13.64	72.58	-1,034.94	437.10	907.41	885.47	21.94	41.366		
4,400.00	4,367.76	4,277.14	4,140.53	10.62	13.99	72.52	-1,059.17	449.19	928.31	905.84	22.47	41.311		
4,500.00	4,466.94	4,374.93	4,234.49	10.87	14.34	72.47	-1,083.41	461.27	949.22	926.20	23.01	41.245		
4,600.00	4,566.13	4,472.72	4,328.45	11.12	14.70	72.42	-1,107.65	473.36	970.13	946.56	23.56	41.170		
4,700.00	4,665.31	4,570.50	4,422.41	11.38	15.07	72.38	-1,131.89	485.44	991.03	966.91	24.12	41.087		
4,800.00	4,764.50	4,668.29	4,516.37	11.63	15.44	72.33	-1,156.13	497.53	1,011.94	987.26	24.68	40.998		
4,900.00	4,863.68	4,766.08	4,610.33	11.90	15.81	72.29	-1,180.37	509.61	1,032.85	1,007.60	25.25	40.904		
5,000.00	4,962.87	4,863.86	4,704.29	12.16	16.18	72.25	-1,204.61	521.70	1,053.76	1,027.94	25.82	40.806		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
5,100.00	5,062.05	4,961.65	4,798.25	12.43	16.56	72.21	-1,228.85	533.78	1,074.67	1,048.27	26.40	40.704	
5,200.00	5,161.24	5,059.44	4,892.22	12.70	16.94	72.17	-1,253.09	545.87	1,095.58	1,068.60	26.99	40.599	
5,300.00	5,260.42	5,157.22	4,986.18	12.97	17.32	72.13	-1,277.33	557.95	1,116.49	1,088.92	27.57	40.493	
5,400.00	5,359.61	5,255.01	5,080.14	13.24	17.70	72.10	-1,301.57	570.04	1,137.40	1,109.24	28.16	40.385	
5,500.00	5,458.79	5,352.80	5,174.10	13.52	18.09	72.06	-1,325.81	582.12	1,158.32	1,129.56	28.76	40.277	
5,600.00	5,557.98	5,450.58	5,268.06	13.79	18.48	72.03	-1,350.05	594.21	1,179.23	1,149.87	29.36	40.167	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.66	-139.89	0.84	139.89					
100.00	100.00	100.00	100.00	3.28	3.28	179.66	-139.89	0.84	139.89	132.36	7.53	18.581		
200.00	200.00	200.00	200.00	3.31	3.31	179.66	-139.89	0.84	139.89	132.32	7.57	18.470 CC, ES		
300.00	299.98	295.90	295.88	3.35	3.34	71.77	-141.28	1.63	140.80	133.15	7.65	18.401 SF		
400.00	399.84	391.72	391.58	3.41	3.40	72.67	-145.46	4.01	143.54	135.78	7.76	18.496		
500.00	499.45	487.38	486.90	3.50	3.48	74.09	-152.41	7.96	148.20	140.29	7.91	18.729		
600.00	598.73	582.79	581.66	3.62	3.58	75.90	-162.08	13.47	154.92	146.80	8.11	19.091		
700.00	697.91	677.93	675.72	3.76	3.72	77.23	-174.46	20.51	164.32	155.95	8.37	19.637		
800.00	797.10	772.62	768.81	3.93	3.90	77.80	-189.46	29.05	176.46	167.79	8.67	20.359		
900.00	896.28	866.65	860.65	4.12	4.12	77.74	-207.00	39.04	191.25	182.24	9.01	21.226		
1,000.00	995.47	962.43	953.56	4.33	4.39	77.23	-227.23	50.55	208.36	198.95	9.41	22.148		
1,100.00	1,094.65	1,060.87	1,048.94	4.56	4.70	76.71	-248.39	62.60	225.85	215.98	9.86	22.897		
1,200.00	1,193.84	1,159.31	1,144.32	4.80	5.04	76.27	-269.55	74.64	243.35	233.00	10.35	23.508		
1,300.00	1,293.02	1,257.75	1,239.70	5.05	5.40	75.89	-290.71	86.69	260.87	250.01	10.87	24.004		
1,400.00	1,392.21	1,356.19	1,335.08	5.31	5.78	75.56	-311.87	98.73	278.40	267.00	11.41	24.408		
1,500.00	1,491.39	1,454.63	1,430.46	5.58	6.17	75.26	-333.02	110.78	295.94	283.98	11.96	24.739		
1,600.00	1,590.58	1,553.07	1,525.85	5.86	6.58	75.00	-354.18	122.82	313.48	300.94	12.54	25.003		
1,700.00	1,689.76	1,651.51	1,621.23	6.15	7.00	74.77	-375.34	134.86	331.03	317.90	13.13	25.218		
1,800.00	1,788.95	1,749.95	1,716.61	6.43	7.42	74.56	-396.50	146.91	348.58	334.86	13.73	25.393		
1,900.00	1,888.13	1,848.39	1,811.99	6.59	7.76	74.37	-417.66	158.95	366.14	352.40	13.75	26.636		
2,000.00	1,987.32	1,946.83	1,907.37	6.62	7.91	74.20	-438.82	171.00	383.70	369.83	13.88	27.648		
2,100.00	2,086.50	2,045.27	2,002.75	6.66	7.98	74.04	-459.98	183.04	401.27	387.31	13.96	28.748		
2,200.00	2,185.69	2,143.71	2,098.13	6.72	8.07	73.89	-481.14	195.09	418.84	404.77	14.07	29.767		
2,300.00	2,284.87	2,242.15	2,193.51	6.79	8.18	73.76	-502.30	207.13	436.40	422.19	14.21	30.702		
2,400.00	2,384.06	2,340.59	2,288.89	6.88	8.31	73.64	-523.46	219.18	453.98	439.59	14.39	31.550		
2,500.00	2,483.24	2,439.03	2,384.28	6.98	8.45	73.53	-544.62	231.22	471.55	456.96	14.59	32.313		
2,600.00	2,582.43	2,537.47	2,479.66	7.09	8.61	73.42	-565.78	243.27	489.13	474.30	14.83	32.993		
2,700.00	2,681.61	2,635.91	2,575.04	7.22	8.79	73.32	-586.94	255.31	506.70	491.62	15.08	33.591		
2,800.00	2,780.80	2,734.35	2,670.42	7.35	8.98	73.23	-608.10	267.36	524.28	508.91	15.37	34.114		
2,900.00	2,879.98	2,832.79	2,765.80	7.50	9.19	73.15	-629.26	279.40	541.86	526.18	15.68	34.564		
3,000.00	2,979.17	2,931.23	2,861.18	7.66	9.41	73.07	-650.42	291.45	559.44	543.43	16.01	34.948		
3,100.00	3,078.35	3,029.67	2,956.56	7.82	9.64	72.99	-671.58	303.49	577.02	560.66	16.36	35.272		
3,200.00	3,177.54	3,128.11	3,051.94	8.00	9.88	72.92	-692.74	315.54	594.60	577.87	16.73	35.540		
3,300.00	3,276.72	3,226.54	3,147.32	8.18	10.14	72.86	-713.90	327.58	612.19	595.07	17.12	35.758		
3,400.00	3,375.91	3,324.98	3,242.71	8.37	10.40	72.79	-735.06	339.63	629.77	612.24	17.53	35.932		
3,500.00	3,475.09	3,423.42	3,338.09	8.57	10.67	72.73	-756.22	351.67	647.35	629.40	17.95	36.066		
3,600.00	3,574.28	3,521.86	3,433.47	8.78	10.95	72.68	-777.38	363.72	664.94	646.55	18.39	36.165		
3,700.00	3,673.46	3,620.30	3,528.85	8.99	11.24	72.62	-798.54	375.76	682.52	663.69	18.84	36.233		
3,800.00	3,772.65	3,718.74	3,624.23	9.21	11.54	72.57	-819.70	387.81	700.11	680.81	19.30	36.274		
3,900.00	3,871.83	3,817.18	3,719.61	9.43	11.84	72.53	-840.86	399.85	717.70	697.92	19.78	36.292		
4,000.00	3,971.02	3,915.62	3,814.99	9.66	12.15	72.48	-862.02	411.90	735.28	715.02	20.26	36.290		
4,100.00	4,070.20	4,014.06	3,910.37	9.89	12.46	72.44	-883.18	423.94	752.87	732.11	20.76	36.270		
4,200.00	4,169.39	4,112.50	4,005.75	10.13	12.78	72.39	-904.34	435.99	770.46	749.20	21.26	36.235		
4,300.00	4,268.57	4,210.94	4,101.13	10.37	13.10	72.35	-925.50	448.03	788.05	766.27	21.78	36.187		
4,400.00	4,367.76	4,309.38	4,196.52	10.62	13.43	72.32	-946.66	460.08	805.64	783.34	22.30	36.128		
4,500.00	4,466.94	4,407.82	4,291.90	10.87	13.76	72.28	-967.82	472.12	823.23	800.40	22.83	36.061		
4,600.00	4,566.13	4,506.26	4,387.28	11.12	14.10	72.24	-988.98	484.17	840.82	817.45	23.37	35.985		
4,700.00	4,665.31	4,604.70	4,482.66	11.38	14.44	72.21	-1,010.14	496.21	858.40	834.50	23.91	35.903		
4,800.00	4,764.50	4,703.14	4,578.04	11.63	14.78	72.18	-1,031.30	508.26	875.99	851.54	24.46	35.816		
4,900.00	4,863.68	4,801.58	4,673.42	11.90	15.13	72.15	-1,052.46	520.30	893.59	868.57	25.01	35.725		
5,000.00	4,962.87	4,900.02	4,768.80	12.16	15.48	72.12	-1,073.62	532.35	911.18	885.60	25.57	35.630		
5,100.00	5,062.05	5,001.54	4,864.18	12.43	15.84	72.09	-1,094.78	544.39	928.77	902.62	26.15	35.519		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,103.10	4,959.56	12.70	16.21	72.06	-1,115.94	556.44	946.36	919.63	26.73	35.407	
5,300.00	5,260.42	5,195.34	5,054.95	12.97	16.54	72.04	-1,137.10	568.48	963.95	936.67	27.28	35.332	
5,400.00	5,359.61	5,306.22	5,150.33	13.24	16.95	72.01	-1,158.26	580.52	981.54	953.64	27.90	35.180	
5,500.00	5,458.79	5,407.78	5,245.71	13.52	17.32	71.99	-1,179.42	592.57	999.13	970.64	28.49	35.066	
5,600.00	5,557.98	5,490.66	5,341.09	13.79	17.63	71.96	-1,200.58	604.61	1,016.72	987.69	29.03	35.025	
5,700.00	5,657.16	5,589.10	5,436.47	14.07	17.99	71.94	-1,221.74	616.66	1,034.31	1,004.70	29.62	34.923	
5,800.00	5,756.35	5,687.54	5,531.85	14.35	18.36	71.92	-1,242.90	628.70	1,051.91	1,021.70	30.21	34.821	
5,900.00	5,855.53	5,785.98	5,627.23	14.63	18.73	71.89	-1,264.06	640.75	1,069.50	1,038.69	30.80	34.719	
6,000.00	5,954.72	5,884.42	5,722.61	14.91	19.10	71.87	-1,285.21	652.79	1,087.09	1,055.69	31.40	34.618	
6,100.00	6,053.90	5,982.86	5,817.99	15.20	19.47	71.85	-1,306.37	664.84	1,104.68	1,072.68	32.00	34.518	
6,200.00	6,153.09	6,081.29	5,913.38	15.48	19.84	71.83	-1,327.53	676.88	1,122.28	1,089.67	32.61	34.419	
6,300.00	6,252.27	6,179.73	6,008.76	15.77	20.22	71.81	-1,348.69	688.93	1,139.87	1,106.66	33.21	34.321	
6,400.00	6,351.46	6,278.17	6,104.14	16.06	20.59	71.80	-1,369.85	700.97	1,157.46	1,123.64	33.82	34.225	
6,500.00	6,450.64	6,376.61	6,199.52	16.34	20.97	71.78	-1,391.01	713.02	1,175.05	1,140.62	34.43	34.129	
6,600.00	6,549.83	6,475.05	6,294.90	16.63	21.35	71.76	-1,412.17	725.06	1,192.65	1,157.60	35.04	34.035	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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	-133.35	-140.98	-149.34	205.37				
100.00	100.00	101.00	101.00	3.28	3.28	-133.35	-140.98	-149.34	205.37	197.84	7.53	27.277	
200.00	200.00	201.00	201.00	3.31	3.31	-133.35	-140.98	-149.34	205.37	197.80	7.57	27.114 CC, ES	
300.00	299.98	295.99	295.97	3.35	3.34		-142.59	-149.42	207.42	199.77	7.65	27.106 SF	
400.00	399.84	390.79	390.65	3.41	3.40	118.69	-147.32	-149.65	213.53	205.76	7.77	27.496	
500.00	499.45	485.12	484.65	3.50	3.48	118.97	-155.14	-150.04	223.67	215.75	7.93	28.219	
600.00	598.73	578.77	577.66	3.62	3.57	119.35	-165.95	-150.58	237.73	229.59	8.14	29.211	
700.00	697.91	671.75	669.62	3.76	3.71	119.48	-179.69	-151.26	254.44	246.05	8.39	30.315	
800.00	797.10	763.94	760.31	3.93	3.87	119.14	-196.24	-152.09	273.39	264.69	8.69	31.450	
900.00	896.28	857.69	851.98	4.12	4.08	118.44	-215.82	-153.06	294.42	285.38	9.04	32.557	
1,000.00	995.47	955.28	947.28	4.33	4.33	117.74	-236.79	-154.11	315.93	306.48	9.45	33.420	
1,100.00	1,094.65	1,052.87	1,042.59	4.56	4.60	117.12	-257.75	-155.15	337.49	327.59	9.90	34.091	
1,200.00	1,193.84	1,150.45	1,137.89	4.80	4.90	116.58	-278.71	-156.19	359.07	348.70	10.38	34.604	
1,300.00	1,293.02	1,248.04	1,233.20	5.05	5.21	116.09	-299.68	-157.24	380.69	369.81	10.88	34.990	
1,400.00	1,392.21	1,345.63	1,328.50	5.31	5.54	115.66	-320.64	-158.28	402.32	390.92	11.40	35.277	
1,500.00	1,491.39	1,443.22	1,423.81	5.58	5.88	115.28	-341.60	-159.32	423.98	412.03	11.95	35.484	
1,600.00	1,590.58	1,540.81	1,519.11	5.86	6.23	114.93	-362.57	-160.37	445.65	433.14	12.51	35.626	
1,700.00	1,689.76	1,638.40	1,614.42	6.15	6.59	114.61	-383.53	-161.41	467.34	454.25	13.08	35.720	
1,800.00	1,788.95	1,735.99	1,709.72	6.43	6.96	114.33	-404.49	-162.46	489.04	475.37	13.67	35.775	
1,900.00	1,888.13	1,833.58	1,805.03	6.59	7.28	114.06	-425.45	-163.50	510.75	497.04	13.70	37.270	
2,000.00	1,987.32	1,931.17	1,900.34	6.62	7.43	113.82	-446.42	-164.54	532.47	518.61	13.86	38.430	
2,100.00	2,086.50	2,028.76	1,995.64	6.66	7.49	113.60	-467.38	-165.59	554.19	540.26	13.93	39.775	
2,200.00	2,185.69	2,126.35	2,090.95	6.72	7.57	113.39	-488.34	-166.63	575.93	561.88	14.04	41.012	
2,300.00	2,284.87	2,223.94	2,186.25	6.79	7.66	113.20	-509.31	-167.67	597.67	583.49	14.18	42.140	
2,400.00	2,384.06	2,321.53	2,281.56	6.88	7.77	113.02	-530.27	-168.72	619.42	605.06	14.35	43.156	
2,500.00	2,483.24	2,419.11	2,376.86	6.98	7.89	112.86	-551.23	-169.76	641.17	626.62	14.55	44.063	
2,600.00	2,582.43	2,516.70	2,472.17	7.09	8.03	112.70	-572.20	-170.81	662.93	648.15	14.78	44.861	
2,700.00	2,681.61	2,614.29	2,567.47	7.22	8.19	112.56	-593.16	-171.85	684.69	669.66	15.03	45.557	
2,800.00	2,780.80	2,711.88	2,662.78	7.35	8.36	112.42	-614.12	-172.89	706.45	691.15	15.31	46.155	
2,900.00	2,879.98	2,809.47	2,758.08	7.50	8.54	112.29	-635.09	-173.94	728.22	712.62	15.61	46.662	
3,000.00	2,979.17	2,907.06	2,853.39	7.66	8.74	112.17	-656.05	-174.98	750.00	734.07	15.93	47.085	
3,100.00	3,078.35	3,004.65	2,948.69	7.82	8.95	112.06	-677.01	-176.02	771.77	755.50	16.27	47.432	
3,200.00	3,177.54	3,102.24	3,044.00	8.00	9.16	111.95	-697.98	-177.07	793.55	776.92	16.63	47.709	
3,300.00	3,276.72	3,200.17	3,139.30	8.18	9.39	111.85	-718.94	-178.11	815.33	798.32	17.01	47.921	
3,400.00	3,375.91	3,302.58	3,234.61	8.37	9.64	111.75	-739.90	-179.16	837.11	819.69	17.42	48.050	
3,500.00	3,475.09	3,404.99	3,329.92	8.57	9.90	111.66	-760.87	-180.20	858.90	841.05	17.85	48.128	
3,600.00	3,574.28	3,492.60	3,425.22	8.78	10.12	111.57	-781.83	-181.24	880.69	862.44	18.25	48.256	
3,700.00	3,673.46	3,609.82	3,520.53	8.99	10.44	111.49	-802.79	-182.29	902.48	883.74	18.74	48.161	
3,800.00	3,772.65	3,687.77	3,615.83	9.21	10.65	111.41	-823.75	-183.33	924.27	905.12	19.14	48.279	
3,900.00	3,871.83	3,785.36	3,711.14	9.43	10.92	111.33	-844.72	-184.37	946.06	926.45	19.61	48.245	
4,000.00	3,971.02	3,882.95	3,806.44	9.66	11.20	111.26	-865.68	-185.42	967.85	947.77	20.09	48.188	
4,100.00	4,070.20	3,980.54	3,901.75	9.89	11.49	111.19	-886.64	-186.46	989.65	969.08	20.57	48.109	
4,200.00	4,169.39	4,078.13	3,997.05	10.13	11.78	111.13	-907.61	-187.51	1,011.45	990.38	21.07	48.014	
4,300.00	4,268.57	4,175.72	4,092.36	10.37	12.07	111.07	-928.57	-188.55	1,033.24	1,011.67	21.57	47.903	
4,400.00	4,367.76	4,273.31	4,187.66	10.62	12.37	111.00	-949.53	-189.59	1,055.04	1,032.96	22.08	47.780	
4,500.00	4,466.94	4,370.90	4,282.97	10.87	12.67	110.95	-970.50	-190.64	1,076.84	1,054.24	22.60	47.646	
4,600.00	4,566.13	4,468.49	4,378.27	11.12	12.98	110.89	-991.46	-191.68	1,098.64	1,075.52	23.13	47.505	
4,700.00	4,665.31	4,566.08	4,473.58	11.38	13.29	110.84	-1,012.42	-192.72	1,120.44	1,096.79	23.66	47.356	
4,800.00	4,764.50	4,663.67	4,568.88	11.63	13.60	110.79	-1,033.39	-193.77	1,142.25	1,118.05	24.20	47.203	
4,900.00	4,863.68	4,761.25	4,664.19	11.90	13.92	110.74	-1,054.35	-194.81	1,164.05	1,139.31	24.74	47.045	
5,000.00	4,962.87	4,858.84	4,759.50	12.16	14.24	110.69	-1,075.31	-195.86	1,185.86	1,160.56	25.29	46.884	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-137.21	-161.02	-149.06	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-137.21	-161.02	-149.06	219.42	211.89	7.53	29.144	
200.00	200.00	201.00	201.00	3.31	3.31	-137.21	-161.02	-149.06	219.42	211.85	7.57	28.970 CC, ES	
300.00	299.98	295.39	295.37	3.35	3.34	114.68	-162.61	-149.13	221.43	213.78	7.65	28.938 SF	
400.00	399.84	389.60	389.46	3.41	3.40	114.93	-167.29	-149.33	227.40	219.64	7.76	29.288	
500.00	499.45	483.35	482.89	3.50	3.47	115.33	-175.01	-149.66	237.33	229.41	7.92	29.955	
600.00	598.73	576.44	575.35	3.62	3.57	115.87	-185.70	-150.11	251.12	242.99	8.13	30.878	
700.00	697.91	668.87	666.78	3.76	3.70	116.19	-199.27	-150.69	267.63	259.24	8.38	31.918	
800.00	797.10	760.54	756.97	3.93	3.87	116.07	-215.64	-151.39	286.47	277.79	8.68	32.999	
900.00	896.28	851.27	845.68	4.12	4.07	115.59	-234.67	-152.21	307.64	298.62	9.02	34.110	
1,000.00	995.47	944.24	932.53	4.33	4.31	114.84	-256.17	-153.13	331.12	321.72	9.40	35.228	
1,100.00	1,094.65	1,037.52	1,026.06	4.56	4.59	113.96	-280.95	-154.19	355.86	346.01	9.84	36.152	
1,200.00	1,193.84	1,134.28	1,119.59	4.80	4.92	113.20	-305.72	-155.25	380.66	370.33	10.33	36.855	
1,300.00	1,293.02	1,231.03	1,213.11	5.05	5.26	112.53	-330.50	-156.31	405.52	394.68	10.84	37.401	
1,400.00	1,392.21	1,327.79	1,306.64	5.31	5.62	111.94	-355.27	-157.37	430.43	419.04	11.38	37.821	
1,500.00	1,491.39	1,424.55	1,400.17	5.58	6.00	111.41	-380.05	-158.43	455.37	443.43	11.94	38.150	
1,600.00	1,590.58	1,521.31	1,493.69	5.86	6.39	110.94	-404.83	-159.49	480.35	467.83	12.51	38.393	
1,700.00	1,689.76	1,618.07	1,587.22	6.15	6.79	110.51	-429.60	-160.55	505.35	492.25	13.10	38.574	
1,800.00	1,788.95	1,714.83	1,680.75	6.43	7.20	110.13	-454.38	-161.61	530.38	516.67	13.70	38.706	
1,900.00	1,888.13	1,811.59	1,774.27	6.59	7.59	109.78	-479.15	-162.67	555.43	541.47	13.96	39.793	
2,000.00	1,987.32	1,908.34	1,867.80	6.62	7.81	109.46	-503.93	-163.73	580.49	566.51	13.98	41.528	
2,100.00	2,086.50	2,005.10	1,961.33	6.66	7.88	109.16	-528.70	-164.79	605.57	591.52	14.05	43.089	
2,200.00	2,185.69	2,101.86	2,054.85	6.72	7.96	108.89	-553.48	-165.85	630.67	616.51	14.16	44.531	
2,300.00	2,284.87	2,201.38	2,148.38	6.79	8.07	108.64	-578.25	-166.91	655.78	641.47	14.31	45.839	
2,400.00	2,384.06	2,304.62	2,241.91	6.88	8.20	108.41	-603.03	-167.97	680.89	666.41	14.49	47.003	
2,500.00	2,483.24	2,392.14	2,335.43	6.98	8.33	108.20	-627.81	-169.03	706.02	691.34	14.68	48.097	
2,600.00	2,582.43	2,488.90	2,428.96	7.09	8.48	107.99	-652.58	-170.09	731.16	716.25	14.91	49.037	
2,700.00	2,681.61	2,585.65	2,522.49	7.22	8.66	107.81	-677.36	-171.15	756.30	741.14	15.17	49.860	
2,800.00	2,780.80	2,682.41	2,616.01	7.35	8.85	107.63	-702.13	-172.21	781.46	766.00	15.45	50.570	
2,900.00	2,879.98	2,779.17	2,709.54	7.50	9.05	107.47	-726.91	-173.27	806.61	790.85	15.76	51.177	
3,000.00	2,979.17	2,875.93	2,803.07	7.66	9.26	107.31	-751.68	-174.33	831.78	815.69	16.09	51.687	
3,100.00	3,078.35	2,972.69	2,896.60	7.82	9.49	107.17	-776.46	-175.39	856.95	840.50	16.45	52.109	
3,200.00	3,177.54	3,069.45	2,990.12	8.00	9.73	107.03	-801.23	-176.45	882.12	865.30	16.82	52.451	
3,300.00	3,276.72	3,166.21	3,083.65	8.18	9.98	106.90	-826.01	-177.51	907.30	890.09	17.21	52.721	
3,400.00	3,375.91	3,262.96	3,177.18	8.37	10.24	106.78	-850.78	-178.57	932.48	914.86	17.62	52.928	
3,500.00	3,475.09	3,359.72	3,270.70	8.57	10.51	106.67	-875.56	-179.63	957.67	939.63	18.04	53.078	
3,600.00	3,574.28	3,456.48	3,364.23	8.78	10.79	106.56	-900.34	-180.69	982.86	964.38	18.48	53.178	
3,700.00	3,673.46	3,553.24	3,457.76	8.99	11.07	106.45	-925.11	-181.75	1,008.05	989.12	18.94	53.234	
3,800.00	3,772.65	3,650.00	3,551.28	9.21	11.37	106.35	-949.89	-182.81	1,033.25	1,013.85	19.40	53.253	
3,900.00	3,871.83	3,746.76	3,644.81	9.43	11.67	106.26	-974.66	-183.88	1,058.45	1,038.57	19.88	53.239	
4,000.00	3,971.02	3,843.52	3,738.34	9.66	11.97	106.17	-999.44	-184.94	1,083.65	1,063.28	20.37	53.196	
4,100.00	4,070.20	3,940.27	3,831.86	9.89	12.28	106.08	-1,024.21	-186.00	1,108.85	1,087.98	20.87	53.130	
4,200.00	4,169.39	4,037.03	3,925.39	10.13	12.60	106.00	-1,048.99	-187.06	1,134.06	1,112.68	21.38	53.043	
4,300.00	4,268.57	4,133.79	4,018.92	10.37	12.92	105.92	-1,073.76	-188.12	1,159.27	1,137.37	21.90	52.939	
4,400.00	4,367.76	4,230.55	4,112.44	10.62	13.25	105.84	-1,098.54	-189.18	1,184.48	1,162.05	22.42	52.820	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-105.23	-40.80	-149.89	155.35				
100.00	100.00	101.00	101.00	3.28	3.28	-105.23	-40.80	-149.89	155.35	147.82	7.53	20.633	
200.00	200.00	201.00	201.00	3.31	3.31	-105.23	-40.80	-149.89	155.35	147.77	7.57	20.510	CC, ES
300.00	299.98	298.91	298.89	3.35	3.34	146.32	-42.49	-150.10	157.47	149.81	7.65	20.572	
400.00	399.84	396.58	396.42	3.41	3.40	145.61	-47.49	-150.73	163.81	156.03	7.77	21.073	
500.00	499.45	503.93	495.69	3.50	3.49	145.05	-54.24	-151.57	173.70	165.75	7.95	21.847	
600.00	598.73	604.72	594.66	3.62	3.59	145.15	-60.97	-152.40	186.27	178.10	8.17	22.788	
700.00	697.91	705.60	693.55	3.76	3.72	145.44	-67.69	-153.24	199.47	191.04	8.43	23.653	
800.00	797.10	806.48	792.43	3.93	3.87	145.69	-74.42	-154.08	212.67	203.94	8.73	24.356	
900.00	896.28	907.36	891.32	4.12	4.03	145.92	-81.14	-154.92	225.87	216.81	9.07	24.916	
1,000.00	995.47	1,008.24	990.21	4.33	4.21	146.12	-87.87	-155.76	239.08	229.65	9.43	25.352	
1,100.00	1,094.65	1,090.88	1,089.10	4.56	4.37	146.30	-94.59	-156.59	252.29	242.51	9.79	25.778	
1,200.00	1,193.84	1,190.00	1,187.99	4.80	4.57	146.46	-101.32	-157.43	265.51	255.31	10.20	26.037	
1,300.00	1,293.02	1,289.12	1,286.88	5.05	4.78	146.60	-108.04	-158.27	278.72	268.09	10.63	26.225	
1,400.00	1,392.21	1,388.24	1,385.77	5.31	5.00	146.74	-114.76	-159.11	291.94	280.86	11.08	26.356	
1,500.00	1,491.39	1,487.36	1,484.66	5.58	5.22	146.86	-121.49	-159.94	305.15	293.61	11.54	26.440	
1,600.00	1,590.58	1,586.48	1,583.54	5.86	5.46	146.97	-128.21	-160.78	318.37	306.35	12.02	26.488	
1,700.00	1,689.76	1,685.60	1,682.43	6.15	5.69	147.07	-134.94	-161.62	331.59	319.08	12.51	26.507	
1,800.00	1,788.95	1,784.72	1,781.32	6.43	5.94	147.17	-141.66	-162.46	344.81	331.80	13.01	26.504	
1,900.00	1,888.13	1,883.84	1,880.21	6.59	6.08	147.25	-148.39	-163.29	358.04	345.12	12.91	27.727	
2,000.00	1,987.32	1,982.96	1,979.10	6.62	6.12	147.34	-155.11	-164.13	371.26	358.29	12.97	28.628	
2,100.00	2,086.50	2,082.09	2,077.99	6.66	6.15	147.41	-161.83	-164.97	384.48	371.45	13.03	29.504	
2,200.00	2,185.69	2,181.21	2,176.88	6.72	6.19	147.48	-168.56	-165.81	397.71	384.58	13.12	30.307	
2,300.00	2,284.87	2,280.33	2,275.77	6.79	6.25	147.55	-175.28	-166.64	410.93	397.69	13.24	31.035	
2,400.00	2,384.06	2,379.45	2,374.65	6.88	6.32	147.61	-182.01	-167.48	424.15	410.77	13.39	31.689	
2,500.00	2,483.24	2,478.57	2,473.54	6.98	6.40	147.67	-188.73	-168.32	437.38	423.82	13.55	32.267	
2,600.00	2,582.43	2,577.69	2,572.43	7.09	6.49	147.72	-195.46	-169.16	450.61	436.86	13.75	32.773	
2,700.00	2,681.61	2,676.81	2,671.32	7.22	6.60	147.78	-202.18	-169.99	463.83	449.86	13.97	33.209	
2,800.00	2,780.80	2,775.93	2,770.21	7.35	6.71	147.82	-208.90	-170.83	477.06	462.85	14.21	33.579	
2,900.00	2,879.98	2,875.05	2,869.10	7.50	6.84	147.87	-215.63	-171.67	490.29	475.82	14.47	33.887	
3,000.00	2,979.17	2,974.17	2,967.99	7.66	6.97	147.91	-222.35	-172.51	503.51	488.76	14.75	34.138	
3,100.00	3,078.35	3,073.29	3,066.88	7.82	7.12	147.96	-229.08	-173.34	516.74	501.69	15.05	34.336	
3,200.00	3,177.54	3,172.41	3,165.76	8.00	7.27	148.00	-235.80	-174.18	529.97	514.60	15.37	34.487	
3,300.00	3,276.72	3,271.53	3,264.65	8.18	7.43	148.03	-242.53	-175.02	543.20	527.49	15.70	34.596	
3,400.00	3,375.91	3,370.65	3,363.54	8.37	7.60	148.07	-249.25	-175.86	556.42	540.37	16.05	34.666	
3,500.00	3,475.09	3,469.77	3,462.43	8.57	7.78	148.10	-255.97	-176.69	569.65	553.24	16.41	34.703	
3,600.00	3,574.28	3,568.89	3,561.32	8.78	7.96	148.14	-262.70	-177.53	582.88	566.09	16.79	34.711	
3,700.00	3,673.46	3,668.02	3,660.21	8.99	8.15	148.17	-269.42	-178.37	596.11	578.93	17.18	34.692	
3,800.00	3,772.65	3,767.14	3,759.10	9.21	8.34	148.20	-276.15	-179.21	609.34	591.75	17.58	34.652	
3,900.00	3,871.83	3,866.26	3,857.99	9.43	8.54	148.22	-282.87	-180.05	622.57	604.57	18.00	34.592	
4,000.00	3,971.02	3,965.38	3,956.87	9.66	8.75	148.25	-289.60	-180.88	635.80	617.38	18.42	34.516	
4,100.00	4,070.20	4,064.50	4,055.76	9.89	8.96	148.28	-296.32	-181.72	649.02	630.17	18.85	34.426	
4,200.00	4,169.39	4,163.62	4,154.65	10.13	9.17	148.30	-303.04	-182.56	662.25	642.96	19.29	34.325	
4,300.00	4,268.57	4,262.74	4,253.54	10.37	9.39	148.33	-309.77	-183.40	675.48	655.74	19.74	34.214	
4,400.00	4,367.76	4,361.86	4,352.43	10.62	9.61	148.35	-316.49	-184.23	688.71	668.51	20.20	34.095	
4,500.00	4,466.94	4,460.98	4,451.32	10.87	9.83	148.37	-323.22	-185.07	701.94	681.28	20.66	33.969	
4,600.00	4,566.13	4,560.10	4,550.21	11.12	10.06	148.39	-329.94	-185.91	715.17	694.04	21.13	33.839	
4,700.00	4,665.31	4,659.22	4,649.10	11.38	10.29	148.42	-336.67	-186.75	728.40	706.79	21.61	33.704	
4,800.00	4,764.50	4,758.34	4,747.98	11.63	10.53	148.44	-343.39	-187.58	741.63	719.54	22.09	33.567	
4,900.00	4,863.68	4,857.46	4,846.87	11.90	10.77	148.45	-350.11	-188.42	754.86	732.28	22.58	33.427	
5,000.00	4,962.87	4,956.58	4,945.76	12.16	11.01	148.47	-356.84	-189.26	768.09	745.02	23.08	33.286	
5,100.00	5,062.05	5,055.70	5,044.65	12.43	11.25	148.49	-363.56	-190.10	781.32	757.75	23.57	33.145	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
5,200.00	5,161.24	5,154.83	5,143.54	12.70	11.49	148.51	-370.29	-190.93	794.55	770.48	24.08	33.003	
5,300.00	5,260.42	5,253.95	5,242.43	12.97	11.74	148.53	-377.01	-191.77	807.78	783.20	24.58	32.861	
5,400.00	5,359.61	5,353.07	5,341.32	13.24	11.98	148.54	-383.74	-192.61	821.01	795.92	25.09	32.720	
5,500.00	5,458.79	5,452.19	5,440.21	13.52	12.23	148.56	-390.46	-193.45	834.24	808.64	25.61	32.580	
5,600.00	5,557.98	5,551.31	5,539.09	13.79	12.49	148.57	-397.18	-194.28	847.48	821.35	26.12	32.441	
5,700.00	5,657.16	5,650.43	5,637.98	14.07	12.74	148.59	-403.91	-195.12	860.71	834.06	26.64	32.304	
5,800.00	5,756.35	5,749.55	5,736.87	14.35	12.99	148.60	-410.63	-195.96	873.94	846.77	27.17	32.168	
5,900.00	5,855.53	5,848.67	5,835.76	14.63	13.25	148.62	-417.36	-196.80	887.17	859.47	27.69	32.034	
6,000.00	5,954.72	5,947.79	5,934.65	14.91	13.51	148.63	-424.08	-197.63	900.40	872.17	28.22	31.902	
6,100.00	6,053.90	6,046.91	6,033.54	15.20	13.77	148.64	-430.81	-198.47	913.63	884.87	28.76	31.772	
6,200.00	6,153.09	6,146.03	6,132.43	15.48	14.02	148.66	-437.53	-199.31	926.86	897.57	29.29	31.644	
6,300.00	6,252.27	6,245.15	6,231.32	15.77	14.29	148.67	-444.25	-200.15	940.09	910.26	29.83	31.519	
6,400.00	6,351.46	7,843.62	7,169.09	16.06	21.28	94.87	-503.28	729.38	858.19	829.57	28.62	29.981	
6,500.00	6,450.64	7,855.74	7,169.09	16.34	21.41	92.30	-503.22	741.49	763.04	733.91	29.12	26.200	
6,600.00	6,549.83	7,867.85	7,169.10	16.63	21.55	89.65	-503.16	753.61	669.08	639.36	29.72	22.516	
6,700.00	6,649.01	7,879.97	7,169.10	16.92	21.68	86.91	-503.10	765.72	576.90	546.44	30.46	18.942	
6,800.00	6,748.73	7,884.54	7,169.10	17.13	21.73	-43.35	-503.08	770.29	487.07	455.68	31.38	15.519	
6,900.00	6,847.93	7,873.44	7,169.10	17.25	21.61	-93.55	-503.13	759.20	402.45	369.89	32.56	12.360	
7,000.00	6,944.17	7,846.96	7,169.09	17.33	21.32	-102.62	-503.27	732.71	328.38	294.29	34.09	9.632	
7,100.00	7,035.09	7,805.73	7,169.08	17.37	20.86	-102.17	-503.47	691.48	271.66	235.79	35.87	7.574	
7,200.00	7,118.44	7,750.77	7,169.06	17.39	20.29	-95.48	-503.75	636.52	239.18	201.98	37.20	6.429	
7,276.16	7,175.57	7,700.53	7,169.04	17.40	19.77	-87.36	-504.00	586.29	232.19	194.89	37.31	6.224 SF	
7,300.00	7,192.18	7,683.44	7,169.04	17.41	19.61	-84.49	-504.09	569.20	232.79	195.62	37.18	6.262	
7,400.00	7,254.49	7,605.40	7,169.01	17.45	18.88	-72.11	-504.48	491.15	245.38	209.29	36.08	6.800	
7,500.00	7,303.82	7,523.27	7,168.50	17.54	18.19	-61.78	-504.86	409.03	265.93	231.06	34.87	7.626	
7,600.00	7,338.98	7,450.00	7,161.43	17.72	17.63	-54.05	-504.75	336.15	290.00	256.04	33.96	8.539	
7,700.00	7,359.09	7,379.02	7,146.65	18.02	17.17	-47.77	-504.10	266.77	315.50	282.05	33.45	9.431	
7,800.00	7,364.03	7,309.97	7,124.97	18.43	16.81	-43.09	-502.95	201.25	340.68	307.37	33.31	10.227	
7,900.00	7,364.15	7,245.41	7,098.41	19.00	16.58	-39.92	-501.45	142.45	371.58	338.17	33.41	11.120	
8,000.00	7,364.28	7,186.95	7,069.35	19.70	16.44	-36.83	-499.73	91.78	411.27	377.60	33.67	12.215	
8,100.00	7,364.41	7,134.61	7,039.49	20.52	16.33	-34.02	-497.92	48.85	459.21	425.19	34.01	13.501	
8,200.00	7,364.54	7,088.09	7,010.08	21.44	16.23	-31.55	-496.10	12.87	514.52	480.13	34.38	14.964	
8,300.00	7,364.67	7,050.00	6,984.10	22.46	16.16	-29.60	-494.47	-14.93	576.22	541.46	34.76	16.576	
8,400.00	7,364.79	7,010.42	6,955.39	23.54	16.08	-27.65	-492.66	-42.12	643.29	608.21	35.08	18.338	
8,500.00	7,364.92	6,978.12	6,930.76	24.70	16.02	-26.14	-491.09	-62.93	714.89	679.51	35.37	20.210	
8,600.00	7,365.05	6,950.00	6,908.48	25.91	15.96	-24.88	-489.66	-80.03	790.25	754.63	35.63	22.181	
8,700.00	7,365.18	6,923.96	6,887.19	27.17	15.90	-23.76	-488.29	-94.96	868.77	832.92	35.84	24.238	
8,800.00	7,365.31	6,900.00	6,867.08	28.47	15.86	-22.78	-486.99	-107.92	949.91	913.88	36.03	26.364	
8,900.00	7,365.43	6,880.77	6,850.60	29.81	15.81	-22.02	-485.92	-117.76	1,033.26	997.07	36.19	28.553	
9,000.00	7,365.56	6,850.00	6,823.63	31.19	15.75	-20.86	-484.16	-132.47	1,118.66	1,082.32	36.34	30.783	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	-112.13	-60.84	-149.61	161.51					
100.00	100.00	101.00	101.00	3.28	3.28	-112.13	-60.84	-149.61	161.51	153.98	7.53	21.452		
200.00	200.00	201.00	201.00	3.31	3.31	-112.13	-60.84	-149.61	161.51	153.94	7.57	21.324	CC, ES	
300.00	299.98	298.36	298.34	3.35	3.34	139.51	-62.52	-149.78	163.65	156.00	7.65	21.381		
400.00	399.84	395.48	395.32	3.41	3.40	139.05	-67.47	-150.28	170.04	162.27	7.77	21.878		
500.00	499.45	506.74	492.78	3.50	3.50	138.44	-75.48	-151.09	180.54	172.58	7.95	22.699		
600.00	598.73	607.62	591.51	3.62	3.60	138.40	-84.16	-151.96	193.77	185.58	8.18	23.682		
700.00	697.91	708.58	690.17	3.76	3.74	138.61	-92.83	-152.84	207.56	199.11	8.45	24.569		
800.00	797.10	790.46	788.83	3.93	3.86	138.79	-101.50	-153.71	221.35	212.63	8.73	25.368		
900.00	896.28	889.51	887.48	4.12	4.03	138.95	-110.18	-154.58	235.15	226.08	9.06	25.944		
1,000.00	995.47	988.55	986.14	4.33	4.21	139.09	-118.85	-155.46	248.94	239.51	9.43	26.388		
1,100.00	1,094.65	1,087.59	1,084.80	4.56	4.41	139.22	-127.53	-156.33	262.74	252.91	9.83	26.723		
1,200.00	1,193.84	1,186.63	1,183.45	4.80	4.62	139.33	-136.20	-157.20	276.54	266.29	10.25	26.967		
1,300.00	1,293.02	1,285.67	1,282.11	5.05	4.84	139.44	-144.88	-158.08	290.34	279.65	10.70	27.138		
1,400.00	1,392.21	1,384.71	1,380.77	5.31	5.07	139.53	-153.55	-158.95	304.15	292.99	11.16	27.250		
1,500.00	1,491.39	1,483.76	1,479.43	5.58	5.31	139.62	-162.22	-159.82	317.95	306.31	11.64	27.316		
1,600.00	1,590.58	1,582.80	1,578.08	5.86	5.55	139.70	-170.90	-160.70	331.75	319.62	12.13	27.344		
1,700.00	1,689.76	1,681.84	1,676.74	6.15	5.80	139.77	-179.57	-161.57	345.56	332.92	12.64	27.344		
1,800.00	1,788.95	1,780.88	1,775.40	6.43	6.06	139.83	-188.25	-162.44	359.36	346.21	13.15	27.322		
1,900.00	1,888.13	1,879.92	1,874.06	6.59	6.22	139.90	-196.92	-163.32	373.17	360.10	13.07	28.549		
2,000.00	1,987.32	1,978.97	1,972.71	6.62	6.26	139.95	-205.60	-164.19	386.97	373.84	13.14	29.460		
2,100.00	2,086.50	2,078.01	2,071.37	6.66	6.30	140.01	-214.27	-165.06	400.78	387.57	13.20	30.355		
2,200.00	2,185.69	2,177.05	2,170.03	6.72	6.34	140.06	-222.94	-165.94	414.58	401.28	13.30	31.175		
2,300.00	2,284.87	2,276.09	2,268.69	6.79	6.40	140.10	-231.62	-166.81	428.39	414.97	13.42	31.918		
2,400.00	2,384.06	2,375.13	2,367.34	6.88	6.47	140.15	-240.29	-167.68	442.20	428.62	13.57	32.583		
2,500.00	2,483.24	2,474.17	2,466.00	6.98	6.56	140.19	-248.97	-168.56	456.00	442.26	13.75	33.172		
2,600.00	2,582.43	2,573.22	2,564.66	7.09	6.66	140.23	-257.64	-169.43	469.81	455.86	13.95	33.685		
2,700.00	2,681.61	2,672.26	2,663.31	7.22	6.77	140.26	-266.32	-170.31	483.62	469.45	14.17	34.127		
2,800.00	2,780.80	2,771.30	2,761.97	7.35	6.89	140.30	-274.99	-171.18	497.42	483.01	14.42	34.502		
2,900.00	2,879.98	2,870.34	2,860.63	7.50	7.02	140.33	-283.66	-172.05	511.23	496.55	14.69	34.813		
3,000.00	2,979.17	2,969.38	2,959.29	7.66	7.16	140.36	-292.34	-172.93	525.04	510.07	14.97	35.066		
3,100.00	3,078.35	3,068.42	3,057.94	7.82	7.31	140.39	-301.01	-173.80	538.85	523.57	15.28	35.265		
3,200.00	3,177.54	3,167.47	3,156.60	8.00	7.47	140.42	-309.69	-174.67	552.65	537.05	15.60	35.416		
3,300.00	3,276.72	3,266.51	3,255.26	8.18	7.64	140.45	-318.36	-175.55	566.46	550.52	15.95	35.524		
3,400.00	3,375.91	3,365.55	3,353.92	8.37	7.81	140.47	-327.04	-176.42	580.27	563.97	16.30	35.593		
3,500.00	3,475.09	3,464.59	3,452.57	8.57	8.00	140.50	-335.71	-177.29	594.08	577.40	16.67	35.628		
3,600.00	3,574.28	3,563.63	3,551.23	8.78	8.18	140.52	-344.38	-178.17	607.89	590.83	17.06	35.633		
3,700.00	3,673.46	3,662.68	3,649.89	8.99	8.38	140.54	-353.06	-179.04	621.69	604.24	17.46	35.612		
3,800.00	3,772.65	3,761.72	3,748.54	9.21	8.58	140.56	-361.73	-179.91	635.50	617.64	17.87	35.568		
3,900.00	3,871.83	3,860.76	3,847.20	9.43	8.79	140.58	-370.41	-180.79	649.31	631.02	18.29	35.505		
4,000.00	3,971.02	3,959.80	3,945.86	9.66	9.00	140.60	-379.08	-181.66	663.12	644.40	18.72	35.426		
4,100.00	4,070.20	4,058.84	4,044.52	9.89	9.22	140.62	-387.76	-182.53	676.93	657.77	19.16	35.333		
4,200.00	4,169.39	4,157.88	4,143.17	10.13	9.44	140.64	-396.43	-183.41	690.74	671.13	19.61	35.228		
4,300.00	4,268.57	4,256.93	4,241.83	10.37	9.66	140.65	-405.10	-184.28	704.55	684.48	20.07	35.113		
4,400.00	4,367.76	4,355.97	4,340.49	10.62	9.89	140.67	-413.78	-185.15	718.36	697.83	20.53	34.990		
4,500.00	4,466.94	4,455.01	4,439.15	10.87	10.12	140.69	-422.45	-186.03	732.16	711.16	21.00	34.861		
4,600.00	4,566.13	4,554.05	4,537.80	11.12	10.36	140.70	-431.13	-186.90	745.97	724.49	21.48	34.727		
4,700.00	4,665.31	4,653.09	4,636.46	11.38	10.60	140.72	-439.80	-187.78	759.78	737.82	21.97	34.588		
4,800.00	4,764.50	4,752.14	4,735.12	11.63	10.84	140.73	-448.48	-188.65	773.59	751.13	22.46	34.447		
4,900.00	4,863.68	4,851.18	4,833.78	11.90	11.08	140.74	-457.15	-189.52	787.40	764.45	22.95	34.304		
5,000.00	4,962.87	4,950.22	4,932.43	12.16	11.33	140.76	-465.82	-190.40	801.21	777.76	23.46	34.159		
5,100.00	5,062.05	5,049.26	5,031.09	12.43	11.58	140.77	-474.50	-191.27	815.02	791.06	23.96	34.014		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 Design5N-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							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	5,161.24	5,148.30	5,129.75	12.70	11.83	140.78	-483.17	-192.14	828.83	804.36	24.47	33.868	
5,300.00	5,260.42	5,247.34	5,228.40	12.97	12.09	140.79	-491.85	-193.02	842.64	817.65	24.99	33.723	
5,400.00	5,359.61	5,346.39	5,327.06	13.24	12.34	140.81	-500.52	-193.89	856.45	830.94	25.51	33.579	
5,500.00	5,458.79	5,445.43	5,425.72	13.52	12.60	140.82	-509.20	-194.76	870.26	844.23	26.03	33.435	
5,600.00	5,557.98	5,544.47	5,524.38	13.79	12.86	140.83	-517.87	-195.64	884.07	857.51	26.55	33.293	
5,700.00	5,657.16	5,643.51	5,623.03	14.07	13.12	140.84	-526.54	-196.51	897.88	870.79	27.08	33.152	
5,800.00	5,756.35	5,742.55	5,721.69	14.35	13.38	140.85	-535.22	-197.38	911.69	884.07	27.62	33.013	
5,900.00	5,855.53	5,841.59	5,820.35	14.63	13.64	140.86	-543.89	-198.26	925.50	897.34	28.15	32.876	
6,000.00	5,954.72	5,940.64	5,919.01	14.91	13.91	140.87	-552.57	-199.13	939.30	910.62	28.69	32.741	
6,100.00	6,053.90	6,039.68	6,017.66	15.20	14.18	140.88	-561.24	-200.00	953.11	923.88	29.23	32.608	
6,200.00	6,153.09	6,138.72	6,116.32	15.48	14.44	140.89	-569.92	-200.88	966.92	937.15	29.77	32.477	
6,300.00	6,252.27	6,237.76	6,214.98	15.77	14.71	140.90	-578.59	-201.75	980.73	950.42	30.32	32.348	
6,400.00	6,351.46	7,913.60	7,234.51	16.06	21.67	87.70	-682.32	720.00	987.02	957.39	29.63	33.315	
6,500.00	6,450.64	7,925.93	7,234.53	16.34	21.81	86.09	-682.51	732.34	987.64	867.34	30.30	29.623	
6,600.00	6,549.83	7,938.27	7,234.55	16.63	21.94	84.46	-682.69	744.67	810.56	779.46	31.10	26.062	
6,700.00	6,649.01	7,950.60	7,234.57	16.92	22.08	82.81	-682.88	757.01	726.60	694.53	32.07	22.657	
6,800.00	6,748.73	7,955.40	7,234.58	17.13	22.13	-40.86	-682.96	761.80	646.50	613.33	33.17	19.488	
6,900.00	6,847.93	7,944.52	7,234.56	17.25	22.01	-87.81	-682.79	750.93	572.81	538.46	34.35	16.678	
7,000.00	6,944.17	7,918.25	7,234.52	17.33	21.72	-96.90	-682.39	724.66	509.51	473.99	35.51	14.347	
7,100.00	7,035.09	7,877.23	7,234.45	17.37	21.28	-98.92	-681.76	683.64	460.17	423.65	36.52	12.600	
7,200.00	7,118.44	7,822.46	7,234.35	17.39	20.72	-96.91	-680.92	628.88	426.95	389.81	37.14	11.496	
7,300.00	7,192.18	7,755.30	7,234.23	17.41	20.07	-92.25	-679.90	561.72	409.45	372.22	37.23	10.997	
7,400.00	7,254.49	7,677.40	7,234.10	17.45	19.37	-86.21	-678.71	483.83	404.47	367.60	36.87	10.970 SF	
7,404.34	7,256.90	7,673.81	7,234.09	17.45	19.34	-85.94	-678.65	480.24	404.46	367.61	36.85	10.976	
7,500.00	7,303.82	7,592.41	7,233.22	17.54	18.68	-80.17	-677.34	398.86	407.11	370.80	36.30	11.214	
7,600.00	7,338.98	7,511.03	7,224.02	17.72	18.12	-74.53	-675.31	318.09	414.18	378.42	35.77	11.580	
7,700.00	7,359.09	7,433.31	7,205.73	18.02	17.70	-69.24	-672.56	242.66	424.48	389.10	35.38	11.998	
7,800.00	7,364.03	7,358.57	7,179.63	18.43	17.42	-64.63	-669.20	172.75	436.88	401.68	35.20	12.411	
7,900.00	7,364.15	7,289.79	7,148.55	19.00	17.23	-60.79	-665.54	111.54	454.93	419.70	35.24	12.911	
8,000.00	7,364.28	7,228.68	7,115.54	19.70	17.10	-56.96	-661.86	60.26	481.49	446.06	35.43	13.589	
8,100.00	7,364.41	7,174.96	7,082.60	20.52	16.98	-53.39	-658.32	18.00	517.08	481.34	35.74	14.469	
8,200.00	7,364.54	7,128.01	7,050.99	21.44	16.89	-50.19	-655.01	-16.54	561.48	525.39	36.09	15.558	
8,300.00	7,364.67	7,087.05	7,021.40	22.46	16.80	-47.41	-651.98	-44.69	613.92	577.48	36.44	16.845	
8,400.00	7,364.79	7,050.00	6,993.13	23.54	16.72	-44.93	-649.13	-68.46	673.40	636.63	36.76	18.317	
8,500.00	7,364.92	7,019.96	6,969.23	24.70	16.66	-42.97	-646.75	-86.50	738.82	701.78	37.05	19.943	
8,600.00	7,365.05	7,000.00	6,952.89	25.91	16.62	-41.69	-645.14	-97.85	809.30	771.99	37.31	21.693	
8,700.00	7,365.18	6,968.15	6,926.10	27.17	16.55	-39.71	-642.53	-114.87	883.74	846.25	37.49	23.572	
8,800.00	7,365.31	6,950.00	6,910.47	28.47	16.51	-38.61	-641.01	-123.96	961.69	924.03	37.66	25.538	
8,900.00	7,365.43	6,927.42	6,890.67	29.81	16.46	-37.28	-639.11	-134.64	1,042.43	1,004.64	37.79	27.585	
9,000.00	7,365.56	6,900.00	6,866.13	31.19	16.40	-35.73	-636.76	-146.66	1,125.66	1,087.76	37.90	29.697	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	180.00	-20.03	0.00	20.03				
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-20.03	0.00	20.03	12.50	7.53	2.661	
200.00	200.00	200.00	200.00	3.31	3.31	180.00	-20.03	0.00	20.03	12.46	7.57	2.645 CC	
300.00	299.98	299.76	299.74	3.35	3.35	71.86	-20.63	1.63	20.08	12.43	7.66	2.623 ES	
400.00	399.84	399.52	399.36	3.41	3.41	72.04	-22.41	6.53	20.23	12.46	7.78	2.602	
500.00	499.45	499.28	498.74	3.50	3.50	72.34	-25.37	14.68	20.49	12.54	7.95	2.577	
600.00	598.73	599.07	597.78	3.62	3.62	72.25	-29.52	26.06	20.90	12.72	8.18	2.555	
700.00	697.91	700.94	696.85	3.76	3.77	70.50	-34.16	38.82	21.57	13.10	8.47	2.547	
800.00	797.10	800.94	795.92	3.93	3.94	68.85	-38.80	51.57	22.25	13.46	8.80	2.530	
900.00	896.28	900.95	894.99	4.12	4.14	67.30	-43.44	64.32	22.96	13.79	9.17	2.505	
1,000.00	995.47	999.05	994.06	4.33	4.35	65.84	-48.08	77.07	23.68	14.12	9.56	2.476	
1,100.00	1,094.65	1,100.95	1,093.13	4.56	4.59	64.47	-52.73	89.83	24.42	14.42	10.00	2.442	
1,200.00	1,193.84	1,200.96	1,192.20	4.80	4.83	63.18	-57.37	102.58	25.17	14.72	10.45	2.408	
1,300.00	1,293.02	1,299.04	1,291.27	5.05	5.09	61.97	-62.01	115.33	25.93	15.01	10.92	2.374	
1,400.00	1,392.21	1,400.97	1,390.34	5.31	5.36	60.82	-66.65	128.08	26.70	15.29	11.41	2.339	
1,500.00	1,491.39	1,500.97	1,489.41	5.58	5.64	59.74	-71.29	140.84	27.48	15.57	11.92	2.306	
1,600.00	1,590.58	1,600.98	1,588.48	5.86	5.93	58.72	-75.93	153.59	28.27	15.84	12.43	2.274	
1,700.00	1,689.76	1,700.98	1,687.56	6.15	6.22	57.76	-80.58	166.34	29.07	16.12	12.96	2.244	
1,800.00	1,788.95	1,800.98	1,786.63	6.43	6.52	56.85	-85.22	179.09	29.88	16.39	13.49	2.215	
1,900.00	1,888.13	1,900.99	1,885.70	6.59	6.67	55.98	-89.86	191.85	30.70	17.31	13.39	2.293	
2,000.00	1,987.32	2,000.99	1,984.77	6.62	6.71	55.16	-94.50	204.60	31.52	18.10	13.42	2.349	
2,100.00	2,086.50	2,101.00	2,083.84	6.66	6.75	54.39	-99.14	217.35	32.35	18.86	13.48	2.399	
2,200.00	2,185.69	2,201.00	2,182.91	6.72	6.81	53.65	-103.78	230.10	33.18	19.61	13.57	2.444	
2,300.00	2,284.87	2,301.01	2,281.98	6.79	6.89	52.95	-108.42	242.86	34.02	20.33	13.69	2.484	
2,400.00	2,384.06	2,401.01	2,381.05	6.88	6.98	52.28	-113.07	255.61	34.86	21.02	13.84	2.519	
2,500.00	2,483.24	2,501.02	2,480.12	6.98	7.08	51.64	-117.71	268.36	35.71	21.70	14.01	2.549	
2,600.00	2,582.43	2,601.02	2,579.19	7.09	7.20	51.04	-122.35	281.11	36.56	22.36	14.20	2.574	
2,700.00	2,681.61	2,701.02	2,678.26	7.22	7.32	50.46	-126.99	293.87	37.42	22.99	14.42	2.594	
2,800.00	2,780.80	2,801.03	2,777.33	7.35	7.46	49.90	-131.63	306.62	38.28	23.61	14.67	2.610	
2,900.00	2,879.98	2,901.03	2,876.40	7.50	7.61	49.37	-136.27	319.37	39.14	24.21	14.93	2.622	
3,000.00	2,979.17	3,001.04	2,975.47	7.66	7.77	48.87	-140.92	332.12	40.01	24.80	15.21	2.630	
3,100.00	3,078.35	3,101.04	3,074.54	7.82	7.95	48.38	-145.56	344.88	40.88	25.36	15.51	2.635	
3,200.00	3,177.54	3,201.05	3,173.61	8.00	8.12	47.92	-150.20	357.63	41.75	25.92	15.83	2.637	
3,300.00	3,276.72	3,301.05	3,272.68	8.18	8.31	47.48	-154.84	370.38	42.62	26.46	16.17	2.636	
3,400.00	3,375.91	3,401.05	3,371.75	8.37	8.51	47.05	-159.48	383.13	43.50	26.98	16.52	2.634	
3,500.00	3,475.09	3,501.06	3,470.82	8.57	8.71	46.64	-164.12	395.89	44.38	27.50	16.88	2.629	
3,600.00	3,574.28	3,601.06	3,569.89	8.78	8.92	46.24	-168.76	408.64	45.26	28.00	17.26	2.622	
3,700.00	3,673.46	3,698.93	3,668.96	8.99	9.13	45.86	-173.41	421.39	46.14	28.49	17.65	2.614	
3,800.00	3,772.65	3,801.07	3,768.03	9.21	9.36	45.50	-178.05	434.14	47.03	28.97	18.06	2.605	
3,900.00	3,871.83	3,901.08	3,867.11	9.43	9.59	45.15	-182.69	446.90	47.92	29.45	18.47	2.594	
4,000.00	3,971.02	4,001.08	3,966.18	9.66	9.82	44.81	-187.33	459.65	48.81	29.91	18.90	2.583	
4,100.00	4,070.20	4,101.09	4,065.25	9.89	10.06	44.48	-191.97	472.40	49.70	30.37	19.33	2.571	
4,200.00	4,169.39	4,201.09	4,164.32	10.13	10.30	44.17	-196.61	485.15	50.59	30.82	19.77	2.559	
4,300.00	4,268.57	4,301.09	4,263.39	10.37	10.55	43.86	-201.26	497.91	51.48	31.26	20.22	2.546	
4,400.00	4,367.76	4,401.10	4,362.46	10.62	10.80	43.57	-205.90	510.66	52.38	31.70	20.68	2.533	
4,500.00	4,466.94	4,501.10	4,461.53	10.87	11.06	43.29	-210.54	523.41	53.28	32.13	21.15	2.519	
4,600.00	4,566.13	4,601.11	4,560.60	11.12	11.31	43.01	-215.18	536.16	54.17	32.56	21.62	2.506	
4,700.00	4,665.31	4,701.11	4,659.67	11.38	11.57	42.75	-219.82	548.92	55.07	32.98	22.10	2.492	
4,800.00	4,764.50	4,801.12	4,758.74	11.63	11.84	42.49	-224.46	561.67	55.97	33.39	22.58	2.479	
4,900.00	4,863.68	4,901.12	4,857.81	11.90	12.11	42.24	-229.10	574.42	56.87	33.80	23.07	2.465	
5,000.00	4,962.87	5,001.12	4,956.88	12.16	12.37	42.00	-233.75	587.17	57.78	34.21	23.56	2.452	
5,100.00	5,062.05	5,101.13	5,055.95	12.43	12.65	41.76	-238.39	599.93	58.68	34.62	24.06	2.439	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,201.13	5,155.02	12.70	12.92	41.54	-243.03	612.68	59.58	35.02	24.57	2.425		
5,300.00	5,260.42	5,301.14	5,254.09	12.97	13.20	41.32	-247.67	625.43	60.49	35.41	25.07	2.412		
5,400.00	5,359.61	5,401.14	5,353.16	13.24	13.47	41.11	-252.31	638.19	61.40	35.81	25.59	2.400		
5,500.00	5,458.79	5,501.15	5,452.23	13.52	13.75	40.90	-256.95	650.94	62.30	36.20	26.10	2.387		
5,600.00	5,557.98	5,601.15	5,551.30	13.79	14.04	40.70	-261.60	663.69	63.21	36.59	26.62	2.374		
5,700.00	5,657.16	5,701.16	5,650.37	14.07	14.32	40.50	-266.24	676.44	64.12	36.98	27.14	2.362		
5,800.00	5,756.35	5,801.16	5,749.44	14.35	14.60	40.31	-270.88	689.20	65.03	37.36	27.67	2.350		
5,900.00	5,855.53	5,901.16	5,848.51	14.63	14.89	40.13	-275.52	701.95	65.94	37.74	28.20	2.339		
6,000.00	5,954.72	6,001.17	5,947.59	14.91	15.18	39.95	-280.16	714.70	66.85	38.12	28.73	2.327		
6,100.00	6,053.90	6,101.17	6,046.66	15.20	15.47	39.77	-284.80	727.45	67.76	38.50	29.26	2.316		
6,200.00	6,153.09	6,201.18	6,145.73	15.48	15.76	39.60	-289.44	740.21	68.67	38.88	29.79	2.305		
6,300.00	6,252.27	6,301.18	6,244.80	15.77	16.05	39.44	-294.09	752.96	69.58	39.25	30.33	2.294		
6,400.00	6,351.46	6,399.64	6,344.70	16.06	16.33	39.38	-298.77	765.66	70.42	39.55	30.87	2.281		
6,500.00	6,450.64	6,504.69	6,449.49	16.34	16.51	47.22	-303.65	768.13	66.29	34.63	31.66	2.094		
6,600.00	6,549.83	6,603.83	6,547.50	16.63	16.62	69.71	-308.17	754.62	60.83	27.71	33.12	1.837		
6,603.34	6,553.14	6,606.98	6,550.58	16.64	16.62	70.70	-308.31	753.94	60.82	27.65	33.17	1.834 SF		
6,700.00	6,649.01	6,693.30	6,633.20	16.92	16.68	100.15	-312.09	729.48	71.89	38.14	33.75	2.130		
6,800.00	6,748.73	6,774.98	6,707.67	17.13	16.71	10.68	-315.46	696.24	103.03	70.40	32.63	3.157		
6,900.00	6,847.93	6,853.04	6,774.32	17.25	16.72	-16.79	-318.45	655.81	139.19	107.70	31.50	4.419		
7,000.00	6,944.17	6,928.26	6,833.41	17.33	16.73	-15.77	-321.07	609.40	174.81	144.25	30.56	5.720		
7,100.00	7,035.09	7,000.00	6,884.30	17.37	16.74	-13.94	-323.30	558.94	207.89	178.13	29.76	6.985		
7,200.00	7,118.44	7,072.52	6,929.65	17.39	16.77	-12.38	-325.26	502.44	237.47	208.26	29.21	8.130		
7,300.00	7,192.18	7,142.41	6,967.02	17.41	16.82	-11.26	-326.84	443.43	263.00	234.17	28.83	9.123		
7,400.00	7,254.49	7,211.26	6,997.29	17.45	16.90	-10.44	-328.08	381.65	284.11	255.42	28.69	9.904		
7,500.00	7,303.82	7,279.33	7,020.51	17.54	17.03	-9.87	-328.99	317.70	300.52	271.71	28.80	10.433		
7,600.00	7,338.98	7,350.00	7,037.25	17.72	17.22	-9.48	-329.58	249.08	312.07	282.89	29.18	10.694		
7,700.00	7,359.09	7,414.04	7,045.78	18.02	17.46	-9.29	-329.81	185.64	318.58	288.75	29.83	10.680		
7,800.00	7,364.03	7,487.94	7,048.00	18.43	17.79	-9.24	-329.71	111.80	320.18	289.54	30.64	10.449		
7,900.00	7,364.15	7,587.94	7,048.01	19.00	18.38	-9.23	-329.45	11.80	320.29	288.90	31.39	10.205		
8,000.00	7,364.28	7,687.94	7,048.02	19.70	19.11	-9.22	-329.18	-88.20	320.40	288.18	32.22	9.944		
8,100.00	7,364.41	7,787.94	7,048.04	20.52	19.97	-9.21	-328.91	-188.20	320.51	287.37	33.14	9.672		
8,200.00	7,364.54	7,887.94	7,048.05	21.44	20.92	-9.20	-328.64	-288.20	320.61	286.49	34.13	9.394		
8,300.00	7,364.67	7,987.94	7,048.06	22.46	21.96	-9.19	-328.37	-388.20	320.72	285.53	35.19	9.114		
8,400.00	7,364.79	8,087.94	7,048.08	23.54	23.08	-9.18	-328.10	-488.20	320.83	284.52	36.32	8.834		
8,500.00	7,364.92	8,187.94	7,048.09	24.70	24.26	-9.18	-327.83	-588.20	320.94	283.44	37.50	8.559		
8,600.00	7,365.05	8,287.94	7,048.10	25.91	25.50	-9.17	-327.57	-688.20	321.05	282.31	38.73	8.289		
8,700.00	7,365.18	8,387.94	7,048.11	27.17	26.78	-9.16	-327.30	-788.20	321.16	281.14	40.02	8.026		
8,800.00	7,365.31	8,487.94	7,048.13	28.47	28.11	-9.15	-327.03	-888.20	321.27	279.92	41.34	7.771		
8,900.00	7,365.43	8,587.94	7,048.14	29.81	29.47	-9.14	-326.76	-988.20	321.37	278.67	42.71	7.525		
9,000.00	7,365.56	8,687.94	7,048.15	31.19	30.86	-9.13	-326.49	-1,088.20	321.48	277.38	44.10	7.289		
9,100.00	7,365.69	8,787.94	7,048.17	32.59	32.28	-9.12	-326.22	-1,188.20	321.59	276.06	45.53	7.063		
9,200.00	7,365.82	8,887.94	7,048.18	34.01	33.72	-9.11	-325.95	-1,288.20	321.70	274.71	46.99	6.846		
9,300.00	7,365.95	8,987.94	7,048.19	35.46	35.18	-9.10	-325.69	-1,388.19	321.81	273.33	48.48	6.638		
9,400.00	7,366.08	9,087.94	7,048.20	36.92	36.66	-9.09	-325.42	-1,488.19	321.92	271.93	49.99	6.440		
9,500.00	7,366.20	9,187.94	7,048.22	38.40	38.15	-9.08	-325.15	-1,588.19	322.03	270.51	51.52	6.251		
9,600.00	7,366.33	9,287.94	7,048.23	39.90	39.66	-9.08	-324.88	-1,688.19	322.13	269.06	53.07	6.070		
9,700.00	7,366.46	9,387.94	7,048.24	41.41	41.18	-9.07	-324.61	-1,788.19	322.24	267.61	54.64	5.898		
9,800.00	7,366.59	9,487.94	7,048.26	42.93	42.72	-9.06	-324.34	-1,888.19	322.35	266.13	56.22	5.734		
9,900.00	7,366.72	9,587.94	7,048.27	44.47	44.26	-9.05	-324.07	-1,988.19	322.46	264.64	57.82	5.577		
10,000.00	7,366.84	9,687.94	7,048.28	46.01	45.81	-9.04	-323.81	-2,088.19	322.57	263.13	59.44	5.427		
10,100.00	7,366.97	9,787.94	7,048.29	47.56	47.37	-9.03	-323.54	-2,188.19	322.68	261.61	61.06	5.284		
10,200.00	7,367.10	9,887.94	7,048.31	49.12	48.94	-9.02	-323.27	-2,288.19	322.79	260.09	62.70	5.148		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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								
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	7,367.23	9,987.94	7,048.32	50.68	50.51	-9.01	-323.00	-2,388.19	322.89	258.55	64.35	5.018		
10,400.00	7,367.36	10,087.94	7,048.33	52.26	52.09	-9.00	-322.73	-2,488.19	323.00	257.00	66.01	4.893		
10,500.00	7,367.49	10,187.94	7,048.35	53.84	53.68	-8.99	-322.46	-2,588.19	323.11	255.44	67.68	4.774		
10,600.00	7,367.61	10,287.94	7,048.36	55.42	55.27	-8.98	-322.20	-2,688.19	323.22	253.87	69.35	4.661		
10,700.00	7,367.74	10,387.94	7,048.37	57.01	56.86	-8.98	-321.93	-2,788.19	323.33	252.29	71.04	4.552		
10,800.00	7,367.87	10,487.94	7,048.39	58.60	58.46	-8.97	-321.66	-2,888.19	323.44	250.71	72.73	4.447		
10,900.00	7,368.00	10,587.94	7,048.40	60.20	60.07	-8.96	-321.39	-2,988.19	323.55	249.12	74.43	4.347		
11,000.00	7,368.13	10,687.94	7,048.41	61.80	61.68	-8.95	-321.12	-3,088.19	323.65	247.52	76.13	4.251		
11,100.00	7,368.25	10,787.94	7,048.42	63.41	63.29	-8.94	-320.85	-3,188.19	323.76	245.92	77.84	4.159		
11,200.00	7,368.38	10,887.94	7,048.44	65.02	64.90	-8.93	-320.58	-3,288.19	323.87	244.31	79.56	4.071		
11,300.00	7,368.51	10,987.94	7,048.45	66.63	66.52	-8.92	-320.32	-3,388.19	323.98	242.70	81.28	3.986		
11,400.00	7,368.64	11,087.94	7,048.46	68.24	68.14	-8.91	-320.05	-3,488.19	324.09	241.08	83.01	3.904		
11,500.00	7,368.77	11,187.94	7,048.48	69.86	69.76	-8.90	-319.78	-3,588.19	324.20	239.46	84.74	3.826		
11,600.00	7,368.90	11,287.94	7,048.49	71.48	71.38	-8.89	-319.51	-3,688.19	324.31	237.84	86.47	3.750		
11,700.00	7,369.02	11,387.94	7,048.50	73.10	73.01	-8.89	-319.24	-3,788.18	324.42	236.21	88.21	3.678		
11,800.00	7,369.15	11,487.94	7,048.51	74.73	74.64	-8.88	-318.97	-3,888.18	324.52	234.57	89.95	3.608		
11,900.00	7,369.28	11,587.94	7,048.53	76.36	76.27	-8.87	-318.70	-3,988.18	324.63	232.94	91.70	3.540		
12,000.00	7,369.41	11,687.94	7,048.54	77.98	77.90	-8.86	-318.44	-4,088.18	324.74	231.30	93.45	3.475		
12,100.00	7,369.54	11,787.94	7,048.55	79.61	79.53	-8.85	-318.17	-4,188.18	324.85	229.65	95.20	3.412		
12,200.00	7,369.66	11,887.94	7,048.57	81.25	81.17	-8.84	-317.90	-4,288.18	324.96	228.01	96.95	3.352		
12,300.00	7,369.79	11,987.94	7,048.58	82.88	82.80	-8.83	-317.63	-4,388.18	325.07	226.36	98.71	3.293		
12,400.00	7,369.92	12,087.94	7,048.59	84.52	84.44	-8.82	-317.36	-4,488.18	325.18	224.70	100.47	3.236		
12,500.00	7,370.05	12,187.94	7,048.60	86.15	86.08	-8.81	-317.09	-4,588.18	325.29	223.05	102.24	3.182		
12,600.00	7,370.18	12,287.94	7,048.62	87.79	87.72	-8.81	-316.83	-4,688.18	325.40	221.39	104.00	3.129		
12,700.00	7,370.30	12,387.94	7,048.63	89.43	89.36	-8.80	-316.56	-4,788.18	325.50	219.74	105.77	3.078		
12,800.00	7,370.43	12,487.94	7,048.64	91.07	91.01	-8.79	-316.29	-4,888.18	325.61	218.07	107.54	3.028		
12,900.00	7,370.56	12,587.94	7,048.66	92.71	92.65	-8.78	-316.02	-4,988.18	325.72	216.41	109.31	2.980		
13,000.00	7,370.69	12,687.94	7,048.67	94.35	94.29	-8.77	-315.75	-5,088.18	325.83	214.75	111.08	2.933		
13,100.00	7,370.82	12,787.94	7,048.68	96.00	95.94	-8.76	-315.48	-5,188.18	325.94	213.08	112.86	2.888		
13,200.00	7,370.95	12,887.94	7,048.69	97.64	97.59	-8.75	-315.21	-5,288.18	326.05	211.41	114.63	2.844		
13,300.00	7,371.07	12,987.94	7,048.71	99.29	99.23	-8.74	-314.95	-5,388.18	326.16	209.74	116.41	2.802		
13,400.00	7,371.20	13,087.94	7,048.72	100.93	100.88	-8.73	-314.68	-5,488.18	326.27	208.07	118.19	2.760		
13,500.00	7,371.33	13,187.94	7,048.73	102.58	102.53	-8.73	-314.41	-5,588.18	326.37	206.40	119.97	2.720		
13,600.00	7,371.46	13,287.94	7,048.75	104.23	104.18	-8.72	-314.14	-5,688.18	326.48	204.73	121.76	2.681		
13,700.00	7,371.59	13,387.94	7,048.76	105.88	105.83	-8.71	-313.87	-5,788.18	326.59	203.05	123.54	2.644		
13,800.00	7,371.71	13,487.94	7,048.77	107.53	107.48	-8.70	-313.60	-5,888.18	326.70	201.38	125.33	2.607		
13,900.00	7,371.84	13,587.94	7,048.78	109.18	109.13	-8.69	-313.33	-5,988.18	326.81	199.70	127.11	2.571		
14,000.00	7,371.97	13,687.94	7,048.80	110.83	110.79	-8.68	-313.07	-6,088.17	326.92	198.02	128.90	2.536		
14,100.00	7,372.10	13,787.94	7,048.81	112.48	112.44	-8.67	-312.80	-6,188.17	327.03	196.34	130.69	2.502		
14,200.00	7,372.23	13,887.94	7,048.82	114.13	114.09	-8.66	-312.53	-6,288.17	327.14	194.66	132.48	2.469		
14,300.00	7,372.36	13,987.94	7,048.84	115.78	115.75	-8.65	-312.26	-6,388.17	327.25	192.98	134.27	2.437		
14,400.00	7,372.48	14,087.94	7,048.85	117.44	117.40	-8.65	-311.99	-6,488.17	327.36	191.30	136.06	2.406		
14,500.00	7,372.61	14,187.94	7,048.86	119.09	119.06	-8.64	-311.72	-6,588.17	327.46	189.61	137.85	2.375		
14,600.00	7,372.74	14,287.94	7,048.87	120.74	120.71	-8.63	-311.46	-6,688.17	327.57	187.93	139.65	2.346		
14,700.00	7,372.87	14,387.94	7,048.89	122.40	122.37	-8.62	-311.19	-6,788.17	327.68	186.24	141.44	2.317		
14,800.00	7,373.00	14,487.94	7,048.90	124.05	124.02	-8.61	-310.92	-6,888.17	327.79	184.56	143.23	2.289		
14,900.00	7,373.12	14,587.94	7,048.91	125.71	125.68	-8.60	-310.65	-6,988.17	327.90	182.87	145.03	2.261		
15,000.00	7,373.25	14,687.94	7,048.93	127.36	127.34	-8.59	-310.38	-7,088.17	328.01	181.18	146.83	2.234		
15,100.00	7,373.38	14,787.94	7,048.94	129.02	129.00	-8.58	-310.11	-7,188.17	328.12	179.50	148.62	2.208		
15,200.00	7,373.51	14,887.94	7,048.95	130.68	130.65	-8.58	-309.84	-7,288.17	328.23	177.81	150.42	2.182		
15,300.00	7,373.64	14,987.94	7,048.96	132.33	132.31	-8.57	-309.58	-7,388.17	328.34	176.12	152.22	2.157		
15,400.00	7,373.77	15,087.94	7,048.98	133.99	133.97	-8.56	-309.31	-7,488.17	328.45	174.43	154.02	2.133		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
15,500.00	7,373.89	15,187.94	7,048.99	135.65	135.63	-8.55	-309.04	-7,588.17	328.55	172.74	155.82	2.109	
15,583.33	7,374.00	15,271.26	7,049.00	137.03	137.01	-8.54	-308.81	-7,671.50	328.65	171.33	157.31	2.089	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-0.80	20.04	-0.28	20.04				
100.00	100.00	100.00	100.00	3.28	3.28	-0.80	20.04	-0.28	20.04	12.51	7.53	2.662	
200.00	200.00	200.00	200.00	3.31	3.31	-0.80	20.04	-0.28	20.04	12.47	7.57	2.646	CC, ES
300.00	299.98	300.04	300.02	3.35	3.35	-108.73	19.96	1.47	20.51	12.85	7.66	2.678	
400.00	399.84	400.06	399.90	3.41	3.41	-107.99	19.74	6.70	21.92	14.13	7.78	2.816	
500.00	499.45	500.06	499.51	3.50	3.50	-106.95	19.36	15.41	24.26	16.30	7.96	3.048	
600.00	598.73	600.02	598.75	3.62	3.62	-105.96	18.84	27.31	27.50	19.31	8.19	3.356	
700.00	697.91	700.04	697.90	3.76	3.77	-105.37	18.29	39.86	30.95	22.46	8.48	3.648	
800.00	797.10	800.10	797.05	3.93	3.93	-104.89	17.74	52.41	34.40	25.58	8.82	3.899	
900.00	896.28	900.16	896.19	4.12	4.12	-104.50	17.19	64.96	37.85	28.65	9.20	4.114	
1,000.00	995.47	1,000.22	995.34	4.33	4.33	-104.18	16.64	77.51	41.30	31.69	9.61	4.296	
1,100.00	1,094.65	1,100.28	1,094.49	4.56	4.56	-103.91	16.10	90.06	44.76	34.70	10.06	4.449	
1,200.00	1,193.84	1,200.34	1,193.64	4.80	4.79	-103.68	15.55	102.60	48.21	37.68	10.53	4.578	
1,300.00	1,293.02	1,300.40	1,292.78	5.05	5.04	-103.47	15.00	115.15	51.67	40.64	11.03	4.686	
1,400.00	1,392.21	1,400.46	1,391.93	5.31	5.30	-103.30	14.45	127.70	55.12	43.58	11.54	4.776	
1,500.00	1,491.39	1,500.52	1,491.08	5.58	5.56	-103.14	13.90	140.25	58.58	46.51	12.07	4.852	
1,600.00	1,590.58	1,600.58	1,590.23	5.86	5.84	-103.00	13.36	152.80	62.04	49.42	12.62	4.916	
1,700.00	1,689.76	1,700.64	1,689.38	6.15	6.12	-102.88	12.81	165.35	65.50	52.32	13.18	4.970	
1,800.00	1,788.95	1,800.70	1,788.52	6.43	6.40	-102.77	12.26	177.90	68.96	55.21	13.75	5.015	
1,900.00	1,888.13	1,900.76	1,887.67	6.59	6.55	-102.66	11.71	190.44	72.41	58.74	13.67	5.296	
2,000.00	1,987.32	2,000.82	1,986.82	6.62	6.58	-102.57	11.17	202.99	75.87	62.14	13.73	5.525	
2,100.00	2,086.50	2,100.88	2,085.97	6.66	6.63	-102.49	10.62	215.54	79.33	65.51	13.82	5.741	
2,200.00	2,185.69	2,200.94	2,185.11	6.72	6.68	-102.41	10.07	228.09	82.79	68.85	13.93	5.941	
2,300.00	2,284.87	2,301.00	2,284.26	6.79	6.76	-102.34	9.52	240.64	86.25	72.17	14.08	6.126	
2,400.00	2,384.06	2,401.06	2,383.41	6.88	6.84	-102.28	8.97	253.19	89.71	75.46	14.25	6.296	
2,500.00	2,483.24	2,501.12	2,482.56	6.98	6.94	-102.22	8.43	265.73	93.17	78.72	14.44	6.450	
2,600.00	2,582.43	2,601.18	2,581.70	7.09	7.05	-102.16	7.88	278.28	96.63	81.96	14.67	6.589	
2,700.00	2,681.61	2,701.24	2,680.85	7.22	7.17	-102.11	7.33	290.83	100.09	85.17	14.91	6.713	
2,800.00	2,780.80	2,801.30	2,780.00	7.35	7.30	-102.06	6.78	303.38	103.54	88.37	15.18	6.822	
2,900.00	2,879.98	2,901.36	2,879.15	7.50	7.45	-102.01	6.23	315.93	107.00	91.54	15.47	6.919	
3,000.00	2,979.17	3,001.42	2,978.30	7.66	7.60	-101.97	5.69	328.48	110.46	94.69	15.77	7.003	
3,100.00	3,078.35	3,101.48	3,077.44	7.82	7.77	-101.93	5.14	341.03	113.92	97.82	16.10	7.075	
3,200.00	3,177.54	3,201.54	3,176.59	8.00	7.94	-101.89	4.59	353.57	117.38	100.94	16.45	7.137	
3,300.00	3,276.72	3,301.60	3,275.74	8.18	8.12	-101.86	4.04	366.12	120.84	104.03	16.81	7.189	
3,400.00	3,375.91	3,401.66	3,374.89	8.37	8.31	-101.82	3.50	378.67	124.30	107.12	17.19	7.232	
3,500.00	3,475.09	3,501.72	3,474.03	8.57	8.51	-101.79	2.95	391.22	127.76	110.18	17.58	7.268	
3,600.00	3,574.28	3,601.78	3,573.18	8.78	8.71	-101.76	2.40	403.77	131.22	113.24	17.98	7.296	
3,700.00	3,673.46	3,701.84	3,672.33	8.99	8.92	-101.73	1.85	416.32	134.68	116.28	18.40	7.318	
3,800.00	3,772.65	3,801.90	3,771.48	9.21	9.13	-101.71	1.30	428.86	138.14	119.31	18.83	7.335	
3,900.00	3,871.83	3,901.96	3,870.62	9.43	9.35	-101.68	0.76	441.41	141.60	122.33	19.27	7.347	
4,000.00	3,971.02	4,002.02	3,969.77	9.66	9.58	-101.66	0.21	453.96	145.06	125.34	19.72	7.354	
4,100.00	4,070.20	4,102.08	4,068.92	9.89	9.81	-101.63	-0.34	466.51	148.52	128.34	20.19	7.358	
4,200.00	4,169.39	4,202.14	4,168.07	10.13	10.04	-101.61	-0.89	479.06	151.98	131.33	20.65	7.358	
4,300.00	4,268.57	4,302.20	4,267.21	10.37	10.28	-101.59	-1.44	491.61	155.44	134.31	21.13	7.356	
4,400.00	4,367.76	4,402.26	4,366.36	10.62	10.53	-101.57	-1.98	504.16	158.90	137.29	21.62	7.351	
4,500.00	4,466.94	4,502.32	4,465.51	10.87	10.77	-101.55	-2.53	516.70	162.36	140.25	22.11	7.344	
4,600.00	4,566.13	4,602.38	4,564.66	11.12	11.02	-101.53	-3.08	529.25	165.82	143.21	22.61	7.335	
4,700.00	4,665.31	4,702.44	4,663.81	11.38	11.27	-101.51	-3.63	541.80	169.28	146.17	23.11	7.324	
4,800.00	4,764.50	4,802.50	4,762.95	11.63	11.53	-101.49	-4.18	554.35	172.74	149.12	23.62	7.312	
4,900.00	4,863.68	4,902.56	4,862.10	11.90	11.79	-101.48	-4.72	566.90	176.20	152.06	24.14	7.299	
5,000.00	4,962.87	5,002.62	4,961.25	12.16	12.05	-101.46	-5.27	579.45	179.66	155.00	24.66	7.285	
5,100.00	5,062.05	5,102.68	5,060.40	12.43	12.31	-101.45	-5.82	591.99	183.12	157.93	25.19	7.270	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	5,161.24	5,202.74	5,159.54	12.70	12.58	-101.43	-6.37	604.54	186.58	160.86	25.72	7.255		
5,300.00	5,260.42	5,302.80	5,258.69	12.97	12.85	-101.42	-6.91	617.09	190.04	163.79	26.25	7.239		
5,400.00	5,359.61	5,402.86	5,357.84	13.24	13.12	-101.40	-7.46	629.64	193.50	166.71	26.79	7.222		
5,500.00	5,458.79	5,502.92	5,456.99	13.52	13.39	-101.39	-8.01	642.19	196.96	169.63	27.34	7.206		
5,600.00	5,557.98	5,602.98	5,556.13	13.79	13.66	-101.38	-8.56	654.74	200.42	172.54	27.88	7.189		
5,700.00	5,657.16	5,703.04	5,655.28	14.07	13.94	-101.37	-9.11	667.29	203.88	175.45	28.43	7.171		
5,800.00	5,756.35	5,803.10	5,754.43	14.35	14.21	-101.35	-9.65	679.83	207.34	178.36	28.98	7.154		
5,900.00	5,855.53	5,903.16	5,853.58	14.63	14.49	-101.34	-10.20	692.38	210.80	181.27	29.54	7.137		
6,000.00	5,954.72	6,003.22	5,952.73	14.91	14.77	-101.33	-10.75	704.93	214.27	184.17	30.10	7.119		
6,100.00	6,053.90	6,103.28	6,051.87	15.20	15.05	-101.32	-11.30	717.48	217.73	187.07	30.66	7.102		
6,200.00	6,153.09	6,203.34	6,151.02	15.48	15.33	-101.31	-11.85	730.03	221.19	189.97	31.22	7.085		
6,300.00	6,252.27	6,303.40	6,250.17	15.77	15.62	-101.30	-12.39	742.58	224.65	192.86	31.78	7.068		
6,400.00	6,351.46	6,403.46	6,349.32	16.06	15.90	-101.29	-12.94	755.13	228.11	195.75	32.35	7.051		
6,500.00	6,450.64	6,496.48	6,448.46	16.34	16.16	-101.28	-13.49	767.67	231.57	198.66	32.90	7.038		
6,600.00	6,549.83	6,601.43	6,553.17	16.63	16.37	-103.23	-14.37	772.76	233.95	200.59	33.36	7.014		
6,700.00	6,649.01	6,701.49	6,652.49	16.92	16.49	-108.90	-15.79	761.55	235.65	202.04	33.61	7.011		
6,800.00	6,748.73	6,795.29	6,742.92	17.13	16.56	132.60	-17.61	737.06	240.00	206.36	33.64	7.134		
6,900.00	6,847.93	6,885.30	6,825.42	17.25	16.60	87.26	-19.76	701.31	247.20	213.69	33.51	7.378		
7,000.00	6,944.17	6,972.15	6,899.48	17.33	16.62	76.04	-22.17	656.14	256.36	223.11	33.25	7.710		
7,100.00	7,035.09	7,056.39	6,964.79	17.37	16.64	68.89	-24.78	603.09	266.51	233.59	32.92	8.097		
7,200.00	7,118.44	7,138.48	7,021.15	17.39	16.68	63.51	-27.54	543.55	276.72	244.15	32.58	8.495		
7,300.00	7,192.18	7,218.82	7,068.44	17.41	16.75	59.30	-30.40	478.74	286.22	253.91	32.32	8.857		
7,400.00	7,254.49	7,297.76	7,106.60	17.45	16.87	56.02	-33.32	409.75	294.35	262.14	32.21	9.138		
7,500.00	7,303.82	7,375.62	7,135.58	17.54	17.04	53.52	-36.26	337.60	300.61	268.28	32.33	9.297		
7,600.00	7,338.98	7,452.68	7,155.38	17.72	17.28	51.71	-39.19	263.23	304.61	271.91	32.70	9.315		
7,700.00	7,359.09	7,529.19	7,166.00	18.02	17.59	50.54	-42.07	187.56	306.10	272.77	33.33	9.184		
7,800.00	7,364.03	7,613.79	7,168.06	18.43	18.01	49.94	-45.20	103.07	304.66	270.53	34.14	8.925		
7,900.00	7,364.15	7,713.72	7,168.24	19.00	18.62	49.47	-48.86	3.21	301.65	266.59	35.06	8.603		
8,000.00	7,364.28	7,813.64	7,168.42	19.70	19.35	49.00	-52.53	-96.65	298.66	262.49	36.17	8.257		
8,100.00	7,364.41	7,913.57	7,168.60	20.52	20.21	48.51	-56.19	-196.50	295.69	258.25	37.44	7.897		
8,200.00	7,364.54	8,013.49	7,168.78	21.44	21.16	48.01	-59.86	-296.36	292.74	253.89	38.85	7.535		
8,300.00	7,364.67	8,113.41	7,168.96	22.46	22.19	47.50	-63.53	-396.21	289.82	249.43	40.38	7.177		
8,400.00	7,364.79	8,213.34	7,169.14	23.54	23.30	46.98	-67.19	-496.07	286.91	244.90	42.01	6.829		
8,500.00	7,364.92	8,313.26	7,169.32	24.70	24.47	46.45	-70.86	-595.93	284.04	240.31	43.72	6.496		
8,600.00	7,365.05	8,413.18	7,169.50	25.91	25.70	45.91	-74.52	-695.78	281.18	235.68	45.50	6.179		
8,700.00	7,365.18	8,513.11	7,169.68	27.17	26.98	45.36	-78.19	-795.64	278.36	231.02	47.34	5.880		
8,800.00	7,365.31	8,613.03	7,169.86	28.47	28.29	44.80	-81.86	-895.50	275.55	226.34	49.21	5.599		
8,900.00	7,365.43	8,712.96	7,170.03	29.81	29.64	44.22	-85.52	-995.35	272.78	221.66	51.12	5.336		
9,000.00	7,365.56	8,812.88	7,170.21	31.19	31.02	43.64	-89.19	-1,095.21	270.03	216.98	53.05	5.090		
9,100.00	7,365.69	8,912.80	7,170.39	32.59	32.43	43.04	-92.85	-1,195.06	267.32	212.32	55.00	4.861		
9,200.00	7,365.82	9,012.73	7,170.57	34.01	33.86	42.43	-96.52	-1,294.92	264.63	207.68	56.95	4.647		
9,300.00	7,365.95	9,112.65	7,170.75	35.46	35.32	41.81	-100.19	-1,394.78	261.97	203.07	58.90	4.448		
9,400.00	7,366.08	9,212.57	7,170.93	36.92	36.79	41.17	-103.85	-1,494.63	259.35	198.49	60.85	4.262		
9,500.00	7,366.20	9,312.50	7,171.11	38.40	38.27	40.52	-107.52	-1,594.49	256.75	193.96	62.79	4.089		
9,600.00	7,366.33	9,412.42	7,171.29	39.90	39.77	39.86	-111.18	-1,694.35	254.19	189.48	64.72	3.928		
9,700.00	7,366.46	9,512.35	7,171.47	41.41	41.29	39.19	-114.85	-1,794.20	251.67	185.04	66.62	3.777		
9,800.00	7,366.59	9,611.49	7,171.65	42.93	42.80	38.51	-118.45	-1,893.28	249.20	180.68	68.53	3.637		
9,900.00	7,366.72	9,706.91	7,171.82	44.47	44.27	38.22	-119.90	-1,988.69	248.07	177.41	70.66	3.511		
10,000.00	7,366.84	9,806.91	7,172.00	46.01	45.82	38.14	-120.11	-2,088.68	247.75	174.86	72.89	3.399		
10,100.00	7,366.97	9,906.91	7,172.18	47.56	47.38	38.07	-120.32	-2,188.68	247.44	172.31	75.13	3.294		
10,200.00	7,367.10	10,006.91	7,172.35	49.12	48.94	37.99	-120.53	-2,288.68	247.12	169.74	77.38	3.194		
10,300.00	7,367.23	10,106.91	7,172.53	50.68	50.51	37.92	-120.74	-2,388.68	246.81	167.17	79.64	3.099		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	7,367.36	10,206.91	7,172.71	52.26	52.09	37.85	-120.95	-2,488.68	246.49	164.58	81.91	3.009		
10,500.00	7,367.49	10,306.90	7,172.89	53.84	53.67	37.77	-121.16	-2,588.68	246.18	161.99	84.19	2.924		
10,600.00	7,367.61	10,406.90	7,173.07	55.42	55.26	37.70	-121.37	-2,688.68	245.87	159.40	86.47	2.843		
10,700.00	7,367.74	10,506.90	7,173.25	57.01	56.86	37.62	-121.58	-2,788.68	245.56	156.80	88.76	2.767		
10,800.00	7,367.87	10,606.90	7,173.43	58.60	58.45	37.55	-121.79	-2,888.67	245.24	154.19	91.05	2.694		
10,900.00	7,368.00	10,706.90	7,173.61	60.20	60.06	37.47	-122.00	-2,988.67	244.93	151.59	93.35	2.624		
11,000.00	7,368.13	10,806.90	7,173.79	61.80	61.66	37.40	-122.21	-3,088.67	244.62	148.98	95.65	2.558		
11,100.00	7,368.25	10,906.90	7,173.97	63.41	63.27	37.32	-122.42	-3,188.67	244.31	146.37	97.95	2.494		
11,200.00	7,368.38	11,006.90	7,174.15	65.02	64.88	37.25	-122.63	-3,288.67	244.00	143.75	100.25	2.434		
11,300.00	7,368.51	11,106.90	7,174.33	66.63	66.50	37.17	-122.84	-3,388.67	243.69	141.14	102.56	2.376		
11,400.00	7,368.64	11,206.90	7,174.50	68.24	68.11	37.09	-123.05	-3,488.67	243.38	138.52	104.86	2.321		
11,500.00	7,368.77	11,306.89	7,174.68	69.86	69.73	37.02	-123.26	-3,588.66	243.07	135.90	107.17	2.268		
11,600.00	7,368.90	11,406.89	7,174.86	71.48	71.36	36.94	-123.47	-3,688.66	242.77	133.29	109.48	2.218		
11,700.00	7,369.02	11,506.89	7,175.04	73.10	72.98	36.86	-123.68	-3,788.66	242.46	130.67	111.79	2.169		
11,800.00	7,369.15	11,606.89	7,175.22	74.73	74.61	36.79	-123.89	-3,888.66	242.15	128.06	114.09	2.122		
11,900.00	7,369.28	11,706.89	7,175.40	76.36	76.24	36.71	-124.10	-3,988.66	241.84	125.44	116.40	2.078		
12,000.00	7,369.41	11,806.89	7,175.58	77.98	77.87	36.63	-124.31	-4,088.66	241.54	122.83	118.71	2.035		
12,100.00	7,369.54	11,906.89	7,175.76	79.61	79.50	36.55	-124.52	-4,188.66	241.23	120.22	121.01	1.993		
12,200.00	7,369.66	12,006.89	7,175.94	81.25	81.13	36.48	-124.73	-4,288.65	240.93	117.61	123.32	1.954		
12,300.00	7,369.79	12,106.89	7,176.12	82.88	82.77	36.40	-124.94	-4,388.65	240.62	115.00	125.62	1.915		
12,400.00	7,369.92	12,206.89	7,176.30	84.52	84.40	36.32	-125.15	-4,488.65	240.31	112.39	127.92	1.879		
12,500.00	7,370.05	12,306.88	7,176.48	86.15	86.04	36.24	-125.36	-4,588.65	240.01	109.79	130.22	1.843		
12,600.00	7,370.18	12,406.88	7,176.66	87.79	87.68	36.16	-125.57	-4,688.65	239.71	107.19	132.52	1.809		
12,700.00	7,370.30	12,506.88	7,176.83	89.43	89.32	36.08	-125.78	-4,788.65	239.40	104.59	134.81	1.776		
12,800.00	7,370.43	12,606.88	7,177.01	91.07	90.96	36.01	-125.98	-4,888.65	239.10	101.99	137.11	1.744		
12,900.00	7,370.56	12,706.88	7,177.19	92.71	92.61	35.93	-126.19	-4,988.64	238.80	99.40	139.40	1.713		
13,000.00	7,370.69	12,806.88	7,177.37	94.35	94.25	35.85	-126.40	-5,088.64	238.50	96.81	141.69	1.683		
13,100.00	7,370.82	12,906.88	7,177.55	96.00	95.89	35.77	-126.61	-5,188.64	238.19	94.22	143.97	1.654		
13,200.00	7,370.95	13,006.88	7,177.73	97.64	97.54	35.69	-126.82	-5,288.64	237.89	91.63	146.26	1.627		
13,300.00	7,371.07	13,106.88	7,177.91	99.29	99.19	35.61	-127.03	-5,388.64	237.59	89.05	148.54	1.600		
13,400.00	7,371.20	13,206.88	7,178.09	100.93	100.83	35.53	-127.24	-5,488.64	237.29	86.48	150.82	1.573		
13,500.00	7,371.33	13,306.87	7,178.27	102.58	102.48	35.45	-127.45	-5,588.64	236.99	83.90	153.09	1.548		
13,600.00	7,371.46	13,406.87	7,178.45	104.23	104.13	35.37	-127.66	-5,688.64	236.69	81.33	155.36	1.523		
13,700.00	7,371.59	13,506.87	7,178.63	105.88	105.78	35.29	-127.87	-5,788.63	236.39	78.76	157.63	1.500 Level 3		
13,800.00	7,371.71	13,606.87	7,178.81	107.53	107.43	35.21	-128.08	-5,888.63	236.10	76.20	159.90	1.477 Level 3		
13,900.00	7,371.84	13,706.87	7,178.98	109.18	109.08	35.12	-128.29	-5,988.63	235.80	73.64	162.16	1.454 Level 3		
14,000.00	7,371.97	13,806.87	7,179.16	110.83	110.73	35.04	-128.50	-6,088.63	235.50	71.08	164.42	1.432 Level 3		
14,100.00	7,372.10	13,906.87	7,179.34	112.48	112.38	34.96	-128.71	-6,188.63	235.20	68.53	166.67	1.411 Level 3		
14,200.00	7,372.23	14,006.87	7,179.52	114.13	114.04	34.88	-128.92	-6,288.63	234.91	65.98	168.92	1.391 Level 3		
14,300.00	7,372.36	14,106.87	7,179.70	115.78	115.69	34.80	-129.13	-6,388.63	234.61	63.44	171.17	1.371 Level 3		
14,400.00	7,372.48	14,206.87	7,179.88	117.44	117.34	34.72	-129.34	-6,488.62	234.32	60.90	173.42	1.351 Level 3		
14,500.00	7,372.61	14,306.86	7,180.06	119.09	119.00	34.63	-129.55	-6,588.62	234.02	58.36	175.66	1.332 Level 3		
14,600.00	7,372.74	14,406.86	7,180.24	120.74	120.65	34.55	-129.76	-6,688.62	233.73	55.83	177.89	1.314 Level 3		
14,700.00	7,372.87	14,506.86	7,180.42	122.40	122.31	34.47	-129.97	-6,788.62	233.43	53.31	180.13	1.296 Level 3		
14,800.00	7,373.00	14,606.86	7,180.60	124.05	123.96	34.38	-130.18	-6,888.62	233.14	50.78	182.35	1.278 Level 3		
14,900.00	7,373.12	14,706.86	7,180.78	125.71	125.62	34.30	-130.39	-6,988.62	232.84	48.27	184.58	1.261 Level 3		
15,000.00	7,373.25	14,806.86	7,180.96	127.36	127.27	34.22	-130.60	-7,088.62	232.55	45.75	186.80	1.245 Level 2		
15,100.00	7,373.38	14,906.86	7,181.13	129.02	128.93	34.13	-130.81	-7,188.61	232.26	43.24	189.02	1.229 Level 2		
15,200.00	7,373.51	15,006.86	7,181.31	130.68	130.59	34.05	-131.02	-7,288.61	231.97	40.74	191.23	1.213 Level 2		
15,300.00	7,373.64	15,106.86	7,181.49	132.33	132.25	33.97	-131.23	-7,388.61	231.68	38.24	193.44	1.198 Level 2		
15,400.00	7,373.77	15,206.86	7,181.67	133.99	133.90	33.88	-131.44	-7,488.61	231.39	35.75	195.64	1.183 Level 2		
15,500.00	7,373.89	15,306.85	7,181.85	135.65	135.56	33.80	-131.65	-7,588.61	231.10	33.26	197.84	1.168 Level 2		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
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
15,583.33	7,374.00	15,390.18	7,182.00	137.03	136.94	33.73	-131.82	-7,671.94	230.86	31.18	199.67	1.156	Level 2, SF

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	-0.40	40.07	-0.28	40.07				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.07	-0.28	40.07	32.54	7.53	5.322	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.290 CC, ES	
300.00	299.98	299.75	299.73	3.35	3.35	-108.50	40.39	1.43	40.93	33.28	7.66	5.345	
400.00	399.84	399.45	399.29	3.41	3.41	-108.22	41.34	6.54	43.53	35.74	7.78	5.592	
500.00	499.45	499.06	498.52	3.50	3.51	-107.83	42.94	15.05	47.85	39.89	7.96	6.010	
600.00	598.73	598.67	597.42	3.62	3.62	-107.45	45.12	26.72	53.78	45.59	8.20	6.562	
700.00	697.91	701.52	696.42	3.76	3.77	-107.24	47.43	39.08	60.08	51.59	8.49	7.077	
800.00	797.10	801.72	795.43	3.93	3.94	-107.08	49.75	51.44	66.38	57.55	8.83	7.521	
900.00	896.28	901.92	894.44	4.12	4.13	-106.94	52.06	63.80	72.68	63.48	9.20	7.898	
1,000.00	995.47	1,002.12	993.44	4.33	4.34	-106.83	54.37	76.17	78.98	69.36	9.61	8.214	
1,100.00	1,094.65	1,102.32	1,092.45	4.56	4.56	-106.73	56.69	88.53	85.28	75.22	10.06	8.479	
1,200.00	1,193.84	1,202.52	1,191.45	4.80	4.80	-106.65	59.00	100.89	91.58	81.05	10.53	8.699	
1,300.00	1,293.02	1,302.72	1,290.46	5.05	5.04	-106.58	61.32	113.26	97.88	86.86	11.02	8.882	
1,400.00	1,392.21	1,402.92	1,389.46	5.31	5.30	-106.51	63.63	125.62	104.18	92.65	11.53	9.035	
1,500.00	1,491.39	1,503.11	1,488.47	5.58	5.57	-106.46	65.94	137.98	110.48	98.42	12.06	9.161	
1,600.00	1,590.58	1,603.31	1,587.47	5.86	5.84	-106.41	68.26	150.34	116.78	104.17	12.60	9.266	
1,700.00	1,689.76	1,703.51	1,686.48	6.15	6.12	-106.36	70.57	162.71	123.08	109.92	13.16	9.354	
1,800.00	1,788.95	1,803.71	1,785.49	6.43	6.40	-106.32	72.88	175.07	129.38	115.66	13.72	9.430	
1,900.00	1,888.13	1,903.91	1,884.49	6.59	6.54	-106.28	75.20	187.43	135.68	122.04	13.64	9.948	
2,000.00	1,987.32	2,004.11	1,983.50	6.62	6.57	-106.25	77.51	199.80	141.98	128.28	13.70	10.366	
2,100.00	2,086.50	2,104.31	2,082.50	6.66	6.62	-106.22	79.83	212.16	148.28	134.50	13.78	10.759	
2,200.00	2,185.69	2,204.51	2,181.51	6.72	6.67	-106.19	82.14	224.52	154.58	140.68	13.90	11.123	
2,300.00	2,284.87	2,304.70	2,280.51	6.79	6.75	-106.16	84.45	236.89	160.88	146.84	14.04	11.459	
2,400.00	2,384.06	2,404.90	2,379.52	6.88	6.83	-106.14	86.77	249.25	167.18	152.97	14.21	11.767	
2,500.00	2,483.24	2,505.10	2,478.52	6.98	6.93	-106.12	89.08	261.61	173.48	159.08	14.40	12.045	
2,600.00	2,582.43	2,605.30	2,577.53	7.09	7.04	-106.09	91.39	273.97	179.78	165.16	14.62	12.295	
2,700.00	2,681.61	2,705.50	2,676.54	7.22	7.16	-106.08	93.71	286.34	186.08	171.22	14.87	12.517	
2,800.00	2,780.80	2,805.70	2,775.54	7.35	7.29	-106.06	96.02	298.70	192.38	177.25	15.13	12.714	
2,900.00	2,879.98	2,905.90	2,874.55	7.50	7.44	-106.04	98.33	311.06	198.68	183.27	15.42	12.885	
3,000.00	2,979.17	3,006.10	2,973.55	7.66	7.59	-106.02	100.65	323.43	204.99	189.26	15.73	13.034	
3,100.00	3,078.35	3,106.29	3,072.56	7.82	7.75	-106.01	102.96	335.79	211.29	195.23	16.05	13.162	
3,200.00	3,177.54	3,193.51	3,171.56	8.00	7.90	-105.99	105.28	348.15	217.59	201.21	16.37	13.289	
3,300.00	3,276.72	3,306.69	3,270.57	8.18	8.11	-105.98	107.59	360.51	223.89	207.13	16.76	13.361	
3,400.00	3,375.91	3,406.89	3,369.58	8.37	8.29	-105.97	109.90	372.88	230.19	213.06	17.13	13.436	
3,500.00	3,475.09	3,507.09	3,468.58	8.57	8.49	-105.96	112.22	385.24	236.49	218.97	17.52	13.496	
3,600.00	3,574.28	3,607.29	3,567.59	8.78	8.69	-105.95	114.53	397.60	242.79	224.86	17.93	13.544	
3,700.00	3,673.46	3,707.49	3,666.59	8.99	8.90	-105.93	116.84	409.97	249.09	230.75	18.34	13.580	
3,800.00	3,772.65	3,807.68	3,765.60	9.21	9.11	-105.92	119.16	422.33	255.39	236.62	18.77	13.606	
3,900.00	3,871.83	3,907.88	3,864.60	9.43	9.33	-105.91	121.47	434.69	261.69	242.48	19.21	13.623	
4,000.00	3,971.02	4,008.08	3,963.61	9.66	9.56	-105.90	123.78	447.05	267.99	248.34	19.66	13.633	
4,100.00	4,070.20	4,108.28	4,062.61	9.89	9.79	-105.90	126.10	459.42	274.29	254.18	20.12	13.635	
4,200.00	4,169.39	4,191.52	4,161.62	10.13	9.98	-105.89	128.41	471.78	280.60	260.05	20.54	13.658	
4,300.00	4,268.57	4,308.68	4,260.63	10.37	10.26	-105.88	130.73	484.14	286.90	265.84	21.06	13.623	
4,400.00	4,367.76	4,408.88	4,359.63	10.62	10.50	-105.87	133.04	496.51	293.20	271.66	21.54	13.610	
4,500.00	4,466.94	4,509.08	4,458.64	10.87	10.74	-105.86	135.35	508.87	299.50	277.47	22.03	13.593	
4,600.00	4,566.13	4,609.27	4,557.64	11.12	10.99	-105.86	137.67	521.23	305.80	283.27	22.53	13.573	
4,700.00	4,665.31	4,709.47	4,656.65	11.38	11.24	-105.85	139.98	533.59	312.10	289.07	23.03	13.550	
4,800.00	4,764.50	4,809.67	4,755.65	11.63	11.50	-105.84	142.29	545.96	318.40	294.86	23.54	13.525	
4,900.00	4,863.68	4,909.87	4,854.66	11.90	11.76	-105.84	144.61	558.32	324.70	300.65	24.06	13.498	
5,000.00	4,962.87	4,989.93	4,953.66	12.16	11.96	-105.83	146.92	570.68	331.00	306.48	24.52	13.498	
5,100.00	5,062.05	5,089.73	5,052.67	12.43	12.22	-105.83	149.23	583.05	337.30	312.26	25.05	13.468	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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								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	5,161.24	5,189.53	5,151.68	12.70	12.49	-105.82	151.55	595.41	343.61	318.03	25.57	13.437		
5,300.00	5,260.42	5,289.33	5,250.68	12.97	12.75	-105.81	153.86	607.77	349.91	323.80	26.10	13.405		
5,400.00	5,359.61	5,389.14	5,349.69	13.24	13.02	-105.81	156.18	620.14	356.21	329.57	26.64	13.372		
5,500.00	5,458.79	5,488.94	5,448.69	13.52	13.29	-105.80	158.49	632.50	362.51	335.33	27.18	13.339		
5,600.00	5,557.98	5,588.74	5,547.70	13.79	13.56	-105.80	160.80	644.86	368.81	341.09	27.72	13.305		
5,700.00	5,657.16	5,688.54	5,646.70	14.07	13.83	-105.79	163.12	657.22	375.11	346.84	28.27	13.271		
5,800.00	5,756.35	5,788.34	5,745.71	14.35	14.10	-105.79	165.43	669.59	381.41	352.60	28.81	13.237		
5,900.00	5,855.53	5,888.14	5,844.71	14.63	14.38	-105.79	167.74	681.95	387.71	358.35	29.37	13.203		
6,000.00	5,954.72	5,987.94	5,943.72	14.91	14.65	-105.78	170.06	694.31	394.01	364.09	29.92	13.169		
6,100.00	6,053.90	6,087.75	6,042.73	15.20	14.93	-105.78	172.37	706.68	400.31	369.84	30.48	13.135		
6,200.00	6,153.09	6,187.55	6,141.73	15.48	15.21	-105.77	174.68	719.04	406.61	375.58	31.04	13.101		
6,300.00	6,252.27	6,287.35	6,240.74	15.77	15.49	-105.77	177.00	731.40	412.92	381.32	31.60	13.068		
6,400.00	6,351.46	6,387.15	6,339.74	16.06	15.77	-105.77	179.31	743.76	419.22	387.05	32.16	13.034		
6,500.00	6,450.64	6,486.95	6,438.75	16.34	16.05	-105.76	181.63	756.13	425.52	392.79	32.73	13.001		
6,600.00	6,549.83	6,586.88	6,537.88	16.63	16.34	-105.76	183.94	768.48	431.82	398.52	33.29	12.970		
6,700.00	6,649.01	6,688.20	6,639.00	16.92	16.52	-106.92	186.32	772.18	437.89	404.15	33.75	12.976		
6,800.00	6,748.73	6,786.42	6,736.39	17.13	16.64	139.16	188.63	760.41	444.26	410.24	34.03	13.057		
6,900.00	6,847.93	6,882.27	6,828.58	17.25	16.72	97.95	190.84	734.62	451.16	416.99	34.17	13.202		
7,000.00	6,944.17	6,976.01	6,914.02	17.33	16.76	90.32	192.91	696.30	458.33	424.10	34.23	13.390		
7,100.00	7,035.09	7,067.93	6,991.44	17.37	16.78	86.18	194.80	646.94	465.48	431.25	34.23	13.599		
7,200.00	7,118.44	7,158.27	7,059.84	17.39	16.82	83.25	196.50	588.07	472.32	438.10	34.22	13.803		
7,300.00	7,192.18	7,247.31	7,118.44	17.41	16.88	81.01	197.98	521.15	478.58	444.32	34.25	13.971		
7,400.00	7,254.49	7,335.27	7,166.62	17.45	17.00	79.28	199.22	447.65	484.00	449.59	34.40	14.068		
7,500.00	7,303.82	7,422.40	7,203.92	17.54	17.19	77.98	200.21	368.99	488.37	453.65	34.72	14.066		
7,600.00	7,338.98	7,508.90	7,229.99	17.72	17.46	77.08	200.95	286.57	491.52	456.29	35.23	13.950		
7,700.00	7,359.09	7,595.01	7,244.61	18.02	17.81	76.56	201.42	201.79	493.33	457.38	35.96	13.721		
7,800.00	7,364.03	7,684.29	7,248.02	18.43	18.24	76.41	201.63	112.63	493.75	456.88	36.87	13.391		
7,900.00	7,364.15	7,784.29	7,248.07	19.00	18.86	76.40	201.77	12.63	493.69	455.64	38.05	12.975		
8,000.00	7,364.28	7,884.29	7,248.12	19.70	19.59	76.39	201.92	-87.37	493.62	454.16	39.46	12.508		
8,100.00	7,364.41	7,984.29	7,248.17	20.52	20.43	76.38	202.07	-187.37	493.55	452.46	41.09	12.010		
8,200.00	7,364.54	8,084.29	7,248.22	21.44	21.37	76.37	202.22	-287.37	493.48	450.57	42.92	11.498		
8,300.00	7,364.67	8,184.29	7,248.27	22.46	22.40	76.36	202.36	-387.37	493.42	448.51	44.91	10.987		
8,400.00	7,364.79	8,284.29	7,248.32	23.54	23.49	76.34	202.51	-487.37	493.35	446.30	47.05	10.486		
8,500.00	7,364.92	8,384.29	7,248.37	24.70	24.66	76.33	202.66	-587.37	493.28	443.97	49.32	10.003		
8,600.00	7,365.05	8,484.29	7,248.43	25.91	25.88	76.32	202.81	-687.37	493.22	441.52	51.69	9.542		
8,700.00	7,365.18	8,584.29	7,248.48	27.17	27.15	76.31	202.95	-787.37	493.15	438.99	54.16	9.105		
8,800.00	7,365.31	8,684.29	7,248.53	28.47	28.45	76.30	203.10	-887.37	493.08	436.36	56.72	8.693		
8,900.00	7,365.43	8,784.29	7,248.58	29.81	29.80	76.29	203.25	-987.37	493.02	433.67	59.35	8.308		
9,000.00	7,365.56	8,884.29	7,248.63	31.19	31.18	76.28	203.40	-1,087.37	492.95	430.91	62.04	7.946		
9,100.00	7,365.69	8,984.29	7,248.68	32.59	32.58	76.27	203.54	-1,187.37	492.88	428.10	64.78	7.609		
9,200.00	7,365.82	9,084.29	7,248.73	34.01	34.01	76.26	203.69	-1,287.37	492.81	425.24	67.57	7.293		
9,300.00	7,365.95	9,184.29	7,248.78	35.46	35.46	76.24	203.84	-1,387.37	492.75	422.34	70.41	6.998		
9,400.00	7,366.08	9,284.29	7,248.83	36.92	36.93	76.23	203.99	-1,487.37	492.68	419.40	73.28	6.723		
9,500.00	7,366.20	9,384.29	7,248.89	38.40	38.42	76.22	204.13	-1,587.37	492.61	416.43	76.19	6.466		
9,600.00	7,366.33	9,484.29	7,248.94	39.90	39.92	76.21	204.28	-1,687.37	492.55	413.43	79.12	6.225		
9,700.00	7,366.46	9,584.29	7,248.99	41.41	41.43	76.20	204.43	-1,787.37	492.48	410.40	82.08	6.000		
9,800.00	7,366.59	9,684.29	7,249.04	42.93	42.96	76.19	204.58	-1,887.37	492.41	407.35	85.07	5.789		
9,900.00	7,366.72	9,784.29	7,249.09	44.47	44.49	76.18	204.72	-1,987.37	492.35	404.28	88.07	5.590		
10,000.00	7,366.84	9,884.29	7,249.14	46.01	46.04	76.17	204.87	-2,087.37	492.28	401.18	91.10	5.404		
10,100.00	7,366.97	9,984.29	7,249.19	47.56	47.59	76.16	205.02	-2,187.37	492.21	398.08	94.14	5.229		
10,200.00	7,367.10	10,084.29	7,249.24	49.12	49.15	76.14	205.17	-2,287.37	492.15	394.95	97.19	5.064		
10,300.00	7,367.23	10,184.29	7,249.30	50.68	50.72	76.13	205.31	-2,387.37	492.08	391.82	100.26	4.908		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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								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	7,367.36	10,284.29	7,249.35	52.26	52.30	76.12	205.46	-2,487.37	492.01	388.67	103.35	4.761		
10,500.00	7,367.49	10,384.29	7,249.40	53.84	53.88	76.11	205.61	-2,587.37	491.95	385.51	106.44	4.622		
10,600.00	7,367.61	10,484.29	7,249.45	55.42	55.47	76.10	205.76	-2,687.37	491.88	382.33	109.55	4.490		
10,700.00	7,367.74	10,584.29	7,249.50	57.01	57.06	76.09	205.90	-2,787.37	491.81	379.15	112.66	4.365		
10,800.00	7,367.87	10,684.29	7,249.55	58.60	58.65	76.08	206.05	-2,887.37	491.75	375.96	115.79	4.247		
10,900.00	7,368.00	10,784.29	7,249.60	60.20	60.25	76.07	206.20	-2,987.37	491.68	372.76	118.92	4.135		
11,000.00	7,368.13	10,884.29	7,249.65	61.80	61.86	76.06	206.35	-3,087.37	491.61	369.56	122.06	4.028		
11,100.00	7,368.25	10,984.29	7,249.70	63.41	63.46	76.04	206.49	-3,187.37	491.55	366.34	125.20	3.926		
11,200.00	7,368.38	11,084.29	7,249.76	65.02	65.07	76.03	206.64	-3,287.37	491.48	363.13	128.36	3.829		
11,300.00	7,368.51	11,184.29	7,249.81	66.63	66.69	76.02	206.79	-3,387.37	491.41	359.90	131.51	3.737		
11,400.00	7,368.64	11,284.29	7,249.86	68.24	68.30	76.01	206.94	-3,487.37	491.35	356.67	134.68	3.648		
11,500.00	7,368.77	11,384.29	7,249.91	69.86	69.92	76.00	207.08	-3,587.37	491.28	353.44	137.85	3.564		
11,600.00	7,368.90	11,484.29	7,249.96	71.48	71.54	75.99	207.23	-3,687.37	491.22	350.19	141.02	3.483		
11,700.00	7,369.02	11,584.29	7,250.01	73.10	73.17	75.98	207.38	-3,787.37	491.15	346.95	144.20	3.406		
11,800.00	7,369.15	11,684.29	7,250.06	74.73	74.79	75.97	207.53	-3,887.37	491.08	343.70	147.38	3.332		
11,900.00	7,369.28	11,784.29	7,250.11	76.36	76.42	75.95	207.67	-3,987.37	491.02	340.45	150.57	3.261		
12,000.00	7,369.41	11,884.29	7,250.17	77.98	78.05	75.94	207.82	-4,087.37	490.95	337.19	153.76	3.193		
12,100.00	7,369.54	11,984.29	7,250.22	79.61	79.68	75.93	207.97	-4,187.37	490.88	333.93	156.95	3.128		
12,200.00	7,369.66	12,084.28	7,250.27	81.25	81.31	75.92	208.12	-4,287.37	490.82	330.67	160.14	3.065		
12,300.00	7,369.79	12,184.28	7,250.32	82.88	82.95	75.91	208.26	-4,387.37	490.75	327.41	163.34	3.004		
12,400.00	7,369.92	12,284.28	7,250.37	84.52	84.58	75.90	208.41	-4,487.37	490.68	324.14	166.54	2.946		
12,500.00	7,370.05	12,384.28	7,250.42	86.15	86.22	75.89	208.56	-4,587.37	490.62	320.87	169.75	2.890		
12,600.00	7,370.18	12,484.28	7,250.47	87.79	87.86	75.88	208.71	-4,687.37	490.55	317.60	172.96	2.836		
12,700.00	7,370.30	12,584.28	7,250.52	89.43	89.50	75.86	208.85	-4,787.37	490.49	314.32	176.16	2.784		
12,800.00	7,370.43	12,684.28	7,250.57	91.07	91.14	75.85	209.00	-4,887.36	490.42	311.04	179.37	2.734		
12,900.00	7,370.56	12,784.28	7,250.63	92.71	92.78	75.84	209.15	-4,987.36	490.35	307.77	182.59	2.686		
13,000.00	7,370.69	12,884.28	7,250.68	94.35	94.43	75.83	209.30	-5,087.36	490.29	304.48	185.80	2.639		
13,100.00	7,370.82	12,984.28	7,250.73	96.00	96.07	75.82	209.44	-5,187.36	490.22	301.20	189.02	2.594		
13,200.00	7,370.95	13,084.28	7,250.78	97.64	97.72	75.81	209.59	-5,287.36	490.15	297.92	192.24	2.550		
13,300.00	7,371.07	13,184.28	7,250.83	99.29	99.36	75.80	209.74	-5,387.36	490.09	294.63	195.46	2.507		
13,400.00	7,371.20	13,284.28	7,250.88	100.93	101.01	75.79	209.89	-5,487.36	490.02	291.34	198.68	2.466		
13,500.00	7,371.33	13,384.28	7,250.93	102.58	102.66	75.77	210.03	-5,587.36	489.96	288.06	201.90	2.427		
13,600.00	7,371.46	13,484.28	7,250.98	104.23	104.30	75.76	210.18	-5,687.36	489.89	284.77	205.12	2.388		
13,700.00	7,371.59	13,584.28	7,251.04	105.88	105.95	75.75	210.33	-5,787.36	489.82	281.47	208.35	2.351		
13,800.00	7,371.71	13,684.28	7,251.09	107.53	107.60	75.74	210.48	-5,887.36	489.76	278.18	211.58	2.315		
13,900.00	7,371.84	13,784.28	7,251.14	109.18	109.25	75.73	210.62	-5,987.36	489.69	274.89	214.80	2.280		
14,000.00	7,371.97	13,884.28	7,251.19	110.83	110.91	75.72	210.77	-6,087.36	489.63	271.59	218.03	2.246		
14,100.00	7,372.10	13,984.28	7,251.24	112.48	112.56	75.71	210.92	-6,187.36	489.56	268.30	221.26	2.213		
14,200.00	7,372.23	14,084.28	7,251.29	114.13	114.21	75.70	211.07	-6,287.36	489.49	265.00	224.49	2.180		
14,300.00	7,372.36	14,184.28	7,251.34	115.78	115.86	75.68	211.21	-6,387.36	489.43	261.70	227.72	2.149		
14,400.00	7,372.48	14,284.28	7,251.39	117.44	117.52	75.67	211.36	-6,487.36	489.36	258.41	230.96	2.119		
14,500.00	7,372.61	14,384.28	7,251.44	119.09	119.17	75.66	211.51	-6,587.36	489.30	255.11	234.19	2.089		
14,600.00	7,372.74	14,484.28	7,251.50	120.74	120.82	75.65	211.66	-6,687.36	489.23	251.81	237.42	2.061		
14,700.00	7,372.87	14,584.28	7,251.55	122.40	122.48	75.64	211.80	-6,787.36	489.17	248.51	240.66	2.033		
14,800.00	7,373.00	14,684.28	7,251.60	124.05	124.13	75.63	211.95	-6,887.36	489.10	245.21	243.89	2.005		
14,900.00	7,373.12	14,784.28	7,251.65	125.71	125.79	75.62	212.10	-6,987.36	489.03	241.90	247.13	1.979		
15,000.00	7,373.25	14,884.28	7,251.70	127.36	127.45	75.61	212.25	-7,087.36	488.97	238.60	250.37	1.953		
15,100.00	7,373.38	14,984.28	7,251.75	129.02	129.10	75.59	212.39	-7,187.36	488.90	235.30	253.60	1.928		
15,200.00	7,373.51	15,084.28	7,251.80	130.68	130.76	75.58	212.54	-7,287.36	488.84	231.99	256.84	1.903		
15,300.00	7,373.64	15,184.28	7,251.85	132.33	132.42	75.57	212.69	-7,387.36	488.77	228.69	260.08	1.879		
15,400.00	7,373.77	15,284.28	7,251.91	133.99	134.08	75.56	212.84	-7,487.36	488.70	225.39	263.32	1.856		
15,500.00	7,373.89	15,384.28	7,251.96	135.65	135.73	75.55	212.98	-7,587.36	488.64	222.08	266.56	1.833		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,583.33	7,374.00	15,467.61	7,252.00	137.03	137.12	75.54	213.11	-7,670.69	488.58	219.33	269.26	1.815 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	179.68	-99.82	0.56	99.82					
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-99.82	0.56	99.82	92.29	7.53	13.259		
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-99.82	0.56	99.82	92.25	7.57	13.180 CC, ES		
300.00	299.98	297.24	297.22	3.35	3.34	71.83	-101.15	1.53	100.65	92.99	7.65	13.152		
400.00	399.84	394.42	394.27	3.41	3.40	72.85	-105.15	4.44	103.14	95.38	7.76	13.285		
500.00	499.45	491.48	490.97	3.50	3.48	74.43	-111.79	9.29	107.37	99.45	7.92	13.557		
600.00	598.73	588.35	587.16	3.62	3.59	76.39	-121.06	16.04	113.47	105.34	8.13	13.959		
700.00	697.91	684.99	682.68	3.76	3.74	77.50	-132.91	24.69	122.02	113.63	8.39	14.542		
800.00	797.10	781.21	777.23	3.93	3.92	77.50	-147.30	35.18	133.08	124.38	8.70	15.296		
900.00	896.28	880.11	874.05	4.12	4.15	76.99	-163.63	47.09	145.59	136.51	9.08	16.041		
1,000.00	995.47	979.32	971.16	4.33	4.41	76.55	-180.02	59.04	158.12	148.63	9.50	16.653		
1,100.00	1,094.65	1,078.52	1,068.27	4.56	4.70	76.18	-196.41	70.99	170.66	160.71	9.95	17.154		
1,200.00	1,193.84	1,177.73	1,165.37	4.80	5.00	75.85	-212.80	82.94	183.21	172.78	10.43	17.562		
1,300.00	1,293.02	1,276.93	1,262.48	5.05	5.33	75.57	-229.19	94.90	195.76	184.82	10.94	17.893		
1,400.00	1,392.21	1,376.14	1,359.59	5.31	5.67	75.32	-245.59	106.85	208.32	196.85	11.47	18.162		
1,500.00	1,491.39	1,475.34	1,456.70	5.58	6.02	75.10	-261.98	118.80	220.88	208.86	12.02	18.378		
1,600.00	1,590.58	1,574.55	1,553.81	5.86	6.38	74.91	-278.37	130.76	233.44	220.86	12.58	18.553		
1,700.00	1,689.76	1,673.75	1,650.92	6.15	6.74	74.73	-294.76	142.71	246.00	232.84	13.16	18.694		
1,800.00	1,788.95	1,772.96	1,748.02	6.43	7.12	74.57	-311.15	154.66	258.57	244.82	13.75	18.807		
1,900.00	1,888.13	1,872.16	1,845.13	6.59	7.38	74.43	-327.54	166.62	271.14	257.42	13.72	19.759		
2,000.00	1,987.32	1,971.37	1,942.24	6.62	7.47	74.30	-343.94	178.57	283.71	269.89	13.82	20.534		
2,100.00	2,086.50	2,070.57	2,039.35	6.66	7.53	74.18	-360.33	190.52	296.28	282.38	13.90	21.317		
2,200.00	2,185.69	2,169.78	2,136.46	6.72	7.61	74.07	-376.72	202.47	308.85	294.84	14.01	22.041		
2,300.00	2,284.87	2,268.98	2,233.57	6.79	7.71	73.97	-393.11	214.43	321.43	307.27	14.16	22.706		
2,400.00	2,384.06	2,368.19	2,330.67	6.88	7.82	73.87	-409.50	226.38	334.00	319.67	14.33	23.310		
2,500.00	2,483.24	2,467.39	2,427.78	6.98	7.95	73.79	-425.89	238.33	346.57	332.05	14.53	23.854		
2,600.00	2,582.43	2,566.60	2,524.89	7.09	8.09	73.70	-442.29	250.29	359.15	344.39	14.76	24.339		
2,700.00	2,681.61	2,665.80	2,622.00	7.22	8.25	73.63	-458.68	262.24	371.73	356.72	15.01	24.766		
2,800.00	2,780.80	2,765.01	2,719.11	7.35	8.42	73.56	-475.07	274.19	384.30	369.02	15.29	25.140		
2,900.00	2,879.98	2,864.21	2,816.22	7.50	8.61	73.49	-491.46	286.15	396.88	381.30	15.59	25.463		
3,000.00	2,979.17	2,963.42	2,913.32	7.66	8.80	73.43	-507.85	298.10	409.46	393.55	15.91	25.740		
3,100.00	3,078.35	3,062.62	3,010.43	7.82	9.01	73.37	-524.24	310.05	422.04	405.79	16.25	25.973		
3,200.00	3,177.54	3,161.83	3,107.54	8.00	9.23	73.32	-540.64	322.00	434.62	418.01	16.61	26.167		
3,300.00	3,276.72	3,261.03	3,204.65	8.18	9.46	73.26	-557.03	333.96	447.20	430.21	16.99	26.325		
3,400.00	3,375.91	3,360.24	3,301.76	8.37	9.70	73.22	-573.42	345.91	459.78	442.39	17.38	26.451		
3,500.00	3,475.09	3,459.44	3,398.87	8.57	9.94	73.17	-589.81	357.86	472.36	454.57	17.79	26.549		
3,600.00	3,574.28	3,558.65	3,495.97	8.78	10.19	73.12	-606.20	369.82	484.94	466.72	18.22	26.622		
3,700.00	3,673.46	3,657.85	3,593.08	8.99	10.45	73.08	-622.59	381.77	497.52	478.87	18.65	26.673		
3,800.00	3,772.65	3,757.06	3,690.19	9.21	10.72	73.04	-638.99	393.72	510.10	491.00	19.10	26.704		
3,900.00	3,871.83	3,856.26	3,787.30	9.43	10.99	73.01	-655.38	405.68	522.68	503.12	19.56	26.719		
4,000.00	3,971.02	3,955.46	3,884.41	9.66	11.27	72.97	-671.77	417.63	535.26	515.23	20.03	26.718		
4,100.00	4,070.20	4,054.67	3,981.52	9.89	11.56	72.93	-688.16	429.58	547.84	527.33	20.51	26.705		
4,200.00	4,169.39	4,153.87	4,078.63	10.13	11.84	72.90	-704.55	441.54	560.42	539.42	21.01	26.680		
4,300.00	4,268.57	4,253.08	4,175.73	10.37	12.14	72.87	-720.94	453.49	573.01	551.50	21.50	26.647		
4,400.00	4,367.76	4,352.28	4,272.84	10.62	12.44	72.84	-737.34	465.44	585.59	563.58	22.01	26.605		
4,500.00	4,466.94	4,451.49	4,369.95	10.87	12.74	72.81	-753.73	477.39	598.17	575.65	22.52	26.557		
4,600.00	4,566.13	4,550.69	4,467.06	11.12	13.04	72.78	-770.12	489.35	610.75	587.71	23.05	26.502		
4,700.00	4,665.31	4,649.90	4,564.17	11.38	13.35	72.76	-786.51	501.30	623.33	599.76	23.57	26.443		
4,800.00	4,764.50	4,749.10	4,661.28	11.63	13.66	72.73	-802.90	513.25	635.92	611.81	24.11	26.380		
4,900.00	4,863.68	4,848.31	4,758.38	11.90	13.98	72.71	-819.29	525.21	648.50	623.86	24.64	26.314		
5,000.00	4,962.87	4,947.51	4,855.49	12.16	14.30	72.68	-835.69	537.16	661.08	635.89	25.19	26.246		
5,100.00	5,062.05	5,046.72	4,952.60	12.43	14.62	72.66	-852.08	549.11	673.67	647.93	25.74	26.175		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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								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	5,161.24	5,145.92	5,049.71	12.70	14.94	72.64	-868.47	561.07	686.25	659.96	26.29	26.103		
5,300.00	5,260.42	5,245.13	5,146.82	12.97	15.26	72.62	-884.86	573.02	698.83	671.98	26.85	26.029		
5,400.00	5,359.61	5,344.33	5,243.93	13.24	15.59	72.60	-901.25	584.97	711.41	684.01	27.41	25.955		
5,500.00	5,458.79	5,443.54	5,341.03	13.52	15.92	72.58	-917.64	596.92	724.00	696.02	27.98	25.880		
5,600.00	5,557.98	5,542.74	5,438.14	13.79	16.25	72.56	-934.04	608.88	736.58	708.04	28.54	25.805		
5,700.00	5,657.16	5,641.95	5,535.25	14.07	16.58	72.54	-950.43	620.83	749.16	720.05	29.12	25.730		
5,800.00	5,756.35	5,741.15	5,632.36	14.35	16.92	72.52	-966.82	632.78	761.75	732.06	29.69	25.655		
5,900.00	5,855.53	5,840.36	5,729.47	14.63	17.26	72.51	-983.21	644.74	774.33	744.06	30.27	25.581		
6,000.00	5,954.72	5,939.56	5,826.58	14.91	17.59	72.49	-999.60	656.69	786.92	756.06	30.85	25.507		
6,100.00	6,053.90	6,038.77	5,923.68	15.20	17.93	72.47	-1,015.99	668.64	799.50	768.06	31.43	25.434		
6,200.00	6,153.09	6,137.97	6,020.79	15.48	18.27	72.46	-1,032.39	680.60	812.08	780.06	32.02	25.361		
6,300.00	6,252.27	6,237.18	6,117.90	15.77	18.61	72.44	-1,048.78	692.55	824.67	792.06	32.61	25.289		
6,400.00	6,351.46	6,336.38	6,215.01	16.06	18.96	72.43	-1,065.17	704.50	837.25	804.05	33.20	25.218		
6,500.00	6,450.64	6,435.59	6,312.12	16.34	19.30	72.41	-1,081.56	716.45	849.83	816.04	33.79	25.148		
6,600.00	6,549.83	6,534.79	6,409.23	16.63	19.65	72.40	-1,097.95	728.41	862.42	828.03	34.39	25.079		
6,700.00	6,649.01	6,634.00	6,506.34	16.92	19.99	72.39	-1,114.34	740.36	875.00	840.02	34.99	25.011		
6,800.00	6,748.73	6,732.81	6,603.06	17.13	20.34	-38.25	-1,130.67	752.27	887.49	852.03	35.47	25.024		
6,900.00	6,847.93	6,829.61	6,697.95	17.25	20.63	-77.12	-1,146.69	762.60	899.98	864.21	35.77	25.157		
7,000.00	6,944.17	6,928.56	6,795.40	17.33	20.84	-82.74	-1,163.12	760.46	912.72	876.76	35.96	25.384		
7,100.00	7,035.09	7,031.70	6,895.34	17.37	21.00	-85.11	-1,179.96	741.98	925.43	889.37	36.07	25.659		
7,200.00	7,118.44	7,139.54	6,995.26	17.39	21.11	-86.54	-1,196.76	705.45	937.76	901.63	36.13	25.955		
7,300.00	7,192.18	7,252.48	7,091.83	17.41	21.18	-87.56	-1,212.99	649.45	949.27	913.08	36.19	26.231		
7,400.00	7,254.49	7,370.73	7,180.82	17.45	21.20	-88.35	-1,227.91	573.29	959.52	923.22	36.30	26.431		
7,500.00	7,303.82	7,494.15	7,257.23	17.54	21.17	-88.97	-1,240.68	477.47	968.06	931.50	36.56	26.479		
7,600.00	7,338.98	7,622.13	7,315.71	17.72	21.09	-89.43	-1,250.42	364.29	974.45	937.40	37.05	26.302		
7,700.00	7,359.09	7,753.55	7,351.33	18.02	20.97	-89.72	-1,256.28	238.16	978.32	940.49	37.82	25.866		
7,800.00	7,364.03	7,881.48	7,360.99	18.43	20.83	-89.82	-1,257.76	110.80	979.46	940.61	38.86	25.207		
7,900.00	7,364.15	7,981.48	7,360.97	19.00	20.72	-89.81	-1,257.64	10.80	979.58	939.59	39.99	24.495		
8,000.00	7,364.28	8,081.48	7,360.94	19.70	21.08	-89.80	-1,257.52	-89.20	979.69	938.33	41.36	23.686		
8,100.00	7,364.41	8,181.48	7,360.92	20.52	21.92	-89.80	-1,257.40	-189.20	979.81	936.86	42.95	22.811		
8,200.00	7,364.54	8,281.48	7,360.89	21.44	22.84	-89.79	-1,257.28	-289.20	979.92	935.18	44.74	21.902		
8,300.00	7,364.67	8,381.48	7,360.87	22.46	23.83	-89.78	-1,257.16	-389.20	980.04	933.34	46.70	20.985		
8,400.00	7,364.79	8,481.48	7,360.84	23.54	24.89	-89.77	-1,257.04	-489.19	980.16	931.34	48.82	20.079		
8,500.00	7,364.92	8,581.48	7,360.81	24.70	26.01	-89.76	-1,256.92	-589.19	980.27	929.21	51.06	19.198		
8,600.00	7,365.05	8,681.48	7,360.79	25.91	27.18	-89.75	-1,256.80	-689.19	980.39	926.96	53.42	18.351		
8,700.00	7,365.18	8,781.48	7,360.76	27.17	28.40	-89.74	-1,256.68	-789.19	980.50	924.62	55.89	17.544		
8,800.00	7,365.31	8,881.48	7,360.74	28.47	29.66	-89.73	-1,256.56	-889.19	980.62	922.18	58.44	16.780		
8,900.00	7,365.43	8,981.48	7,360.71	29.81	30.95	-89.72	-1,256.44	-989.19	980.74	919.67	61.07	16.059		
9,000.00	7,365.56	9,081.48	7,360.69	31.19	32.28	-89.72	-1,256.32	-1,089.19	980.85	917.08	63.77	15.382		
9,100.00	7,365.69	9,181.48	7,360.66	32.59	33.64	-89.71	-1,256.20	-1,189.19	980.97	914.44	66.52	14.746		
9,200.00	7,365.82	9,281.48	7,360.64	34.01	35.03	-89.70	-1,256.08	-1,289.19	981.08	911.75	69.33	14.150		
9,300.00	7,365.95	9,381.48	7,360.61	35.46	36.43	-89.69	-1,255.96	-1,389.19	981.20	909.01	72.19	13.593		
9,400.00	7,366.08	9,481.48	7,360.58	36.92	37.86	-89.68	-1,255.84	-1,489.19	981.32	906.23	75.08	13.070		
9,500.00	7,366.20	9,624.67	7,360.55	38.40	39.94	-89.67	-1,252.89	-1,632.34	979.60	901.23	78.38	12.499		
9,600.00	7,366.33	9,776.01	7,360.51	39.90	42.15	-89.65	-1,242.05	-1,783.27	972.67	891.07	81.60	11.919		
9,700.00	7,366.46	9,871.90	7,360.48	41.41	43.57	-89.64	-1,233.04	-1,878.73	963.51	878.93	84.58	11.392		
9,800.00	7,366.59	9,971.47	7,360.46	42.93	45.05	-89.62	-1,223.67	-1,977.87	954.33	866.73	87.59	10.895		
9,900.00	7,366.72	10,071.05	7,360.43	44.47	46.55	-89.61	-1,214.29	-2,077.00	945.15	854.52	90.63	10.429		
10,000.00	7,366.84	10,170.63	7,360.41	46.01	48.05	-89.60	-1,204.92	-2,176.14	935.97	842.28	93.68	9.991		
10,100.00	7,366.97	10,270.21	7,360.38	47.56	49.57	-89.58	-1,195.54	-2,275.27	926.79	830.03	96.76	9.578		
10,200.00	7,367.10	10,369.78	7,360.36	49.12	51.09	-89.57	-1,186.16	-2,374.41	917.61	817.75	99.85	9.190		
10,300.00	7,367.23	10,469.36	7,360.33	50.68	52.63	-89.56	-1,176.79	-2,473.54	908.43	805.47	102.96	8.823		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	7,367.36	10,568.94	7,360.31	52.26	54.17	-89.54	-1,167.41	-2,572.68	899.25	793.17	106.08	8.477		
10,500.00	7,367.49	10,668.52	7,360.28	53.84	55.72	-89.53	-1,158.04	-2,671.81	890.07	780.85	109.21	8.150		
10,600.00	7,367.61	10,768.09	7,360.26	55.42	57.28	-89.51	-1,148.66	-2,770.95	880.89	768.53	112.36	7.840		
10,700.00	7,367.74	10,867.67	7,360.23	57.01	58.84	-89.50	-1,139.28	-2,870.08	871.71	756.19	115.52	7.546		
10,800.00	7,367.87	10,953.67	7,360.21	58.60	60.19	-89.48	-1,131.54	-2,955.74	862.99	744.31	118.67	7.272		
10,900.00	7,368.00	11,030.44	7,360.19	60.20	61.41	-89.47	-1,126.54	-3,032.34	856.71	734.93	121.78	7.035		
11,000.00	7,368.13	11,107.41	7,360.17	61.80	62.63	-89.46	-1,123.59	-3,109.25	853.11	728.28	124.83	6.834		
11,083.26	7,368.23	11,173.42	7,360.15	63.14	63.67	-89.46	-1,122.71	-3,173.16	852.17	724.83	127.34	6.692		
11,100.00	7,368.25	11,188.07	7,360.15	63.41	63.91	-89.46	-1,122.68	-3,189.90	852.17	724.33	127.85	6.666		
11,200.00	7,368.38	11,288.07	7,360.12	65.02	65.50	-89.44	-1,122.45	-3,289.90	852.19	721.14	131.05	6.503		
11,300.00	7,368.51	11,388.07	7,360.10	66.63	67.10	-89.43	-1,122.23	-3,389.90	852.20	717.94	134.26	6.347		
11,400.00	7,368.64	11,488.07	7,360.07	68.24	68.70	-89.42	-1,122.01	-3,489.90	852.22	714.73	137.48	6.199		
11,500.00	7,368.77	11,588.07	7,360.05	69.86	70.31	-89.41	-1,121.79	-3,589.90	852.23	711.52	140.71	6.057		
11,600.00	7,368.90	11,688.07	7,360.02	71.48	71.92	-89.40	-1,121.56	-3,689.90	852.25	708.31	143.94	5.921		
11,700.00	7,369.02	11,788.07	7,359.99	73.10	73.53	-89.39	-1,121.34	-3,789.90	852.26	705.09	147.17	5.791		
11,800.00	7,369.15	11,888.07	7,359.97	74.73	75.14	-89.38	-1,121.12	-3,889.90	852.27	701.86	150.41	5.666		
11,900.00	7,369.28	11,988.07	7,359.94	76.36	76.76	-89.37	-1,120.90	-3,989.90	852.29	698.63	153.66	5.547		
12,000.00	7,369.41	12,088.07	7,359.92	77.98	78.38	-89.36	-1,120.68	-4,089.90	852.30	695.40	156.90	5.432		
12,100.00	7,369.54	12,188.07	7,359.89	79.61	80.00	-89.35	-1,120.45	-4,189.90	852.32	692.16	160.16	5.322		
12,200.00	7,369.66	12,288.07	7,359.87	81.25	81.62	-89.34	-1,120.23	-4,289.90	852.33	688.92	163.41	5.216		
12,300.00	7,369.79	12,388.07	7,359.84	82.88	83.25	-89.33	-1,120.01	-4,389.90	852.35	685.68	166.67	5.114		
12,400.00	7,369.92	12,488.07	7,359.82	84.52	84.88	-89.32	-1,119.79	-4,489.90	852.36	682.43	169.93	5.016		
12,500.00	7,370.05	12,588.07	7,359.79	86.15	86.50	-89.31	-1,119.56	-4,589.90	852.38	679.18	173.20	4.921		
12,600.00	7,370.18	12,688.07	7,359.76	87.79	88.13	-89.30	-1,119.34	-4,689.90	852.39	675.92	176.47	4.830		
12,700.00	7,370.30	12,788.07	7,359.74	89.43	89.77	-89.29	-1,119.12	-4,789.90	852.41	672.67	179.74	4.742		
12,800.00	7,370.43	12,888.07	7,359.71	91.07	91.40	-89.28	-1,118.90	-4,889.90	852.42	669.41	183.01	4.658		
12,900.00	7,370.56	12,988.07	7,359.69	92.71	93.03	-89.27	-1,118.68	-4,989.90	852.44	666.15	186.29	4.576		
13,000.00	7,370.69	13,088.07	7,359.66	94.35	94.67	-89.26	-1,118.45	-5,089.90	852.45	662.88	189.57	4.497		
13,100.00	7,370.82	13,188.07	7,359.64	96.00	96.31	-89.25	-1,118.23	-5,189.90	852.47	659.61	192.85	4.420		
13,200.00	7,370.95	13,288.07	7,359.61	97.64	97.94	-89.24	-1,118.01	-5,289.89	852.48	656.35	196.13	4.346		
13,300.00	7,371.07	13,388.07	7,359.58	99.29	99.58	-89.23	-1,117.79	-5,389.89	852.50	653.08	199.42	4.275		
13,400.00	7,371.20	13,488.07	7,359.56	100.93	101.22	-89.22	-1,117.56	-5,489.89	852.51	649.80	202.71	4.206		
13,500.00	7,371.33	13,588.07	7,359.53	102.58	102.87	-89.21	-1,117.34	-5,589.89	852.53	646.53	206.00	4.139		
13,600.00	7,371.46	13,688.07	7,359.51	104.23	104.51	-89.20	-1,117.12	-5,689.89	852.54	643.26	209.29	4.074		
13,700.00	7,371.59	13,788.07	7,359.48	105.88	106.15	-89.19	-1,116.90	-5,789.89	852.56	639.98	212.58	4.011		
13,800.00	7,371.71	13,888.07	7,359.46	107.53	107.80	-89.18	-1,116.68	-5,889.89	852.57	636.70	215.87	3.949		
13,900.00	7,371.84	13,988.07	7,359.43	109.18	109.44	-89.17	-1,116.45	-5,989.89	852.59	633.42	219.17	3.890		
14,000.00	7,371.97	14,088.07	7,359.41	110.83	111.09	-89.16	-1,116.23	-6,089.89	852.60	630.14	222.46	3.833		
14,100.00	7,372.10	14,188.07	7,359.38	112.48	112.73	-89.15	-1,116.01	-6,189.89	852.62	626.85	225.76	3.777		
14,200.00	7,372.23	14,288.07	7,359.35	114.13	114.38	-89.13	-1,115.79	-6,289.89	852.63	623.57	229.06	3.722		
14,300.00	7,372.36	14,388.07	7,359.33	115.78	116.03	-89.12	-1,115.56	-6,389.89	852.65	620.29	232.36	3.669		
14,400.00	7,372.48	14,488.07	7,359.30	117.44	117.68	-89.11	-1,115.34	-6,489.89	852.66	617.00	235.66	3.618		
14,500.00	7,372.61	14,588.07	7,359.28	119.09	119.32	-89.10	-1,115.12	-6,589.89	852.68	613.71	238.97	3.568		
14,600.00	7,372.74	14,688.07	7,359.25	120.74	120.97	-89.09	-1,114.90	-6,689.89	852.69	610.42	242.27	3.520		
14,700.00	7,372.87	14,788.07	7,359.23	122.40	122.63	-89.08	-1,114.68	-6,789.89	852.71	607.13	245.58	3.472		
14,800.00	7,373.00	14,888.07	7,359.20	124.05	124.28	-89.07	-1,114.45	-6,889.89	852.72	603.84	248.88	3.426		
14,900.00	7,373.12	14,988.07	7,359.17	125.71	125.93	-89.06	-1,114.23	-6,989.89	852.74	600.55	252.19	3.381		
15,000.00	7,373.25	15,088.07	7,359.15	127.36	127.58	-89.05	-1,114.01	-7,089.89	852.76	597.26	255.50	3.338		
15,100.00	7,373.38	15,188.07	7,359.12	129.02	129.23	-89.04	-1,113.79	-7,189.89	852.77	593.97	258.81	3.295		
15,200.00	7,373.51	15,288.07	7,359.10	130.68	130.89	-89.03	-1,113.56	-7,289.89	852.79	590.67	262.12	3.253		
15,300.00	7,373.64	15,388.07	7,359.07	132.33	132.54	-89.02	-1,113.34	-7,389.89	852.80	587.38	265.43	3.213		
15,400.00	7,373.77	15,488.07	7,359.05	133.99	134.19	-89.01	-1,113.12	-7,489.89	852.82	584.08	268.74	3.173		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	
15,500.00	7,373.89	15,588.07	7,359.02	135.65	135.85	-89.00	-1,112.90	-7,589.89	852.83	580.78	272.05	3.135	
15,583.33	7,374.00	15,671.39	7,359.00	137.03	137.23	-88.99	-1,112.71	-7,673.21	852.85	578.04	274.81	3.103 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.73	-119.85	0.56	119.85					
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-119.85	0.56	119.85	112.33	7.53	15.919		
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-119.85	0.56	119.85	112.28	7.57	15.825 CC, ES		
300.00	299.98	296.61	296.59	3.35	3.34	71.85	-121.21	1.46	120.71	113.06	7.65	15.775		
400.00	399.84	393.15	393.00	3.41	3.40	72.78	-125.28	4.15	123.31	115.55	7.76	15.886		
500.00	499.45	489.55	489.06	3.50	3.48	74.23	-132.04	8.64	127.71	119.80	7.92	16.131		
600.00	598.73	585.75	584.59	3.62	3.59	76.06	-141.46	14.89	134.06	125.93	8.12	16.505		
700.00	697.91	681.70	679.44	3.76	3.73	77.25	-153.52	22.89	142.95	134.57	8.38	17.058		
800.00	797.10	777.22	773.32	3.93	3.91	77.52	-168.15	32.59	154.44	145.76	8.69	17.781		
900.00	896.28	873.19	867.04	4.12	4.13	77.08	-185.38	44.01	168.40	159.36	9.04	18.627		
1,000.00	995.47	972.10	963.42	4.33	4.41	76.51	-203.87	56.27	183.07	173.61	9.46	19.351		
1,100.00	1,094.65	1,071.00	1,059.81	4.56	4.71	76.02	-222.35	68.53	197.76	187.85	9.92	19.943		
1,200.00	1,193.84	1,169.90	1,156.19	4.80	5.03	75.60	-240.84	80.79	212.46	202.06	10.40	20.424		
1,300.00	1,293.02	1,268.80	1,252.57	5.05	5.37	75.24	-259.32	93.05	227.17	216.26	10.91	20.813		
1,400.00	1,392.21	1,367.71	1,348.96	5.31	5.73	74.92	-277.81	105.30	241.89	230.45	11.45	21.129		
1,500.00	1,491.39	1,466.61	1,445.34	5.58	6.10	74.64	-296.29	117.56	256.62	244.62	12.00	21.384		
1,600.00	1,590.58	1,565.51	1,541.72	5.86	6.48	74.39	-314.78	129.82	271.35	258.78	12.57	21.588		
1,700.00	1,689.76	1,664.41	1,638.11	6.15	6.87	74.16	-333.27	142.08	286.08	272.93	13.15	21.752		
1,800.00	1,788.95	1,763.32	1,734.49	6.43	7.27	73.96	-351.75	154.34	300.82	287.08	13.75	21.884		
1,900.00	1,888.13	1,862.22	1,830.87	6.59	7.56	73.77	-370.24	166.60	315.57	301.83	13.74	22.969		
2,000.00	1,987.32	1,961.12	1,927.26	6.62	7.68	73.60	-388.72	178.86	330.31	316.46	13.85	23.853		
2,100.00	2,086.50	2,060.02	2,023.64	6.66	7.75	73.45	-407.21	191.11	345.06	331.13	13.93	24.773		
2,200.00	2,185.69	2,158.93	2,120.02	6.72	7.83	73.31	-425.69	203.37	359.81	345.77	14.04	25.625		
2,300.00	2,284.87	2,257.83	2,216.40	6.79	7.93	73.18	-444.18	215.63	374.56	360.38	14.18	26.406		
2,400.00	2,384.06	2,356.73	2,312.79	6.88	8.05	73.06	-462.66	227.89	389.31	374.96	14.36	27.115		
2,500.00	2,483.24	2,455.63	2,409.17	6.98	8.19	72.95	-481.15	240.15	404.07	389.51	14.56	27.753		
2,600.00	2,582.43	2,554.54	2,505.55	7.09	8.34	72.84	-499.64	252.41	418.83	404.04	14.79	28.321		
2,700.00	2,681.61	2,653.44	2,601.94	7.22	8.51	72.75	-518.12	264.67	433.58	418.54	15.04	28.821		
2,800.00	2,780.80	2,752.34	2,698.32	7.35	8.69	72.66	-536.61	276.92	448.34	433.02	15.32	29.258		
2,900.00	2,879.98	2,851.24	2,794.70	7.50	8.88	72.57	-555.09	289.18	463.10	447.48	15.63	29.634		
3,000.00	2,979.17	2,950.15	2,891.09	7.66	9.09	72.49	-573.58	301.44	477.86	461.91	15.95	29.956		
3,100.00	3,078.35	3,049.05	2,987.47	7.82	9.31	72.42	-592.06	313.70	492.63	476.33	16.30	30.226		
3,200.00	3,177.54	3,147.95	3,083.85	8.00	9.54	72.35	-610.55	325.96	507.39	490.73	16.66	30.450		
3,300.00	3,276.72	3,246.85	3,180.24	8.18	9.78	72.28	-629.04	338.22	522.15	505.11	17.05	30.633		
3,400.00	3,375.91	3,345.76	3,276.62	8.37	10.03	72.22	-647.52	350.48	536.92	519.47	17.45	30.777		
3,500.00	3,475.09	3,444.66	3,373.00	8.57	10.29	72.16	-666.01	362.73	551.68	533.82	17.86	30.889		
3,600.00	3,574.28	3,543.56	3,469.39	8.78	10.55	72.10	-684.49	374.99	566.45	548.16	18.29	30.971		
3,700.00	3,673.46	3,642.46	3,565.77	8.99	10.82	72.05	-702.98	387.25	581.21	562.48	18.73	31.027		
3,800.00	3,772.65	3,741.37	3,662.15	9.21	11.10	72.00	-721.46	399.51	595.98	576.79	19.19	31.061		
3,900.00	3,871.83	3,840.27	3,758.53	9.43	11.39	71.95	-739.95	411.77	610.74	591.09	19.65	31.075		
4,000.00	3,971.02	3,939.17	3,854.92	9.66	11.68	71.90	-758.44	424.03	625.51	605.38	20.13	31.071		
4,100.00	4,070.20	4,038.07	3,951.30	9.89	11.98	71.86	-776.92	436.29	640.28	619.66	20.62	31.053		
4,200.00	4,169.39	4,136.98	4,047.68	10.13	12.28	71.82	-795.41	448.54	655.05	633.93	21.12	31.022		
4,300.00	4,268.57	4,235.88	4,144.07	10.37	12.59	71.78	-813.89	460.80	669.81	648.19	21.62	30.980		
4,400.00	4,367.76	4,334.78	4,240.45	10.62	12.90	71.74	-832.38	473.06	684.58	662.45	22.13	30.929		
4,500.00	4,466.94	4,433.68	4,336.83	10.87	13.22	71.70	-850.86	485.32	699.35	676.70	22.65	30.870		
4,600.00	4,566.13	4,532.59	4,433.22	11.12	13.54	71.67	-869.35	497.58	714.12	690.94	23.18	30.805		
4,700.00	4,665.31	4,631.49	4,529.60	11.38	13.86	71.63	-887.84	509.84	728.89	705.17	23.72	30.734		
4,800.00	4,764.50	4,730.39	4,625.98	11.63	14.19	71.60	-906.32	522.10	743.66	719.40	24.26	30.659		
4,900.00	4,863.68	4,829.29	4,722.37	11.90	14.52	71.57	-924.81	534.36	758.43	733.63	24.80	30.580		
5,000.00	4,962.87	4,928.20	4,818.75	12.16	14.85	71.54	-943.29	546.61	773.20	747.85	25.35	30.498		
5,100.00	5,062.05	5,027.10	4,915.13	12.43	15.18	71.51	-961.78	558.87	787.97	762.06	25.91	30.414		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
5,200.00	5,161.24	5,126.00	5,011.51	12.70	15.52	71.48	-980.26	571.13	802.74	776.27	26.47	30.328		
5,300.00	5,260.42	5,224.90	5,107.90	12.97	15.86	71.46	-998.75	583.39	817.51	790.48	27.03	30.241		
5,400.00	5,359.61	5,323.81	5,204.28	13.24	16.20	71.43	-1,017.24	595.65	832.28	804.68	27.60	30.153		
5,500.00	5,458.79	5,422.71	5,300.66	13.52	16.55	71.41	-1,035.72	607.91	847.05	818.88	28.17	30.065		
5,600.00	5,557.98	5,521.61	5,397.05	13.79	16.89	71.38	-1,054.21	620.17	861.82	833.07	28.75	29.976		
5,700.00	5,657.16	5,620.51	5,493.43	14.07	17.24	71.36	-1,072.69	632.42	876.59	847.26	29.33	29.888		
5,800.00	5,756.35	5,719.42	5,589.81	14.35	17.59	71.34	-1,091.18	644.68	891.36	861.45	29.91	29.800		
5,900.00	5,855.53	5,818.32	5,686.20	14.63	17.94	71.32	-1,109.66	656.94	906.13	875.64	30.50	29.712		
6,000.00	5,954.72	5,917.22	5,782.58	14.91	18.29	71.29	-1,128.15	669.20	920.91	889.82	31.09	29.625		
6,100.00	6,053.90	6,016.12	5,878.96	15.20	18.65	71.27	-1,146.63	681.46	935.68	904.00	31.68	29.539		
6,200.00	6,153.09	6,115.03	5,975.35	15.48	19.00	71.25	-1,165.12	693.72	950.45	918.18	32.27	29.453		
6,300.00	6,252.27	6,213.93	6,071.73	15.77	19.36	71.24	-1,183.61	705.98	965.22	932.36	32.87	29.369		
6,400.00	6,351.46	6,312.83	6,168.11	16.06	19.72	71.22	-1,202.09	718.23	979.99	946.53	33.46	29.286		
6,500.00	6,450.64	6,411.73	6,264.50	16.34	20.08	71.20	-1,220.58	730.49	994.76	960.70	34.06	29.203		
6,600.00	6,549.83	6,510.63	6,360.88	16.63	20.44	71.18	-1,239.06	742.75	1,009.54	974.87	34.67	29.122		
6,700.00	6,649.01	6,609.54	6,457.26	16.92	20.80	71.16	-1,257.55	755.01	1,024.31	989.04	35.27	29.042		
6,800.00	6,748.73	6,705.50	6,551.22	17.13	21.06	-38.85	-1,275.64	761.11	1,039.24	1,003.52	35.71	29.099		
6,900.00	6,847.93	6,801.39	6,644.91	17.25	21.25	-76.26	-1,293.86	752.87	1,054.30	1,018.29	36.01	29.279		
7,000.00	6,944.17	6,897.71	6,736.69	17.33	21.39	-80.33	-1,311.88	730.26	1,069.14	1,032.94	36.20	29.534		
7,100.00	7,035.09	6,994.62	6,824.56	17.37	21.50	-81.22	-1,329.33	693.55	1,083.39	1,047.08	36.31	29.834		
7,200.00	7,118.44	7,092.27	6,906.51	17.39	21.56	-81.25	-1,345.79	643.26	1,096.71	1,060.32	36.39	30.138		
7,300.00	7,192.18	7,190.77	6,980.53	17.41	21.59	-81.01	-1,360.88	580.19	1,108.78	1,072.30	36.48	30.394		
7,400.00	7,254.49	7,290.21	7,044.63	17.45	21.58	-80.69	-1,374.19	505.48	1,119.30	1,082.65	36.65	30.540		
7,500.00	7,303.82	7,390.63	7,096.97	17.54	21.54	-80.40	-1,385.36	420.63	1,128.02	1,091.05	36.96	30.516		
7,600.00	7,338.98	7,492.01	7,135.85	17.72	21.47	-80.19	-1,394.02	327.52	1,134.71	1,097.23	37.48	30.278		
7,700.00	7,359.09	7,594.29	7,159.87	18.02	21.37	-80.09	-1,399.88	228.39	1,139.21	1,101.00	38.21	29.815		
7,800.00	7,364.03	7,697.35	7,168.00	18.43	21.26	-80.11	-1,402.72	125.80	1,141.45	1,102.30	39.15	29.154		
7,900.00	7,364.15	7,802.71	7,168.19	19.00	21.15	-80.13	-1,403.98	25.87	1,142.92	1,102.57	40.35	28.322		
8,000.00	7,364.28	7,902.72	7,168.36	19.70	21.20	-80.14	-1,405.25	-74.11	1,144.39	1,102.63	41.76	27.405		
8,100.00	7,364.41	8,002.73	7,168.54	20.52	21.92	-80.16	-1,406.51	-174.10	1,145.86	1,102.49	43.37	26.420		
8,200.00	7,364.54	8,102.74	7,168.72	21.44	22.83	-80.17	-1,407.77	-274.08	1,147.33	1,102.16	45.17	25.399		
8,300.00	7,364.67	8,202.75	7,168.90	22.46	23.81	-80.19	-1,409.04	-374.06	1,148.80	1,101.66	47.14	24.371		
8,400.00	7,364.79	8,302.76	7,169.08	23.54	24.87	-80.20	-1,410.30	-474.04	1,150.27	1,101.02	49.25	23.357		
8,500.00	7,364.92	8,397.23	7,169.26	24.70	25.92	-80.22	-1,411.57	-574.02	1,151.74	1,100.31	51.42	22.397		
8,600.00	7,365.05	8,502.78	7,169.44	25.91	27.15	-80.23	-1,412.83	-674.00	1,153.21	1,099.37	53.83	21.422		
8,700.00	7,365.18	8,602.80	7,169.62	27.17	28.37	-80.25	-1,414.10	-773.98	1,154.68	1,098.40	56.28	20.517		
8,800.00	7,365.31	8,702.81	7,169.80	28.47	29.63	-80.26	-1,415.36	-873.96	1,156.15	1,097.34	58.81	19.659		
8,900.00	7,365.43	8,802.82	7,169.98	29.81	30.92	-80.28	-1,416.63	-973.94	1,157.62	1,096.20	61.41	18.849		
9,000.00	7,365.56	8,902.83	7,170.16	31.19	32.25	-80.29	-1,417.89	-1,073.92	1,159.09	1,095.00	64.08	18.087		
9,100.00	7,365.69	9,002.84	7,170.34	32.59	33.60	-80.31	-1,419.15	-1,173.90	1,160.56	1,093.74	66.81	17.371		
9,200.00	7,365.82	9,102.85	7,170.52	34.01	34.98	-80.32	-1,420.42	-1,273.88	1,162.03	1,092.44	69.59	16.699		
9,300.00	7,365.95	9,202.86	7,170.69	35.46	36.39	-80.34	-1,421.68	-1,373.86	1,163.49	1,091.08	72.41	16.068		
9,400.00	7,366.08	9,302.87	7,170.87	36.92	37.81	-80.35	-1,422.95	-1,473.84	1,164.96	1,089.69	75.27	15.477		
9,500.00	7,366.20	9,402.89	7,171.05	38.40	39.26	-80.37	-1,424.21	-1,573.82	1,166.43	1,088.27	78.17	14.922		
9,600.00	7,366.33	9,502.90	7,171.23	39.90	40.72	-80.38	-1,425.48	-1,673.80	1,167.91	1,086.81	81.10	14.401		
9,700.00	7,366.46	9,602.91	7,171.41	41.41	42.20	-80.40	-1,426.74	-1,773.78	1,169.38	1,085.32	84.05	13.912		
9,800.00	7,366.59	9,702.92	7,171.59	42.93	43.68	-80.41	-1,428.01	-1,873.76	1,170.85	1,083.81	87.04	13.452		
9,900.00	7,366.72	9,802.93	7,171.77	44.47	45.19	-80.43	-1,429.27	-1,973.75	1,172.32	1,082.27	90.04	13.020		
10,000.00	7,366.84	9,902.94	7,171.95	46.01	46.70	-80.44	-1,430.54	-2,073.73	1,173.79	1,080.72	93.07	12.612		
10,100.00	7,366.97	10,002.95	7,172.13	47.56	48.22	-80.46	-1,431.80	-2,173.71	1,175.26	1,079.14	96.11	12.228		
10,200.00	7,367.10	10,102.97	7,172.31	49.12	49.75	-80.47	-1,433.06	-2,273.69	1,176.73	1,077.55	99.17	11.865		
10,300.00	7,367.23	10,202.98	7,172.49	50.68	51.29	-80.49	-1,434.33	-2,373.67	1,178.20	1,075.95	102.25	11.523		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
10,400.00	7,367.36	10,302.99	7,172.67	52.26	52.84	-80.50	-1,435.59	-2,473.65	1,179.67	1,074.33	105.34	11.198		
10,500.00	7,367.49	10,403.00	7,172.85	53.84	54.39	-80.52	-1,436.86	-2,573.63	1,181.14	1,072.69	108.45	10.891		
10,600.00	7,367.61	10,503.01	7,173.02	55.42	55.96	-80.53	-1,438.12	-2,673.61	1,182.61	1,071.05	111.56	10.600		
10,700.00	7,367.74	10,603.02	7,173.20	57.01	57.52	-80.54	-1,439.39	-2,773.59	1,184.08	1,069.39	114.69	10.324		
10,800.00	7,367.87	10,696.97	7,173.38	58.60	59.00	-80.56	-1,440.65	-2,873.57	1,185.55	1,067.82	117.73	10.070		
10,900.00	7,368.00	10,825.31	7,173.61	60.20	61.02	-80.56	-1,440.11	-3,001.91	1,185.22	1,064.10	121.13	9.785		
11,000.00	7,368.13	10,925.30	7,173.79	61.80	62.60	-80.55	-1,438.95	-3,101.89	1,184.30	1,060.02	124.28	9.529		
11,100.00	7,368.25	11,025.30	7,173.97	63.41	64.19	-80.55	-1,437.79	-3,201.88	1,183.38	1,055.94	127.44	9.285		
11,200.00	7,368.38	11,125.30	7,174.15	65.02	65.78	-80.54	-1,436.63	-3,301.87	1,182.47	1,051.85	130.61	9.053		
11,300.00	7,368.51	11,225.29	7,174.33	66.63	67.38	-80.54	-1,435.47	-3,401.86	1,181.55	1,047.76	133.79	8.831		
11,400.00	7,368.64	11,325.29	7,174.51	68.24	68.97	-80.53	-1,434.31	-3,501.85	1,180.63	1,043.65	136.97	8.619		
11,500.00	7,368.77	11,425.28	7,174.69	69.86	70.58	-80.53	-1,433.15	-3,601.84	1,179.71	1,039.55	140.16	8.417		
11,600.00	7,368.90	11,525.28	7,174.87	71.48	72.18	-80.53	-1,432.00	-3,701.83	1,178.79	1,035.43	143.35	8.223		
11,700.00	7,369.02	11,625.27	7,175.05	73.10	73.79	-80.52	-1,430.84	-3,801.82	1,177.87	1,031.32	146.55	8.037		
11,800.00	7,369.15	11,725.27	7,175.23	74.73	75.40	-80.52	-1,429.68	-3,901.81	1,176.95	1,027.19	149.76	7.859		
11,900.00	7,369.28	11,825.27	7,175.41	76.36	77.01	-80.51	-1,428.52	-4,001.79	1,176.03	1,023.07	152.96	7.688		
12,000.00	7,369.41	11,925.26	7,175.59	77.98	78.63	-80.51	-1,427.36	-4,101.78	1,175.11	1,018.94	156.17	7.524		
12,100.00	7,369.54	12,025.26	7,175.77	79.61	80.24	-80.50	-1,426.20	-4,201.77	1,174.19	1,014.80	159.39	7.367		
12,200.00	7,369.66	12,125.25	7,175.95	81.25	81.86	-80.50	-1,425.05	-4,301.76	1,173.27	1,010.66	162.61	7.215		
12,300.00	7,369.79	12,225.25	7,176.13	82.88	83.48	-80.49	-1,423.89	-4,401.75	1,172.35	1,006.52	165.83	7.070		
12,400.00	7,369.92	12,325.24	7,176.31	84.52	85.11	-80.49	-1,422.73	-4,501.74	1,171.43	1,002.38	169.06	6.929		
12,500.00	7,370.05	12,425.24	7,176.49	86.15	86.73	-80.48	-1,421.57	-4,601.73	1,170.52	998.23	172.29	6.794		
12,600.00	7,370.18	12,525.24	7,176.67	87.79	88.36	-80.48	-1,420.41	-4,701.72	1,169.60	994.08	175.52	6.664		
12,700.00	7,370.30	12,625.23	7,176.85	89.43	89.99	-80.47	-1,419.25	-4,801.70	1,168.68	989.93	178.75	6.538		
12,800.00	7,370.43	12,725.23	7,177.03	91.07	91.62	-80.47	-1,418.10	-4,901.69	1,167.76	985.77	181.99	6.417		
12,900.00	7,370.56	12,825.22	7,177.21	92.71	93.25	-80.46	-1,416.94	-5,001.68	1,166.84	981.61	185.23	6.300		
13,000.00	7,370.69	12,925.22	7,177.39	94.35	94.89	-80.46	-1,415.78	-5,101.67	1,165.92	977.45	188.47	6.186		
13,100.00	7,370.82	13,025.21	7,177.57	96.00	96.52	-80.45	-1,414.62	-5,201.66	1,165.00	973.29	191.71	6.077		
13,200.00	7,370.95	13,125.21	7,177.75	97.64	98.16	-80.45	-1,413.46	-5,301.65	1,164.08	969.13	194.96	5.971		
13,300.00	7,371.07	13,225.21	7,177.93	99.29	99.79	-80.44	-1,412.30	-5,401.64	1,163.16	964.96	198.20	5.869		
13,400.00	7,371.20	13,325.20	7,178.11	100.93	101.43	-80.44	-1,411.14	-5,501.63	1,162.24	960.79	201.45	5.769		
13,500.00	7,371.33	13,425.20	7,178.29	102.58	103.07	-80.43	-1,409.99	-5,601.62	1,161.33	956.62	204.70	5.673		
13,600.00	7,371.46	13,525.19	7,178.46	104.23	104.71	-80.43	-1,408.83	-5,701.60	1,160.41	952.45	207.96	5.580		
13,700.00	7,371.59	13,625.19	7,178.64	105.88	106.35	-80.42	-1,407.67	-5,801.59	1,159.49	948.28	211.21	5.490		
13,800.00	7,371.71	13,725.18	7,178.82	107.53	108.00	-80.42	-1,406.51	-5,901.58	1,158.57	944.10	214.47	5.402		
13,900.00	7,371.84	13,825.18	7,179.00	109.18	109.64	-80.41	-1,405.35	-6,001.57	1,157.65	939.93	217.72	5.317		
14,000.00	7,371.97	13,925.18	7,179.18	110.83	111.28	-80.40	-1,404.19	-6,101.56	1,156.73	935.75	220.98	5.235		
14,100.00	7,372.10	14,025.17	7,179.36	112.48	112.93	-80.40	-1,403.04	-6,201.55	1,155.81	931.57	224.24	5.154		
14,200.00	7,372.23	14,125.17	7,179.54	114.13	114.57	-80.39	-1,401.88	-6,301.54	1,154.89	927.39	227.50	5.076		
14,300.00	7,372.36	14,225.16	7,179.72	115.78	116.22	-80.39	-1,400.72	-6,401.53	1,153.97	923.21	230.76	5.001		
14,400.00	7,372.48	14,325.16	7,179.90	117.44	117.87	-80.38	-1,399.56	-6,501.52	1,153.05	919.03	234.03	4.927		
14,500.00	7,372.61	14,425.15	7,180.08	119.09	119.52	-80.38	-1,398.40	-6,601.50	1,152.14	914.84	237.29	4.855		
14,600.00	7,372.74	14,525.15	7,180.26	120.74	121.16	-80.37	-1,397.24	-6,701.49	1,151.22	910.66	240.56	4.786		
14,700.00	7,372.87	14,625.15	7,180.44	122.40	122.81	-80.37	-1,396.09	-6,801.48	1,150.30	906.48	243.82	4.718		
14,800.00	7,373.00	14,725.14	7,180.62	124.05	124.46	-80.36	-1,394.93	-6,901.47	1,149.38	902.29	247.09	4.652		
14,900.00	7,373.12	14,825.14	7,180.80	125.71	126.11	-80.36	-1,393.77	-7,001.46	1,148.46	898.10	250.36	4.587		
15,000.00	7,373.25	14,925.13	7,180.98	127.36	127.76	-80.35	-1,392.61	-7,101.45	1,147.54	893.91	253.63	4.525		
15,100.00	7,373.38	15,025.13	7,181.16	129.02	129.42	-80.35	-1,391.45	-7,201.44	1,146.62	889.73	256.90	4.463		
15,200.00	7,373.51	15,125.12	7,181.34	130.68	131.07	-80.34	-1,390.29	-7,301.43	1,145.70	885.54	260.17	4.404		
15,300.00	7,373.64	15,225.12	7,181.52	132.33	132.72	-80.34	-1,389.14	-7,401.41	1,144.78	881.35	263.44	4.346		
15,400.00	7,373.77	15,325.12	7,181.70	133.99	134.37	-80.33	-1,387.98	-7,501.40	1,143.87	877.16	266.71	4.289		
15,500.00	7,373.89	15,425.11	7,181.88	135.65	136.03	-80.33	-1,386.82	-7,601.39	1,142.95	872.96	269.98	4.233		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-30B-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
15,576.56	7,373.99	15,501.67	7,182.02	136.92	137.29	-80.32	-1,385.93	-7,677.95	1,142.24	869.75	272.49	4.192	
15,583.33	7,374.00	15,492.61	7,182.00	137.03	137.14	-80.32	-1,386.04	-7,668.89	1,142.29	869.71	272.58	4.191 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	179.80	-79.78	0.28	79.78					
100.00	100.00	100.00	100.00	3.28	3.28	179.80	-79.78	0.28	79.78	72.25	7.53	10.597		
200.00	200.00	200.00	200.00	3.31	3.31	179.80	-79.78	0.28	79.78	72.21	7.57	10.534	CC, ES	
300.00	299.98	298.02	298.00	3.35	3.34	71.92	-80.99	1.44	80.47	72.82	7.65	10.514		
400.00	399.84	395.99	395.84	3.41	3.40	72.84	-84.62	4.92	82.55	74.79	7.77	10.629		
500.00	499.45	493.90	493.38	3.50	3.49	74.28	-90.65	10.70	86.07	78.14	7.93	10.857		
600.00	598.73	591.68	590.46	3.62	3.60	76.01	-99.08	18.78	91.12	82.98	8.14	11.192		
700.00	697.91	689.29	686.91	3.76	3.75	76.55	-109.87	29.13	98.30	89.89	8.41	11.687		
800.00	797.10	788.37	784.43	3.93	3.93	76.04	-122.52	41.27	107.07	98.33	8.74	12.250		
900.00	896.28	887.97	882.44	4.12	4.15	75.58	-135.32	53.54	115.92	106.80	9.12	12.711		
1,000.00	995.47	987.58	980.46	4.33	4.40	75.18	-148.11	65.80	124.77	115.23	9.54	13.083		
1,100.00	1,094.65	1,087.18	1,078.47	4.56	4.67	74.83	-160.90	78.07	133.63	123.64	9.99	13.379		
1,200.00	1,193.84	1,186.79	1,176.49	4.80	4.95	74.53	-173.69	90.34	142.49	132.03	10.47	13.614		
1,300.00	1,293.02	1,286.39	1,274.50	5.05	5.25	74.26	-186.49	102.61	151.36	140.39	10.97	13.798		
1,400.00	1,392.21	1,385.99	1,372.52	5.31	5.56	74.02	-199.28	114.87	160.23	148.73	11.49	13.942		
1,500.00	1,491.39	1,485.60	1,470.53	5.58	5.89	73.81	-212.07	127.14	169.10	157.06	12.03	14.052		
1,600.00	1,590.58	1,585.20	1,568.54	5.86	6.22	73.62	-224.86	139.41	177.97	165.38	12.59	14.136		
1,700.00	1,689.76	1,684.80	1,666.56	6.15	6.56	73.45	-237.66	151.67	186.84	173.69	13.16	14.199		
1,800.00	1,788.95	1,784.41	1,764.57	6.43	6.90	73.29	-250.45	163.94	195.72	181.98	13.74	14.246		
1,900.00	1,888.13	1,884.01	1,862.59	6.59	7.12	73.14	-263.24	176.21	204.60	190.91	13.69	14.945		
2,000.00	1,987.32	1,983.62	1,960.60	6.62	7.18	73.01	-276.03	188.48	213.48	199.71	13.77	15.507		
2,100.00	2,086.50	2,083.22	2,058.62	6.66	7.24	72.89	-288.82	200.74	222.36	208.51	13.85	16.056		
2,200.00	2,185.69	2,182.82	2,156.63	6.72	7.31	72.78	-301.62	213.01	231.24	217.28	13.96	16.562		
2,300.00	2,284.87	2,282.43	2,254.64	6.79	7.40	72.67	-314.41	225.28	240.12	226.02	14.10	17.025		
2,400.00	2,384.06	2,382.03	2,352.66	6.88	7.50	72.58	-327.20	237.55	249.00	234.73	14.27	17.444		
2,500.00	2,483.24	2,481.64	2,450.67	6.98	7.62	72.49	-339.99	249.81	257.88	243.41	14.47	17.820		
2,600.00	2,582.43	2,581.24	2,548.69	7.09	7.76	72.40	-352.79	262.08	266.77	252.07	14.69	18.154		
2,700.00	2,681.61	2,680.84	2,646.70	7.22	7.90	72.32	-365.58	274.35	275.65	260.71	14.94	18.447		
2,800.00	2,780.80	2,780.45	2,744.72	7.35	8.06	72.25	-378.37	286.62	284.54	269.32	15.21	18.701		
2,900.00	2,879.98	2,880.05	2,842.73	7.50	8.23	72.18	-391.16	298.88	293.42	277.91	15.51	18.919		
3,000.00	2,979.17	2,979.66	2,940.74	7.66	8.42	72.12	-403.96	311.15	302.31	286.48	15.82	19.104		
3,100.00	3,078.35	3,079.26	3,038.76	7.82	8.61	72.06	-416.75	323.42	311.19	295.03	16.16	19.259		
3,200.00	3,177.54	3,178.86	3,136.77	8.00	8.81	72.00	-429.54	335.69	320.08	303.57	16.51	19.385		
3,300.00	3,276.72	3,278.47	3,234.79	8.18	9.02	71.94	-442.33	347.95	328.97	312.08	16.88	19.486		
3,400.00	3,375.91	3,378.07	3,332.80	8.37	9.25	71.89	-455.13	360.22	337.85	320.58	17.27	19.565		
3,500.00	3,475.09	3,477.68	3,430.82	8.57	9.47	71.84	-467.92	372.49	346.74	329.07	17.67	19.623		
3,600.00	3,574.28	3,577.28	3,528.83	8.78	9.71	71.79	-480.71	384.76	355.63	337.54	18.09	19.664		
3,700.00	3,673.46	3,676.88	3,626.84	8.99	9.95	71.75	-493.50	397.02	364.51	346.00	18.51	19.689		
3,800.00	3,772.65	3,776.49	3,724.86	9.21	10.20	71.71	-506.30	409.29	373.40	354.45	18.95	19.701		
3,900.00	3,871.83	3,876.09	3,822.87	9.43	10.46	71.67	-519.09	421.56	382.29	362.89	19.41	19.701		
4,000.00	3,971.02	3,975.69	3,920.89	9.66	10.72	71.63	-531.88	433.83	391.18	371.31	19.87	19.690		
4,100.00	4,070.20	4,075.30	4,018.90	9.89	10.99	71.59	-544.67	446.09	400.07	379.73	20.34	19.670		
4,200.00	4,169.39	4,174.90	4,116.92	10.13	11.26	71.56	-557.46	458.36	408.95	388.14	20.82	19.643		
4,300.00	4,268.57	4,274.51	4,214.93	10.37	11.53	71.52	-570.26	470.63	417.84	396.54	21.31	19.610		
4,400.00	4,367.76	4,374.11	4,312.94	10.62	11.81	71.49	-583.05	482.90	426.73	404.93	21.80	19.570		
4,500.00	4,466.94	4,473.71	4,410.96	10.87	12.10	71.46	-595.84	495.16	435.62	413.31	22.31	19.527		
4,600.00	4,566.13	4,573.32	4,508.97	11.12	12.38	71.43	-608.63	507.43	444.51	421.69	22.82	19.479		
4,700.00	4,665.31	4,672.92	4,606.99	11.38	12.67	71.40	-621.43	519.70	453.40	430.06	23.34	19.428		
4,800.00	4,764.50	4,772.53	4,705.00	11.63	12.97	71.37	-634.22	531.97	462.29	438.43	23.86	19.375		
4,900.00	4,863.68	4,872.13	4,803.02	11.90	13.26	71.35	-647.01	544.23	471.18	446.79	24.39	19.320		
5,000.00	4,962.87	4,971.73	4,901.03	12.16	13.56	71.32	-659.80	556.50	480.07	455.14	24.92	19.263		
5,100.00	5,062.05	5,071.34	4,999.04	12.43	13.86	71.30	-672.60	568.77	488.96	463.50	25.46	19.205		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
5,200.00	5,161.24	5,170.94	5,097.06	12.70	14.17	71.27	-685.39	581.04	497.85	471.84	26.00	19.145		
5,300.00	5,260.42	5,270.55	5,195.07	12.97	14.47	71.25	-698.18	593.30	506.73	480.18	26.55	19.086		
5,400.00	5,359.61	5,370.15	5,293.09	13.24	14.78	71.23	-710.97	605.57	515.62	488.52	27.10	19.026		
5,500.00	5,458.79	5,469.75	5,391.10	13.52	15.09	71.21	-723.77	617.84	524.51	496.86	27.66	18.965		
5,600.00	5,557.98	5,569.36	5,489.12	13.79	15.40	71.19	-736.56	630.11	533.40	505.19	28.22	18.905		
5,700.00	5,657.16	5,668.96	5,587.13	14.07	15.72	71.17	-749.35	642.37	542.29	513.52	28.78	18.845		
5,800.00	5,756.35	5,768.56	5,685.14	14.35	16.03	71.15	-762.14	654.64	551.18	521.84	29.34	18.785		
5,900.00	5,855.53	5,868.17	5,783.16	14.63	16.35	71.13	-774.94	666.91	560.07	530.16	29.91	18.726		
6,000.00	5,954.72	5,967.77	5,881.17	14.91	16.67	71.11	-787.73	679.18	568.96	538.48	30.48	18.667		
6,100.00	6,053.90	6,067.38	5,979.19	15.20	16.99	71.09	-800.52	691.44	577.85	546.80	31.05	18.609		
6,200.00	6,153.09	6,166.98	6,077.20	15.48	17.31	71.08	-813.31	703.71	586.74	555.12	31.63	18.551		
6,300.00	6,252.27	6,266.58	6,175.22	15.77	17.63	71.06	-826.10	715.98	595.63	563.43	32.21	18.494		
6,400.00	6,351.46	6,366.19	6,273.23	16.06	17.95	71.04	-838.90	728.25	604.52	571.74	32.79	18.438		
6,500.00	6,450.64	6,465.79	6,371.24	16.34	18.28	71.03	-851.69	740.51	613.41	580.05	33.37	18.383		
6,600.00	6,549.83	6,565.40	6,469.26	16.63	18.60	71.01	-864.48	752.78	622.31	588.35	33.95	18.329		
6,700.00	6,649.01	6,665.06	6,567.45	16.92	18.90	71.11	-877.30	763.86	631.19	596.67	34.52	18.283		
6,800.00	6,748.73	6,764.08	6,665.53	17.13	19.08	-38.79	-890.07	762.29	640.16	605.21	34.94	18.320		
6,900.00	6,847.93	6,862.20	6,761.33	17.25	19.21	-76.12	-902.51	745.65	649.13	613.91	35.22	18.432		
7,000.00	6,944.17	6,959.51	6,852.72	17.33	19.30	-80.11	-914.35	714.68	657.88	622.50	35.38	18.594		
7,100.00	7,035.09	7,056.12	6,937.78	17.37	19.35	-80.94	-925.33	670.42	666.19	630.73	35.46	18.786		
7,200.00	7,118.44	7,152.13	7,014.78	17.39	19.36	-80.92	-935.24	614.08	673.83	638.32	35.51	18.978		
7,300.00	7,192.18	7,247.65	7,082.20	17.41	19.35	-80.63	-943.89	547.09	680.60	645.03	35.57	19.134		
7,400.00	7,254.49	7,342.79	7,138.72	17.45	19.32	-80.27	-951.09	471.01	686.34	650.61	35.72	19.213		
7,500.00	7,303.82	7,437.65	7,183.28	17.54	19.28	-79.95	-956.72	387.56	690.89	654.86	36.03	19.177		
7,600.00	7,338.98	7,532.32	7,215.00	17.72	19.23	-79.71	-960.66	298.55	694.13	657.60	36.53	19.004		
7,700.00	7,359.09	7,626.89	7,233.29	18.02	19.20	-79.59	-962.85	205.87	695.99	658.75	37.24	18.689		
7,800.00	7,364.03	7,722.39	7,237.98	18.43	19.24	-79.57	-963.26	110.57	696.46	658.29	38.17	18.247		
7,900.00	7,364.15	7,822.39	7,237.89	19.00	19.56	-79.56	-963.04	10.57	696.51	657.14	39.36	17.694		
8,000.00	7,364.28	7,922.39	7,237.80	19.70	20.21	-79.54	-962.81	-89.43	696.56	655.77	40.79	17.076		
8,100.00	7,364.41	8,022.39	7,237.71	20.52	21.03	-79.52	-962.59	-189.43	696.61	654.18	42.43	16.417		
8,200.00	7,364.54	8,122.39	7,237.62	21.44	21.96	-79.50	-962.37	-289.43	696.67	652.40	44.26	15.740		
8,300.00	7,364.67	8,222.39	7,237.53	22.46	22.97	-79.49	-962.15	-389.43	696.72	650.46	46.25	15.063		
8,400.00	7,364.79	8,322.39	7,237.44	23.54	24.05	-79.47	-961.92	-489.43	696.77	648.38	48.39	14.398		
8,500.00	7,364.92	8,422.39	7,237.35	24.70	25.20	-79.45	-961.70	-589.43	696.82	646.17	50.66	13.756		
8,600.00	7,365.05	8,522.39	7,237.26	25.91	26.40	-79.43	-961.48	-689.43	696.88	643.84	53.03	13.141		
8,700.00	7,365.18	8,622.39	7,237.17	27.17	27.65	-79.42	-961.26	-789.43	696.93	641.43	55.50	12.557		
8,800.00	7,365.31	8,722.39	7,237.08	28.47	28.94	-79.40	-961.04	-889.43	696.98	638.93	58.05	12.006		
8,900.00	7,365.43	8,822.39	7,236.99	29.81	30.26	-79.38	-960.81	-989.43	697.03	636.36	60.68	11.487		
9,000.00	7,365.56	8,922.39	7,236.90	31.19	31.62	-79.36	-960.59	-1,089.43	697.09	633.72	63.37	11.001		
9,100.00	7,365.69	9,022.39	7,236.81	32.59	33.01	-79.35	-960.37	-1,189.42	697.14	631.03	66.11	10.545		
9,200.00	7,365.82	9,122.39	7,236.72	34.01	34.42	-79.33	-960.15	-1,289.42	697.19	628.29	68.90	10.118		
9,300.00	7,365.95	9,222.39	7,236.63	35.46	35.85	-79.31	-959.92	-1,389.42	697.25	625.51	71.74	9.719		
9,400.00	7,366.08	9,322.38	7,236.54	36.92	37.30	-79.29	-959.70	-1,489.42	697.30	622.69	74.61	9.346		
9,500.00	7,366.20	9,422.38	7,236.46	38.40	38.77	-79.28	-959.48	-1,589.42	697.35	619.83	77.52	8.996		
9,600.00	7,366.33	9,522.38	7,236.37	39.90	40.25	-79.26	-959.26	-1,689.42	697.41	616.95	80.46	8.668		
9,700.00	7,366.46	9,622.38	7,236.28	41.41	41.75	-79.24	-959.04	-1,789.42	697.46	614.04	83.42	8.361		
9,800.00	7,366.59	9,722.38	7,236.19	42.93	43.26	-79.22	-958.81	-1,889.42	697.51	611.10	86.41	8.072		
9,900.00	7,366.72	9,822.38	7,236.10	44.47	44.78	-79.21	-958.59	-1,989.42	697.57	608.15	89.42	7.801		
10,000.00	7,366.84	9,922.38	7,236.01	46.01	46.31	-79.19	-958.37	-2,089.42	697.62	605.17	92.45	7.546		
10,100.00	7,366.97	10,022.38	7,235.92	47.56	47.85	-79.17	-958.15	-2,189.42	697.67	602.18	95.49	7.306		
10,200.00	7,367.10	10,122.38	7,235.83	49.12	49.40	-79.16	-957.92	-2,289.42	697.73	599.17	98.55	7.080		
10,300.00	7,367.23	10,222.38	7,235.74	50.68	50.96	-79.14	-957.70	-2,389.42	697.78	596.15	101.63	6.866		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
10,400.00	7,367.36	10,322.38	7,235.65	52.26	52.52	-79.12	-957.48	-2,489.42	697.83	593.12	104.72	6.664	
10,500.00	7,367.49	10,422.38	7,235.56	53.84	54.09	-79.10	-957.26	-2,589.42	697.89	590.07	107.82	6.473	
10,600.00	7,367.61	10,522.38	7,235.47	55.42	55.67	-79.09	-957.04	-2,689.42	697.94	587.01	110.93	6.292	
10,700.00	7,367.74	10,622.38	7,235.38	57.01	57.25	-79.07	-956.81	-2,789.42	698.00	583.94	114.05	6.120	
10,800.00	7,367.87	10,722.38	7,235.29	58.60	58.84	-79.05	-956.59	-2,889.42	698.05	580.87	117.18	5.957	
10,900.00	7,368.00	10,822.38	7,235.20	60.20	60.43	-79.03	-956.37	-2,989.42	698.10	577.78	120.32	5.802	
11,000.00	7,368.13	10,922.38	7,235.11	61.80	62.02	-79.02	-956.15	-3,089.41	698.16	574.69	123.47	5.654	
11,100.00	7,368.25	11,022.38	7,235.02	63.41	63.62	-79.00	-955.92	-3,189.41	698.21	571.59	126.63	5.514	
11,200.00	7,368.38	11,122.38	7,234.93	65.02	65.22	-78.98	-955.70	-3,289.41	698.27	568.48	129.79	5.380	
11,300.00	7,368.51	11,222.38	7,234.84	66.63	66.83	-78.96	-955.48	-3,389.41	698.32	565.37	132.95	5.252	
11,400.00	7,368.64	11,322.38	7,234.75	68.24	68.44	-78.95	-955.26	-3,489.41	698.38	562.25	136.13	5.130	
11,500.00	7,368.77	11,422.38	7,234.66	69.86	70.05	-78.93	-955.04	-3,589.41	698.43	559.13	139.30	5.014	
11,600.00	7,368.90	11,522.38	7,234.57	71.48	71.66	-78.91	-954.81	-3,689.41	698.48	556.00	142.49	4.902	
11,700.00	7,369.02	11,622.38	7,234.48	73.10	73.28	-78.90	-954.59	-3,789.41	698.54	552.87	145.67	4.795	
11,800.00	7,369.15	11,722.38	7,234.39	74.73	74.90	-78.88	-954.37	-3,889.41	698.59	549.73	148.86	4.693	
11,900.00	7,369.28	11,822.38	7,234.30	76.36	76.52	-78.86	-954.15	-3,989.41	698.65	546.59	152.06	4.595	
12,000.00	7,369.41	11,922.38	7,234.21	77.98	78.14	-78.84	-953.92	-4,089.41	698.70	543.45	155.26	4.500	
12,100.00	7,369.54	12,022.38	7,234.12	79.61	79.77	-78.83	-953.70	-4,189.41	698.76	540.30	158.46	4.410	
12,200.00	7,369.66	12,122.38	7,234.03	81.25	81.40	-78.81	-953.48	-4,289.41	698.81	537.15	161.67	4.323	
12,300.00	7,369.79	12,222.38	7,233.94	82.88	83.03	-78.79	-953.26	-4,389.41	698.87	533.99	164.87	4.239	
12,400.00	7,369.92	12,322.38	7,233.85	84.52	84.66	-78.77	-953.04	-4,489.41	698.92	530.84	168.08	4.158	
12,500.00	7,370.05	12,422.38	7,233.76	86.15	86.29	-78.76	-952.81	-4,589.41	698.98	527.68	171.30	4.080	
12,600.00	7,370.18	12,522.38	7,233.67	87.79	87.92	-78.74	-952.59	-4,689.41	699.03	524.52	174.51	4.006	
12,700.00	7,370.30	12,622.38	7,233.58	89.43	89.56	-78.72	-952.37	-4,789.41	699.09	521.36	177.73	3.933	
12,800.00	7,370.43	12,722.38	7,233.49	91.07	91.20	-78.70	-952.15	-4,889.41	699.14	518.19	180.95	3.864	
12,900.00	7,370.56	12,822.38	7,233.40	92.71	92.83	-78.69	-951.92	-4,989.41	699.20	515.02	184.18	3.796	
13,000.00	7,370.69	12,922.38	7,233.32	94.35	94.47	-78.67	-951.70	-5,089.40	699.26	511.85	187.40	3.731	
13,100.00	7,370.82	13,022.38	7,233.23	96.00	96.11	-78.65	-951.48	-5,189.40	699.31	508.68	190.63	3.668	
13,200.00	7,370.95	13,122.38	7,233.14	97.64	97.75	-78.64	-951.26	-5,289.40	699.37	505.51	193.86	3.608	
13,300.00	7,371.07	13,222.38	7,233.05	99.29	99.40	-78.62	-951.04	-5,389.40	699.42	502.34	197.08	3.549	
13,400.00	7,371.20	13,322.38	7,232.96	100.93	101.04	-78.60	-950.81	-5,489.40	699.48	499.16	200.32	3.492	
13,500.00	7,371.33	13,422.38	7,232.87	102.58	102.68	-78.58	-950.59	-5,589.40	699.53	495.99	203.55	3.437	
13,600.00	7,371.46	13,522.37	7,232.78	104.23	104.33	-78.57	-950.37	-5,689.40	699.59	492.81	206.78	3.383	
13,700.00	7,371.59	13,622.37	7,232.69	105.88	105.98	-78.55	-950.15	-5,789.40	699.65	489.63	210.02	3.331	
13,800.00	7,371.71	13,722.37	7,232.60	107.53	107.62	-78.53	-949.92	-5,889.40	699.70	486.45	213.25	3.281	
13,900.00	7,371.84	13,822.37	7,232.51	109.18	109.27	-78.51	-949.70	-5,989.40	699.76	483.27	216.49	3.232	
14,000.00	7,371.97	13,922.37	7,232.42	110.83	110.92	-78.50	-949.48	-6,089.40	699.81	480.08	219.73	3.185	
14,100.00	7,372.10	14,022.37	7,232.33	112.48	112.57	-78.48	-949.26	-6,189.40	699.87	476.90	222.97	3.139	
14,200.00	7,372.23	14,122.37	7,232.24	114.13	114.22	-78.46	-949.04	-6,289.40	699.93	473.72	226.21	3.094	
14,300.00	7,372.36	14,222.37	7,232.15	115.78	115.87	-78.45	-948.81	-6,389.40	699.98	470.53	229.45	3.051	
14,400.00	7,372.48	14,322.37	7,232.06	117.44	117.52	-78.43	-948.59	-6,489.40	700.04	467.35	232.69	3.008	
14,500.00	7,372.61	14,422.37	7,231.97	119.09	119.17	-78.41	-948.37	-6,589.40	700.09	464.16	235.94	2.967	
14,600.00	7,372.74	14,522.37	7,231.88	120.74	120.82	-78.39	-948.15	-6,689.40	700.15	460.97	239.18	2.927	
14,700.00	7,372.87	14,622.37	7,231.79	122.40	122.47	-78.38	-947.92	-6,789.40	700.21	457.78	242.42	2.888	
14,800.00	7,373.00	14,722.37	7,231.70	124.05	124.13	-78.36	-947.70	-6,889.40	700.26	454.60	245.67	2.850	
14,900.00	7,373.12	14,822.37	7,231.61	125.71	125.78	-78.34	-947.48	-6,989.39	700.32	451.41	248.91	2.814	
15,000.00	7,373.25	14,922.37	7,231.52	127.36	127.43	-78.32	-947.26	-7,089.39	700.38	448.22	252.16	2.778	
15,100.00	7,373.38	15,022.37	7,231.43	129.02	129.09	-78.31	-947.04	-7,189.39	700.43	445.03	255.41	2.742	
15,200.00	7,373.51	15,122.37	7,231.34	130.68	130.74	-78.29	-946.81	-7,289.39	700.49	441.84	258.65	2.708	
15,300.00	7,373.64	15,222.37	7,231.25	132.33	132.40	-78.27	-946.59	-7,389.39	700.55	438.65	261.90	2.675	
15,400.00	7,373.77	15,322.37	7,231.16	133.99	134.05	-78.26	-946.37	-7,489.39	700.61	435.46	265.15	2.642	
15,500.00	7,373.89	15,422.37	7,231.07	135.65	135.71	-78.24	-946.15	-7,589.39	700.66	432.26	268.40	2.611	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,583.33	7,374.00	15,505.70	7,231.00	137.03	137.09	-78.22	-945.96	-7,672.72	700.71	429.60	271.11	2.585 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	-118.39	-80.87	-149.61	170.07					
100.00	100.00	101.00	101.00	3.28	3.28	-118.39	-80.87	-149.61	170.07	162.54	7.53	22.589		
200.00	200.00	201.00	201.00	3.31	3.31	-118.39	-80.87	-149.61	170.07	162.50	7.57	22.454	CC, ES	
300.00	299.98	297.82	297.80	3.35	3.34	133.32	-82.54	-149.74	172.20	164.55	7.65	22.500		
400.00	399.84	394.41	394.26	3.41	3.40	133.08	-87.45	-150.11	178.55	170.78	7.77	22.977		
500.00	499.45	490.49	489.99	3.50	3.48	132.71	-95.55	-150.72	189.10	181.16	7.94	23.825		
600.00	598.73	586.78	585.62	3.62	3.58	132.31	-106.76	-151.56	203.61	195.45	8.16	24.958		
700.00	697.91	685.57	683.62	3.76	3.72	132.02	-119.16	-152.49	219.14	210.71	8.43	26.007		
800.00	797.10	784.35	781.62	3.93	3.88	131.77	-131.55	-153.42	234.67	225.93	8.74	26.854		
900.00	896.28	883.13	879.61	4.12	4.07	131.56	-143.95	-154.36	250.21	241.12	9.09	27.522		
1,000.00	995.47	981.91	977.61	4.33	4.27	131.36	-156.35	-155.29	265.75	256.27	9.48	28.037		
1,100.00	1,094.65	1,080.69	1,075.61	4.56	4.49	131.19	-168.74	-156.22	281.29	271.39	9.90	28.424		
1,200.00	1,193.84	1,179.47	1,173.60	4.80	4.72	131.04	-181.14	-157.15	296.84	286.50	10.34	28.708		
1,300.00	1,293.02	1,278.25	1,271.60	5.05	4.97	130.90	-193.54	-158.09	312.38	301.57	10.81	28.907		
1,400.00	1,392.21	1,377.04	1,369.59	5.31	5.22	130.78	-205.94	-159.02	327.93	316.64	11.29	29.040		
1,500.00	1,491.39	1,475.82	1,467.59	5.58	5.49	130.67	-218.33	-159.95	343.48	331.68	11.80	29.120		
1,600.00	1,590.58	1,574.60	1,565.59	5.86	5.76	130.56	-230.73	-160.88	359.03	346.72	12.31	29.159		
1,700.00	1,689.76	1,673.38	1,663.58	6.15	6.04	130.47	-243.13	-161.81	374.58	361.74	12.84	29.166		
1,800.00	1,788.95	1,772.16	1,761.58	6.43	6.33	130.38	-255.52	-162.75	390.13	376.75	13.38	29.147		
1,900.00	1,888.13	1,870.94	1,859.57	6.59	6.52	130.30	-267.92	-163.68	405.68	392.35	13.33	30.429		
2,000.00	1,987.32	1,969.73	1,957.57	6.62	6.58	130.22	-280.32	-164.61	421.24	407.82	13.42	31.397		
2,100.00	2,086.50	2,068.51	2,055.57	6.66	6.62	130.16	-292.71	-165.54	436.79	423.30	13.49	32.377		
2,200.00	2,185.69	2,167.29	2,153.56	6.72	6.68	130.09	-305.11	-166.48	452.35	438.75	13.59	33.276		
2,300.00	2,284.87	2,266.07	2,251.56	6.79	6.75	130.03	-317.51	-167.41	467.90	454.18	13.72	34.091		
2,400.00	2,384.06	2,364.85	2,349.56	6.88	6.83	129.97	-329.90	-168.34	483.46	469.58	13.88	34.822		
2,500.00	2,483.24	2,463.63	2,447.55	6.98	6.93	129.92	-342.30	-169.27	499.02	484.95	14.07	35.470		
2,600.00	2,582.43	2,562.42	2,545.55	7.09	7.03	129.87	-354.70	-170.20	514.57	500.29	14.28	36.037		
2,700.00	2,681.61	2,661.20	2,643.54	7.22	7.16	129.83	-367.10	-171.14	530.13	515.62	14.51	36.526		
2,800.00	2,780.80	2,759.98	2,741.54	7.35	7.29	129.78	-379.49	-172.07	545.69	530.91	14.77	36.942		
2,900.00	2,879.98	2,858.76	2,839.54	7.50	7.43	129.74	-391.89	-173.00	561.24	546.19	15.05	37.289		
3,000.00	2,979.17	2,957.54	2,937.53	7.66	7.59	129.70	-404.29	-173.93	576.80	561.45	15.35	37.574		
3,100.00	3,078.35	3,056.32	3,035.53	7.82	7.75	129.66	-416.68	-174.87	592.36	576.69	15.67	37.801		
3,200.00	3,177.54	3,155.10	3,133.52	8.00	7.93	129.63	-429.08	-175.80	607.92	591.91	16.01	37.975		
3,300.00	3,276.72	3,253.89	3,231.52	8.18	8.11	129.59	-441.48	-176.73	623.48	607.11	16.36	38.103		
3,400.00	3,375.91	3,352.67	3,329.52	8.37	8.30	129.56	-453.87	-177.66	639.04	622.30	16.73	38.190		
3,500.00	3,475.09	3,451.45	3,427.51	8.57	8.50	129.53	-466.27	-178.59	654.60	637.48	17.12	38.239		
3,600.00	3,574.28	3,550.23	3,525.51	8.78	8.70	129.50	-478.67	-179.53	670.15	652.64	17.52	38.256		
3,700.00	3,673.46	3,649.01	3,623.51	8.99	8.91	129.47	-491.06	-180.46	685.71	667.78	17.93	38.245		
3,800.00	3,772.65	3,747.79	3,721.50	9.21	9.13	129.45	-503.46	-181.39	701.27	682.92	18.35	38.210		
3,900.00	3,871.83	3,846.58	3,819.50	9.43	9.35	129.42	-515.86	-182.32	716.83	698.05	18.79	38.153		
4,000.00	3,971.02	3,945.36	3,917.49	9.66	9.58	129.40	-528.26	-183.26	732.39	713.16	19.23	38.079		
4,100.00	4,070.20	4,044.14	4,015.49	9.89	9.82	129.38	-540.65	-184.19	747.95	728.26	19.69	37.989		
4,200.00	4,169.39	4,142.92	4,113.49	10.13	10.05	129.35	-553.05	-185.12	763.51	743.36	20.15	37.887		
4,300.00	4,268.57	4,241.70	4,211.48	10.37	10.30	129.33	-565.45	-186.05	779.07	758.45	20.62	37.773		
4,400.00	4,367.76	4,340.48	4,309.48	10.62	10.54	129.31	-577.84	-186.98	794.63	773.53	21.10	37.652		
4,500.00	4,466.94	4,439.27	4,407.47	10.87	10.79	129.29	-590.24	-187.92	810.19	788.60	21.59	37.522		
4,600.00	4,566.13	4,538.05	4,505.47	11.12	11.05	129.27	-602.64	-188.85	825.75	803.67	22.09	37.388		
4,700.00	4,665.31	4,636.83	4,603.47	11.38	11.30	129.25	-615.03	-189.78	841.32	818.73	22.59	37.248		
4,800.00	4,764.50	4,735.61	4,701.46	11.63	11.56	129.24	-627.43	-190.71	856.88	833.78	23.09	37.105		
4,900.00	4,863.68	4,834.39	4,799.46	11.90	11.82	129.22	-639.83	-191.65	872.44	848.83	23.60	36.960		
5,000.00	4,962.87	4,933.17	4,897.46	12.16	12.09	129.20	-652.22	-192.58	888.00	863.88	24.12	36.813		
5,100.00	5,062.05	5,031.95	4,995.45	12.43	12.35	129.19	-664.62	-193.51	903.56	878.91	24.64	36.665		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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		
5,200.00	5,161.24	5,130.74	5,093.45	12.70	12.62	129.17	-677.02	-194.44	919.12	893.95	25.17	36.517			
5,300.00	5,260.42	5,229.52	5,191.44	12.97	12.90	129.16	-689.42	-195.37	934.68	908.98	25.70	36.368			
5,400.00	5,359.61	5,328.30	5,289.44	13.24	13.17	129.14	-701.81	-196.31	950.24	924.01	26.23	36.221			
5,500.00	5,458.79	5,427.08	5,387.44	13.52	13.44	129.13	-714.21	-197.24	965.80	939.03	26.77	36.074			
5,600.00	5,557.98	5,525.86	5,485.43	13.79	13.72	129.11	-726.61	-198.17	981.36	954.05	27.31	35.928			
5,700.00	5,657.16	5,624.64	5,583.43	14.07	14.00	129.10	-739.00	-199.10	996.92	969.07	27.86	35.784			
5,800.00	5,756.35	5,723.43	5,681.42	14.35	14.28	129.09	-751.40	-200.04	1,012.49	984.08	28.41	35.641			
5,900.00	5,855.53	5,822.21	5,779.42	14.63	14.56	129.08	-763.80	-200.97	1,028.05	999.09	28.96	35.500			
6,000.00	5,954.72	5,920.99	5,877.42	14.91	14.85	129.06	-776.19	-201.90	1,043.61	1,014.10	29.51	35.361			
6,100.00	6,053.90	6,019.77	5,975.41	15.20	15.13	129.05	-788.59	-202.83	1,059.17	1,029.10	30.07	35.224			
6,200.00	6,153.09	6,118.55	6,073.41	15.48	15.42	129.04	-800.99	-203.76	1,074.73	1,044.10	30.63	35.089			
6,300.00	6,252.27	6,217.33	6,171.41	15.77	15.70	129.03	-813.38	-204.70	1,090.29	1,059.10	31.19	34.957			
6,400.00	6,351.46	6,316.12	6,269.40	16.06	15.99	129.02	-825.78	-205.63	1,105.85	1,074.10	31.75	34.826			
6,500.00	6,450.64	6,414.90	6,367.40	16.34	16.28	129.01	-838.18	-206.56	1,121.42	1,089.10	32.32	34.698			
6,600.00	6,549.83	6,516.17	7,357.47	16.63	23.06	79.00	-938.45	768.82	1,062.29	1,029.68	32.61	32.572			
6,700.00	6,649.01	6,618.30	7,357.48	16.92	23.19	77.97	-938.15	780.95	986.11	952.52	33.59	29.355			
6,800.00	6,748.73	6,718.89	7,357.49	17.13	23.24	-42.82	-938.03	785.54	914.15	879.54	34.60	26.418			
6,900.00	6,847.93	6,818.83	7,357.48	17.25	23.12	-88.31	-938.31	774.48	848.50	812.95	35.54	23.874			
7,000.00	6,944.17	6,914.63	7,357.44	17.33	22.94	-97.48	-938.98	748.03	791.89	755.46	36.42	21.741			
7,100.00	7,035.09	7,005.18	7,357.38	17.37	22.43	-100.85	-940.01	706.85	746.32	709.38	36.95	20.200			
7,200.00	7,118.44	7,088.74	7,357.31	17.39	21.90	-101.24	-941.40	651.95	712.69	675.41	37.28	19.119			
7,300.00	7,192.18	7,162.98	7,357.22	17.41	21.28	-99.75	-943.09	584.69	690.51	653.19	37.32	18.501			
7,400.00	7,254.49	7,225.98	7,357.11	17.45	20.63	-97.17	-945.05	506.71	678.07	640.91	37.16	18.247 SF			
7,500.00	7,303.82	7,275.10	7,356.91	17.54	20.00	-94.16	-947.28	417.86	672.86	635.99	36.87	18.249			
7,600.00	7,338.98	7,309.86	7,345.87	17.72	19.41	-90.34	-948.64	309.54	670.88	634.29	36.59	18.333			
7,662.55	7,353.36	7,324.53	7,331.02	17.91	19.17	-87.97	-948.33	247.78	670.53	634.02	36.51	18.367			
7,700.00	7,359.09	7,329.95	7,319.73	18.02	19.07	-86.57	-947.78	213.00	670.65	634.19	36.46	18.394			
7,800.00	7,364.03	7,334.05	7,282.32	18.43	18.84	-82.93	-945.21	128.09	672.21	635.71	36.50	18.419			
7,900.00	7,364.15	7,334.12	7,239.48	19.00	18.68	-79.28	-941.57	58.42	676.89	640.16	36.74	18.426			
8,000.00	7,364.28	7,311.80	7,196.56	19.70	18.54	-75.66	-937.53	4.18	687.14	649.99	37.15	18.494			
8,100.00	7,364.41	7,253.70	7,156.26	20.52	18.42	-72.32	-933.49	-37.46	704.71	667.01	37.70	18.694			
8,200.00	7,364.54	7,205.04	7,119.75	21.44	18.33	-69.36	-929.69	-69.36	730.59	692.28	38.31	19.071			
8,300.00	7,364.67	7,164.16	7,087.27	22.46	18.24	-66.79	-926.22	-93.94	765.05	726.13	38.92	19.658			
8,400.00	7,364.79	7,129.59	7,058.64	23.54	18.17	-64.58	-923.09	-113.06	807.78	768.28	39.50	20.449			
8,500.00	7,364.92	7,100.00	7,033.35	24.70	18.10	-62.68	-920.28	-128.16	858.09	818.08	40.01	21.446			
8,600.00	7,365.05	7,074.86	7,011.34	25.91	18.05	-61.05	-917.80	-140.04	915.13	874.68	40.44	22.627			
8,700.00	7,365.18	7,050.00	6,989.14	27.17	17.99	-59.46	-915.27	-150.93	977.99	937.20	40.79	23.976			
8,800.00	7,365.31	7,033.90	6,974.54	28.47	17.96	-58.43	-913.59	-157.51	1,045.81	1,004.73	41.08	25.458			
8,900.00	7,365.43	7,017.14	6,959.18	29.81	17.92	-57.36	-911.82	-163.97	1,117.83	1,076.53	41.30	27.065			
9,000.00	7,365.56	7,000.00	6,943.29	31.19	17.88	-56.28	-909.97	-170.15	1,193.41	1,151.93	41.47	28.775			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	-149.34	180.23					
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.34	180.23	172.71	7.53	23.939		
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.34	180.23	172.66	7.57	23.796 CC, ES		
300.00	299.98	297.22	297.20	3.35	3.34	127.72	-102.56	-149.44	182.35	174.70	7.65	23.827		
400.00	399.84	393.22	393.07	3.41	3.40	127.66	-107.41	-149.75	188.65	180.88	7.77	24.282		
500.00	499.45	488.72	488.23	3.50	3.48	127.57	-115.42	-150.26	199.11	191.18	7.93	25.097		
600.00	598.73	583.51	582.37	3.62	3.58	127.48	-126.49	-150.97	213.57	205.42	8.15	26.201		
700.00	697.91	678.94	676.74	3.76	3.72	127.08	-140.64	-151.87	230.39	221.98	8.41	27.385		
800.00	797.10	777.40	773.98	3.93	3.89	126.56	-156.02	-152.85	247.73	239.00	8.73	28.371		
900.00	896.28	875.87	871.23	4.12	4.08	126.12	-171.41	-153.83	265.09	256.00	9.09	29.153		
1,000.00	995.47	974.33	968.48	4.33	4.30	125.73	-186.80	-154.81	282.46	272.97	9.49	29.760		
1,100.00	1,094.65	1,072.79	1,065.73	4.56	4.54	125.39	-202.19	-155.80	299.85	289.93	9.92	30.222		
1,200.00	1,193.84	1,171.25	1,162.97	4.80	4.80	125.08	-217.58	-156.78	317.24	306.86	10.38	30.564		
1,300.00	1,293.02	1,269.72	1,260.22	5.05	5.07	124.80	-232.97	-157.76	334.64	323.78	10.86	30.810		
1,400.00	1,392.21	1,368.18	1,357.47	5.31	5.35	124.56	-248.36	-158.74	352.05	340.68	11.36	30.981		
1,500.00	1,491.39	1,466.64	1,454.72	5.58	5.64	124.33	-263.74	-159.72	369.46	357.58	11.88	31.092		
1,600.00	1,590.58	1,565.10	1,551.96	5.86	5.94	124.13	-279.13	-160.71	386.88	374.46	12.42	31.155		
1,700.00	1,689.76	1,663.57	1,649.21	6.15	6.24	123.94	-294.52	-161.69	404.30	391.34	12.97	31.181		
1,800.00	1,788.95	1,762.03	1,746.46	6.43	6.55	123.77	-309.91	-162.67	421.73	408.20	13.53	31.180		
1,900.00	1,888.13	1,860.49	1,843.71	6.59	6.78	123.61	-325.30	-163.65	439.16	425.66	13.50	32.531		
2,000.00	1,987.32	1,958.95	1,940.95	6.62	6.87	123.47	-340.69	-164.63	456.59	442.99	13.60	33.564		
2,100.00	2,086.50	2,057.42	2,038.20	6.66	6.92	123.33	-356.08	-165.61	474.02	460.34	13.68	34.649		
2,200.00	2,185.69	2,155.88	2,135.45	6.72	6.98	123.20	-371.46	-166.60	491.46	477.67	13.79	35.645		
2,300.00	2,284.87	2,254.34	2,232.70	6.79	7.05	123.09	-386.85	-167.58	508.90	494.98	13.92	36.550		
2,400.00	2,384.06	2,352.80	2,329.94	6.88	7.15	122.98	-402.24	-168.56	526.34	512.26	14.09	37.363		
2,500.00	2,483.24	2,451.26	2,427.19	6.98	7.25	122.88	-417.63	-169.54	543.79	529.51	14.28	38.085		
2,600.00	2,582.43	2,549.73	2,524.44	7.09	7.37	122.78	-433.02	-170.52	561.23	546.74	14.50	38.718		
2,700.00	2,681.61	2,648.19	2,621.69	7.22	7.51	122.69	-448.41	-171.50	578.68	563.94	14.74	39.267		
2,800.00	2,780.80	2,746.65	2,718.93	7.35	7.65	122.61	-463.80	-172.49	596.13	581.12	15.00	39.735		
2,900.00	2,879.98	2,845.11	2,816.18	7.50	7.81	122.53	-479.18	-173.47	613.57	598.28	15.29	40.129		
3,000.00	2,979.17	2,943.58	2,913.43	7.66	7.97	122.45	-494.57	-174.45	631.02	615.43	15.60	40.454		
3,100.00	3,078.35	3,042.04	3,010.68	7.82	8.15	122.38	-509.96	-175.43	648.48	632.55	15.93	40.716		
3,200.00	3,177.54	3,140.50	3,107.92	8.00	8.34	122.31	-525.35	-176.41	665.93	649.65	16.27	40.921		
3,300.00	3,276.72	3,238.96	3,205.17	8.18	8.54	122.25	-540.74	-177.39	683.38	666.74	16.64	41.075		
3,400.00	3,375.91	3,337.43	3,302.42	8.37	8.74	122.19	-556.13	-178.38	700.83	683.82	17.02	41.183		
3,500.00	3,475.09	3,435.89	3,399.67	8.57	8.95	122.13	-571.52	-179.36	718.29	700.88	17.41	41.251		
3,600.00	3,574.28	3,534.35	3,496.91	8.78	9.17	122.07	-586.90	-180.34	735.74	717.92	17.82	41.283		
3,700.00	3,673.46	3,632.81	3,594.16	8.99	9.40	122.02	-602.29	-181.32	753.20	734.95	18.24	41.285		
3,800.00	3,772.65	3,731.28	3,691.41	9.21	9.63	121.97	-617.68	-182.30	770.65	751.98	18.68	41.259		
3,900.00	3,871.83	3,829.74	3,788.66	9.43	9.87	121.92	-633.07	-183.29	788.11	768.99	19.12	41.210		
4,000.00	3,971.02	3,928.20	3,885.90	9.66	10.12	121.88	-648.46	-184.27	805.57	785.99	19.58	41.142		
4,100.00	4,070.20	4,026.66	3,983.15	9.89	10.37	121.83	-663.85	-185.25	823.03	802.98	20.05	41.057		
4,200.00	4,169.39	4,125.13	4,080.40	10.13	10.62	121.79	-679.24	-186.23	840.48	819.96	20.52	40.957		
4,300.00	4,268.57	4,223.59	4,177.65	10.37	10.88	121.75	-694.63	-187.21	857.94	836.94	21.00	40.846		
4,400.00	4,367.76	4,322.05	4,274.89	10.62	11.14	121.71	-710.01	-188.19	875.40	853.91	21.50	40.724		
4,500.00	4,466.94	4,420.51	4,372.14	10.87	11.41	121.67	-725.40	-189.18	892.86	870.87	21.99	40.595		
4,600.00	4,566.13	4,518.98	4,469.39	11.12	11.68	121.64	-740.79	-190.16	910.32	887.82	22.50	40.459		
4,700.00	4,665.31	4,617.44	4,566.64	11.38	11.95	121.60	-756.18	-191.14	927.78	904.77	23.01	40.318		
4,800.00	4,764.50	4,715.90	4,663.88	11.63	12.23	121.57	-771.57	-192.12	945.24	921.71	23.53	40.172		
4,900.00	4,863.68	4,814.36	4,761.13	11.90	12.51	121.54	-786.96	-193.10	962.70	938.65	24.05	40.024		
5,000.00	4,962.87	4,912.83	4,858.38	12.16	12.79	121.51	-802.35	-194.08	980.16	955.58	24.58	39.874		
5,100.00	5,062.05	5,011.29	4,955.63	12.43	13.07	121.48	-817.73	-195.07	997.62	972.51	25.12	39.722		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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							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	5,161.24	5,109.75	5,052.87	12.70	13.36	121.45	-833.12	-196.05	1,015.08	989.43	25.65	39.570			
5,300.00	5,260.42	5,208.21	5,150.12	12.97	13.65	121.42	-848.51	-197.03	1,032.55	1,006.35	26.20	39.417			
5,400.00	5,359.61	5,306.68	5,247.37	13.24	13.94	121.39	-863.90	-198.01	1,050.01	1,023.27	26.74	39.265			
5,500.00	5,458.79	5,405.14	5,344.62	13.52	14.23	121.37	-879.29	-198.99	1,067.47	1,040.18	27.29	39.113			
5,600.00	5,557.98	5,503.60	5,441.86	13.79	14.53	121.34	-894.68	-199.98	1,084.93	1,057.09	27.85	38.963			
5,700.00	5,657.16	5,602.06	5,539.11	14.07	14.82	121.32	-910.07	-200.96	1,102.40	1,073.99	28.40	38.813			
5,800.00	5,756.35	5,700.53	5,636.36	14.35	15.12	121.29	-925.45	-201.94	1,119.86	1,090.90	28.96	38.666			
5,900.00	5,855.53	5,801.01	5,733.61	14.63	15.43	121.27	-940.84	-202.92	1,137.32	1,107.79	29.53	38.512			
6,000.00	5,954.72	5,902.55	5,830.85	14.91	15.74	121.25	-956.23	-203.90	1,154.78	1,124.68	30.11	38.356			
6,100.00	6,053.90	6,004.09	5,928.10	15.20	16.05	121.23	-971.62	-204.88	1,172.25	1,141.56	30.68	38.203			
6,200.00	6,153.09	6,094.37	6,025.35	15.48	16.33	121.21	-987.01	-205.87	1,189.71	1,158.48	31.23	38.093			
6,500.00	6,450.64	7,920.81	7,159.78	16.34	23.27	77.38	-1,163.32	741.32	1,160.88	1,126.97	33.91	34.236			
6,600.00	6,549.83	7,933.16	7,159.81	16.63	23.39	76.60	-1,163.29	753.66	1,099.85	1,064.84	35.02	31.408			
6,700.00	6,649.01	7,945.50	7,159.84	16.92	23.52	75.82	-1,163.25	766.01	1,044.70	1,008.50	36.20	28.858			
6,800.00	6,748.73	7,950.30	7,159.85	17.13	23.57	-40.63	-1,163.24	770.81	996.20	958.90	37.30	26.710			
6,900.00	6,847.93	7,939.43	7,159.82	17.25	23.46	-82.54	-1,163.27	759.94	955.94	917.79	38.15	25.058			
7,000.00	6,944.17	7,913.16	7,159.76	17.33	23.19	-89.03	-1,163.35	733.67	925.50	886.81	38.69	23.920			
7,100.00	7,035.09	7,872.14	7,159.65	17.37	22.79	-90.46	-1,163.47	692.65	905.35	866.45	38.90	23.275			
7,200.00	7,118.44	7,817.38	7,159.51	17.39	22.29	-89.51	-1,163.63	637.89	894.75	855.98	38.77	23.078 SF			
7,295.02	7,188.77	7,753.83	7,159.35	17.41	21.74	-87.30	-1,163.81	574.34	891.91	853.48	38.43	23.211			
7,300.00	7,192.18	7,750.22	7,159.34	17.41	21.71	-87.17	-1,163.82	570.73	891.91	853.51	38.40	23.225			
7,400.00	7,254.49	7,672.31	7,159.15	17.45	21.12	-84.19	-1,164.05	492.82	894.41	856.52	37.90	23.602			
7,500.00	7,303.82	7,585.75	7,158.67	17.54	20.58	-81.22	-1,164.27	406.26	899.62	862.24	37.37	24.070			
7,600.00	7,338.98	7,499.79	7,150.33	17.72	20.16	-78.43	-1,163.23	320.79	905.60	868.63	36.98	24.492			
7,700.00	7,359.09	7,418.06	7,131.91	18.02	19.87	-75.81	-1,160.58	241.25	911.74	874.99	36.76	24.805			
7,800.00	7,364.03	7,339.80	7,105.00	18.43	19.65	-73.51	-1,156.57	167.93	917.66	880.93	36.72	24.988			
7,900.00	7,364.15	7,268.09	7,072.70	19.00	19.48	-71.49	-1,151.67	104.13	925.85	888.95	36.91	25.085			
8,000.00	7,364.28	7,204.72	7,038.43	19.70	19.34	-69.38	-1,146.43	51.12	938.43	901.15	37.28	25.170			
8,100.00	7,364.41	7,150.00	7,004.77	20.52	19.22	-67.34	-1,141.25	8.32	956.29	918.48	37.81	25.292			
8,200.00	7,364.54	7,100.00	6,970.94	21.44	19.11	-65.32	-1,136.02	-28.11	980.07	941.64	38.43	25.503			
8,300.00	7,364.67	7,059.57	6,941.59	22.46	19.02	-63.60	-1,131.46	-55.53	1,010.09	970.97	39.12	25.820			
8,400.00	7,364.79	7,023.35	6,913.88	23.54	18.94	-62.01	-1,127.16	-78.46	1,046.38	1,006.56	39.82	26.278			
8,500.00	7,364.92	7,000.00	6,895.36	24.70	18.89	-60.96	-1,124.27	-92.37	1,088.83	1,048.30	40.53	26.865			
8,600.00	7,365.05	6,964.17	6,865.99	25.91	18.80	-59.33	-1,119.69	-112.36	1,136.90	1,095.77	41.13	27.641			
8,700.00	7,365.18	6,950.00	6,854.07	27.17	18.77	-58.68	-1,117.83	-119.80	1,190.43	1,148.69	41.75	28.514			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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 (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	-129.00	-120.95	-149.34	192.17					
100.00	100.00	101.00	101.00	3.28	3.28	-129.00	-120.95	-149.34	192.17	184.64	7.53	25.524	CC, ES, SF	
200.00	200.00	201.00	201.00	3.31	3.31	-129.00	-120.95	-149.34	192.17	184.59	7.57	25.371		
300.00	299.98	296.61	296.59	3.35	3.34	122.82	-122.57	-149.42	194.26	186.60	7.65	25.384		
400.00	399.84	392.02	391.88	3.41	3.40	122.89	-127.37	-149.68	200.47	192.70	7.77	25.808		
500.00	499.45	486.95	486.47	3.50	3.48	123.01	-135.28	-150.11	210.78	202.85	7.93	26.580		
600.00	598.73	581.18	580.06	3.62	3.58	123.19	-146.23	-150.71	225.05	216.90	8.14	27.630		
700.00	697.91	674.73	672.56	3.76	3.71	123.07	-160.13	-151.46	241.86	233.46	8.40	28.786		
800.00	797.10	769.45	765.75	3.93	3.88	122.47	-177.07	-152.38	260.68	251.97	8.71	29.928		
900.00	896.28	867.53	862.12	4.12	4.09	121.83	-195.25	-153.36	279.98	270.90	9.08	30.845		
1,000.00	995.47	965.61	958.49	4.33	4.32	121.28	-213.44	-154.35	299.30	289.82	9.48	31.563		
1,100.00	1,094.65	1,063.68	1,054.86	4.56	4.58	120.79	-231.62	-155.33	318.65	308.73	9.92	32.114		
1,200.00	1,193.84	1,161.76	1,151.23	4.80	4.86	120.36	-249.80	-156.31	338.02	327.63	10.39	32.529		
1,300.00	1,293.02	1,259.84	1,247.61	5.05	5.15	119.98	-267.99	-157.30	357.40	346.52	10.88	32.834		
1,400.00	1,392.21	1,357.91	1,343.98	5.31	5.45	119.63	-286.17	-158.28	376.80	365.40	11.40	33.054		
1,500.00	1,491.39	1,455.99	1,440.35	5.58	5.77	119.32	-304.35	-159.27	396.21	384.28	11.93	33.205		
1,600.00	1,590.58	1,554.07	1,536.72	5.86	6.09	119.04	-322.53	-160.25	415.63	403.15	12.48	33.300		
1,700.00	1,689.76	1,652.14	1,633.09	6.15	6.42	118.78	-340.72	-161.24	435.06	422.01	13.04	33.354		
1,800.00	1,788.95	1,750.22	1,729.46	6.43	6.76	118.55	-358.90	-162.22	454.49	440.87	13.62	33.375		
1,900.00	1,888.13	1,848.30	1,825.83	6.59	7.03	118.33	-377.08	-163.21	473.93	460.32	13.62	34.798		
2,000.00	1,987.32	1,946.37	1,922.21	6.62	7.15	118.14	-395.27	-164.19	493.38	479.64	13.75	35.895		
2,100.00	2,086.50	2,044.45	2,018.58	6.66	7.20	117.95	-413.45	-165.18	512.84	499.01	13.82	37.099		
2,200.00	2,185.69	2,142.53	2,114.95	6.72	7.27	117.78	-431.63	-166.16	532.30	518.36	13.93	38.206		
2,300.00	2,284.87	2,240.60	2,211.32	6.79	7.36	117.62	-449.81	-167.15	551.76	537.69	14.07	39.213		
2,400.00	2,384.06	2,338.68	2,307.69	6.88	7.46	117.48	-468.00	-168.13	571.23	556.99	14.24	40.119		
2,500.00	2,483.24	2,436.76	2,404.06	6.98	7.57	117.34	-486.18	-169.12	590.70	576.26	14.43	40.925		
2,600.00	2,582.43	2,534.83	2,500.43	7.09	7.70	117.21	-504.36	-170.10	610.17	595.51	14.66	41.634		
2,700.00	2,681.61	2,632.91	2,596.81	7.22	7.85	117.09	-522.55	-171.09	629.65	614.74	14.90	42.250		
2,800.00	2,780.80	2,730.99	2,693.18	7.35	8.00	116.97	-540.73	-172.07	649.12	633.95	15.17	42.778		
2,900.00	2,879.98	2,829.06	2,789.55	7.50	8.17	116.87	-558.91	-173.06	668.61	653.14	15.47	43.224		
3,000.00	2,979.17	2,927.14	2,885.92	7.66	8.35	116.77	-577.09	-174.04	688.09	672.30	15.78	43.594		
3,100.00	3,078.35	3,025.22	2,982.29	7.82	8.55	116.67	-595.28	-175.03	707.57	691.45	16.12	43.895		
3,200.00	3,177.54	3,123.29	3,078.66	8.00	8.75	116.58	-613.46	-176.01	727.06	710.59	16.47	44.133		
3,300.00	3,276.72	3,221.37	3,175.03	8.18	8.96	116.50	-631.64	-177.00	746.55	729.70	16.85	44.314		
3,400.00	3,375.91	3,319.45	3,271.41	8.37	9.18	116.41	-649.83	-177.98	766.04	748.80	17.24	44.446		
3,500.00	3,475.09	3,417.52	3,367.78	8.57	9.41	116.34	-668.01	-178.97	785.53	767.89	17.64	44.533		
3,600.00	3,574.28	3,515.60	3,464.15	8.78	9.64	116.26	-686.19	-179.95	805.02	786.97	18.06	44.581		
3,700.00	3,673.46	3,613.68	3,560.52	8.99	9.89	116.19	-704.38	-180.94	824.52	806.03	18.49	44.595		
3,800.00	3,772.65	3,711.75	3,656.89	9.21	10.14	116.13	-722.56	-181.92	844.01	825.08	18.93	44.579		
3,900.00	3,871.83	3,809.83	3,753.26	9.43	10.39	116.06	-740.74	-182.91	863.51	844.12	19.39	44.539		
4,000.00	3,971.02	3,907.91	3,849.63	9.66	10.65	116.00	-758.92	-183.89	883.01	863.15	19.85	44.475		
4,100.00	4,070.20	4,005.98	3,946.01	9.89	10.92	115.94	-777.11	-184.88	902.50	882.17	20.33	44.393		
4,200.00	4,169.39	4,104.06	4,042.38	10.13	11.19	115.89	-795.29	-185.86	922.00	901.19	20.81	44.295		
4,300.00	4,268.57	4,202.14	4,138.75	10.37	11.47	115.83	-813.47	-186.85	941.50	920.19	21.31	44.185		
4,400.00	4,367.76	4,300.21	4,235.12	10.62	11.75	115.78	-831.66	-187.83	961.00	939.19	21.81	44.062		
4,500.00	4,466.94	4,398.29	4,331.49	10.87	12.03	115.73	-849.84	-188.82	980.50	958.18	22.32	43.931		
4,600.00	4,566.13	4,503.63	4,427.86	11.12	12.34	115.69	-868.02	-189.80	1,000.00	977.15	22.85	43.755		
4,700.00	4,665.31	4,594.44	4,524.23	11.38	12.61	115.64	-886.20	-190.79	1,019.51	996.15	23.36	43.648		
4,800.00	4,764.50	4,692.52	4,620.61	11.63	12.90	115.60	-904.39	-191.77	1,039.01	1,015.12	23.89	43.499		
4,900.00	4,863.68	4,809.40	4,716.98	11.90	13.25	115.56	-922.57	-192.75	1,058.51	1,034.04	24.47	43.252		
5,000.00	4,962.87	4,888.67	4,813.35	12.16	13.50	115.51	-940.75	-193.74	1,078.02	1,053.06	24.96	43.192		
5,100.00	5,062.05	4,986.75	4,909.72	12.43	13.80	115.48	-958.94	-194.72	1,097.52	1,072.02	25.50	43.035		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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-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
5,200.00	5,161.24	5,084.83	5,006.09	12.70	14.10	115.44	-977.12	-195.71	1,117.03	1,090.98	26.05	42.877	
5,300.00	5,260.42	5,182.90	5,102.46	12.97	14.41	115.40	-995.30	-196.69	1,136.53	1,109.93	26.61	42.719	
5,400.00	5,359.61	5,280.98	5,198.83	13.24	14.72	115.37	-1,013.48	-197.68	1,156.04	1,128.88	27.16	42.560	
5,500.00	5,458.79	5,379.06	5,295.21	13.52	15.03	115.33	-1,031.67	-198.66	1,175.55	1,147.82	27.72	42.403	
5,600.00	5,557.98	5,477.13	5,391.58	13.79	15.34	115.30	-1,049.85	-199.65	1,195.05	1,166.76	28.29	42.246	
6,900.00	6,847.93	8,060.14	7,229.98	17.25	24.64	-83.30	-1,379.04	776.32	1,182.94	1,144.27	38.67	30.593	
7,000.00	6,944.17	8,033.84	7,229.91	17.33	24.40	-90.12	-1,379.49	750.03	1,152.31	1,113.16	39.15	29.435	
7,100.00	7,035.09	8,007.20	7,229.79	17.37	24.15	-92.18	-1,380.20	708.99	1,130.48	1,091.01	39.47	28.641	
7,200.00	7,118.44	7,938.02	7,229.64	17.39	23.56	-92.06	-1,381.14	654.22	1,116.97	1,077.71	39.26	28.452	
7,300.00	7,192.18	7,870.84	7,229.45	17.41	23.04	-90.68	-1,382.30	587.06	1,110.50	1,071.53	38.97	28.496	
7,378.95	7,242.40	7,810.13	7,229.29	17.44	22.62	-89.10	-1,383.35	526.36	1,109.19	1,070.54	38.66	28.693	
7,400.00	7,254.49	7,807.06	7,229.24	17.45	22.60	-88.64	-1,383.64	509.16	1,109.27	1,070.59	38.68	28.678	
7,500.00	7,303.82	7,705.59	7,228.99	17.54	22.04	-86.47	-1,385.15	421.83	1,111.29	1,073.15	38.14	29.137	
7,600.00	7,338.98	7,596.93	7,219.10	17.72	21.60	-83.93	-1,385.20	313.75	1,114.01	1,076.26	37.75	29.509	
7,700.00	7,359.09	7,496.83	7,194.13	18.02	21.30	-81.53	-1,382.22	216.97	1,116.29	1,078.73	37.56	29.720	
7,800.00	7,364.03	7,403.79	7,157.84	18.43	21.08	-79.32	-1,376.90	131.55	1,118.13	1,080.56	37.57	29.765	
7,900.00	7,364.15	7,321.53	7,115.88	19.00	20.90	-77.15	-1,370.24	61.18	1,121.33	1,083.53	37.80	29.663	
8,000.00	7,364.28	7,251.77	7,073.57	19.70	20.75	-74.96	-1,363.24	6.21	1,127.87	1,089.63	38.24	29.494	
8,100.00	7,364.41	7,193.19	7,033.65	20.52	20.62	-72.91	-1,356.47	-36.10	1,138.90	1,100.06	38.84	29.321	
8,200.00	7,364.54	7,144.08	6,997.37	21.44	20.51	-71.06	-1,350.20	-68.59	1,155.29	1,115.72	39.56	29.200	
8,300.00	7,364.67	7,100.00	6,962.81	22.46	20.41	-69.32	-1,344.16	-95.25	1,177.53	1,137.18	40.35	29.185	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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						
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
11,200.00	7,368.38	7,430.38	7,430.38	65.02	261.53	89.71	26.26	-4,435.46	1,185.16	898.76	286.40	4.138	
11,300.00	7,368.51	7,430.51	7,430.51	66.63	261.53	89.74	26.26	-4,435.46	1,088.56	800.83	287.74	3.783	
11,400.00	7,368.64	7,430.64	7,430.64	68.24	261.53	89.76	26.26	-4,435.46	992.64	703.25	289.39	3.430	
11,500.00	7,368.77	7,430.77	7,430.77	69.86	261.54	89.79	26.26	-4,435.46	897.62	606.15	291.46	3.080	
11,600.00	7,368.90	7,430.90	7,430.90	71.48	261.54	89.81	26.26	-4,435.46	803.79	509.71	294.08	2.733	
11,700.00	7,369.02	7,431.02	7,431.02	73.10	261.55	89.84	26.26	-4,435.46	711.66	414.20	297.46	2.392	
11,800.00	7,369.15	7,431.15	7,431.15	74.73	261.55	89.86	26.26	-4,435.46	621.95	320.10	301.85	2.060	
11,900.00	7,369.28	7,431.28	7,431.28	76.36	261.56	89.89	26.26	-4,435.46	535.91	228.27	307.64	1.742	
12,000.00	7,369.41	7,431.41	7,431.41	77.98	261.56	89.91	26.26	-4,435.46	455.60	140.36	315.24	1.445	Level 3
12,100.00	7,369.54	7,431.54	7,431.54	79.61	261.57	89.94	26.26	-4,435.46	384.63	59.74	324.88	1.184	Level 2
12,200.00	7,369.66	7,431.66	7,431.66	81.25	261.57	89.96	26.26	-4,435.46	329.10	-6.61	335.71	0.980	Level 1
12,300.00	7,369.79	7,431.79	7,431.79	82.88	261.58	89.99	26.26	-4,435.46	297.79	-46.40	344.19	0.865	Level 1
12,348.15	7,369.85	7,431.85	7,431.85	83.67	261.58	90.00	26.26	-4,435.46	293.87	-51.95	345.82	0.850	Level 1, CC, ES, SF
12,400.00	7,369.92	7,431.92	7,431.92	84.52	261.58	90.01	26.26	-4,435.46	298.41	-46.82	345.23	0.864	Level 1
12,500.00	7,370.05	7,432.05	7,432.05	86.15	261.58	90.04	26.26	-4,435.46	330.79	-7.83	338.62	0.977	Level 1
12,600.00	7,370.18	7,432.18	7,432.18	87.79	261.59	90.06	26.26	-4,435.46	387.03	57.87	329.16	1.176	Level 2
12,700.00	7,370.30	7,432.30	7,432.30	89.43	261.59	90.09	26.26	-4,435.46	458.43	138.04	320.40	1.431	Level 3
12,800.00	7,370.43	7,432.43	7,432.43	91.07	261.60	90.11	26.26	-4,435.46	539.01	225.66	313.35	1.720	
12,900.00	7,370.56	7,432.56	7,432.56	92.71	261.60	90.14	26.26	-4,435.46	625.22	317.32	307.90	2.031	
13,000.00	7,370.69	7,432.69	7,432.69	94.35	261.61	90.16	26.26	-4,435.46	715.03	411.31	303.72	2.354	
13,100.00	7,370.82	7,432.82	7,432.82	96.00	261.61	90.19	26.26	-4,435.46	807.24	506.76	300.48	2.686	
13,200.00	7,370.95	7,432.95	7,432.95	97.64	261.62	90.21	26.26	-4,435.46	901.12	603.17	297.95	3.024	
13,300.00	7,371.07	7,433.07	7,433.07	99.29	261.62	90.24	26.26	-4,435.46	996.18	700.24	295.94	3.366	
13,400.00	7,371.20	7,433.20	7,433.20	100.93	261.63	90.26	26.26	-4,435.46	1,092.13	797.80	294.34	3.710	
13,500.00	7,371.33	7,433.33	7,433.33	102.58	261.63	90.29	26.26	-4,435.46	1,188.75	895.72	293.03	4.057	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 2 - XOG 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	
10,300.00	7,367.23	7,402.77	7,397.23	50.68	260.55	-89.96	-1,286.87	-2,994.38	1,181.85	876.80	305.06	3.874	
10,400.00	7,367.36	7,402.64	7,397.36	52.26	260.54	-89.96	-1,286.87	-2,994.38	1,134.01	825.91	308.10	3.681	
10,500.00	7,367.49	7,402.51	7,397.49	53.84	260.54	-89.97	-1,286.87	-2,994.38	1,093.25	782.09	311.16	3.513	
10,600.00	7,367.61	7,402.39	7,397.61	55.42	260.53	-89.98	-1,286.87	-2,994.38	1,060.37	746.24	314.13	3.376	
10,700.00	7,367.74	7,402.26	7,397.74	57.01	260.53	-89.99	-1,286.87	-2,994.38	1,036.15	719.26	316.89	3.270	
10,800.00	7,367.87	7,402.13	7,397.87	58.60	260.52	-89.99	-1,286.87	-2,994.38	1,021.18	701.87	319.31	3.198	
10,900.00	7,368.00	7,402.00	7,398.00	60.20	260.52	-90.00	-1,286.87	-2,994.38	1,015.88	694.59	321.29	3.162	
10,903.97	7,368.00	7,402.00	7,398.00	60.27	260.52	-90.00	-1,286.87	-2,994.38	1,015.87	694.51	321.36	3.161	CC, ES, SF
11,000.00	7,368.13	7,401.87	7,398.13	61.80	260.52	-90.01	-1,286.87	-2,994.38	1,020.40	697.66	322.74	3.162	
11,100.00	7,368.25	7,401.75	7,398.25	63.41	260.51	-90.01	-1,286.87	-2,994.38	1,034.61	710.97	323.64	3.197	
11,200.00	7,368.38	7,401.62	7,398.38	65.02	260.51	-90.02	-1,286.87	-2,994.38	1,058.12	734.11	324.01	3.266	
11,300.00	7,368.51	7,401.49	7,398.51	66.63	260.50	-90.03	-1,286.87	-2,994.38	1,090.33	766.43	323.90	3.366	
11,400.00	7,368.64	7,401.36	7,398.64	68.24	260.50	-90.04	-1,286.87	-2,994.38	1,130.50	807.11	323.39	3.496	
11,500.00	7,368.77	7,401.23	7,398.77	69.86	260.49	-90.04	-1,286.87	-2,994.38	1,177.81	855.23	322.58	3.651	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 3 - 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	
14,300.00	7,372.36	7,427.36	7,427.36	115.78	261.42	-89.95	-1,245.97	-7,070.64	1,196.74	839.50	357.24	3.350	
14,400.00	7,372.48	7,427.48	7,427.48	117.44	261.42	-89.96	-1,245.97	-7,070.64	1,142.85	779.79	363.06	3.148	
14,500.00	7,372.61	7,427.61	7,427.61	119.09	261.43	-89.96	-1,245.97	-7,070.64	1,095.47	726.61	368.86	2.970	
14,600.00	7,372.74	7,427.74	7,427.74	120.74	261.43	-89.97	-1,245.97	-7,070.64	1,055.45	681.03	374.42	2.819	
14,700.00	7,372.87	7,427.87	7,427.87	122.40	261.44	-89.98	-1,245.97	-7,070.64	1,023.68	644.17	379.51	2.697	
14,800.00	7,373.00	7,428.00	7,428.00	124.05	261.44	-89.99	-1,245.97	-7,070.64	1,000.93	617.06	383.86	2.608	
14,900.00	7,373.12	7,428.12	7,428.12	125.71	261.45	-89.99	-1,245.97	-7,070.64	987.82	600.60	387.22	2.551	
14,980.32	7,373.23	7,428.23	7,428.23	127.04	261.45	-90.00	-1,245.97	-7,070.64	984.55	595.49	389.06	2.531 CC	
15,000.00	7,373.25	7,428.25	7,428.25	127.36	261.45	-90.00	-1,245.97	-7,070.64	984.75	595.35	389.39	2.529 ES, SF	
15,100.00	7,373.38	7,428.38	7,428.38	129.02	261.45	-90.01	-1,245.97	-7,070.64	991.80	601.50	390.30	2.541	
15,200.00	7,373.51	7,428.51	7,428.51	130.68	261.46	-90.02	-1,245.97	-7,070.64	1,008.76	618.81	389.95	2.587	
15,300.00	7,373.64	7,428.64	7,428.64	132.33	261.46	-90.02	-1,245.97	-7,070.64	1,035.15	646.65	388.50	2.664	
15,400.00	7,373.77	7,428.77	7,428.77	133.99	261.47	-90.03	-1,245.97	-7,070.64	1,070.26	684.13	386.13	2.772	
15,500.00	7,373.89	7,428.89	7,428.89	135.65	261.47	-90.04	-1,245.97	-7,070.64	1,113.28	730.20	383.08	2.906	
15,583.33	7,374.00	7,429.00	7,429.00	137.03	261.48	-90.04	-1,245.97	-7,070.64	1,154.53	774.35	380.19	3.037	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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	
12,500.00	7,370.05	7,456.05	7,456.05	86.15	262.43	89.74	61.50	-5,738.51	1,196.55	902.97	293.59	4.076	
12,600.00	7,370.18	7,456.18	7,456.18	87.79	262.44	89.76	61.50	-5,738.51	1,100.68	805.03	295.64	3.723	
12,700.00	7,370.30	7,456.30	7,456.30	89.43	262.44	89.79	61.50	-5,738.51	1,005.60	707.47	298.13	3.373	
12,800.00	7,370.43	7,456.43	7,456.43	91.07	262.45	89.81	61.50	-5,738.51	911.58	610.40	301.18	3.027	
12,900.00	7,370.56	7,456.56	7,456.56	92.71	262.45	89.83	61.50	-5,738.51	818.98	514.02	304.96	2.686	
13,000.00	7,370.69	7,456.69	7,456.69	94.35	262.46	89.85	61.50	-5,738.51	728.33	418.63	309.70	2.352	
13,100.00	7,370.82	7,456.82	7,456.82	96.00	262.46	89.88	61.50	-5,738.51	640.48	324.77	315.71	2.029	
13,200.00	7,370.95	7,456.95	7,456.95	97.64	262.47	89.90	61.50	-5,738.51	556.74	233.38	323.36	1.722	
13,300.00	7,371.07	7,457.07	7,457.07	99.29	262.47	89.92	61.50	-5,738.51	479.27	146.26	333.01	1.439	Level 3
13,400.00	7,371.20	7,457.20	7,457.20	100.93	262.48	89.94	61.50	-5,738.51	411.64	66.97	344.67	1.194	Level 2
13,500.00	7,371.33	7,457.33	7,457.33	102.58	262.48	89.97	61.50	-5,738.51	359.43	2.42	357.02	1.007	Level 2
13,600.00	7,371.46	7,457.46	7,457.46	104.23	262.48	89.99	61.50	-5,738.51	330.06	-36.21	366.27	0.901	Level 1
13,651.28	7,371.52	7,457.52	7,457.52	105.07	262.49	90.00	61.50	-5,738.51	326.05	-42.09	368.14	0.886	Level 1, CC, ES, SF
13,700.00	7,371.59	7,457.59	7,457.59	105.88	262.49	90.01	61.50	-5,738.51	329.67	-37.96	367.63	0.897	Level 1
13,800.00	7,371.71	7,457.71	7,457.71	107.53	262.49	90.03	61.50	-5,738.51	358.37	-2.36	360.72	0.993	Level 1
13,900.00	7,371.84	7,457.84	7,457.84	109.18	262.50	90.06	61.50	-5,738.51	410.09	60.12	349.97	1.172	Level 2
14,000.00	7,371.97	7,457.97	7,457.97	110.83	262.50	90.08	61.50	-5,738.51	477.41	138.11	339.29	1.407	Level 3
14,100.00	7,372.10	7,458.10	7,458.10	112.48	262.51	90.10	61.50	-5,738.51	554.67	224.44	330.23	1.680	
14,200.00	7,372.23	7,458.23	7,458.23	114.13	262.51	90.12	61.50	-5,738.51	638.28	315.33	322.95	1.976	
14,300.00	7,372.36	7,458.36	7,458.36	115.78	262.52	90.15	61.50	-5,738.51	726.05	408.86	317.19	2.289	
14,400.00	7,372.48	7,458.48	7,458.48	117.44	262.52	90.17	61.50	-5,738.51	816.64	504.01	312.62	2.612	
14,500.00	7,372.61	7,458.61	7,458.61	119.09	262.53	90.19	61.50	-5,738.51	909.20	600.23	308.97	2.943	
14,600.00	7,372.74	7,458.74	7,458.74	120.74	262.53	90.21	61.50	-5,738.51	1,003.19	697.17	306.02	3.278	
14,700.00	7,372.87	7,458.87	7,458.87	122.40	262.53	90.24	61.50	-5,738.51	1,098.24	794.62	303.62	3.617	
14,800.00	7,373.00	7,459.00	7,459.00	124.05	262.54	90.26	61.50	-5,738.51	1,194.10	892.46	301.64	3.959	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 J 30-19 - Noble PR Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-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	
13,200.00	7,370.95	7,574.15	7,463.42	97.64	43.11	-87.95	-624.13	-6,405.09	1,173.27	1,098.93	74.33	15.784	
13,300.00	7,371.07	7,575.02	7,464.29	99.29	43.11	-88.08	-624.14	-6,405.10	1,078.57	1,001.66	76.91	14.024	
13,400.00	7,371.20	7,575.89	7,465.16	100.93	43.11	-88.22	-624.15	-6,405.10	984.92	904.88	80.03	12.306	
13,500.00	7,371.33	7,576.76	7,466.03	102.58	43.11	-88.36	-624.15	-6,405.11	892.64	808.79	83.86	10.645	
13,600.00	7,371.46	7,577.64	7,466.91	104.23	43.12	-88.50	-624.16	-6,405.12	802.22	713.64	88.58	9.056	
13,700.00	7,371.59	7,578.52	7,467.79	105.88	43.12	-88.64	-624.17	-6,405.12	714.36	619.88	94.48	7.561	
13,800.00	7,371.71	7,579.41	7,468.68	107.53	43.12	-88.78	-624.18	-6,405.13	630.12	528.25	101.87	6.186	
13,900.00	7,371.84	7,580.30	7,469.57	109.18	43.12	-88.92	-624.18	-6,405.14	551.18	440.06	111.13	4.960	
14,000.00	7,371.97	7,581.19	7,470.46	110.83	43.12	-89.06	-624.19	-6,405.14	480.15	357.69	122.46	3.921	
14,100.00	7,372.10	7,582.09	7,471.36	112.48	43.12	-89.20	-624.20	-6,405.15	421.06	285.58	135.47	3.108	
14,200.00	7,372.23	7,582.99	7,472.26	114.13	43.12	-89.35	-624.21	-6,405.16	379.51	231.34	148.17	2.561	
14,300.00	7,372.36	7,583.89	7,473.16	115.78	43.12	-89.49	-624.21	-6,405.16	361.62	205.08	156.53	2.310	
14,316.31	7,372.38	7,584.04	7,473.31	116.05	43.12	-89.51	-624.21	-6,405.17	361.25	204.05	157.19	2.298	CC, ES, SF
14,400.00	7,372.48	7,584.80	7,474.07	117.44	43.12	-89.63	-624.22	-6,405.17	370.82	213.80	157.01	2.362	
14,500.00	7,372.61	7,585.72	7,474.99	119.09	43.12	-89.78	-624.23	-6,405.18	405.26	254.95	150.31	2.696	
14,600.00	7,372.74	7,586.63	7,475.90	120.74	43.13	-89.92	-624.24	-6,405.19	459.32	319.08	140.24	3.275	
14,700.00	7,372.87	7,587.55	7,476.82	122.40	43.13	-90.07	-624.24	-6,405.19	526.98	397.01	129.96	4.055	
14,800.00	7,373.00	7,588.48	7,477.75	124.05	43.13	-90.22	-624.25	-6,405.20	603.68	482.82	120.87	4.995	
14,900.00	7,373.12	7,589.41	7,478.68	125.71	43.13	-90.37	-624.26	-6,405.21	686.41	573.16	113.26	6.061	
15,000.00	7,373.25	7,590.34	7,479.61	127.36	43.13	-90.51	-624.27	-6,405.21	773.23	666.22	107.01	7.226	
15,100.00	7,373.38	7,591.28	7,480.55	129.02	43.13	-90.66	-624.28	-6,405.22	862.91	761.01	101.91	8.468	
15,200.00	7,373.51	7,592.22	7,481.49	130.68	43.13	-90.81	-624.28	-6,405.23	954.64	856.93	97.71	9.770	
15,300.00	7,373.64	7,593.17	7,482.44	132.33	43.13	-90.96	-624.29	-6,405.24	1,047.88	953.65	94.24	11.120	
15,400.00	7,373.77	7,594.12	7,483.39	133.99	43.13	-91.11	-624.30	-6,405.25	1,142.27	1,050.93	91.34	12.506	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-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	
12,900.00	7,370.56	7,560.00	7,365.19	92.71	41.95	-86.02	-1,244.69	-5,615.19	1,164.10	1,046.67	117.43	9.913	
13,000.00	7,370.69	7,560.00	7,365.19	94.35	41.95	-86.02	-1,244.69	-5,615.19	1,113.63	990.54	123.08	9.048	
13,100.00	7,370.82	7,560.00	7,365.19	96.00	41.95	-86.02	-1,244.69	-5,615.19	1,070.14	941.51	128.63	8.320	
13,200.00	7,370.95	7,560.00	7,365.19	97.64	41.95	-86.02	-1,244.69	-5,615.19	1,034.53	900.70	133.83	7.730	
13,300.00	7,371.07	7,560.00	7,365.19	99.29	41.95	-86.02	-1,244.69	-5,615.19	1,007.62	869.19	138.43	7.279	
13,400.00	7,371.20	7,560.00	7,365.19	100.93	41.95	-86.02	-1,244.69	-5,615.19	990.12	847.96	142.16	6.965	
13,500.00	7,371.33	7,560.00	7,365.19	102.58	41.95	-86.02	-1,244.69	-5,615.19	982.53	837.75	144.79	6.786	
13,524.80	7,371.36	7,560.00	7,365.19	102.99	41.95	-86.02	-1,244.69	-5,615.19	982.22	836.97	145.25	6.762 CC, ES	
13,600.00	7,371.46	7,560.00	7,365.19	104.23	41.95	-86.02	-1,244.69	-5,615.19	985.10	838.91	146.19	6.739 SF	
13,700.00	7,371.59	7,560.00	7,365.19	105.88	41.95	-86.02	-1,244.69	-5,615.19	997.72	851.39	146.34	6.818	
13,800.00	7,371.71	7,560.00	7,365.19	107.53	41.95	-86.02	-1,244.69	-5,615.19	1,020.05	874.72	145.32	7.019	
13,900.00	7,371.84	7,560.00	7,365.19	109.18	41.95	-86.02	-1,244.69	-5,615.19	1,051.44	908.11	143.33	7.336	
14,000.00	7,371.97	7,560.00	7,365.19	110.83	41.95	-86.02	-1,244.69	-5,615.19	1,091.14	950.55	140.58	7.762	
14,100.00	7,372.10	7,560.00	7,365.19	112.48	41.95	-86.02	-1,244.69	-5,615.19	1,138.25	1,000.94	137.32	8.289	
14,200.00	7,372.23	7,560.00	7,365.19	114.13	41.95	-86.02	-1,244.69	-5,615.19	1,191.91	1,058.17	133.74	8.912	

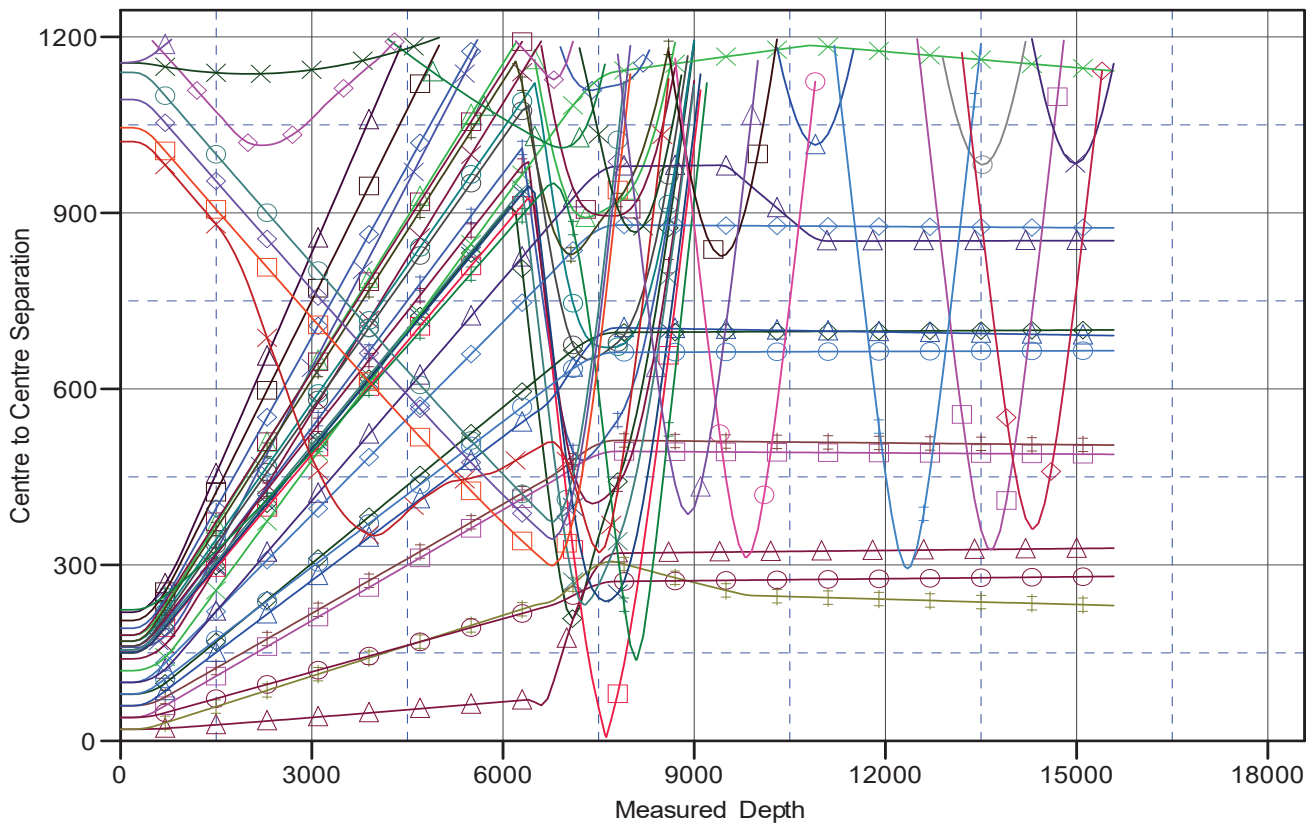
Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 4C-30-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 4C-30-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 4C-30-M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 8N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 9C-30-M, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Eneign Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLER J29-180, Noble SI Well, Actual Eneign Surveys V0
SANFORD 4N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	BENSLER J29-17D, Noble PR Well, Actual Eneign Surveys V0
SANFORD 41N-30C-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qnos V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
	LUNDVALL 3, Noble PR Well, No Surveys V0	

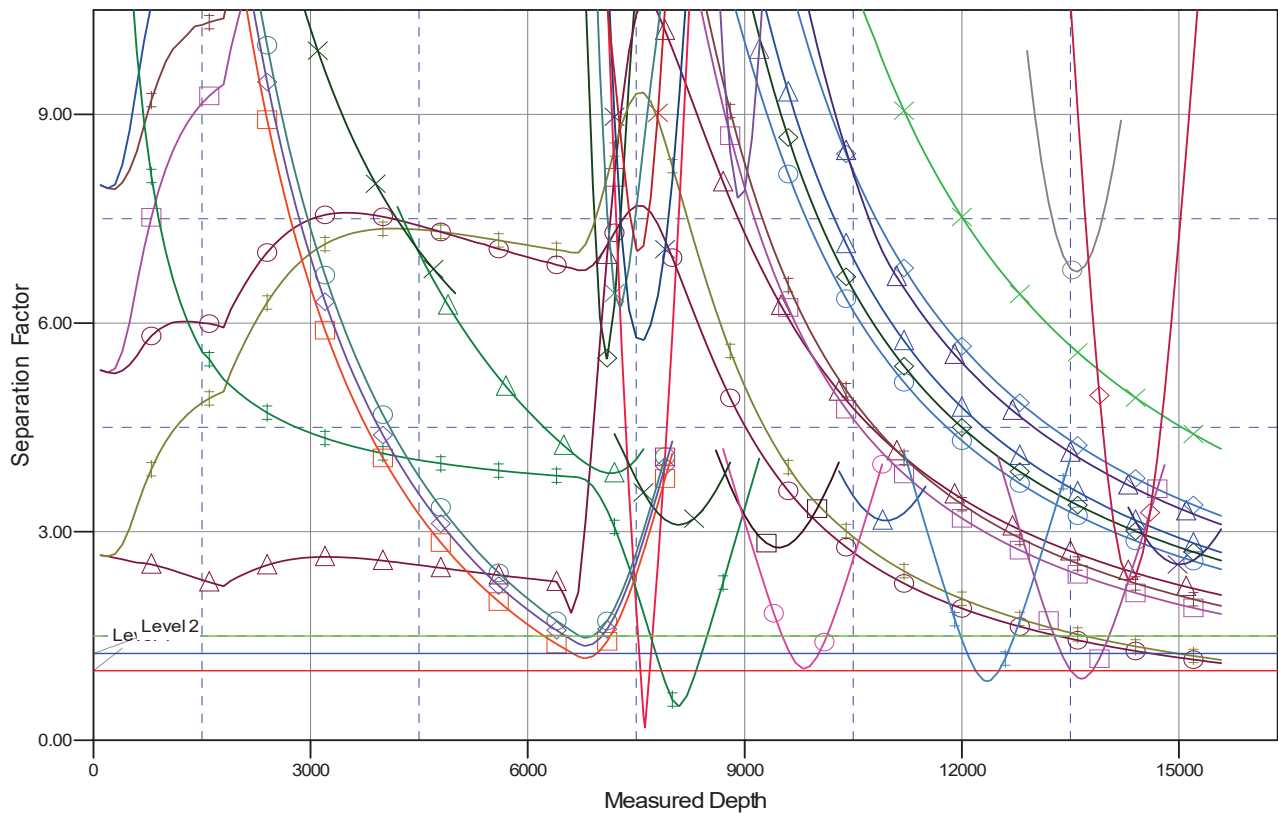
Hewlett-Packard
Anticollision Report

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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 4C-30-M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

- | | | |
|-----------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------|
| SANFORD 32N-30B-M, Wellbore #1, Design #1 V0 | SANFORD 30N-30B-M, Wellbore #1, Design #1 V0 | HOMYAK 2 XOG SI Well, No Surveys V0 |
| SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0 | SANFORD 5N-30B-M, Wellbore #1, Design #1 V0 | HOMYAK 1 XOG PR Well, No Surveys V0 |
| SANFORD 4N-30B-M, Wellbore #1, Design #1 V0 | SANFORD 1C-27-XR, Wellbore #1, Design #1 V0 | LUNDVALL 3 30-19, Noble PR Well, Actual Ensign Surveys V0 |
| SANFORD 32N-30C-M, Wellbore #1, Design #1 V0 | SANFORD 30N-30A-M, Wellbore #1, Design #1 V0 | UPRC 29-7C, Noble T/A Well, No Surveys V0 |
| SANFORD 31N-30C-M, Wellbore #1, Design #1 V0 | SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0 | KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0 |
| SANFORD 4N-30C-M, Wellbore #1, Design #1 V0 | SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0 | KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0 |
| SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0 | SANFORD 26C-27-XR, Wellbore #1, Design #1 V0 | BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| SANFORD 3C-27-XR, Wellbore #1, Design #1 V0 | SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0 | UPV 29-2H6, Noble SI Well, No Surveys V0 |
| SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0 | SANFORD 29N-27C-XR, Wellbore #1, Design #1 V0 | BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0 |
| SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0 | SANFORD 30C-30-M, Wellbore #1, Design #1 V0 | KAMMERZELL 29-5, XOG PR Well, No Surveys V0 |
| SANFORD 31N-30C-M, Wellbore #1, Design #1 V0 | SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0 | BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0 |
| SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0 | LUNDVALL 4, Noble PR Well, No Surveys V0 | KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0 |
| SANFORD 5N-30C-M, Wellbore #1, Design #1 V0 | STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0 | KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qiros V0 |
| SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0 | LUNDVALL 3, Noble PR Well, No Surveys V0 | BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0 |