

# **SRC ENERGY**

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

**Wellbore #1  
Design #1**

## **Anticollision Report**

**25 October, 2018**

# Hewlett-Packard

## Anticollision Report

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

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

<b>Survey Tool Program</b>	<b>Date</b>	10/25/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
7,781.00	15,590.73	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (usft)</b>	<b>Offset Measured Depth (usft)</b>	<b>Distance Between Centres (usft)</b>	<b>Distance Between Ellipses (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
5N-66W-19 Offsets Incomplete						
KORI J 19-13 - Noble SI Well - No Surveys	14,887.18	7,500.16	780.54	394.25	2.021	CC
KORI J 19-13 - Noble SI Well - No Surveys	14,900.00	7,500.12	780.65	394.16	2.020	ES, SF
5N-66W-20 Offsets Incomplete						
HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys	8,198.28	7,379.30	877.72	588.92	3.039	CC
HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys	8,200.00	7,379.31	877.72	588.92	3.039	ES, SF
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,036.21	1,907.51	1,066.33	1,043.12	45.943	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,800.00	2,526.99	1,125.00	1,099.37	43.905	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	3,131.74	3,120.62	668.16	637.98	22.141	CC
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	3,300.00	3,305.45	668.50	637.05	21.254	ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,800.00	7,443.47	1,020.59	963.57	17.900	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,728.30	6,664.36	543.78	286.93	2.117	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,800.00	6,735.93	545.76	286.20	2.103	ES, SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,736.13	6,672.16	566.38	309.34	2.203	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,800.00	6,735.93	568.16	308.70	2.190	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	200.00	201.00	280.31	269.94	27.025	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	8,091.43	7,360.97	524.54	236.75	1.823	ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,824.87	7,373.30	350.63	46.78	1.154	Level 2, CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys						Out of range
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,909.65	7,396.66	1,049.31	996.22	19.766	CC, ES
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	9,100.00	7,389.11	1,066.41	1,011.81	19.530	SF
UPRC 29-7C - Noble T/A Well - No Surveys						Out of range
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	6,738.51	6,661.53	618.34	361.48	2.407	CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,800.00	6,722.93	620.05	360.87	2.392	ES, SF

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## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	161.65	154.07	21.341	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,500.00	7,696.80	424.50	374.93	8.564	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	170.07	162.49	22.454	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,088.13	7,663.13	426.31	382.69	9.773	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	155.44	147.87	20.522	CC
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,265.43	7,705.47	167.73	124.10	3.845	ES, SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	180.23	172.66	23.795	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,421.79	669.99	625.48	15.054	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	151.36	143.79	19.984	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,654.88	7,563.08	233.88	183.82	4.672	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	150.17	142.60	19.827	CC, ES
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	7,115.08	7,670.16	194.56	150.27	4.393	SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,383.62	7,686.78	1.82	-48.82	0.036	Level 1, CC, ES, SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	20.03	12.46	2.645	CC
SANFORD 30N-30A-M - Wellbore #1 - Design #1	6,577.53	6,582.52	27.74	-10.82	0.719	Level 1, ES, SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	15,590.73	15,411.09	276.67	59.75	1.275	Level 3, SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	140.25	132.68	18.518	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,590.73	15,410.68	1,149.39	881.62	4.292	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	120.22	112.64	15.872	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,590.73	15,474.51	923.49	655.10	3.441	SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	200.00	200.00	240.07	232.49	31.697	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	300.00	296.48	241.00	233.35	31.473	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	220.03	212.46	29.052	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	300.00	293.68	222.03	214.38	29.012	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	266.51	258.94	35.187	CC, ES, SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	283.22	275.64	37.392	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	292.90	286.00	278.35	37.371	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	192.17	184.59	25.371	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,760.55	877.45	833.78	20.097	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	205.17	197.59	27.088	CC, ES
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,334.51	1,070.19	1,025.67	24.041	SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,590.73	15,586.09	665.29	394.50	2.457	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	100.17	92.60	13.226	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,590.73	15,274.24	789.12	536.53	3.124	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	60.10	52.53	7.935	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,590.73	15,389.99	574.11	316.26	2.227	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,590.73	15,469.78	233.64	-3.05	0.987	Level 1, ES, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	179.97	172.39	23.761	CC, ES, SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	200.00	192.42	26.406	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	300.00	294.44	201.95	194.29	26.385	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	159.92	152.35	21.115	CC, ES, SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.84	28.969	CC, ES, SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	234.34	226.77	30.939	CC, ES, SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	250.14	242.57	33.025	CC, ES, SF

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## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	12,352.66	7,437.06	370.22	26.86	1.078	Level 2, CC, ES, SF
HOMYAK 2 - XOG SI Well - No Surveys						Out of range
LUNDVALL 3 - Noble PR Well - No Surveys						Out of range
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,655.80	7,465.06	338.49	-26.62	0.927	Level 1, CC, ES, SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,320.61	7,587.10	1,026.06	872.42	6.678	CC, ES
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,400.00	7,587.96	1,029.13	874.18	6.642	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 Surve						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey						Out of range

Offset Design											5N-66W-19 Offsets Incomplete - KORI J 19-13 - Noble SI Well - No Surveys		Offset Site Error:		0.00 usft	
Survey Program:											100-SRC Energy_2° CONE_2.448		Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)					
14,000.00	7,380.12	7,502.88	7,497.12	107.32	264.09	89.80	1,103.71	-6,966.30	1,181.66	842.72	338.94	3.486				
14,100.00	7,380.42	7,502.58	7,497.42	108.94	264.08	89.82	1,103.71	-6,966.30	1,108.55	764.41	344.14	3.221				
14,200.00	7,380.73	7,502.27	7,497.73	110.55	264.07	89.85	1,103.71	-6,966.30	1,039.93	690.10	349.83	2.973				
14,300.00	7,381.04	7,501.96	7,498.04	112.17	264.06	89.87	1,103.71	-6,966.30	976.74	620.81	355.93	2.744				
14,400.00	7,381.34	7,501.66	7,498.34	113.79	264.05	89.89	1,103.71	-6,966.30	920.10	557.79	362.31	2.540				
14,500.00	7,381.65	7,501.35	7,498.65	115.42	264.04	89.91	1,103.71	-6,966.30	871.29	502.57	368.72	2.363				
14,600.00	7,381.96	7,501.04	7,498.96	117.04	264.03	89.94	1,103.71	-6,966.30	831.69	456.90	374.80	2.219				
14,700.00	7,382.27	7,500.74	7,499.27	118.66	264.02	89.96	1,103.71	-6,966.30	802.67	422.58	380.09	2.112				
14,800.00	7,382.57	7,500.43	7,499.57	120.29	264.01	89.98	1,103.71	-6,966.30	785.40	401.27	384.12	2.045				
14,887.18	7,382.84	7,500.16	7,499.84	121.71	264.00	90.00	1,103.71	-6,966.30	780.54	394.25	386.29	2.021 CC				
14,900.00	7,382.88	7,500.12	7,499.88	121.92	264.00	90.00	1,103.71	-6,966.30	780.65	394.16	386.49	2.020 ES, SF				
15,000.00	7,383.19	7,500.19	7,500.19	123.55	264.00	90.03	1,103.71	-6,966.30	788.65	401.62	387.03	2.038				
15,100.00	7,383.49	7,500.49	7,500.49	125.18	264.01	90.05	1,103.71	-6,966.30	809.04	423.21	385.83	2.097				
15,200.00	7,383.80	7,500.80	7,500.80	126.81	264.02	90.07	1,103.71	-6,966.30	840.90	457.72	383.17	2.195				
15,300.00	7,384.11	7,501.11	7,501.11	128.44	264.03	90.09	1,103.71	-6,966.30	882.99	503.51	379.48	2.327				
15,400.00	7,384.41	7,501.41	7,501.41	130.07	264.04	90.12	1,103.71	-6,966.30	933.93	558.75	375.18	2.489				
15,500.00	7,384.72	7,501.72	7,501.72	131.71	264.05	90.14	1,103.71	-6,966.30	992.37	621.75	370.62	2.678				
15,590.73	7,385.00	7,502.00	7,502.00	133.19	264.06	90.16	1,103.71	-6,966.30	1,050.82	684.35	366.48	2.867				

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## Anticollision Report

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

<b>Offset Design</b> 5N-66W-20 Offsets Incomplete - HSR-WIEDEMAN 14-20 - Noble SI Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	
7,400.00	7,252.13	7,269.13	7,269.13	23.68	255.81	62.45	1,182.88	-277.20	1,175.39	896.25	279.14	4.211	
7,500.00	7,301.31	7,318.31	7,318.31	24.34	257.55	70.96	1,182.88	-277.20	1,118.19	836.77	281.42	3.973	
7,600.00	7,336.30	7,353.30	7,353.30	25.28	258.79	79.13	1,182.88	-277.20	1,061.80	778.30	283.50	3.745	
7,700.00	7,356.23	7,373.23	7,373.23	26.48	259.50	85.99	1,182.88	-277.20	1,009.37	723.96	285.40	3.537	
7,800.00	7,361.08	7,378.08	7,378.08	27.71	259.67	89.92	1,182.88	-277.20	963.86	676.21	287.64	3.351	
7,900.00	7,361.38	7,378.38	7,378.38	27.76	259.68	89.94	1,182.88	-277.20	927.02	639.19	287.83	3.221	
8,000.00	7,361.69	7,378.69	7,378.69	27.91	259.69	89.96	1,182.88	-277.20	899.84	611.75	288.09	3.123	
8,100.00	7,362.00	7,379.00	7,379.00	28.16	259.70	89.98	1,182.88	-277.20	883.21	594.79	288.42	3.062	
8,198.28	7,362.30	7,379.30	7,379.30	28.50	259.72	90.00	1,182.88	-277.20	877.72	588.92	288.80	3.039 CC	
8,200.00	7,362.31	7,379.31	7,379.31	28.51	259.72	90.00	1,182.88	-277.20	877.72	588.92	288.81	3.039 ES, SF	
8,300.00	7,362.61	7,379.61	7,379.61	28.95	259.73	90.02	1,182.88	-277.20	883.59	594.37	289.23	3.055	
8,400.00	7,362.92	7,379.92	7,379.92	29.47	259.74	90.04	1,182.88	-277.20	900.60	610.95	289.65	3.109	
8,500.00	7,363.23	7,380.23	7,380.23	30.09	259.75	90.06	1,182.88	-277.20	928.13	638.08	290.05	3.200	
8,600.00	7,363.53	7,380.53	7,380.53	30.78	259.76	90.08	1,182.88	-277.20	965.28	674.86	290.42	3.324	
8,700.00	7,363.84	7,380.84	7,380.84	31.54	259.77	90.10	1,182.88	-277.20	1,011.00	720.26	290.74	3.477	
8,800.00	7,364.15	7,381.15	7,381.15	32.37	259.78	90.12	1,182.88	-277.20	1,064.17	773.16	291.01	3.657	
8,900.00	7,364.46	7,381.46	7,381.46	33.27	259.79	90.14	1,182.88	-277.20	1,123.74	832.51	291.23	3.859	
9,000.00	7,364.76	7,381.76	7,381.76	34.22	259.80	90.16	1,182.88	-277.20	1,188.76	897.33	291.42	4.079	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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			
600.00	598.72	586.28	586.28	3.63	15.49	29.71	-201.63	1,203.37	1,195.92	1,176.02	19.90	60.103			
700.00	697.87	683.02	683.02	3.77	15.49	30.00	-201.55	1,203.61	1,184.87	1,164.84	20.03	59.151			
800.00	797.03	780.89	780.89	3.94	15.50	30.31	-201.55	1,203.99	1,174.02	1,153.83	20.19	58.143			
900.00	896.19	879.80	879.80	4.13	15.52	30.63	-201.64	1,204.46	1,163.30	1,142.93	20.37	57.104			
1,000.00	995.34	982.24	982.24	4.34	15.54	30.98	-201.86	1,204.75	1,152.46	1,131.89	20.57	56.017			
1,100.00	1,094.50	1,083.06	1,083.06	4.56	15.56	31.33	-202.16	1,204.77	1,141.42	1,120.63	20.79	54.898			
1,200.00	1,193.65	1,182.59	1,182.59	4.80	15.59	31.68	-202.30	1,204.77	1,130.36	1,109.34	21.02	53.765			
1,300.00	1,292.81	1,276.29	1,276.29	5.05	15.61	32.03	-202.70	1,204.87	1,119.53	1,098.26	21.27	52.635			
1,400.00	1,391.97	1,371.83	1,371.78	5.31	15.65	32.51	-205.50	1,204.89	1,109.20	1,087.67	21.53	51.516			
1,500.00	1,491.12	1,457.50	1,457.24	5.57	15.69	33.13	-211.42	1,204.76	1,099.73	1,077.93	21.80	50.445			
1,600.00	1,590.28	1,553.22	1,552.56	5.85	15.73	33.92	-220.07	1,204.94	1,091.25	1,069.16	22.09	49.397			
1,700.00	1,689.43	1,657.79	1,656.40	6.13	15.79	34.97	-232.26	1,203.62	1,082.32	1,059.91	22.41	48.302			
1,800.00	1,788.59	1,736.82	1,734.54	6.41	15.85	35.90	-244.10	1,202.70	1,074.75	1,052.04	22.71	47.316			
1,900.00	1,887.75	1,814.39	1,811.02	6.70	15.92	36.87	-256.97	1,202.73	1,069.27	1,046.45	22.82	46.863			
2,000.00	1,986.90	1,884.00	1,879.66	7.00	15.98	37.72	-268.47	1,204.50	1,066.55	1,043.44	23.11	46.151			
2,036.21	2,022.80	1,907.51	1,902.84	7.10	16.00	37.99	-272.26	1,205.59	1,066.33	1,043.12	23.21	45.943	CC, ES		
2,100.00	2,086.06	1,949.86	1,944.56	7.30	16.04	38.47	-278.99	1,208.24	1,067.00	1,043.62	23.38	45.632			
2,200.00	2,185.21	2,029.62	2,023.11	7.60	16.12	39.29	-290.91	1,215.23	1,070.30	1,046.62	23.69	45.188			
2,300.00	2,284.37	2,115.34	2,107.58	7.90	16.21	40.05	-302.15	1,224.46	1,075.14	1,051.13	24.01	44.780			
2,400.00	2,383.52	2,199.12	2,189.98	8.21	16.32	40.80	-313.62	1,234.39	1,081.47	1,057.14	24.33	44.445			
2,500.00	2,482.68	2,274.47	2,263.82	8.52	16.43	41.51	-325.05	1,244.14	1,089.68	1,065.06	24.63	44.250			
2,600.00	2,581.84	2,353.63	2,341.04	8.83	16.56	42.24	-337.67	1,256.06	1,100.33	1,075.40	24.93	44.134			
2,700.00	2,680.99	2,446.26	2,431.30	9.14	16.72	43.03	-352.07	1,271.15	1,112.24	1,086.94	25.30	43.955			
2,800.00	2,780.15	2,526.99	2,509.79	9.45	16.87	43.75	-365.56	1,284.33	1,125.00	1,099.37	25.62	43.905	SF		
2,900.00	2,879.30	2,608.28	2,588.38	9.77	17.06	44.50	-380.43	1,298.85	1,140.00	1,114.05	25.95	43.928			
3,000.00	2,978.46	2,694.77	2,671.80	10.09	17.27	45.31	-397.16	1,314.39	1,155.94	1,129.62	26.32	43.926			
3,100.00	3,077.62	2,776.44	2,750.19	10.41	17.51	46.10	-414.17	1,329.72	1,173.55	1,146.90	26.66	44.023			
3,200.00	3,176.77	2,867.79	2,837.64	10.73	17.79	46.98	-433.92	1,347.27	1,192.28	1,165.21	27.07	44.050			

Hewlett-Packard  
Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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
0.00	0.00	0.00	0.00	3.28	3.28	101.43	-205.07	1,014.42	1,035.00				
100.00	100.00	89.00	89.00	3.28	3.56	101.43	-205.07	1,014.42	1,034.94	1,027.31	7.63	135.648	
200.00	200.00	189.00	189.00	3.31	5.73	101.43	-205.07	1,014.42	1,034.94	1,025.12	9.82	105.349	
300.00	299.98	288.98	288.98	3.35	8.87	30.84	-205.07	1,014.42	1,033.45	1,020.44	13.01	79.455	
400.00	399.84	388.84	388.84	3.42	12.22	31.04	-205.07	1,014.42	1,028.95	1,012.52	16.43	62.625	
500.00	499.45	488.64	488.64	3.51	14.99	31.37	-205.05	1,014.42	1,021.49	1,002.20	19.29	52.961	
600.00	598.72	588.19	588.19	3.63	16.12	31.79	-204.80	1,014.44	1,011.16	990.62	20.54	49.235	
700.00	697.87	687.15	687.15	3.77	16.13	32.18	-204.88	1,014.38	1,000.10	979.43	20.67	48.380	
800.00	797.03	786.13	786.13	3.94	16.14	32.59	-205.12	1,014.31	989.10	968.27	20.83	47.480	
900.00	896.19	885.22	885.21	4.13	16.15	33.01	-205.18	1,014.29	978.17	957.16	21.01	46.553	
1,000.00	995.34	984.43	984.43	4.34	16.17	33.44	-205.48	1,014.21	967.29	946.08	21.21	45.598	
1,100.00	1,094.50	1,083.98	1,083.98	4.56	16.20	33.91	-206.11	1,014.03	956.45	935.02	21.43	44.627	
1,200.00	1,193.65	1,183.83	1,183.82	4.80	16.22	34.39	-206.76	1,013.77	945.61	923.94	21.67	43.643	
1,300.00	1,292.81	1,282.56	1,282.55	5.05	16.25	34.89	-207.48	1,013.46	934.80	912.88	21.92	42.651	
1,400.00	1,391.97	1,381.67	1,381.66	5.31	16.29	35.41	-208.52	1,013.13	924.12	901.94	22.18	41.664	
1,500.00	1,491.12	1,486.35	1,486.32	5.57	16.33	35.99	-209.71	1,012.37	913.19	890.73	22.46	40.659	
1,600.00	1,590.28	1,600.55	1,600.49	5.85	16.38	36.68	-211.26	1,010.39	901.48	878.73	22.75	39.626	
1,700.00	1,689.43	1,724.81	1,724.51	6.13	16.45	37.69	-215.50	1,004.14	887.35	864.31	23.04	38.508	
1,800.00	1,788.59	1,838.99	1,838.07	6.41	16.52	38.95	-222.86	994.86	871.53	848.18	23.35	37.322	
1,900.00	1,887.75	1,963.85	1,961.78	6.70	16.61	40.53	-231.51	980.38	852.91	829.47	23.44	36.380	
2,000.00	1,986.90	2,071.00	2,067.22	7.00	16.71	42.22	-241.76	964.43	832.69	808.90	23.79	34.997	
2,100.00	2,086.06	2,185.62	2,179.21	7.30	16.86	44.41	-255.55	944.31	811.72	787.56	24.16	33.597	
2,200.00	2,185.21	2,292.98	2,283.01	7.60	17.02	46.84	-270.55	921.33	788.96	764.37	24.58	32.094	
2,300.00	2,284.37	2,369.51	2,356.54	7.90	17.17	48.80	-283.05	904.24	767.70	742.60	25.10	30.588	
2,400.00	2,383.52	2,449.25	2,433.07	8.21	17.31	51.01	-297.97	887.55	750.06	724.45	25.62	29.282	
2,500.00	2,482.68	2,545.60	2,525.60	8.52	17.51	53.77	-316.21	867.83	734.66	708.50	26.15	28.092	
2,600.00	2,581.84	2,653.58	2,628.92	8.83	17.77	57.06	-336.40	843.85	719.66	692.92	26.73	26.920	
2,700.00	2,680.99	2,760.45	2,730.67	9.14	18.07	60.53	-355.45	817.36	704.30	676.93	27.37	25.732	
2,800.00	2,780.15	2,852.80	2,817.98	9.45	18.37	63.78	-372.55	792.58	690.27	662.21	28.06	24.601	
2,900.00	2,879.30	2,938.74	2,899.43	9.77	18.64	66.85	-387.99	769.93	678.80	650.07	28.73	23.627	
3,000.00	2,978.46	3,016.35	2,973.57	10.09	18.89	69.54	-401.50	751.40	671.06	641.70	29.36	22.857	
3,100.00	3,077.62	3,088.99	3,042.96	10.41	19.13	72.09	-415.71	735.29	668.23	638.28	29.95	22.314	
3,131.74	3,109.09	3,120.62	3,073.09	10.51	19.25	73.23	-422.29	728.26	668.16	637.98	30.18	22.141 CC	
3,200.00	3,176.77	3,192.58	3,141.49	10.73	19.53	75.85	-437.10	711.52	668.45	637.76	30.69	21.781	
3,300.00	3,275.93	3,305.45	3,249.31	11.05	19.95	79.85	-456.97	684.72	668.50	637.05	31.45	21.254 ES	
3,400.00	3,375.08	3,395.88	3,336.17	11.37	20.28	82.93	-470.85	663.79	669.51	637.43	32.08	20.872	
3,500.00	3,474.24	3,486.25	3,423.57	11.69	20.60	85.80	-484.38	645.22	673.45	640.79	32.66	20.619	
3,600.00	3,573.39	3,578.33	3,513.00	12.01	20.93	88.57	-497.66	627.72	679.42	646.19	33.23	20.444	
3,700.00	3,672.55	3,689.19	3,621.26	12.34	21.31	91.63	-511.94	608.78	686.37	652.49	33.87	20.263	
3,800.00	3,771.71	3,773.40	3,704.02	12.66	21.57	93.71	-521.78	596.69	694.33	660.01	34.32	20.228	
3,900.00	3,870.86	3,867.04	3,795.48	12.99	21.91	96.20	-533.66	580.57	703.96	669.12	34.85	20.202	
4,000.00	3,970.02	3,947.32	3,872.80	13.31	22.26	98.63	-545.63	562.62	716.38	681.10	35.29	20.302	
4,100.00	4,069.17	4,036.72	3,958.29	13.64	22.70	101.40	-559.84	540.66	731.41	695.63	35.78	20.440	
4,200.00	4,168.33	4,113.39	4,031.29	13.97	23.09	103.75	-573.12	521.38	749.68	713.54	36.14	20.744	
4,300.00	4,267.49	4,219.75	4,132.60	14.29	23.62	106.85	-591.52	494.73	769.87	733.14	36.73	20.962	
4,400.00	4,366.64	4,355.92	4,263.95	14.62	24.23	110.34	-610.08	464.13	788.35	750.86	37.49	21.030	
4,500.00	4,465.80	4,438.44	4,344.35	14.95	24.57	112.19	-619.34	448.07	805.61	767.77	37.83	21.293	
4,600.00	4,564.95	4,567.41	4,470.65	15.28	25.06	114.77	-632.73	425.78	822.94	784.48	38.46	21.398	
4,700.00	4,664.11	4,679.18	4,581.22	15.61	25.40	116.56	-641.24	411.90	837.75	798.82	38.93	21.519	
4,800.00	4,763.26	4,803.76	4,705.12	15.94	25.71	118.17	-648.78	401.38	851.10	811.68	39.42	21.588	
4,900.00	4,862.42	4,901.66	4,802.71	16.27	25.92	119.29	-653.21	395.00	862.98	823.18	39.80	21.683	
5,000.00	4,961.58	4,996.98	4,897.77	16.60	26.11	120.25	-658.16	390.27	875.52	835.35	40.17	21.798	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD												<b>Offset Well Error:</b>	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	5,060.73	5,102.01	5,002.62	16.93	26.31	121.13	-663.57	387.28	887.81	847.25	40.56	21.887	
5,200.00	5,159.89	5,250.72	5,151.23	17.26	26.53	122.36	-666.73	383.81	897.31	856.28	41.04	21.865	
5,300.00	5,259.04	5,355.83	5,256.33	17.59	26.66	123.15	-665.73	383.07	903.60	862.18	41.41	21.820	
5,400.00	5,358.20	5,454.59	5,355.09	17.92	26.76	123.84	-664.82	383.08	909.90	868.12	41.78	21.778	
5,500.00	5,457.36	5,549.45	5,449.94	18.25	26.87	124.47	-664.24	383.40	916.55	874.40	42.15	21.744	
5,600.00	5,556.51	5,643.22	5,543.71	18.58	26.98	125.08	-664.22	383.64	923.89	881.37	42.52	21.728	
5,700.00	5,655.67	5,750.14	5,650.62	18.91	27.09	125.70	-664.38	384.96	931.24	888.34	42.90	21.706	
5,800.00	5,754.82	5,849.06	5,749.49	19.24	27.20	126.16	-664.35	387.98	937.98	894.69	43.29	21.668	
5,900.00	5,853.98	5,933.24	5,833.66	19.58	27.30	126.61	-664.92	389.30	945.90	902.25	43.65	21.668	
6,000.00	5,953.13	6,024.07	5,924.48	19.91	27.43	127.19	-666.32	388.69	955.38	911.35	44.03	21.699	
6,100.00	6,052.29	6,127.74	6,028.13	20.24	27.58	127.85	-667.81	387.88	964.93	920.50	44.44	21.715	
6,200.00	6,151.45	6,227.30	6,127.68	20.57	27.73	128.44	-669.04	387.55	974.26	929.43	44.83	21.730	
6,300.00	6,250.60	6,325.20	6,225.58	20.90	27.87	128.99	-670.53	387.73	983.78	938.55	45.23	21.749	
6,400.00	6,349.76	6,428.62	6,328.99	21.24	28.02	129.54	-672.02	388.15	993.25	947.60	45.65	21.759	
6,500.00	6,448.91	6,530.99	6,431.35	21.57	28.16	130.09	-672.99	388.47	1,002.37	956.31	46.06	21.763	
6,600.00	6,548.07	6,630.49	6,530.84	21.90	28.30	130.61	-673.83	388.90	1,011.44	964.97	46.47	21.767	
6,700.03	6,647.26	6,729.91	6,630.26	22.24	28.44	131.12	-674.71	389.48	1,020.57	973.68	46.88	21.769	
6,800.00	6,746.93	6,829.69	6,730.03	22.46	28.58	-119.61	-675.62	390.18	1,026.82	979.58	47.24	21.734	
6,900.00	6,846.10	6,929.86	6,830.19	22.61	28.73	-81.53	-676.47	390.88	1,027.22	979.58	47.64	21.561	
7,000.00	6,942.28	7,027.33	6,927.66	22.73	28.87	-77.80	-677.10	391.36	1,022.23	974.12	48.11	21.248	
7,100.00	7,033.11	7,120.25	7,020.58	22.85	29.00	-78.62	-677.50	391.83	1,013.03	964.37	48.66	20.817	
7,200.00	7,116.36	7,204.42	7,104.74	23.01	29.12	-81.18	-677.72	392.36	1,001.52	952.18	49.34	20.298	
7,300.00	7,189.97	7,276.66	7,176.99	23.26	29.23	-84.36	-677.93	392.86	990.28	940.09	50.19	19.732	
7,400.00	7,252.13	7,337.47	7,237.79	23.68	29.32	-87.48	-678.16	393.31	982.01	930.77	51.24	19.164	
7,490.26	7,297.13	7,381.98	7,282.30	24.28	29.38	-89.75	-678.35	393.65	979.21	926.81	52.40	18.689	
7,500.00	7,301.31	7,386.13	7,286.45	24.34	29.39	-89.95	-678.37	393.69	979.24	926.73	52.52	18.646	
7,600.00	7,336.30	7,420.59	7,320.91	25.28	29.44	-91.24	-678.50	394.01	984.08	930.11	53.97	18.235	
7,700.00	7,356.23	7,439.66	7,339.97	26.48	29.47	-91.00	-678.57	394.20	997.79	942.31	55.48	17.985	
7,800.00	7,361.08	7,443.47	7,343.79	27.71	29.47	-89.68	-678.58	394.24	1,020.59	963.57	57.02	17.900 SF	
7,900.00	7,361.38	7,442.72	7,343.04	27.76	29.47	-89.64	-678.58	394.23	1,052.25	995.06	57.20	18.397	
8,000.00	7,361.69	7,441.99	7,342.31	27.91	29.47	-89.60	-678.58	394.22	1,092.19	1,034.82	57.36	19.040	
8,100.00	7,362.00	7,441.25	7,341.57	28.16	29.47	-89.55	-678.58	394.21	1,139.52	1,082.01	57.51	19.814	
8,200.00	7,362.31	7,440.53	7,340.84	28.51	29.47	-89.51	-678.57	394.21	1,193.37	1,135.73	57.65	20.701	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	101.07	-203.26	1,038.66	1,058.42					
100.00	100.00	89.00	89.00	3.28	3.56	101.07	-203.26	1,038.66	1,058.36	1,050.73	7.63	138.718		
200.00	200.00	189.00	189.00	3.31	5.73	101.07	-203.26	1,038.66	1,058.36	1,048.54	9.82	107.733		
300.00	299.98	288.98	288.98	3.35	8.87	30.49	-203.26	1,038.66	1,056.86	1,043.85	13.01	81.255		
400.00	399.84	388.84	388.84	3.42	12.22	30.68	-203.26	1,038.66	1,052.35	1,035.92	16.43	64.049		
500.00	499.45	488.45	488.45	3.51	15.65	31.00	-203.26	1,038.66	1,044.86	1,024.91	19.95	52.376		
600.00	598.72	587.72	587.72	3.63	19.11	31.42	-203.26	1,038.66	1,034.53	1,011.01	23.52	43.987		
700.00	697.87	686.87	686.87	3.77	22.58	31.79	-203.26	1,038.66	1,023.46	996.34	27.12	37.742		
800.00	797.03	786.03	786.03	3.94	26.06	32.18	-203.26	1,038.66	1,012.44	981.69	30.75	32.928		
900.00	896.19	885.19	885.19	4.13	29.54	32.57	-203.26	1,038.66	1,001.46	967.06	34.40	29.110		
1,000.00	995.34	984.34	984.34	4.34	33.04	32.98	-203.26	1,038.66	990.53	952.45	38.08	26.013		
1,100.00	1,094.50	1,083.50	1,083.50	4.56	36.54	33.39	-203.26	1,038.66	979.65	937.88	41.77	23.452		
1,200.00	1,193.65	1,182.65	1,182.65	4.80	40.04	33.81	-203.26	1,038.66	968.83	923.34	45.48	21.302		
1,300.00	1,292.81	1,281.81	1,281.81	5.05	43.54	34.24	-203.26	1,038.66	958.05	908.85	49.20	19.472		
1,400.00	1,391.97	1,380.97	1,380.97	5.31	47.04	34.68	-203.26	1,038.66	947.33	894.40	52.93	17.896		
1,500.00	1,491.12	1,480.12	1,480.12	5.57	50.55	35.13	-203.26	1,038.66	936.67	879.99	56.68	16.527		
1,600.00	1,590.28	1,579.28	1,579.28	5.85	54.06	35.59	-203.26	1,038.66	926.06	865.64	60.43	15.325		
1,700.00	1,689.43	1,678.43	1,678.43	6.13	57.56	36.06	-203.26	1,038.66	915.52	851.34	64.18	14.264		
1,800.00	1,788.59	1,777.59	1,777.59	6.41	61.07	36.54	-203.26	1,038.66	905.04	837.09	67.95	13.319		
1,900.00	1,887.75	1,876.75	1,876.75	6.70	64.58	37.04	-203.26	1,038.66	894.62	823.11	71.51	12.510		
2,000.00	1,986.90	1,975.90	1,975.90	7.00	68.09	37.54	-203.26	1,038.66	884.28	808.99	75.29	11.745		
2,100.00	2,086.06	2,075.06	2,075.06	7.30	71.60	38.06	-203.26	1,038.66	874.00	794.93	79.07	11.054		
2,200.00	2,185.21	2,174.21	2,174.21	7.60	75.11	38.58	-203.26	1,038.66	863.79	780.94	82.85	10.426		
2,300.00	2,284.37	2,273.37	2,273.37	7.90	78.62	39.13	-203.26	1,038.66	853.66	767.02	86.64	9.853		
2,400.00	2,383.52	2,372.52	2,372.52	8.21	82.13	39.68	-203.26	1,038.66	843.61	753.17	90.44	9.328		
2,500.00	2,482.68	2,471.68	2,471.68	8.52	85.64	40.25	-203.26	1,038.66	833.63	739.40	94.23	8.847		
2,600.00	2,581.84	2,570.84	2,570.84	8.83	89.15	40.83	-203.26	1,038.66	823.75	725.71	98.03	8.403		
2,700.00	2,680.99	2,669.99	2,669.99	9.14	92.66	41.42	-203.26	1,038.66	813.94	712.11	101.84	7.993		
2,800.00	2,780.15	2,769.15	2,769.15	9.45	96.17	42.03	-203.26	1,038.66	804.23	698.59	105.64	7.613		
2,900.00	2,879.30	2,868.30	2,868.30	9.77	99.68	42.65	-203.26	1,038.66	794.61	685.16	109.45	7.260		
3,000.00	2,978.46	2,967.46	2,967.46	10.09	103.19	43.29	-203.26	1,038.66	785.08	671.82	113.26	6.932		
3,100.00	3,077.62	3,066.62	3,066.62	10.41	106.71	43.95	-203.26	1,038.66	775.66	658.58	117.08	6.625		
3,200.00	3,176.77	3,165.77	3,165.77	10.73	110.22	44.62	-203.26	1,038.66	766.34	645.45	120.89	6.339		
3,300.00	3,275.93	3,264.93	3,264.93	11.05	113.73	45.30	-203.26	1,038.66	757.12	632.41	124.71	6.071		
3,400.00	3,375.08	3,364.08	3,364.08	11.37	117.24	46.01	-203.26	1,038.66	748.02	619.49	128.53	5.820		
3,500.00	3,474.24	3,463.24	3,463.24	11.69	120.75	46.73	-203.26	1,038.66	739.03	606.68	132.36	5.584		
3,600.00	3,573.39	3,562.39	3,562.39	12.01	124.27	47.46	-203.26	1,038.66	730.17	593.98	136.19	5.362		
3,700.00	3,672.55	3,661.55	3,661.55	12.34	127.78	48.22	-203.26	1,038.66	721.42	581.41	140.01	5.153		
3,800.00	3,771.71	3,760.71	3,760.71	12.66	131.29	48.99	-203.26	1,038.66	712.81	568.96	143.85	4.955		
3,900.00	3,870.86	3,859.86	3,859.86	12.99	134.80	49.78	-203.26	1,038.66	704.33	556.65	147.68	4.769		
4,000.00	3,970.02	3,959.02	3,959.02	13.31	138.31	50.59	-203.26	1,038.66	695.98	544.47	151.51	4.594		
4,100.00	4,069.17	4,058.17	4,058.17	13.64	141.83	51.42	-203.26	1,038.66	687.78	532.43	155.35	4.427		
4,200.00	4,168.33	4,157.33	4,157.33	13.97	145.34	52.27	-203.26	1,038.66	679.73	520.54	159.19	4.270		
4,300.00	4,267.49	4,256.49	4,256.49	14.29	148.85	53.14	-203.26	1,038.66	671.83	508.80	163.04	4.121		
4,400.00	4,366.64	4,355.64	4,355.64	14.62	152.36	54.04	-203.26	1,038.66	664.10	497.21	166.88	3.979		
4,500.00	4,465.80	4,454.80	4,454.80	14.95	155.88	54.95	-203.26	1,038.66	656.52	485.79	170.73	3.845		
4,600.00	4,564.95	4,553.95	4,553.95	15.28	159.39	55.88	-203.26	1,038.66	649.12	474.54	174.58	3.718		
4,700.00	4,664.11	4,653.11	4,653.11	15.61	162.90	56.83	-203.26	1,038.66	641.89	463.46	178.43	3.597		
4,800.00	4,763.26	4,752.26	4,752.26	15.94	166.41	57.80	-203.26	1,038.66	634.85	452.57	182.28	3.483		
4,900.00	4,862.42	4,851.42	4,851.42	16.27	169.93	58.80	-203.26	1,038.66	627.99	441.85	186.14	3.374		
5,000.00	4,961.58	4,950.58	4,950.58	16.60	173.44	59.81	-203.26	1,038.66	621.33	431.34	190.00	3.270		
5,100.00	5,060.73	5,049.73	5,049.73	16.93	176.95	60.85	-203.26	1,038.66	614.87	421.02	193.86	3.172		

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b>		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	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	5,159.89	5,148.89	5,148.89	17.26	180.47	61.91	-203.26	1,038.66	608.62	410.90	197.72	3.078	
5,300.00	5,259.04	5,248.04	5,248.04	17.59	183.98	62.99	-203.26	1,038.66	602.59	401.00	201.58	2.989	
5,400.00	5,358.20	5,347.20	5,347.20	17.92	187.49	64.09	-203.26	1,038.66	596.77	391.32	205.45	2.905	
5,500.00	5,457.36	5,446.36	5,446.36	18.25	191.00	65.22	-203.26	1,038.66	591.18	381.87	209.31	2.824	
5,600.00	5,556.51	5,545.51	5,545.51	18.58	194.52	66.36	-203.26	1,038.66	585.82	372.64	213.18	2.748	
5,700.00	5,655.67	5,644.67	5,644.67	18.91	198.03	67.52	-203.26	1,038.66	580.71	363.66	217.05	2.675	
5,800.00	5,754.82	5,743.82	5,743.82	19.24	201.54	68.71	-203.26	1,038.66	575.84	354.92	220.92	2.607	
5,900.00	5,853.98	5,842.98	5,842.98	19.58	205.06	69.91	-203.26	1,038.66	571.22	346.43	224.80	2.541	
6,000.00	5,953.13	5,942.13	5,942.13	19.91	208.57	71.13	-203.26	1,038.66	566.87	338.20	228.67	2.479	
6,100.00	6,052.29	6,041.29	6,041.29	20.24	212.08	72.37	-203.26	1,038.66	562.78	330.23	232.54	2.420	
6,200.00	6,151.45	6,140.45	6,140.45	20.57	215.59	73.63	-203.26	1,038.66	558.96	322.54	236.42	2.364	
6,300.00	6,250.60	6,239.60	6,239.60	20.90	219.11	74.90	-203.26	1,038.66	555.41	315.12	240.29	2.311	
6,400.00	6,349.76	6,338.76	6,338.76	21.24	222.62	76.19	-203.26	1,038.66	552.15	307.98	244.17	2.261	
6,500.00	6,448.91	6,437.91	6,437.91	21.57	226.13	77.49	-203.26	1,038.66	549.17	301.13	248.04	2.214	
6,600.00	6,548.07	6,537.07	6,537.07	21.90	229.65	78.81	-203.26	1,038.66	546.49	294.57	251.92	2.169	
6,700.03	6,647.26	6,636.26	6,636.26	22.24	233.16	80.14	-203.26	1,038.66	544.10	288.31	255.79	2.127	
6,728.30	6,675.36	6,664.36	6,664.36	22.30	234.16	90.00	-203.26	1,038.66	543.78	286.93	256.86	2.117	CC
6,800.00	6,746.93	6,735.93	6,735.93	22.46	236.69	-170.44	-203.26	1,038.66	545.76	286.20	259.56	2.103	ES, SF
6,900.00	6,846.10	6,835.10	6,835.10	22.61	240.20	-131.73	-203.26	1,038.66	555.04	291.83	263.21	2.109	
7,000.00	6,942.28	6,931.28	6,931.28	22.73	243.61	-126.82	-203.26	1,038.66	572.25	305.57	266.68	2.146	
7,100.00	7,033.11	7,022.11	7,022.11	22.85	246.83	-125.68	-203.26	1,038.66	598.31	328.39	269.91	2.217	
7,200.00	7,116.36	7,105.36	7,105.36	23.01	249.78	-125.34	-203.26	1,038.66	634.29	361.44	272.84	2.325	
7,300.00	7,189.97	7,178.97	7,178.97	23.26	252.39	-124.64	-203.26	1,038.66	680.94	405.52	275.42	2.472	
7,400.00	7,252.13	7,241.13	7,241.13	23.68	254.59	-122.78	-203.26	1,038.66	738.35	460.76	277.60	2.660	
7,500.00	7,301.31	7,309.69	7,290.31	24.34	257.02	-118.93	-203.26	1,038.66	805.78	525.76	280.03	2.878	
7,600.00	7,336.30	7,325.30	7,325.30	25.28	257.57	-112.13	-203.26	1,038.66	881.74	601.14	280.60	3.142	
7,700.00	7,356.23	7,345.23	7,345.23	26.48	258.28	-101.38	-203.26	1,038.66	964.14	682.80	281.34	3.427	
7,800.00	7,361.08	7,350.08	7,350.08	27.71	258.45	-90.32	-203.26	1,038.66	1,050.58	765.46	285.11	3.685	
7,900.00	7,361.38	7,350.38	7,350.38	27.76	258.46	-90.36	-203.26	1,038.66	1,139.29	854.20	285.09	3.996	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	100.44	-200.34	1,087.14	1,105.50					
100.00	100.00	89.00	89.00	3.28	3.56	100.44	-200.34	1,087.14	1,105.45	1,097.82	7.63	144.889		
200.00	200.00	189.00	189.00	3.31	5.73	100.44	-200.34	1,087.14	1,105.45	1,095.62	9.82	112.526		
300.00	299.98	288.98	288.98	3.35	8.87	29.85	-200.34	1,087.14	1,103.93	1,090.92	13.01	84.874		
400.00	399.84	388.84	388.84	3.42	12.22	30.03	-200.34	1,087.14	1,099.39	1,082.96	16.43	66.912		
500.00	499.45	488.45	488.45	3.51	15.65	30.34	-200.34	1,087.14	1,091.85	1,071.90	19.95	54.731		
600.00	598.72	587.72	587.72	3.63	19.11	30.73	-200.34	1,087.14	1,081.45	1,057.93	23.52	45.982		
700.00	697.87	686.87	686.87	3.77	22.58	31.09	-200.34	1,087.14	1,070.30	1,043.19	27.12	39.469		
800.00	797.03	786.03	786.03	3.94	26.06	31.45	-200.34	1,087.14	1,059.19	1,028.45	30.75	34.449		
900.00	896.19	885.19	885.19	4.13	29.54	31.82	-200.34	1,087.14	1,048.13	1,013.73	34.40	30.467		
1,000.00	995.34	984.34	984.34	4.34	33.04	32.20	-200.34	1,087.14	1,037.11	999.03	38.08	27.237		
1,100.00	1,094.50	1,083.50	1,083.50	4.56	36.54	32.58	-200.34	1,087.14	1,026.13	984.36	41.77	24.566		
1,200.00	1,193.65	1,182.65	1,182.65	4.80	40.04	32.97	-200.34	1,087.14	1,015.20	969.73	45.48	22.323		
1,300.00	1,292.81	1,281.81	1,281.81	5.05	43.54	33.38	-200.34	1,087.14	1,004.32	955.12	49.20	20.413		
1,400.00	1,391.97	1,380.97	1,380.97	5.31	47.04	33.79	-200.34	1,087.14	993.49	940.56	52.93	18.770		
1,500.00	1,491.12	1,480.12	1,480.12	5.57	50.55	34.20	-200.34	1,087.14	982.72	926.04	56.67	17.340		
1,600.00	1,590.28	1,579.28	1,579.28	5.85	54.06	34.63	-200.34	1,087.14	971.99	911.57	60.42	16.087		
1,700.00	1,689.43	1,678.43	1,678.43	6.13	57.56	35.07	-200.34	1,087.14	961.32	897.14	64.18	14.979		
1,800.00	1,788.59	1,777.59	1,777.59	6.41	61.07	35.52	-200.34	1,087.14	950.71	882.77	67.94	13.993		
1,900.00	1,887.75	1,876.75	1,876.75	6.70	64.58	35.98	-200.34	1,087.14	940.15	868.65	71.50	13.148		
2,000.00	1,986.90	1,975.90	1,975.90	7.00	68.09	36.44	-200.34	1,087.14	929.66	854.38	75.28	12.350		
2,100.00	2,086.06	2,075.06	2,075.06	7.30	71.60	36.92	-200.34	1,087.14	919.23	840.17	79.06	11.627		
2,200.00	2,185.21	2,174.21	2,174.21	7.60	75.11	37.41	-200.34	1,087.14	908.87	826.03	82.84	10.971		
2,300.00	2,284.37	2,273.37	2,273.37	7.90	78.62	37.91	-200.34	1,087.14	898.57	811.94	86.63	10.373		
2,400.00	2,383.52	2,372.52	2,372.52	8.21	82.13	38.43	-200.34	1,087.14	888.34	797.92	90.42	9.824		
2,500.00	2,482.68	2,471.68	2,471.68	8.52	85.64	38.95	-200.34	1,087.14	878.19	783.97	94.22	9.321		
2,600.00	2,581.84	2,570.84	2,570.84	8.83	89.15	39.49	-200.34	1,087.14	868.11	770.10	98.02	8.857		
2,700.00	2,680.99	2,669.99	2,669.99	9.14	92.66	40.03	-200.34	1,087.14	858.11	756.29	101.82	8.428		
2,800.00	2,780.15	2,769.15	2,769.15	9.45	96.17	40.60	-200.34	1,087.14	848.19	742.57	105.62	8.030		
2,900.00	2,879.30	2,868.30	2,868.30	9.77	99.68	41.17	-200.34	1,087.14	838.35	728.92	109.43	7.661		
3,000.00	2,978.46	2,967.46	2,967.46	10.09	103.19	41.76	-200.34	1,087.14	828.60	715.36	113.24	7.317		
3,100.00	3,077.62	3,066.62	3,066.62	10.41	106.71	42.36	-200.34	1,087.14	818.93	701.88	117.05	6.996		
3,200.00	3,176.77	3,165.77	3,165.77	10.73	110.22	42.98	-200.34	1,087.14	809.36	688.50	120.86	6.696		
3,300.00	3,275.93	3,264.93	3,264.93	11.05	113.73	43.61	-200.34	1,087.14	799.89	675.21	124.68	6.415		
3,400.00	3,375.08	3,364.08	3,364.08	11.37	117.24	44.25	-200.34	1,087.14	790.51	662.01	128.50	6.152		
3,500.00	3,474.24	3,463.24	3,463.24	11.69	120.75	44.91	-200.34	1,087.14	781.24	648.91	132.32	5.904		
3,600.00	3,573.39	3,562.39	3,562.39	12.01	124.27	45.59	-200.34	1,087.14	772.07	635.92	136.15	5.671		
3,700.00	3,672.55	3,661.55	3,661.55	12.34	127.78	46.28	-200.34	1,087.14	763.01	623.04	139.97	5.451		
3,800.00	3,771.71	3,760.71	3,760.71	12.66	131.29	46.99	-200.34	1,087.14	754.07	610.27	143.80	5.244		
3,900.00	3,870.86	3,859.86	3,859.86	12.99	134.80	47.72	-200.34	1,087.14	745.25	597.61	147.63	5.048		
4,000.00	3,970.02	3,959.02	3,959.02	13.31	138.31	48.46	-200.34	1,087.14	736.54	585.08	151.46	4.863		
4,100.00	4,069.17	4,058.17	4,058.17	13.64	141.83	49.22	-200.34	1,087.14	727.97	572.67	155.30	4.688		
4,200.00	4,168.33	4,157.33	4,157.33	13.97	145.34	50.00	-200.34	1,087.14	719.52	560.39	159.14	4.521		
4,300.00	4,267.49	4,256.49	4,256.49	14.29	148.85	50.79	-200.34	1,087.14	711.22	548.24	162.97	4.364		
4,400.00	4,366.64	4,355.64	4,355.64	14.62	152.36	51.61	-200.34	1,087.14	703.05	536.24	166.82	4.215		
4,500.00	4,465.80	4,454.80	4,454.80	14.95	155.88	52.44	-200.34	1,087.14	695.03	524.37	170.66	4.073		
4,600.00	4,564.95	4,553.95	4,553.95	15.28	159.39	53.29	-200.34	1,087.14	687.16	512.66	174.51	3.938		
4,700.00	4,664.11	4,653.11	4,653.11	15.61	162.90	54.17	-200.34	1,087.14	679.45	501.10	178.35	3.810		
4,800.00	4,763.26	4,752.26	4,752.26	15.94	166.41	55.06	-200.34	1,087.14	671.90	489.69	182.20	3.688		
4,900.00	4,862.42	4,851.42	4,851.42	16.27	169.93	55.97	-200.34	1,087.14	664.51	478.46	186.05	3.572		
5,000.00	4,961.58	4,950.58	4,950.58	16.60	173.44	56.90	-200.34	1,087.14	657.30	467.39	189.91	3.461		
5,100.00	5,060.73	5,049.73	5,049.73	16.93	176.95	57.85	-200.34	1,087.14	650.27	456.50	193.77	3.356		

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	5,159.89	5,148.89	5,148.89	17.26	180.47	58.82	-200.34	1,087.14	643.42	445.80	197.62	3.256	
5,300.00	5,259.04	5,248.04	5,248.04	17.59	183.98	59.81	-200.34	1,087.14	636.76	435.28	201.48	3.160	
5,400.00	5,358.20	5,347.20	5,347.20	17.92	187.49	60.83	-200.34	1,087.14	630.30	424.96	205.35	3.069	
5,500.00	5,457.36	5,446.36	5,446.36	18.25	191.00	61.86	-200.34	1,087.14	624.04	414.83	209.21	2.983	
5,600.00	5,556.51	5,545.51	5,545.51	18.58	194.52	62.91	-200.34	1,087.14	617.99	404.92	213.08	2.900	
5,700.00	5,655.67	5,644.67	5,644.67	18.91	198.03	63.99	-200.34	1,087.14	612.16	395.21	216.94	2.822	
5,800.00	5,754.82	5,743.82	5,743.82	19.24	201.54	65.08	-200.34	1,087.14	606.54	385.73	220.81	2.747	
5,900.00	5,853.98	5,842.98	5,842.98	19.58	205.06	66.19	-200.34	1,087.14	601.15	376.47	224.68	2.676	
6,000.00	5,953.13	5,942.13	5,942.13	19.91	208.57	67.32	-200.34	1,087.14	596.00	367.45	228.55	2.608	
6,100.00	6,052.29	6,041.29	6,041.29	20.24	212.08	68.48	-200.34	1,087.14	591.09	358.66	232.43	2.543	
6,200.00	6,151.45	6,140.45	6,140.45	20.57	215.59	69.65	-200.34	1,087.14	586.42	350.12	236.30	2.482	
6,300.00	6,250.60	6,239.60	6,239.60	20.90	219.11	70.83	-200.34	1,087.14	582.00	341.83	240.17	2.423	
6,400.00	6,349.76	6,338.76	6,338.76	21.24	222.62	72.04	-200.34	1,087.14	577.84	333.79	244.05	2.368	
6,500.00	6,448.91	6,437.91	6,437.91	21.57	226.13	73.26	-200.34	1,087.14	573.94	326.02	247.93	2.315	
6,600.00	6,548.07	6,537.07	6,537.07	21.90	229.65	74.50	-200.34	1,087.14	570.32	318.51	251.80	2.265	
6,700.03	6,647.26	6,636.26	6,636.26	22.24	233.16	75.75	-200.34	1,087.14	566.96	311.28	255.68	2.217	
6,736.13	6,683.16	6,672.16	6,672.16	22.32	234.43	89.99	-200.34	1,087.14	566.38	309.34	257.04	2.203 CC	
6,800.00	6,746.93	6,735.93	6,735.93	22.46	236.69	-174.88	-200.34	1,087.14	568.16	308.70	259.45	2.190 ES, SF	
6,900.00	6,846.10	6,835.10	6,835.10	22.61	240.20	-136.06	-200.34	1,087.14	578.00	314.90	263.10	2.197	
7,000.00	6,942.28	6,931.28	6,931.28	22.73	243.61	-130.89	-200.34	1,087.14	596.69	330.12	266.57	2.238	
7,100.00	7,033.11	7,022.11	7,022.11	22.85	246.83	-129.39	-200.34	1,087.14	624.93	355.13	269.79	2.316	
7,200.00	7,116.36	7,105.36	7,105.36	23.01	249.78	-128.64	-200.34	1,087.14	663.47	390.76	272.71	2.433	
7,300.00	7,189.97	7,178.97	7,178.97	23.26	252.39	-127.52	-200.34	1,087.14	712.80	437.51	275.28	2.589	
7,400.00	7,252.13	7,241.13	7,241.13	23.68	254.59	-125.23	-200.34	1,087.14	772.74	495.29	277.45	2.785	
7,500.00	7,301.31	7,309.69	7,290.31	24.34	257.02	-120.94	-200.34	1,087.14	842.41	562.54	279.87	3.010	
7,600.00	7,336.30	7,325.30	7,325.30	25.28	257.57	-113.60	-200.34	1,087.14	920.27	639.83	280.44	3.281	
7,700.00	7,356.23	7,345.23	7,345.23	26.48	258.28	-102.10	-200.34	1,087.14	1,004.23	723.05	281.18	3.571	
7,800.00	7,361.08	7,350.08	7,350.08	27.71	258.45	-90.34	-200.34	1,087.14	1,091.93	806.86	285.07	3.830	
7,900.00	7,361.38	7,350.38	7,350.38	27.76	258.46	-90.38	-200.34	1,087.14	1,181.63	896.58	285.05	4.145	

# Hewlett-Packard

## Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-141.60	-219.67	-174.13	280.31				
100.00	100.00	101.00	99.00	3.28	3.74	-141.60	-219.67	-174.13	280.31	272.49	7.82	35.849	
200.00	200.00	201.00	199.00	3.31	6.28	-141.60	-219.67	-174.13	280.31	269.94	10.37	27.025 CC	
300.00	299.98	301.02	298.98	3.35	9.48	147.93	-219.67	-174.13	281.79	268.17	13.62	20.689	
400.00	399.84	401.16	398.84	3.42	12.87	148.44	-219.67	-174.13	286.24	269.16	17.08	16.763	
500.00	499.45	501.55	498.45	3.51	16.33	149.25	-219.67	-174.13	293.70	273.07	20.63	14.235	
600.00	598.72	602.28	597.72	3.63	19.84	150.34	-219.67	-174.13	304.14	279.88	24.26	12.536	
700.00	697.87	703.13	696.87	3.77	23.37	151.50	-219.67	-174.13	315.50	287.57	27.93	11.297	
800.00	797.03	803.97	796.03	3.94	26.92	152.58	-219.67	-174.13	326.97	295.35	31.62	10.340	
900.00	896.19	904.81	895.19	4.13	30.47	153.59	-219.67	-174.13	338.55	303.21	35.34	9.580	
1,000.00	995.34	1,005.66	994.34	4.34	34.02	154.53	-219.67	-174.13	350.23	311.15	39.08	8.962	
1,100.00	1,094.50	1,106.50	1,093.50	4.56	37.58	155.41	-219.67	-174.13	362.00	319.17	42.83	8.451	
1,200.00	1,193.65	1,207.35	1,192.65	4.80	41.14	156.24	-219.67	-174.13	373.84	327.24	46.60	8.022	
1,300.00	1,292.81	1,308.19	1,291.81	5.05	44.70	157.01	-219.67	-174.13	385.76	335.38	50.38	7.657	
1,400.00	1,391.97	1,409.03	1,390.97	5.31	48.27	157.74	-219.67	-174.13	397.75	343.58	54.17	7.343	
1,500.00	1,491.12	1,509.88	1,490.12	5.57	51.83	158.43	-219.67	-174.13	409.79	351.82	57.97	7.070	
1,600.00	1,590.28	1,589.28	1,589.28	5.85	54.64	159.08	-219.67	-174.13	421.89	360.88	61.01	6.915	
1,700.00	1,689.43	1,688.43	1,688.43	6.13	58.15	159.69	-219.67	-174.13	434.04	369.27	64.76	6.702	
1,800.00	1,788.59	1,787.59	1,787.59	6.41	61.65	160.26	-219.67	-174.13	446.23	377.71	68.52	6.513	
1,900.00	1,887.75	1,886.75	1,886.75	6.70	65.16	160.81	-219.67	-174.13	458.47	386.40	72.07	6.361	
2,000.00	1,986.90	1,985.90	1,985.90	7.00	68.67	161.33	-219.67	-174.13	470.74	394.91	75.84	6.207	
2,100.00	2,086.06	2,085.06	2,085.06	7.30	72.18	161.82	-219.67	-174.13	483.06	403.45	79.60	6.068	
2,200.00	2,185.21	2,184.21	2,184.21	7.60	75.69	162.29	-219.67	-174.13	495.40	412.02	83.38	5.942	
2,300.00	2,284.37	2,283.37	2,283.37	7.90	79.20	162.73	-219.67	-174.13	507.78	420.63	87.15	5.826	
2,400.00	2,383.52	2,382.52	2,382.52	8.21	82.71	163.16	-219.67	-174.13	520.18	429.25	90.93	5.721	
2,500.00	2,482.68	2,481.68	2,481.68	8.52	86.22	163.56	-219.67	-174.13	532.61	437.91	94.71	5.624	
2,600.00	2,581.84	2,580.84	2,580.84	8.83	89.73	163.95	-219.67	-174.13	545.07	446.58	98.49	5.534	
2,700.00	2,680.99	2,679.99	2,679.99	9.14	93.24	164.31	-219.67	-174.13	557.55	455.28	102.27	5.452	
2,800.00	2,780.15	2,779.15	2,779.15	9.45	96.76	164.67	-219.67	-174.13	570.05	463.99	106.06	5.375	
2,900.00	2,879.30	2,878.30	2,878.30	9.77	100.27	165.00	-219.67	-174.13	582.57	472.73	109.84	5.304	
3,000.00	2,978.46	2,977.46	2,977.46	10.09	103.78	165.33	-219.67	-174.13	595.11	481.48	113.63	5.237	
3,100.00	3,077.62	3,076.62	3,076.62	10.41	107.29	165.64	-219.67	-174.13	607.67	490.25	117.42	5.175	
3,200.00	3,176.77	3,175.77	3,175.77	10.73	110.80	165.93	-219.67	-174.13	620.25	499.04	121.21	5.117	
3,300.00	3,275.93	3,274.93	3,274.93	11.05	114.31	166.22	-219.67	-174.13	632.84	507.84	125.00	5.063	
3,400.00	3,375.08	3,374.08	3,374.08	11.37	117.83	166.49	-219.67	-174.13	645.45	516.65	128.79	5.011	
3,500.00	3,474.24	3,473.24	3,473.24	11.69	121.34	166.76	-219.67	-174.13	658.07	525.48	132.59	4.963	
3,600.00	3,573.39	3,572.39	3,572.39	12.01	124.85	167.01	-219.67	-174.13	670.70	534.32	136.38	4.918	
3,700.00	3,672.55	3,671.55	3,671.55	12.34	128.36	167.25	-219.67	-174.13	683.34	543.17	140.18	4.875	
3,800.00	3,771.71	3,770.71	3,770.71	12.66	131.87	167.49	-219.67	-174.13	696.00	552.03	143.97	4.834	
3,900.00	3,870.86	3,869.86	3,869.86	12.99	135.39	167.72	-219.67	-174.13	708.67	560.90	147.77	4.796	
4,000.00	3,970.02	3,969.02	3,969.02	13.31	138.90	167.93	-219.67	-174.13	721.35	569.78	151.57	4.759	
4,100.00	4,069.17	4,068.17	4,068.17	13.64	142.41	168.15	-219.67	-174.13	734.04	578.68	155.36	4.725	
4,200.00	4,168.33	4,167.33	4,167.33	13.97	145.92	168.35	-219.67	-174.13	746.74	587.58	159.16	4.692	
4,300.00	4,267.49	4,266.49	4,266.49	14.29	149.44	168.55	-219.67	-174.13	759.45	596.49	162.96	4.660	
4,400.00	4,366.64	4,365.64	4,365.64	14.62	152.95	168.74	-219.67	-174.13	772.16	605.40	166.76	4.630	
4,500.00	4,465.80	4,464.80	4,464.80	14.95	156.46	168.92	-219.67	-174.13	784.89	614.33	170.56	4.602	
4,600.00	4,564.95	4,563.95	4,563.95	15.28	159.97	169.10	-219.67	-174.13	797.62	623.26	174.36	4.575	
4,700.00	4,664.11	4,663.11	4,663.11	15.61	163.49	169.28	-219.67	-174.13	810.36	632.20	178.16	4.549	
4,800.00	4,763.26	4,762.26	4,762.26	15.94	167.00	169.44	-219.67	-174.13	823.11	641.15	181.96	4.524	
4,900.00	4,862.42	4,861.42	4,861.42	16.27	170.51	169.61	-219.67	-174.13	835.86	650.10	185.76	4.500	
5,000.00	4,961.58	4,960.58	4,960.58	16.60	174.02	169.76	-219.67	-174.13	848.62	659.06	189.56	4.477	
5,100.00	5,060.73	5,059.73	5,059.73	16.93	177.54	169.92	-219.67	-174.13	861.39	668.02	193.36	4.455	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	5,159.89	5,158.89	5,158.89	17.26	181.05	170.07	-219.67	-174.13	874.16	676.99	197.17	4.434	
5,300.00	5,259.04	5,258.04	5,258.04	17.59	184.56	170.21	-219.67	-174.13	886.94	685.97	200.97	4.413	
5,400.00	5,358.20	5,357.20	5,357.20	17.92	188.08	170.35	-219.67	-174.13	899.72	694.95	204.77	4.394	
5,500.00	5,457.36	5,456.36	5,456.36	18.25	191.59	170.49	-219.67	-174.13	912.51	703.93	208.57	4.375	
5,600.00	5,556.51	5,555.51	5,555.51	18.58	195.10	170.62	-219.67	-174.13	925.30	712.92	212.38	4.357	
5,700.00	5,655.67	5,654.67	5,654.67	18.91	198.61	170.75	-219.67	-174.13	938.10	721.92	216.18	4.339	
5,800.00	5,754.82	5,753.82	5,753.82	19.24	202.13	170.88	-219.67	-174.13	950.90	730.92	219.98	4.323	
5,900.00	5,853.98	5,852.98	5,852.98	19.58	205.64	171.00	-219.67	-174.13	963.71	739.92	223.79	4.306	
6,000.00	5,953.13	5,952.13	5,952.13	19.91	209.15	171.12	-219.67	-174.13	976.52	748.93	227.59	4.291	
6,100.00	6,052.29	6,051.29	6,051.29	20.24	212.67	171.23	-219.67	-174.13	989.33	757.94	231.40	4.276	
6,200.00	6,151.45	6,150.45	6,150.45	20.57	216.18	171.35	-219.67	-174.13	1,002.15	766.95	235.20	4.261	
6,300.00	6,250.60	6,249.60	6,249.60	20.90	219.69	171.46	-219.67	-174.13	1,014.98	775.97	239.00	4.247	
6,400.00	6,349.76	6,348.76	6,348.76	21.24	223.20	171.56	-219.67	-174.13	1,027.80	784.99	242.81	4.233	
6,500.00	6,448.91	6,447.91	6,447.91	21.57	226.72	171.67	-219.67	-174.13	1,040.63	794.02	246.61	4.220	
6,600.00	6,548.07	6,547.07	6,547.07	21.90	230.23	171.77	-219.67	-174.13	1,053.46	803.04	250.42	4.207	
6,700.03	6,647.26	6,646.26	6,646.26	22.24	233.74	171.87	-219.67	-174.13	1,066.30	812.08	254.23	4.194	
6,800.00	6,746.93	6,745.93	6,745.93	22.46	237.28	-79.31	-219.67	-174.13	1,072.21	814.23	257.98	4.156	
6,900.00	6,846.10	6,845.10	6,845.10	22.61	240.79	-41.37	-219.67	-174.13	1,064.28	802.61	261.67	4.067	
7,000.00	6,942.28	6,941.28	6,941.28	22.73	244.20	-37.61	-219.67	-174.13	1,042.88	777.66	265.23	3.932	
7,100.00	7,033.11	7,032.11	7,032.11	22.85	247.41	-38.57	-219.67	-174.13	1,008.90	740.32	268.58	3.756	
7,200.00	7,116.36	7,115.36	7,115.36	23.01	250.36	-42.08	-219.67	-174.13	963.69	692.01	271.68	3.547	
7,300.00	7,189.97	7,188.97	7,188.97	23.26	252.97	-47.86	-219.67	-174.13	909.16	634.66	274.50	3.312	
7,400.00	7,252.13	7,251.13	7,251.13	23.68	255.17	-55.86	-219.67	-174.13	847.70	570.64	277.06	3.060	
7,500.00	7,301.31	7,300.31	7,300.31	24.34	256.92	-65.63	-219.67	-174.13	782.28	502.89	279.39	2.800	
7,600.00	7,336.30	7,335.30	7,335.30	25.28	258.16	-75.89	-219.67	-174.13	716.43	434.85	281.59	2.544	
7,700.00	7,356.23	7,355.23	7,355.23	26.48	258.86	-84.85	-219.67	-174.13	654.22	370.49	283.72	2.306	
7,800.00	7,361.08	7,360.08	7,360.08	27.71	259.03	-89.90	-219.67	-174.13	600.06	313.29	286.77	2.092	
7,900.00	7,361.38	7,360.38	7,360.38	27.76	259.05	-89.94	-219.67	-174.13	558.38	271.26	287.12	1.945	
8,000.00	7,361.69	7,360.69	7,360.69	27.91	259.06	-89.97	-219.67	-174.13	532.45	244.97	287.48	1.852	
8,091.43	7,361.97	7,360.97	7,360.97	28.14	259.07	-90.00	-219.67	-174.13	524.54	236.75	287.79	1.823 ES, SF	
8,100.00	7,362.00	7,361.00	7,361.00	28.16	259.07	-90.00	-219.67	-174.13	524.61	236.80	287.81	1.823	
8,200.00	7,362.31	7,361.31	7,361.31	28.51	259.08	-90.04	-219.67	-174.13	535.66	247.61	288.05	1.860	
8,300.00	7,362.61	7,361.61	7,361.61	28.95	259.09	-90.07	-219.67	-174.13	564.48	276.30	288.18	1.959	
8,400.00	7,362.92	7,361.92	7,361.92	29.47	259.10	-90.10	-219.67	-174.13	608.57	320.34	288.22	2.111	
8,500.00	7,363.23	7,362.23	7,362.23	30.09	259.11	-90.14	-219.67	-174.13	664.88	376.67	288.21	2.307	
8,600.00	7,363.53	7,362.53	7,362.53	30.78	259.12	-90.17	-219.67	-174.13	730.60	442.43	288.17	2.535	
8,700.00	7,363.84	7,362.84	7,362.84	31.54	259.13	-90.20	-219.67	-174.13	803.42	515.29	288.14	2.788	
8,800.00	7,364.15	7,363.15	7,363.15	32.37	259.14	-90.24	-219.67	-174.13	881.59	593.48	288.11	3.060	
8,900.00	7,364.46	7,363.46	7,363.46	33.27	259.15	-90.27	-219.67	-174.13	963.80	675.71	288.09	3.345	
9,000.00	7,364.76	7,363.76	7,363.76	34.22	259.16	-90.30	-219.67	-174.13	1,049.11	761.02	288.09	3.642	
9,100.00	7,365.07	7,364.07	7,364.07	35.23	259.18	-90.34	-219.67	-174.13	1,136.81	848.72	288.09	3.946	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-5 - XOG PR Well - No Survey												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	7,363.84	7,369.84	7,369.84	31.54	259.38	-89.44	-41.09	-1,907.08	1,178.24	891.58	286.66	4.110	
8,800.00	7,364.15	7,370.15	7,370.15	32.37	259.39	-89.49	-41.09	-1,907.08	1,083.18	796.23	286.95	3.775	
8,900.00	7,364.46	7,370.46	7,370.46	33.27	259.40	-89.54	-41.09	-1,907.08	989.09	701.78	287.31	3.443	
9,000.00	7,364.76	7,370.76	7,370.76	34.22	259.41	-89.59	-41.09	-1,907.08	896.29	608.49	287.79	3.114	
9,100.00	7,365.07	7,371.07	7,371.07	35.23	259.42	-89.64	-41.09	-1,907.08	805.21	516.77	288.44	2.792	
9,200.00	7,365.38	7,371.38	7,371.38	36.29	259.43	-89.69	-41.09	-1,907.08	716.51	427.20	289.31	2.477	
9,300.00	7,365.68	7,371.68	7,371.68	37.39	259.45	-89.74	-41.09	-1,907.08	631.21	340.67	290.54	2.173	
9,400.00	7,365.99	7,371.99	7,371.99	38.53	259.46	-89.79	-41.09	-1,907.08	550.86	258.62	292.24	1.885	
9,500.00	7,366.30	7,372.30	7,372.30	39.71	259.47	-89.84	-41.09	-1,907.08	477.99	183.40	294.59	1.623	
9,600.00	7,366.60	7,372.60	7,372.60	40.92	259.48	-89.89	-41.09	-1,907.08	416.54	118.92	297.62	1.400	Level 3
9,700.00	7,366.91	7,372.91	7,372.91	42.17	259.49	-89.94	-41.09	-1,907.08	372.20	71.26	300.94	1.237	Level 2
9,800.00	7,367.22	7,373.22	7,373.22	43.44	259.50	-89.99	-41.09	-1,907.08	351.51	48.02	303.49	1.158	Level 2
9,824.87	7,367.30	7,373.30	7,373.30	43.77	259.50	-90.00	-41.09	-1,907.08	350.63	46.78	303.85	1.154	Level 2, CC, ES, SF
9,900.00	7,367.53	7,373.53	7,373.53	44.74	259.51	-90.04	-41.09	-1,907.08	358.59	54.47	304.11	1.179	Level 2
10,000.00	7,367.83	7,373.83	7,373.83	46.07	259.52	-90.09	-41.09	-1,907.08	391.93	89.07	302.86	1.294	Level 3
10,100.00	7,368.14	7,374.14	7,374.14	47.41	259.53	-90.14	-41.09	-1,907.08	445.69	144.93	300.75	1.482	Level 3
10,200.00	7,368.45	7,374.45	7,374.45	48.78	259.54	-90.19	-41.09	-1,907.08	513.48	214.84	298.64	1.719	
10,300.00	7,368.75	7,374.75	7,374.75	50.17	259.55	-90.24	-41.09	-1,907.08	590.50	293.63	296.87	1.989	
10,400.00	7,369.06	7,375.06	7,375.06	51.57	259.57	-90.29	-41.09	-1,907.08	673.59	378.11	295.47	2.280	
10,500.00	7,369.37	7,375.37	7,375.37	52.99	259.58	-90.34	-41.09	-1,907.08	760.75	466.35	294.40	2.584	
10,600.00	7,369.68	7,375.68	7,375.68	54.42	259.59	-90.39	-41.09	-1,907.08	850.75	557.16	293.59	2.898	
10,700.00	7,369.98	7,375.98	7,375.98	55.86	259.60	-90.44	-41.09	-1,907.08	942.76	649.79	292.97	3.218	
10,800.00	7,370.29	7,376.29	7,376.29	57.32	259.61	-90.49	-41.09	-1,907.08	1,036.25	743.76	292.49	3.543	
10,900.00	7,370.60	7,376.60	7,376.60	58.79	259.62	-90.54	-41.09	-1,907.08	1,130.86	838.73	292.13	3.871	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b>		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL J 29-19 - Noble SI Well - Actual										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_NS-GYRO-MS, 7350-SRC Energy_2" CONE_2.448										<b>Offset Well Error:</b>	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	13.69	13.69	3.28	3.28	-125.07	-689.23	-981.85	1,199.61				
8,400.00	7,362.92	7,416.87	7,415.69	29.47	19.29	-91.98	-741.80	-992.84	1,166.36	1,117.65	48.71	23.947	
8,500.00	7,363.23	7,412.90	7,411.73	30.09	19.26	-91.76	-741.86	-993.01	1,126.32	1,076.88	49.44	22.782	
8,600.00	7,363.53	7,408.94	7,407.76	30.78	19.24	-91.54	-741.92	-993.18	1,093.98	1,043.71	50.27	21.763	
8,700.00	7,363.84	7,404.97	7,403.80	31.54	19.21	-91.33	-741.98	-993.35	1,070.02	1,018.85	51.16	20.913	
8,800.00	7,364.15	7,401.00	7,399.84	32.37	19.19	-91.11	-742.04	-993.52	1,055.01	1,002.93	52.09	20.254	
8,900.00	7,364.46	7,397.04	7,395.88	33.27	19.16	-90.90	-742.10	-993.69	1,049.35	996.36	53.00	19.800	
8,909.65	7,364.49	7,396.66	7,395.50	33.36	19.16	-90.87	-742.11	-993.71	1,049.31	996.22	53.09	19.766 CC, ES	
9,000.00	7,364.76	7,393.07	7,391.92	34.22	19.13	-90.68	-742.16	-993.86	1,053.19	999.34	53.85	19.558	
9,100.00	7,365.07	7,389.11	7,387.96	35.23	19.11	-90.46	-742.22	-994.03	1,066.41	1,011.81	54.60	19.530 SF	
9,200.00	7,365.38	7,385.14	7,384.00	36.29	19.08	-90.25	-742.28	-994.20	1,088.68	1,033.44	55.24	19.709	
9,300.00	7,365.68	7,381.18	7,380.03	37.39	19.06	-90.03	-742.34	-994.37	1,119.46	1,063.71	55.74	20.082	
9,400.00	7,365.99	7,377.21	7,376.07	38.53	19.03	-89.81	-742.40	-994.54	1,158.06	1,101.94	56.12	20.634	



# Hewlett-Packard

## Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	101.71	-234.21	1,129.77	1,154.04				
100.00	100.00	76.00	76.00	3.28	3.55	101.71	-234.21	1,129.77	1,153.79	1,146.17	7.62	151.417	
200.00	200.00	176.00	176.00	3.31	5.54	101.71	-234.21	1,129.77	1,153.79	1,144.15	9.64	119.729	
300.00	299.98	275.98	275.98	3.35	8.65	31.12	-234.21	1,129.77	1,152.30	1,139.50	12.79	90.071	
400.00	399.84	375.84	375.84	3.42	12.00	31.30	-234.21	1,129.77	1,147.82	1,131.61	16.21	70.815	
500.00	499.45	475.45	475.45	3.51	15.43	31.61	-234.21	1,129.77	1,140.38	1,120.65	19.72	57.816	
600.00	598.72	574.72	574.72	3.63	18.88	32.01	-234.21	1,129.77	1,130.11	1,106.82	23.29	48.520	
700.00	697.87	673.87	673.87	3.77	22.35	32.36	-234.21	1,129.77	1,119.11	1,092.22	26.89	41.619	
800.00	797.03	773.03	773.03	3.94	25.83	32.71	-234.21	1,129.77	1,108.15	1,077.63	30.52	36.310	
900.00	896.19	872.19	872.19	4.13	29.32	33.08	-234.21	1,129.77	1,097.24	1,063.07	34.17	32.107	
1,000.00	995.34	971.34	971.34	4.34	32.81	33.45	-234.21	1,129.77	1,086.37	1,048.52	37.85	28.702	
1,100.00	1,094.50	1,070.50	1,070.50	4.56	36.31	33.83	-234.21	1,129.77	1,075.55	1,034.00	41.54	25.890	
1,200.00	1,193.65	1,169.65	1,169.65	4.80	39.81	34.22	-234.21	1,129.77	1,064.77	1,019.52	45.25	23.530	
1,300.00	1,292.81	1,268.81	1,268.81	5.05	43.31	34.61	-234.21	1,129.77	1,054.05	1,005.08	48.97	21.523	
1,400.00	1,391.97	1,367.97	1,367.97	5.31	46.81	35.02	-234.21	1,129.77	1,043.37	990.67	52.71	19.796	
1,500.00	1,491.12	1,467.12	1,467.12	5.57	50.32	35.43	-234.21	1,129.77	1,032.75	976.30	56.45	18.296	
1,600.00	1,590.28	1,566.28	1,566.28	5.85	53.83	35.85	-234.21	1,129.77	1,022.18	961.99	60.20	16.980	
1,700.00	1,689.43	1,665.43	1,665.43	6.13	57.33	36.28	-234.21	1,129.77	1,011.67	947.72	63.96	15.818	
1,800.00	1,788.59	1,764.59	1,764.59	6.41	60.84	36.72	-234.21	1,129.77	1,001.22	933.50	67.72	14.785	
1,900.00	1,887.75	1,863.75	1,863.75	6.70	64.35	37.16	-234.21	1,129.77	990.82	919.54	71.28	13.900	
2,000.00	1,986.90	1,962.90	1,962.90	7.00	67.86	37.62	-234.21	1,129.77	980.49	905.43	75.06	13.063	
2,100.00	2,086.06	2,062.06	2,062.06	7.30	71.37	38.09	-234.21	1,129.77	970.22	891.38	78.84	12.306	
2,200.00	2,185.21	2,161.21	2,161.21	7.60	74.88	38.56	-234.21	1,129.77	960.01	877.39	82.62	11.619	
2,300.00	2,284.37	2,260.37	2,260.37	7.90	78.39	39.05	-234.21	1,129.77	949.87	863.46	86.41	10.992	
2,400.00	2,383.52	2,359.52	2,359.52	8.21	81.90	39.54	-234.21	1,129.77	939.81	849.60	90.20	10.419	
2,500.00	2,482.68	2,458.68	2,458.68	8.52	85.41	40.05	-234.21	1,129.77	929.81	835.81	94.00	9.892	
2,600.00	2,581.84	2,557.84	2,557.84	8.83	88.92	40.57	-234.21	1,129.77	919.89	822.09	97.80	9.406	
2,700.00	2,680.99	2,656.99	2,656.99	9.14	92.43	41.10	-234.21	1,129.77	910.04	808.44	101.60	8.957	
2,800.00	2,780.15	2,756.15	2,756.15	9.45	95.94	41.64	-234.21	1,129.77	900.27	794.87	105.41	8.541	
2,900.00	2,879.30	2,855.30	2,855.30	9.77	99.45	42.19	-234.21	1,129.77	890.59	781.38	109.21	8.155	
3,000.00	2,978.46	2,954.46	2,954.46	10.09	102.96	42.75	-234.21	1,129.77	880.99	767.96	113.02	7.795	
3,100.00	3,077.62	3,053.62	3,053.62	10.41	106.48	43.33	-234.21	1,129.77	871.47	754.64	116.84	7.459	
3,200.00	3,176.77	3,152.77	3,152.77	10.73	109.99	43.92	-234.21	1,129.77	862.05	741.40	120.65	7.145	
3,300.00	3,275.93	3,251.93	3,251.93	11.05	113.50	44.52	-234.21	1,129.77	852.72	728.25	124.47	6.851	
3,400.00	3,375.08	3,351.08	3,351.08	11.37	117.01	45.14	-234.21	1,129.77	843.48	715.20	128.29	6.575	
3,500.00	3,474.24	3,450.24	3,450.24	11.69	120.52	45.76	-234.21	1,129.77	834.35	702.24	132.11	6.316	
3,600.00	3,573.39	3,549.39	3,549.39	12.01	124.04	46.41	-234.21	1,129.77	825.32	689.38	135.93	6.072	
3,700.00	3,672.55	3,648.55	3,648.55	12.34	127.55	47.06	-234.21	1,129.77	816.39	676.63	139.76	5.841	
3,800.00	3,771.71	3,747.71	3,747.71	12.66	131.06	47.73	-234.21	1,129.77	807.57	663.99	143.59	5.624	
3,900.00	3,870.86	3,846.86	3,846.86	12.99	134.57	48.42	-234.21	1,129.77	798.87	651.45	147.42	5.419	
4,000.00	3,970.02	3,946.02	3,946.02	13.31	138.08	49.12	-234.21	1,129.77	790.28	639.03	151.25	5.225	
4,100.00	4,069.17	4,045.17	4,045.17	13.64	141.60	49.83	-234.21	1,129.77	781.81	626.73	155.08	5.041	
4,200.00	4,168.33	4,144.33	4,144.33	13.97	145.11	50.56	-234.21	1,129.77	773.47	614.55	158.92	4.867	
4,300.00	4,267.49	4,243.49	4,243.49	14.29	148.62	51.31	-234.21	1,129.77	765.26	602.50	162.76	4.702	
4,400.00	4,366.64	4,342.64	4,342.64	14.62	152.13	52.07	-234.21	1,129.77	757.18	590.58	166.60	4.545	
4,500.00	4,465.80	4,441.80	4,441.80	14.95	155.65	52.85	-234.21	1,129.77	749.24	578.80	170.44	4.396	
4,600.00	4,564.95	4,540.95	4,540.95	15.28	159.16	53.64	-234.21	1,129.77	741.44	567.15	174.28	4.254	
4,700.00	4,664.11	4,640.11	4,640.11	15.61	162.67	54.45	-234.21	1,129.77	733.78	555.65	178.13	4.119	
4,800.00	4,763.26	4,739.26	4,739.26	15.94	166.18	55.28	-234.21	1,129.77	726.28	544.30	181.98	3.991	
4,900.00	4,862.42	4,838.42	4,838.42	16.27	169.70	56.13	-234.21	1,129.77	718.93	533.10	185.83	3.869	
5,000.00	4,961.58	4,937.58	4,937.58	16.60	173.21	56.99	-234.21	1,129.77	711.74	522.06	189.68	3.752	
5,100.00	5,060.73	5,036.73	5,036.73	16.93	176.72	57.87	-234.21	1,129.77	704.72	511.18	193.54	3.641	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	5,159.89	5,135.89	5,135.89	17.26	180.24	58.76	-234.21	1,129.77	697.86	500.47	197.39	3.535	
5,300.00	5,259.04	5,235.04	5,235.04	17.59	183.75	59.67	-234.21	1,129.77	691.19	489.94	201.25	3.434	
5,400.00	5,358.20	5,334.20	5,334.20	17.92	187.26	60.61	-234.21	1,129.77	684.69	479.58	205.11	3.338	
5,500.00	5,457.36	5,433.36	5,433.36	18.25	190.77	61.55	-234.21	1,129.77	678.38	469.41	208.97	3.246	
5,600.00	5,556.51	5,532.51	5,532.51	18.58	194.29	62.52	-234.21	1,129.77	672.26	459.43	212.83	3.159	
5,700.00	5,655.67	5,631.67	5,631.67	18.91	197.80	63.50	-234.21	1,129.77	666.33	449.64	216.70	3.075	
5,800.00	5,754.82	5,730.82	5,730.82	19.24	201.31	64.50	-234.21	1,129.77	660.61	440.05	220.56	2.995	
5,900.00	5,853.98	5,829.98	5,829.98	19.58	204.82	65.52	-234.21	1,129.77	655.09	430.66	224.43	2.919	
6,000.00	5,953.13	5,929.13	5,929.13	19.91	208.34	66.55	-234.21	1,129.77	649.79	421.49	228.30	2.846	
6,100.00	6,052.29	6,028.29	6,028.29	20.24	211.85	67.60	-234.21	1,129.77	644.70	412.53	232.17	2.777	
6,200.00	6,151.45	6,127.45	6,127.45	20.57	215.36	68.67	-234.21	1,129.77	639.84	403.80	236.04	2.711	
6,300.00	6,250.60	6,226.60	6,226.60	20.90	218.88	69.75	-234.21	1,129.77	635.20	395.29	239.91	2.648	
6,400.00	6,349.76	6,325.76	6,325.76	21.24	222.39	70.84	-234.21	1,129.77	630.79	387.01	243.78	2.588	
6,500.00	6,448.91	6,424.91	6,424.91	21.57	225.90	71.95	-234.21	1,129.77	626.63	378.97	247.66	2.530	
6,600.00	6,548.07	6,524.07	6,524.07	21.90	229.42	73.08	-234.21	1,129.77	622.70	371.17	251.53	2.476	
6,700.03	6,647.26	6,623.26	6,623.26	22.24	232.93	74.22	-234.21	1,129.77	619.02	363.62	255.41	2.424	
6,738.51	6,685.53	6,661.53	6,661.53	22.32	234.29	90.00	-234.21	1,129.77	618.34	361.48	256.86	2.407	CC
6,800.00	6,746.93	6,722.93	6,722.93	22.46	236.46	-176.47	-234.21	1,129.77	620.05	360.87	259.18	2.392	ES, SF
6,900.00	6,846.10	6,822.10	6,822.10	22.61	239.97	-137.57	-234.21	1,129.77	630.08	367.25	262.83	2.397	
7,000.00	6,942.28	6,918.28	6,918.28	22.73	243.38	-132.20	-234.21	1,129.77	649.25	382.95	266.30	2.438	
7,100.00	7,033.11	7,009.11	7,009.11	22.85	246.60	-130.41	-234.21	1,129.77	678.10	408.57	269.53	2.516	
7,200.00	7,116.36	7,107.64	7,092.36	23.01	250.09	-129.34	-234.21	1,129.77	717.24	444.24	273.00	2.627	
7,300.00	7,189.97	7,165.97	7,165.97	23.26	252.16	-127.91	-234.21	1,129.77	767.00	491.97	275.03	2.789	
7,400.00	7,252.13	7,228.13	7,228.13	23.68	254.36	-125.34	-234.21	1,129.77	827.16	549.95	277.22	2.984	
7,500.00	7,301.31	7,277.31	7,277.31	24.34	256.10	-120.82	-234.21	1,129.77	896.83	617.87	278.97	3.215	
7,600.00	7,336.30	7,312.30	7,312.30	25.28	257.34	-113.36	-234.21	1,129.77	974.49	694.26	280.24	3.477	
7,700.00	7,356.23	7,332.23	7,332.23	26.48	258.05	-101.90	-234.21	1,129.77	1,058.13	777.14	281.00	3.766	
7,800.00	7,361.08	7,337.08	7,337.08	27.71	258.22	-90.33	-234.21	1,129.77	1,145.43	860.57	284.86	4.021	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-112.25	-61.20	-149.61	161.65					
100.00	100.00	101.00	101.00	3.28	3.28	-112.25	-61.20	-149.61	161.65	154.12	7.53	21.470		
200.00	200.00	201.00	201.00	3.31	3.31	-112.25	-61.20	-149.61	161.65	154.07	7.57	21.341	CC, ES	
300.00	299.98	300.67	299.33	3.35	3.34	176.98	-61.92	-150.22	164.23	156.58	7.66	21.451		
400.00	399.84	400.87	399.12	3.42	3.40	176.89	-62.79	-150.95	170.46	162.68	7.78	21.902		
500.00	499.45	501.34	498.64	3.51	3.48	176.86	-63.65	-151.67	180.16	172.21	7.96	22.647		
600.00	598.72	602.20	597.78	3.63	3.58	176.89	-64.51	-152.40	193.20	185.03	8.17	23.636		
700.00	697.87	703.18	696.79	3.77	3.70	176.94	-65.37	-153.12	207.14	198.73	8.42	24.604		
800.00	797.03	804.15	795.81	3.94	3.84	176.98	-66.23	-153.84	221.09	212.39	8.70	25.415		
900.00	896.19	905.13	894.83	4.13	3.99	177.02	-67.09	-154.56	235.03	226.02	9.01	26.085		
1,000.00	995.34	1,006.11	993.84	4.34	4.15	177.06	-67.95	-155.28	248.98	239.63	9.35	26.630		
1,100.00	1,094.50	1,107.09	1,092.86	4.56	4.33	177.09	-68.82	-156.01	262.92	253.21	9.71	27.068		
1,200.00	1,193.65	1,208.06	1,191.88	4.80	4.51	177.11	-69.68	-156.73	276.87	266.77	10.10	27.416		
1,300.00	1,292.81	1,309.04	1,290.89	5.05	4.71	177.14	-70.54	-157.45	290.81	280.31	10.50	27.689		
1,400.00	1,391.97	1,389.98	1,389.91	5.31	4.87	177.16	-71.40	-158.17	304.75	293.87	10.88	28.003		
1,500.00	1,491.12	1,489.01	1,488.93	5.57	5.08	177.18	-72.26	-158.89	318.70	307.39	11.31	28.170		
1,600.00	1,590.28	1,588.03	1,587.94	5.85	5.29	177.20	-73.12	-159.62	332.64	320.89	11.76	28.295		
1,700.00	1,689.43	1,687.05	1,686.96	6.13	5.50	177.22	-73.98	-160.34	346.59	334.38	12.21	28.384		
1,800.00	1,788.59	1,786.08	1,785.97	6.41	5.73	177.23	-74.84	-161.06	360.53	347.86	12.68	28.444		
1,900.00	1,887.75	1,885.10	1,884.99	6.70	5.95	177.25	-75.70	-161.78	374.48	361.71	12.77	29.329		
2,000.00	1,986.90	1,984.12	1,984.01	7.00	6.18	177.26	-76.56	-162.50	388.42	375.17	13.25	29.316		
2,100.00	2,086.06	2,083.14	2,083.02	7.30	6.42	177.27	-77.42	-163.23	402.37	388.63	13.74	29.289		
2,200.00	2,185.21	2,182.17	2,182.04	7.60	6.65	177.28	-78.28	-163.95	416.31	402.08	14.23	29.252		
2,300.00	2,284.37	2,281.19	2,281.06	7.90	6.89	177.29	-79.14	-164.67	430.26	415.52	14.73	29.206		
2,400.00	2,383.52	2,380.21	2,380.07	8.21	7.13	177.30	-80.00	-165.39	444.20	428.96	15.24	29.153		
2,500.00	2,482.68	2,479.24	2,479.09	8.52	7.38	177.31	-80.86	-166.12	458.15	442.40	15.75	29.095		
2,600.00	2,581.84	2,578.26	2,578.11	8.83	7.62	177.32	-81.72	-166.84	472.09	455.83	16.26	29.033		
2,700.00	2,680.99	2,677.28	2,677.12	9.14	7.87	177.33	-82.58	-167.56	486.04	469.26	16.78	28.969		
2,800.00	2,780.15	2,776.30	2,776.14	9.45	8.12	177.34	-83.44	-168.28	499.98	482.68	17.30	28.903		
2,900.00	2,879.30	2,875.33	2,875.16	9.77	8.37	177.35	-84.31	-169.00	513.93	496.10	17.82	28.836		
3,000.00	2,978.46	2,974.35	2,974.17	10.09	8.62	177.36	-85.17	-169.73	527.87	509.52	18.35	28.769		
3,100.00	3,077.62	3,073.37	3,073.19	10.41	8.88	177.36	-86.03	-170.45	541.81	522.94	18.88	28.701		
3,200.00	3,176.77	3,172.40	3,172.21	10.73	9.13	177.37	-86.89	-171.17	555.76	536.35	19.41	28.633		
3,300.00	3,275.93	3,271.42	3,271.22	11.05	9.39	177.38	-87.75	-171.89	569.70	549.76	19.94	28.566		
3,400.00	3,375.08	3,370.44	3,370.24	11.37	9.65	177.38	-88.61	-172.61	583.65	563.17	20.48	28.500		
3,500.00	3,474.24	3,469.47	3,469.26	11.69	9.90	177.39	-89.47	-173.34	597.59	576.58	21.02	28.435		
3,600.00	3,573.39	3,568.49	3,568.27	12.01	10.16	177.39	-90.33	-174.06	611.54	589.98	21.56	28.371		
3,700.00	3,672.55	3,667.51	3,667.29	12.34	10.42	177.40	-91.19	-174.78	625.48	603.39	22.10	28.307		
3,800.00	3,771.71	3,766.53	3,766.31	12.66	10.68	177.40	-92.05	-175.50	639.43	616.79	22.64	28.245		
3,900.00	3,870.86	3,865.56	3,865.32	12.99	10.94	177.41	-92.91	-176.22	653.37	630.19	23.18	28.185		
4,000.00	3,970.02	3,964.58	3,964.34	13.31	11.20	177.41	-93.77	-176.95	667.32	643.59	23.73	28.125		
4,100.00	4,069.17	4,063.60	4,063.36	13.64	11.47	177.42	-94.63	-177.67	681.26	656.99	24.27	28.067		
4,200.00	4,168.33	4,162.63	4,162.37	13.97	11.73	177.42	-95.49	-178.39	695.21	670.39	24.82	28.011		
4,300.00	4,267.49	4,261.65	4,261.39	14.29	11.99	177.42	-96.35	-179.11	709.15	683.79	25.37	27.955		
4,400.00	4,366.64	4,360.67	4,360.40	14.62	12.26	177.43	-97.21	-179.83	723.10	697.18	25.92	27.901		
4,500.00	4,465.80	4,459.69	4,459.42	14.95	12.52	177.43	-98.07	-180.56	737.04	710.58	26.47	27.848		
4,600.00	4,564.95	4,558.72	4,558.44	15.28	12.78	177.43	-98.93	-181.28	750.99	723.97	27.02	27.796		
4,700.00	4,664.11	4,657.74	4,657.45	15.61	13.05	177.44	-99.79	-182.00	764.93	737.36	27.57	27.746		
4,800.00	4,763.26	4,756.76	4,756.47	15.94	13.31	177.44	-100.66	-182.72	778.88	750.76	28.12	27.697		
4,900.00	4,862.42	4,855.79	4,855.49	16.27	13.58	177.44	-101.52	-183.45	792.82	764.15	28.67	27.649		
5,000.00	4,961.58	4,954.81	4,954.50	16.60	13.84	177.45	-102.38	-184.17	806.77	777.54	29.23	27.602		
5,100.00	5,060.73	5,053.83	5,053.52	16.93	14.11	177.45	-103.24	-184.89	820.71	790.93	29.78	27.557		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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 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	5,159.89	5,152.85	5,152.54	17.26	14.38	177.45	-104.10	-185.61	834.66	804.32	30.34	27.512					
5,300.00	5,259.04	5,251.88	5,251.55	17.59	14.64	177.46	-104.96	-186.33	848.60	817.71	30.89	27.469					
5,400.00	5,358.20	5,350.90	5,350.57	17.92	14.91	177.46	-105.82	-187.06	862.55	831.10	31.45	27.427					
5,500.00	5,457.36	5,449.92	5,449.59	18.25	15.18	177.46	-106.68	-187.78	876.49	844.49	32.01	27.385					
5,600.00	5,556.51	5,548.95	5,548.60	18.58	15.45	177.46	-107.54	-188.50	890.44	857.87	32.56	27.345					
5,700.00	5,655.67	5,647.97	5,647.62	18.91	15.71	177.47	-108.40	-189.22	904.38	871.26	33.12	27.306					
5,800.00	5,754.82	5,746.99	5,746.64	19.24	15.98	177.47	-109.26	-189.94	918.33	884.65	33.68	27.267					
5,900.00	5,853.98	5,846.02	5,845.65	19.58	16.25	177.47	-110.12	-190.67	932.27	898.03	34.24	27.230					
6,000.00	5,953.13	5,945.04	5,944.67	19.91	16.52	177.47	-110.98	-191.39	946.22	911.42	34.80	27.193					
6,100.00	6,052.29	6,044.06	6,043.69	20.24	16.79	177.48	-111.84	-192.11	960.16	924.81	35.36	27.158					
6,200.00	6,151.45	6,143.08	6,142.70	20.57	17.05	177.48	-112.70	-192.83	974.11	938.19	35.91	27.123					
6,300.00	6,250.60	6,242.11	6,241.72	20.90	17.32	177.48	-113.56	-193.55	988.05	951.58	36.47	27.088					
6,400.00	6,349.76	6,341.13	6,340.74	21.24	17.59	177.48	-114.42	-194.28	1,002.00	964.96	37.04	27.055					
6,500.00	6,448.91	6,038.61	7,362.66	21.57	26.79	123.72	-117.39	751.35	988.71	956.52	32.20	30.706					
6,600.00	6,548.07	8,050.76	7,362.64	21.90	26.84	122.16	-117.31	763.50	899.77	866.41	33.36	26.972					
6,700.03	6,647.26	8,062.91	7,362.63	22.24	26.89	120.58	-117.24	775.65	813.19	778.41	34.77	23.385					
6,800.00	6,746.93	8,067.23	7,362.63	22.46	26.90	-145.05	-117.21	779.97	729.49	693.03	36.46	20.006					
6,900.00	6,846.10	8,055.89	7,362.64	22.61	26.86	-116.16	-117.28	768.63	650.84	612.38	38.46	16.922					
7,000.00	6,942.28	8,029.17	7,362.67	22.73	26.75	-115.84	-117.45	741.90	580.72	539.96	40.76	14.248					
7,100.00	7,033.11	7,987.71	7,362.71	22.85	26.60	-115.28	-117.70	700.45	522.32	479.08	43.24	12.079					
7,200.00	7,116.36	7,932.55	7,362.78	23.01	26.44	-112.83	-118.05	645.29	477.95	432.26	45.68	10.462					
7,300.00	7,189.97	7,865.04	7,362.85	23.26	26.28	-108.69	-118.47	577.78	448.20	400.40	47.79	9.378					
7,400.00	7,252.13	7,786.84	7,362.94	23.68	26.03	-103.49	-118.95	499.59	431.53	382.21	49.32	8.749					
7,500.00	7,301.31	7,696.80	7,362.30	24.34	24.90	-97.90	-119.51	409.55	424.50	374.93	49.57	8.564 SF					
7,590.94	7,333.74	7,610.38	7,352.38	25.19	23.48	-92.50	-119.95	323.77	422.69	373.45	49.24	8.584					
7,600.00	7,336.30	7,602.07	7,350.82	25.28	23.35	-91.97	-119.99	315.61	422.71	373.51	49.20	8.591					
7,700.00	7,356.23	7,513.48	7,327.59	26.48	22.13	-86.28	-120.32	230.19	425.14	376.07	49.06	8.665					
7,800.00	7,361.08	7,429.88	7,295.00	27.71	21.20	-81.03	-120.52	153.27	431.26	382.30	48.95	8.810					
7,900.00	7,361.38	7,354.82	7,257.37	27.76	20.55	-76.14	-120.59	88.37	443.24	395.53	47.71	9.290					
8,000.00	7,361.69	7,289.90	7,218.87	27.91	20.13	-71.34	-120.59	36.15	463.98	417.39	46.60	9.958					
8,100.00	7,362.00	7,234.31	7,181.81	28.16	19.85	-66.97	-120.52	-5.27	494.76	449.11	45.66	10.836					
8,200.00	7,362.31	7,186.84	7,147.41	28.51	19.67	-63.15	-120.43	-37.96	535.68	490.71	44.97	11.912					
8,300.00	7,362.61	7,150.00	7,119.08	28.95	19.56	-60.18	-120.33	-61.51	585.94	541.32	44.62	13.133					
8,400.00	7,362.92	7,111.45	7,088.05	29.47	19.47	-57.12	-120.20	-84.36	644.25	599.90	44.35	14.526					
8,500.00	7,363.23	7,081.43	7,062.94	30.09	19.40	-54.78	-120.09	-100.83	709.32	665.00	44.32	16.003					
8,600.00	7,363.53	7,050.00	7,035.87	30.78	19.33	-52.41	-119.95	-116.78	779.96	735.63	44.33	17.596					
8,700.00	7,363.84	7,032.61	7,020.56	31.54	19.30	-51.13	-119.87	-125.02	854.99	810.43	44.56	19.185					
8,800.00	7,364.15	7,012.62	7,002.69	32.37	19.26	-49.69	-119.77	-133.98	933.69	888.94	44.75	20.863					
8,900.00	7,364.46	7,000.00	6,991.27	33.27	19.23	-48.80	-119.71	-139.34	1,015.38	970.36	45.02	22.555					
9,000.00	7,364.76	6,979.24	6,972.25	34.22	19.19	-47.37	-119.59	-147.67	1,099.42	1,054.25	45.17	24.339					
9,100.00	7,365.07	6,965.20	6,959.24	35.23	19.16	-46.43	-119.51	-152.95	1,185.49	1,140.11	45.38	26.125					

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-118.39	-80.86	-149.61	170.07					
100.00	100.00	101.00	101.00	3.28	3.28	-118.39	-80.86	-149.61	170.07	162.54	7.53	22.589		
200.00	200.00	201.00	201.00	3.31	3.31	-118.39	-80.86	-149.61	170.07	162.49	7.57	22.454	CC, ES	
300.00	299.98	300.78	299.22	3.35	3.34	171.00	-81.38	-150.32	172.66	165.01	7.66	22.550		
400.00	399.84	400.98	399.01	3.42	3.40	171.20	-81.98	-151.15	178.85	171.07	7.78	22.975		
500.00	499.45	501.45	498.53	3.51	3.48	171.54	-82.58	-151.98	188.49	180.53	7.96	23.685		
600.00	598.72	602.31	597.67	3.63	3.59	171.97	-83.18	-152.80	201.43	193.25	8.18	24.631		
700.00	697.87	703.29	696.69	3.77	3.71	172.41	-83.78	-153.63	215.28	206.86	8.42	25.556		
800.00	797.03	804.27	795.70	3.94	3.84	172.80	-84.38	-154.45	229.15	220.45	8.71	26.323		
900.00	896.19	905.24	894.72	4.13	3.99	173.14	-84.98	-155.28	243.03	234.01	9.02	26.950		
1,000.00	995.34	1,006.22	993.74	4.34	4.16	173.45	-85.58	-156.10	256.91	247.55	9.36	27.455		
1,100.00	1,094.50	1,107.20	1,092.76	4.56	4.33	173.72	-86.18	-156.93	270.80	261.08	9.72	27.854		
1,200.00	1,193.65	1,208.18	1,191.77	4.80	4.52	173.97	-86.78	-157.75	284.70	274.59	10.11	28.165		
1,300.00	1,292.81	1,309.15	1,290.79	5.05	4.72	174.20	-87.38	-158.58	298.60	288.09	10.51	28.403		
1,400.00	1,391.97	1,389.87	1,389.81	5.31	4.88	174.40	-87.98	-159.40	312.50	301.61	10.89	28.688		
1,500.00	1,491.12	1,488.89	1,488.83	5.57	5.08	174.59	-88.58	-160.23	326.41	315.09	11.32	28.826		
1,600.00	1,590.28	1,587.92	1,587.84	5.85	5.29	174.76	-89.18	-161.05	340.32	328.56	11.77	28.922		
1,700.00	1,689.43	1,686.94	1,686.86	6.13	5.51	174.92	-89.78	-161.88	354.24	342.02	12.22	28.984		
1,800.00	1,788.59	1,785.96	1,785.88	6.41	5.73	175.07	-90.37	-162.70	368.16	355.47	12.69	29.020		
1,900.00	1,887.75	1,884.98	1,884.90	6.70	5.86	175.20	-90.97	-163.53	382.07	369.39	12.68	30.124		
2,000.00	1,986.90	1,984.01	1,983.91	7.00	5.89	175.33	-91.57	-164.35	396.00	383.03	12.96	30.546		
2,100.00	2,086.06	2,083.03	2,082.93	7.30	5.91	175.45	-92.17	-165.18	409.92	396.68	13.24	30.954		
2,200.00	2,185.21	2,182.05	2,181.95	7.60	5.95	175.56	-92.77	-166.00	423.84	410.30	13.54	31.309		
2,300.00	2,284.37	2,281.07	2,280.96	7.90	6.00	175.66	-93.37	-166.83	437.77	423.92	13.85	31.614		
2,400.00	2,383.52	2,380.10	2,379.98	8.21	6.06	175.75	-93.97	-167.65	451.70	437.52	14.17	31.874		
2,500.00	2,482.68	2,479.12	2,479.00	8.52	6.13	175.85	-94.57	-168.48	465.62	451.11	14.51	32.091		
2,600.00	2,581.84	2,578.14	2,578.02	8.83	6.21	175.93	-95.17	-169.30	479.55	464.69	14.86	32.270		
2,700.00	2,680.99	2,677.16	2,677.03	9.14	6.31	176.01	-95.77	-170.13	493.48	478.26	15.22	32.414		
2,800.00	2,780.15	2,776.19	2,776.05	9.45	6.41	176.09	-96.37	-170.95	507.41	491.81	15.60	32.526		
2,900.00	2,879.30	2,875.21	2,875.07	9.77	6.53	176.16	-96.97	-171.78	521.35	505.36	15.99	32.610		
3,000.00	2,978.46	2,974.23	2,974.09	10.09	6.65	176.23	-97.57	-172.60	535.28	518.89	16.38	32.669		
3,100.00	3,077.62	3,073.26	3,073.10	10.41	6.78	176.29	-98.17	-173.43	549.21	532.42	16.79	32.706		
3,200.00	3,176.77	3,172.28	3,172.12	10.73	6.92	176.36	-98.77	-174.25	563.15	545.94	17.21	32.722		
3,300.00	3,275.93	3,271.30	3,271.14	11.05	7.07	176.41	-99.36	-175.08	577.08	559.45	17.64	32.722		
3,400.00	3,375.08	3,370.32	3,370.16	11.37	7.22	176.47	-99.96	-175.90	591.02	572.95	18.07	32.707		
3,500.00	3,474.24	3,469.35	3,469.17	11.69	7.39	176.52	-100.56	-176.73	604.95	586.44	18.51	32.679		
3,600.00	3,573.39	3,568.37	3,568.19	12.01	7.56	176.57	-101.16	-177.55	618.89	599.93	18.96	32.639		
3,700.00	3,672.55	3,667.39	3,667.21	12.34	7.73	176.62	-101.76	-178.38	632.83	613.41	19.42	32.590		
3,800.00	3,771.71	3,766.41	3,766.23	12.66	7.91	176.67	-102.36	-179.20	646.76	626.88	19.88	32.533		
3,900.00	3,870.86	3,865.44	3,865.24	12.99	8.10	176.71	-102.96	-180.03	660.70	640.35	20.35	32.470		
4,000.00	3,970.02	3,964.46	3,964.26	13.31	8.29	176.76	-103.56	-180.85	674.64	653.82	20.82	32.400		
4,100.00	4,069.17	4,063.48	4,063.28	13.64	8.48	176.80	-104.16	-181.68	688.58	667.28	21.30	32.326		
4,200.00	4,168.33	4,162.50	4,162.30	13.97	8.68	176.84	-104.76	-182.50	702.51	680.73	21.78	32.248		
4,300.00	4,267.49	4,261.53	4,261.31	14.29	8.88	176.88	-105.36	-183.33	716.45	694.18	22.27	32.167		
4,400.00	4,366.64	4,360.55	4,360.33	14.62	9.09	176.91	-105.96	-184.15	730.39	707.63	22.77	32.084		
4,500.00	4,465.80	4,459.57	4,459.35	14.95	9.30	176.95	-106.56	-184.98	744.33	721.07	23.26	31.999		
4,600.00	4,564.95	4,558.60	4,558.37	15.28	9.51	176.98	-107.16	-185.80	758.27	734.51	23.76	31.912		
4,700.00	4,664.11	4,657.62	4,657.38	15.61	9.73	177.01	-107.76	-186.63	772.21	747.95	24.26	31.825		
4,800.00	4,763.26	4,756.64	4,756.40	15.94	9.95	177.05	-108.35	-187.45	786.15	761.38	24.77	31.737		
4,900.00	4,862.42	4,855.66	4,855.42	16.27	10.17	177.08	-108.95	-188.28	800.09	774.81	25.28	31.649		
5,000.00	4,961.58	4,954.69	4,954.44	16.60	10.40	177.11	-109.55	-189.10	814.03	788.24	25.79	31.561		
5,100.00	5,060.73	5,053.71	5,053.45	16.93	10.62	177.13	-110.15	-189.93	827.98	801.67	26.31	31.473		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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							
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	5,159.89	5,152.73	5,152.47	17.26	10.85	177.16	-110.75	-190.75	841.92	815.09	26.82	31.386	
5,300.00	5,259.04	5,251.75	5,251.49	17.59	11.08	177.19	-111.35	-191.58	855.86	828.51	27.34	31.299	
5,400.00	5,358.20	5,350.78	5,350.50	17.92	11.31	177.21	-111.95	-192.40	869.80	841.93	27.87	31.213	
5,500.00	5,457.36	5,449.80	5,449.52	18.25	11.55	177.24	-112.55	-193.23	883.74	855.35	28.39	31.128	
5,600.00	5,556.51	5,548.82	5,548.54	18.58	11.79	177.26	-113.15	-194.05	897.68	868.77	28.92	31.044	
5,700.00	5,655.67	5,647.84	5,647.56	18.91	12.02	177.29	-113.75	-194.87	911.62	882.18	29.44	30.962	
5,800.00	5,754.82	5,746.87	5,746.57	19.24	12.26	177.31	-114.35	-195.70	925.57	895.59	29.97	30.880	
5,900.00	5,853.98	5,845.89	5,845.59	19.58	12.50	177.33	-114.95	-196.52	939.51	909.01	30.50	30.799	
6,000.00	5,953.13	5,944.91	5,944.61	19.91	12.74	177.35	-115.55	-197.35	953.45	922.41	31.04	30.720	
6,100.00	6,052.29	6,043.94	6,043.63	20.24	12.99	177.37	-116.15	-198.17	967.39	935.82	31.57	30.642	
6,200.00	6,151.45	6,143.35	6,143.04	20.57	13.23	177.39	-116.75	-199.00	981.32	949.74	32.10	30.564	
6,300.00	6,250.60	6,242.50	6,242.19	20.90	13.47	177.41	-117.35	-199.82	995.24	963.64	32.63	30.486	
6,400.00	6,349.76	6,341.66	6,341.35	21.24	13.71	177.43	-117.95	-200.64	1009.16	977.54	33.16	30.408	
6,500.00	6,448.91	6,440.81	6,440.50	21.57	13.95	177.45	-118.55	-201.46	1023.08	991.44	33.69	30.330	
6,600.00	6,548.07	6,539.97	6,539.66	21.90	14.19	177.47	-119.15	-202.28	1036.99	1005.34	34.22	30.252	
6,700.00	6,647.26	6,639.16	6,638.85	22.24	14.43	177.49	-119.75	-203.10	1050.91	1019.24	34.75	30.174	
6,800.00	6,746.43	6,738.33	6,738.02	22.57	14.67	177.51	-120.35	-203.92	1064.82	1033.14	35.28	30.096	
6,900.00	6,845.60	6,837.50	6,837.19	22.91	14.91	177.53	-120.95	-204.74	1078.74	1047.04	35.81	30.018	
7,000.00	6,944.76	6,936.66	6,936.35	23.24	15.15	177.55	-121.55	-205.56	1092.65	1060.94	36.34	29.940	
7,100.00	7,043.91	7,035.81	7,035.50	23.57	15.39	177.57	-122.15	-206.38	1106.57	1074.84	36.87	29.862	
7,200.00	7,143.07	7,135.07	7,134.76	23.91	15.63	177.59	-122.75	-207.20	1120.48	1088.74	37.40	29.784	
7,300.00	7,242.22	7,234.22	7,233.91	24.24	15.87	177.61	-123.35	-208.02	1134.39	1102.64	37.93	29.706	
7,400.00	7,341.38	7,333.38	7,333.07	24.57	16.11	177.63	-123.95	-208.84	1148.31	1116.54	38.46	29.628	
7,500.00	7,440.53	7,432.53	7,432.22	24.91	16.35	177.65	-124.55	-209.66	1162.22	1130.44	38.99	29.550	
7,600.00	7,539.68	7,531.68	7,531.37	25.24	16.59	177.67	-125.15	-210.48	1176.13	1144.34	39.52	29.472	
7,700.00	7,638.84	7,630.84	7,630.53	25.57	16.83	177.69	-125.75	-211.30	1190.05	1158.24	40.05	29.394	
7,800.00	7,737.99	7,729.99	7,729.68	25.91	17.07	177.71	-126.35	-212.12	1203.96	1172.14	40.58	29.316	
7,900.00	7,837.14	7,829.14	7,828.83	26.24	17.31	177.73	-126.95	-212.94	1217.88	1186.04	41.11	29.238	
8,000.00	7,936.29	7,928.29	7,927.98	26.57	17.55	177.75	-127.55	-213.76	1231.79	1200.00	41.64	29.160	
8,100.00	8,035.44	8,027.44	8,027.13	26.91	17.79	177.77	-128.15	-214.58	1245.71	1213.90	42.17	29.082	
8,200.00	8,134.59	8,126.59	8,126.28	27.24	18.03	177.79	-128.75	-215.40	1259.62	1227.80	42.70	29.004	
8,300.00	8,233.74	8,225.74	8,225.43	27.57	18.27	177.81	-129.35	-216.22	1273.54	1241.70	43.23	28.926	
8,400.00	8,332.89	8,324.89	8,324.58	27.91	18.51	177.83	-129.95	-217.04	1287.45	1255.60	43.76	28.848	
8,500.00	8,432.04	8,424.04	8,423.73	28.24	18.75	177.85	-130.55	-217.86	1301.37	1269.50	44.29	28.770	
8,600.00	8,531.19	8,523.19	8,522.88	28.57	18.99	177.87	-131.15	-218.68	1315.28	1283.40	44.82	28.692	
8,700.00	8,630.34	8,622.34	8,622.03	28.91	19.23	177.89	-131.75	-219.50	1329.19	1297.30	45.35	28.614	
8,800.00	8,729.49	8,721.49	8,721.18	29.24	19.47	177.91	-132.35	-220.32	1343.11	1311.20	45.88	28.536	
8,900.00	8,828.64	8,820.64	8,820.33	29.57	19.71	177.93	-132.95	-221.14	1357.02	1325.10	46.41	28.458	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-105.36	-41.16	-149.89	155.44					
100.00	100.00	101.00	101.00	3.28	3.28	-105.36	-41.16	-149.89	155.44	147.91	7.53	20.646		
200.00	200.00	201.00	201.00	3.31	3.31	-105.36	-41.16	-149.89	155.44	147.87	7.57	20.522 CC		
300.00	299.98	300.70	300.68	3.35	3.35	-175.44	-39.60	-150.43	157.29	149.63	7.66	20.527		
400.00	399.84	400.52	400.47	3.42	3.42	-174.66	-37.13	-151.28	162.72	154.92	7.80	20.870		
500.00	499.45	500.10	500.02	3.51	3.51	-174.05	-34.66	-152.13	171.63	163.66	7.97	21.522		
600.00	598.72	600.66	599.22	3.63	3.61	-173.61	-32.20	-152.98	183.88	175.68	8.20	22.428		
700.00	697.87	701.54	698.31	3.77	3.74	-173.27	-29.75	-153.82	197.04	188.59	8.45	23.320		
800.00	797.03	802.42	797.40	3.94	3.88	-172.97	-27.30	-154.67	210.21	201.47	8.73	24.067		
900.00	896.19	903.29	896.49	4.13	4.03	-172.71	-24.84	-155.51	223.38	214.33	9.05	24.683		
1,000.00	995.34	1,004.17	995.58	4.34	4.20	-172.48	-22.39	-156.35	236.55	227.16	9.39	25.185		
1,100.00	1,094.50	1,105.04	1,094.67	4.56	4.38	-172.28	-19.94	-157.20	249.73	239.97	9.76	25.589		
1,200.00	1,193.65	1,205.92	1,193.76	4.80	4.57	-172.09	-17.48	-158.04	262.92	252.77	10.15	25.909		
1,300.00	1,292.81	1,306.80	1,292.85	5.05	4.77	-171.92	-15.03	-158.89	276.10	265.55	10.55	26.160		
1,400.00	1,391.97	1,407.67	1,391.94	5.31	4.98	-171.77	-12.58	-159.73	289.29	278.31	10.98	26.354		
1,500.00	1,491.12	1,508.55	1,491.03	5.57	5.19	-171.63	-10.12	-160.58	302.47	291.06	11.41	26.499		
1,600.00	1,590.28	1,609.42	1,590.12	5.85	5.41	-171.50	-7.67	-161.42	315.66	303.80	11.86	26.606		
1,700.00	1,689.43	1,689.70	1,689.21	6.13	5.59	-171.38	-5.22	-162.27	328.86	316.58	12.28	26.781		
1,800.00	1,788.59	1,788.82	1,788.30	6.41	5.81	-171.27	-2.76	-163.11	342.05	329.30	12.75	26.837		
1,900.00	1,887.75	1,887.95	1,887.39	6.70	5.94	-171.17	-0.31	-163.96	355.24	342.50	12.74	27.884		
2,000.00	1,986.90	1,987.07	1,986.48	7.00	5.96	-171.08	2.14	-164.80	368.44	355.42	13.02	28.304		
2,100.00	2,086.06	2,086.20	2,085.57	7.30	5.99	-170.99	4.60	-165.65	381.63	368.34	13.30	28.703		
2,200.00	2,185.21	2,185.32	2,184.66	7.60	6.02	-170.91	7.05	-166.49	394.83	381.24	13.59	29.052		
2,300.00	2,284.37	2,284.44	2,283.75	7.90	6.07	-170.84	9.50	-167.34	408.03	394.13	13.90	29.355		
2,400.00	2,383.52	2,383.57	2,382.84	8.21	6.13	-170.77	11.96	-168.18	421.23	407.00	14.22	29.615		
2,500.00	2,482.68	2,482.69	2,481.93	8.52	6.20	-170.70	14.41	-169.03	434.42	419.86	14.56	29.836		
2,600.00	2,581.84	2,581.82	2,581.02	8.83	6.29	-170.64	16.86	-169.87	447.62	432.71	14.91	30.020		
2,700.00	2,680.99	2,680.94	2,680.11	9.14	6.38	-170.58	19.32	-170.72	460.82	445.55	15.27	30.171		
2,800.00	2,780.15	2,780.06	2,779.20	9.45	6.48	-170.52	21.77	-171.56	474.02	458.37	15.65	30.293		
2,900.00	2,879.30	2,879.19	2,878.29	9.77	6.60	-170.47	24.22	-172.40	487.22	471.19	16.03	30.387		
3,000.00	2,978.46	2,978.31	2,977.38	10.09	6.72	-170.42	26.68	-173.25	500.42	483.99	16.43	30.457		
3,100.00	3,077.62	3,077.43	3,076.47	10.41	6.85	-170.37	29.13	-174.09	513.62	496.79	16.84	30.507		
3,200.00	3,176.77	3,176.56	3,175.56	10.73	6.99	-170.32	31.58	-174.94	526.83	509.57	17.25	30.537		
3,300.00	3,275.93	3,275.68	3,274.65	11.05	7.14	-170.28	34.04	-175.78	540.03	522.35	17.68	30.550		
3,400.00	3,375.08	3,374.81	3,373.74	11.37	7.29	-170.24	36.49	-176.63	553.23	535.12	18.11	30.549		
3,500.00	3,474.24	3,473.93	3,472.83	11.69	7.45	-170.20	38.94	-177.47	566.43	547.88	18.55	30.536		
3,600.00	3,573.39	3,573.05	3,571.92	12.01	7.62	-170.16	41.40	-178.32	579.64	560.64	19.00	30.511		
3,700.00	3,672.55	3,672.18	3,671.01	12.34	7.80	-170.13	43.85	-179.16	592.84	573.39	19.45	30.477		
3,800.00	3,771.71	3,771.30	3,770.10	12.66	7.98	-170.10	46.30	-180.01	606.04	586.13	19.91	30.435		
3,900.00	3,870.86	3,870.43	3,869.19	12.99	8.16	-170.06	48.76	-180.85	619.24	598.87	20.38	30.386		
4,000.00	3,970.02	3,969.55	3,968.28	13.31	8.35	-170.03	51.21	-181.70	632.45	611.60	20.85	30.332		
4,100.00	4,069.17	4,068.67	4,067.37	13.64	8.54	-170.00	53.66	-182.54	645.65	624.32	21.33	30.272		
4,200.00	4,168.33	4,167.80	4,166.46	13.97	8.74	-169.97	56.12	-183.39	658.86	637.05	21.81	30.209		
4,300.00	4,267.49	4,266.92	4,265.55	14.29	8.94	-169.95	58.57	-184.23	672.06	649.76	22.30	30.142		
4,400.00	4,366.64	4,366.05	4,364.64	14.62	9.15	-169.92	61.02	-185.08	685.26	662.48	22.79	30.072		
4,500.00	4,465.80	4,465.17	4,463.73	14.95	9.36	-169.89	63.48	-185.92	698.47	675.19	23.28	30.001		
4,600.00	4,564.95	4,564.29	4,562.82	15.28	9.57	-169.87	65.93	-186.77	711.67	687.89	23.78	29.927		
4,700.00	4,664.11	4,663.42	4,661.91	15.61	9.79	-169.85	68.38	-187.61	724.88	700.60	24.28	29.853		
4,800.00	4,763.26	4,762.54	4,761.00	15.94	10.01	-169.82	70.84	-188.46	738.08	713.29	24.79	29.778		
4,900.00	4,862.42	4,861.67	4,860.09	16.27	10.23	-169.80	73.29	-189.30	751.29	725.99	25.29	29.702		
5,000.00	4,961.58	4,960.79	4,959.18	16.60	10.45	-169.78	75.74	-190.14	764.49	738.69	25.80	29.626		
5,100.00	5,060.73	5,059.91	5,058.27	16.93	10.68	-169.76	78.20	-190.99	777.70	751.38	26.32	29.550		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,159.04	5,157.36	17.26	10.91	-169.74	80.65	-191.83	790.90	764.07	26.83	29.474		
5,300.00	5,259.04	5,258.16	5,256.45	17.59	11.14	-169.72	83.10	-192.68	804.11	776.75	27.35	29.399		
5,400.00	5,358.20	5,357.29	5,355.54	17.92	11.37	-169.70	85.56	-193.52	817.31	789.44	27.87	29.324		
5,500.00	5,457.36	5,456.41	5,454.63	18.25	11.60	-169.68	88.01	-194.37	830.52	802.12	28.39	29.249		
5,600.00	5,556.51	5,555.53	5,553.72	18.58	11.84	-169.67	90.47	-195.21	843.72	814.80	28.92	29.176		
5,700.00	5,655.67	5,654.66	5,652.81	18.91	12.08	-169.65	92.92	-196.06	856.93	827.48	29.44	29.103		
5,800.00	5,754.82	5,753.78	5,751.90	19.24	12.32	-169.63	95.37	-196.90	870.13	840.16	29.97	29.031		
5,900.00	5,853.98	5,852.91	5,850.99	19.58	12.56	-169.62	97.83	-197.75	883.34	852.84	30.50	28.960		
6,000.00	5,953.13	5,952.03	5,950.08	19.91	12.80	-169.60	100.28	-198.59	896.54	865.51	31.03	28.890		
6,100.00	6,052.29	6,051.15	6,049.17	20.24	13.04	-169.59	102.73	-199.44	909.75	878.18	31.57	28.821		
6,200.00	6,151.45	6,150.28	6,148.26	20.57	13.29	-169.57	105.19	-200.28	922.96	890.86	32.10	28.753		
6,300.00	6,250.60	7,831.19	7,173.47	20.90	21.28	142.99	126.15	724.57	930.70	902.31	28.40	32.775		
6,400.00	6,349.76	7,843.23	7,173.45	21.24	21.41	140.05	126.09	736.60	833.26	804.40	28.86	28.876		
6,500.00	6,448.91	7,855.26	7,173.43	21.57	21.55	136.92	126.04	748.63	736.30	706.92	29.38	25.058		
6,600.00	6,548.07	7,867.29	7,173.40	21.90	21.68	133.60	125.98	760.67	640.06	610.04	30.02	21.321		
6,700.03	6,647.26	7,879.33	7,173.38	22.24	21.82	130.11	125.92	772.70	544.87	514.03	30.84	17.669		
6,800.00	6,746.93	7,883.53	7,173.38	22.46	21.86	-146.74	125.90	776.90	451.01	419.09	31.92	14.130		
6,900.00	6,846.10	7,872.07	7,173.40	22.61	21.73	-122.87	125.96	765.45	360.82	327.36	33.45	10.785		
7,000.00	6,942.28	7,845.23	7,173.44	22.73	21.43	-121.69	126.08	738.60	279.26	243.41	35.84	7.791		
7,100.00	7,033.11	7,803.67	7,173.52	22.85	20.97	-116.00	126.28	697.04	213.73	174.32	39.41	5.423		
7,200.00	7,116.36	7,748.40	7,173.62	23.01	20.39	-104.17	126.55	641.78	174.82	131.83	42.99	4.067		
7,265.43	7,165.73	7,705.47	7,173.70	23.17	19.95	-93.43	126.75	598.85	167.73	124.10	43.63	3.845 ES, SF		
7,300.00	7,189.97	7,680.80	7,173.74	23.26	19.71	-87.21	126.87	574.18	169.46	126.25	43.21	3.922		
7,400.00	7,252.13	7,602.53	7,173.89	23.68	18.97	-69.73	127.24	495.91	188.58	147.97	40.61	4.644		
7,500.00	7,301.31	7,519.89	7,173.69	24.34	18.26	-56.73	127.63	413.27	215.68	177.43	38.25	5.639		
7,600.00	7,336.30	7,447.33	7,167.31	25.28	17.69	-48.19	127.81	341.04	244.99	208.07	36.92	6.635		
7,700.00	7,356.23	7,376.96	7,153.31	26.48	17.18	-41.87	127.79	272.11	274.54	238.18	36.36	7.552		
7,800.00	7,361.08	7,308.39	7,132.44	27.71	16.73	-37.54	127.59	206.83	302.74	267.21	35.53	8.521		
7,900.00	7,361.38	7,244.20	7,106.65	27.76	16.37	-34.70	127.23	148.07	336.91	301.92	34.99	9.628		
8,000.00	7,361.69	7,185.91	7,078.21	27.91	16.07	-31.99	126.77	97.22	380.04	345.20	34.84	10.908		
8,100.00	7,362.00	7,133.60	7,048.83	28.16	15.84	-29.59	126.24	53.96	431.23	396.22	35.01	12.317		
8,200.00	7,362.31	7,086.99	7,019.74	28.51	15.65	-27.54	125.70	17.57	489.45	454.05	35.40	13.827		
8,300.00	7,362.61	7,050.00	6,994.80	28.95	15.52	-25.99	125.21	-9.74	553.67	517.67	36.00	15.379		
8,400.00	7,362.92	7,000.00	6,958.65	29.47	15.35	-24.02	124.48	-44.27	622.95	586.68	36.27	17.173		
8,500.00	7,363.23	6,976.44	6,940.71	30.09	15.28	-23.16	124.11	-59.52	696.18	659.18	37.00	18.816		
8,600.00	7,363.53	6,950.00	6,919.91	30.78	15.21	-22.23	123.67	-75.85	773.03	735.47	37.56	20.581		
8,700.00	7,363.84	6,921.81	6,897.02	31.54	15.13	-21.29	123.18	-92.28	852.75	814.74	38.01	22.435		
8,800.00	7,364.15	6,900.00	6,878.82	32.37	15.07	-20.60	122.79	-104.29	934.93	896.45	38.47	24.301		
8,900.00	7,364.46	6,878.17	6,860.20	33.27	15.01	-19.94	122.38	-115.68	1,019.14	980.27	38.87	26.220		
9,000.00	7,364.76	6,850.00	6,835.62	34.22	14.94	-19.13	121.84	-129.42	1,105.21	1,066.06	39.15	28.229		
9,100.00	7,365.07	6,850.00	6,835.62	35.23	14.94	-19.13	121.84	-129.42	1,192.60	1,152.95	39.64	30.083		



# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-124.05	-100.91	-149.33	180.23				
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.33	180.23	172.70	7.53	23.938	
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.33	180.23	172.66	7.57	23.795 CC, ES	
300.00	299.98	296.54	296.52	3.35	3.34	165.07	-102.50	-149.67	183.15	175.49	7.66	23.924	
400.00	399.84	404.28	395.63	3.42	3.41	164.66	-106.12	-150.44	190.90	183.11	7.79	24.521	
500.00	499.45	504.91	494.93	3.51	3.48	164.52	-109.77	-151.22	202.02	194.06	7.96	25.386	
600.00	598.72	605.95	593.83	3.63	3.58	164.64	-113.40	-151.99	216.35	208.17	8.18	26.454	
700.00	697.87	707.11	692.59	3.77	3.71	164.85	-117.02	-152.76	231.56	223.14	8.43	27.482	
800.00	797.03	808.28	791.35	3.94	3.84	165.04	-120.65	-153.53	246.78	238.07	8.71	28.333	
900.00	896.19	909.45	890.12	4.13	4.00	165.20	-124.28	-154.30	261.99	252.97	9.03	29.027	
1,000.00	995.34	989.39	988.88	4.34	4.13	165.35	-127.90	-155.07	277.21	267.88	9.33	29.698	
1,100.00	1,094.50	1,088.22	1,087.64	4.56	4.31	165.48	-131.53	-155.84	292.43	282.73	9.70	30.155	
1,200.00	1,193.65	1,187.05	1,186.41	4.80	4.49	165.60	-135.16	-156.61	307.65	297.57	10.08	30.513	
1,300.00	1,292.81	1,285.88	1,285.17	5.05	4.69	165.70	-138.78	-157.39	322.87	312.39	10.49	30.788	
1,400.00	1,391.97	1,384.72	1,383.93	5.31	4.89	165.80	-142.41	-158.16	338.10	327.19	10.91	30.994	
1,500.00	1,491.12	1,483.55	1,482.70	5.57	5.10	165.89	-146.04	-158.93	353.32	341.98	11.34	31.144	
1,600.00	1,590.28	1,582.38	1,581.46	5.85	5.32	165.97	-149.66	-159.70	368.55	356.75	11.79	31.248	
1,700.00	1,689.43	1,681.22	1,680.22	6.13	5.54	166.05	-153.29	-160.47	383.77	371.52	12.25	31.316	
1,800.00	1,788.59	1,780.05	1,778.99	6.41	5.77	166.12	-156.92	-161.24	399.00	386.27	12.73	31.353	
1,900.00	1,887.75	1,878.88	1,877.75	6.70	5.91	166.18	-160.55	-162.01	414.22	401.49	12.74	32.525	
2,000.00	1,986.90	1,977.72	1,976.51	7.00	5.94	166.24	-164.17	-162.78	429.45	416.42	13.03	32.967	
2,100.00	2,086.06	2,076.55	2,075.28	7.30	5.97	166.29	-167.80	-163.55	444.68	431.37	13.31	33.411	
2,200.00	2,185.21	2,175.38	2,174.04	7.60	6.01	166.35	-171.43	-164.32	459.90	446.30	13.61	33.797	
2,300.00	2,284.37	2,274.21	2,272.80	7.90	6.06	166.39	-175.05	-165.10	475.13	461.21	13.92	34.129	
2,400.00	2,383.52	2,373.05	2,371.57	8.21	6.12	166.44	-178.68	-165.87	490.36	476.11	14.25	34.411	
2,500.00	2,482.68	2,471.88	2,470.33	8.52	6.19	166.48	-182.31	-166.64	505.59	491.00	14.59	34.646	
2,600.00	2,581.84	2,570.71	2,569.09	8.83	6.28	166.52	-185.93	-167.41	520.82	505.87	14.95	34.840	
2,700.00	2,680.99	2,669.55	2,667.86	9.14	6.38	166.56	-189.56	-168.18	536.05	520.73	15.32	34.995	
2,800.00	2,780.15	2,768.38	2,766.62	9.45	6.48	166.60	-193.19	-168.95	551.28	535.58	15.70	35.116	
2,900.00	2,879.30	2,867.21	2,865.38	9.77	6.60	166.63	-196.81	-169.72	566.51	550.42	16.09	35.206	
3,000.00	2,978.46	2,966.04	2,964.15	10.09	6.73	166.66	-200.44	-170.49	581.74	565.24	16.49	35.268	
3,100.00	3,077.62	3,064.88	3,062.91	10.41	6.86	166.69	-204.07	-171.26	596.97	580.06	16.91	35.306	
3,200.00	3,176.77	3,163.71	3,161.67	10.73	7.01	166.72	-207.69	-172.03	612.20	594.87	17.33	35.323	
3,300.00	3,275.93	3,262.54	3,260.44	11.05	7.16	166.75	-211.32	-172.80	627.43	609.66	17.76	35.321	
3,400.00	3,375.08	3,361.38	3,359.20	11.37	7.32	166.78	-214.95	-173.58	642.66	624.45	18.20	35.304	
3,500.00	3,474.24	3,460.21	3,457.96	11.69	7.48	166.80	-218.57	-174.35	657.89	639.24	18.65	35.272	
3,600.00	3,573.39	3,559.04	3,556.73	12.01	7.66	166.83	-222.20	-175.12	673.12	654.01	19.11	35.228	
3,700.00	3,672.55	3,657.88	3,655.49	12.34	7.84	166.85	-225.83	-175.89	688.35	668.78	19.57	35.174	
3,800.00	3,771.71	3,756.71	3,754.25	12.66	8.02	166.87	-229.45	-176.66	703.58	683.54	20.04	35.111	
3,900.00	3,870.86	3,855.54	3,853.02	12.99	8.21	166.89	-233.08	-177.43	718.81	698.30	20.51	35.041	
4,000.00	3,970.02	3,954.37	3,951.78	13.31	8.41	166.91	-236.71	-178.20	734.04	713.05	20.99	34.965	
4,100.00	4,069.17	4,053.21	4,050.55	13.64	8.61	166.93	-240.33	-178.97	749.27	727.79	21.48	34.883	
4,200.00	4,168.33	4,152.04	4,149.31	13.97	8.81	166.95	-243.96	-179.74	764.50	742.53	21.97	34.798	
4,300.00	4,267.49	4,250.87	4,248.07	14.29	9.02	166.97	-247.59	-180.51	779.73	757.27	22.46	34.710	
4,400.00	4,366.64	4,349.71	4,346.84	14.62	9.23	166.98	-251.21	-181.28	794.97	772.00	22.96	34.619	
4,500.00	4,465.80	4,448.54	4,445.60	14.95	9.44	167.00	-254.84	-182.06	810.20	786.73	23.47	34.526	
4,600.00	4,564.95	4,547.37	4,544.36	15.28	9.66	167.02	-258.47	-182.83	825.43	801.46	23.97	34.432	
4,700.00	4,664.11	4,646.21	4,643.13	15.61	9.88	167.03	-262.09	-183.60	840.66	816.18	24.48	34.337	
4,800.00	4,763.26	4,745.04	4,741.89	15.94	10.11	167.05	-265.72	-184.37	855.89	830.90	25.00	34.241	
4,900.00	4,862.42	4,843.87	4,840.65	16.27	10.33	167.06	-269.35	-185.14	871.12	845.61	25.51	34.145	
5,000.00	4,961.58	4,942.70	4,939.42	16.60	10.56	167.07	-272.97	-185.91	886.36	860.32	26.03	34.050	
5,100.00	5,060.73	5,041.54	5,038.18	16.93	10.79	167.09	-276.60	-186.68	901.59	875.03	26.55	33.954	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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
5,200.00	5,159.89	5,140.37	5,136.94	17.26	11.03	167.10	-280.23	-187.45	916.82	889.74	27.08	33.860	
5,300.00	5,259.04	5,239.20	5,235.71	17.59	11.26	167.11	-283.86	-188.22	932.05	904.45	27.60	33.766	
5,400.00	5,358.20	5,338.04	5,334.47	17.92	11.50	167.12	-287.48	-188.99	947.28	919.15	28.13	33.672	
5,500.00	5,457.36	5,436.87	5,433.23	18.25	11.74	167.14	-291.11	-189.76	962.51	933.85	28.66	33.580	
5,600.00	5,556.51	5,535.70	5,532.00	18.58	11.98	167.15	-294.74	-190.54	977.75	948.55	29.20	33.489	
5,700.00	5,655.67	5,634.53	5,630.76	18.91	12.22	167.16	-298.36	-191.31	992.98	963.25	29.73	33.400	
5,800.00	5,754.82	5,733.37	5,729.52	19.24	12.47	167.17	-301.99	-192.08	1,008.21	977.94	30.27	33.311	
5,900.00	5,853.98	5,832.20	5,828.29	19.58	12.71	167.18	-305.62	-192.85	1,023.44	992.64	30.80	33.224	
6,000.00	5,953.13	5,931.03	5,927.05	19.91	12.96	167.19	-309.24	-193.62	1,038.67	1,007.33	31.34	33.138	
6,100.00	6,052.29	6,029.87	6,025.81	20.24	13.21	167.20	-312.87	-194.39	1,053.91	1,022.02	31.88	33.054	
6,200.00	6,151.45	6,128.70	6,124.58	20.57	13.46	167.21	-316.50	-195.16	1,069.14	1,036.71	32.43	32.971	
6,300.00	6,250.60	6,227.53	6,223.34	20.90	13.71	167.22	-320.12	-195.93	1,084.37	1,051.40	32.97	32.889	
6,400.00	6,349.76	6,326.37	6,322.10	21.24	13.96	167.23	-323.75	-196.70	1,099.60	1,066.09	33.52	32.809	
6,500.00	6,448.91	6,425.05	6,420.76	21.57	14.21	167.24	-327.37	-197.47	1,114.83	1,074.56	34.07	32.729	
6,600.00	6,548.07	6,524.00	6,519.61	21.90	14.46	167.25	-331.00	-198.24	1,130.06	1,089.79	34.62	32.649	
6,700.00	6,647.26	6,623.07	6,618.58	22.24	14.71	167.26	-334.62	-199.01	1,145.29	1,104.99	35.17	32.569	
6,800.00	6,746.43	6,722.03	6,717.44	22.57	14.96	167.27	-338.25	-199.78	1,160.52	1,120.19	35.72	32.489	
6,900.00	6,845.60	6,821.00	6,816.31	22.91	15.21	167.28	-341.87	-200.55	1,175.75	1,135.39	36.27	32.409	
7,000.00	6,944.76	6,920.00	6,915.21	23.24	15.46	167.29	-345.50	-201.32	1,190.98	1,150.59	36.82	32.329	
7,100.00	7,043.93	7,019.00	7,014.11	23.58	15.71	167.30	-349.12	-202.09	1,206.21	1,165.79	37.37	32.249	
7,200.00	7,143.10	7,118.00	7,113.11	23.91	15.96	167.31	-352.75	-202.86	1,221.44	1,180.99	37.92	32.169	
7,300.00	7,242.26	7,217.00	7,212.11	24.25	16.21	167.32	-356.37	-203.63	1,236.67	1,196.19	38.47	32.089	
7,400.00	7,341.43	7,316.00	7,311.11	24.58	16.46	167.33	-360.00	-204.40	1,251.90	1,211.39	39.02	32.009	
7,500.00	7,440.60	7,415.00	7,410.11	24.92	16.71	167.34	-363.62	-205.17	1,267.13	1,226.59	39.57	31.929	
7,600.00	7,539.76	7,514.00	7,509.11	25.25	16.96	167.35	-367.25	-205.94	1,282.36	1,241.79	40.12	31.849	
7,700.00	7,638.93	7,613.00	7,608.11	25.59	17.21	167.36	-370.87	-206.71	1,297.59	1,256.99	40.67	31.769	
7,800.00	7,738.10	7,712.00	7,707.11	25.92	17.46	167.37	-374.50	-207.48	1,312.82	1,272.19	41.22	31.689	
7,900.00	7,837.26	7,811.00	7,806.11	26.26	17.71	167.38	-378.12	-208.25	1,328.05	1,287.39	41.77	31.609	
8,000.00	7,936.43	7,910.00	7,905.11	26.59	17.96	167.39	-381.75	-209.02	1,343.28	1,302.59	42.32	31.529	
8,100.00	8,035.60	8,009.00	8,004.11	26.93	18.21	167.40	-385.37	-209.79	1,358.51	1,317.79	42.87	31.449	
8,200.00	8,134.76	8,108.00	8,103.11	27.26	18.46	167.41	-389.00	-210.56	1,373.74	1,332.99	43.42	31.369	
8,300.00	8,233.93	8,207.00	8,202.11	27.60	18.71	167.42	-392.62	-211.33	1,388.97	1,348.19	43.97	31.289	
8,400.00	8,333.10	8,306.00	8,301.11	27.93	18.96	167.43	-396.25	-212.10	1,404.20	1,363.39	44.52	31.209	
8,500.00	8,432.26	8,405.00	8,400.11	28.27	19.21	167.44	-399.87	-212.87	1,419.43	1,378.59	45.07	31.129	
8,600.00	8,531.43	8,504.00	8,499.11	28.60	19.46	167.45	-403.50	-213.64	1,434.66	1,393.79	45.62	31.049	
8,700.00	8,630.60	8,603.00	8,598.11	28.94	19.71	167.46	-407.12	-214.41	1,449.89	1,408.99	46.17	30.969	
8,800.00	8,729.76	8,702.00	8,697.11	29.27	19.96	167.47	-410.75	-215.18	1,465.12	1,424.19	46.72	30.889	
8,900.00	8,828.93	8,801.00	8,796.11	29.61	20.21	167.48	-414.37	-215.95	1,480.35	1,439.39	47.27	30.809	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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		
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	299.80	299.77	3.35	3.35	-153.10	20.67	-150.34	153.31	145.65	7.66	20.008		
400.00	399.84	398.33	398.17	3.42	3.42	-152.08	25.77	-150.83	159.17	151.38	7.80	20.419		
500.00	499.45	502.36	497.21	3.51	3.52	-150.96	33.05	-151.53	168.68	160.70	7.98	21.138		
600.00	598.72	603.15	596.15	3.63	3.63	-150.46	40.35	-152.23	181.15	172.94	8.21	22.066		
700.00	697.87	704.03	694.99	3.77	3.76	-150.25	47.65	-152.93	194.41	185.94	8.47	22.955		
800.00	797.03	804.92	793.84	3.94	3.90	-150.06	54.94	-153.64	207.68	198.91	8.77	23.690		
900.00	896.19	905.81	892.68	4.13	4.07	-149.89	62.23	-154.34	220.95	211.85	9.10	24.291		
1,000.00	995.34	1,006.69	991.52	4.34	4.25	-149.74	69.53	-155.04	234.22	224.76	9.45	24.773		
1,100.00	1,094.50	1,107.58	1,090.37	4.56	4.44	-149.61	76.82	-155.74	247.49	237.65	9.84	25.155		
1,200.00	1,193.65	1,208.46	1,189.21	4.80	4.64	-149.49	84.12	-156.45	260.76	250.52	10.24	25.453		
1,300.00	1,292.81	1,309.35	1,288.05	5.05	4.86	-149.39	91.41	-157.15	274.03	263.36	10.67	25.681		
1,400.00	1,391.97	1,389.76	1,386.89	5.31	5.03	-149.29	98.71	-157.85	287.31	276.24	11.07	25.957		
1,500.00	1,491.12	1,488.88	1,485.74	5.57	5.25	-149.20	106.00	-158.55	300.58	289.06	11.52	26.090		
1,600.00	1,590.28	1,587.99	1,584.58	5.85	5.48	-149.12	113.29	-159.25	313.86	301.87	11.99	26.184		
1,700.00	1,689.43	1,687.10	1,683.42	6.13	5.71	-149.05	120.59	-159.96	327.13	314.67	12.46	26.247		
1,800.00	1,788.59	1,786.22	1,782.26	6.41	5.95	-148.98	127.88	-160.66	340.41	327.46	12.95	26.285		
1,900.00	1,887.75	1,885.33	1,881.11	6.70	6.19	-148.91	135.18	-161.36	353.69	340.62	13.07	27.069		
2,000.00	1,986.90	1,984.45	1,979.95	7.00	6.44	-148.85	142.47	-162.06	366.97	353.40	13.57	27.042		
2,100.00	2,086.06	2,083.56	2,078.79	7.30	6.69	-148.80	149.77	-162.77	380.24	366.16	14.08	27.004		
2,200.00	2,185.21	2,182.67	2,177.64	7.60	6.94	-148.75	157.06	-163.47	393.52	378.92	14.60	26.957		
2,300.00	2,284.37	2,281.79	2,276.48	7.90	7.20	-148.70	164.35	-164.17	406.80	391.68	15.12	26.903		
2,400.00	2,383.52	2,380.90	2,375.32	8.21	7.46	-148.66	171.65	-164.87	420.08	404.43	15.65	26.844		
2,500.00	2,482.68	2,480.02	2,474.16	8.52	7.72	-148.61	178.94	-165.58	433.36	417.18	16.18	26.782		
2,600.00	2,581.84	2,579.13	2,573.01	8.83	7.98	-148.57	186.24	-166.28	446.64	429.92	16.72	26.717		
2,700.00	2,680.99	2,678.24	2,671.85	9.14	8.24	-148.54	193.53	-166.98	459.92	442.66	17.26	26.650		
2,800.00	2,780.15	2,777.36	2,770.69	9.45	8.51	-148.50	200.82	-167.68	473.20	455.39	17.80	26.583		
2,900.00	2,879.30	2,876.47	2,869.53	9.77	8.77	-148.47	208.12	-168.38	486.47	468.13	18.35	26.515		
3,000.00	2,978.46	2,975.59	2,968.38	10.09	9.04	-148.44	215.41	-169.09	499.75	480.86	18.90	26.447		
3,100.00	3,077.62	3,074.70	3,067.22	10.41	9.31	-148.41	222.71	-169.79	513.03	493.59	19.45	26.380		
3,200.00	3,176.77	3,173.81	3,166.06	10.73	9.58	-148.38	230.00	-170.49	526.31	506.31	20.00	26.314		
3,300.00	3,275.93	3,272.93	3,264.90	11.05	9.85	-148.35	237.30	-171.19	539.60	519.04	20.56	26.248		
3,400.00	3,375.08	3,372.04	3,363.75	11.37	10.13	-148.33	244.59	-171.90	552.88	531.76	21.12	26.183		
3,500.00	3,474.24	3,471.16	3,462.59	11.69	10.40	-148.30	251.88	-172.60	566.16	544.48	21.68	26.120		
3,600.00	3,573.39	3,570.27	3,561.43	12.01	10.68	-148.28	259.18	-173.30	579.44	557.20	22.24	26.057		
3,700.00	3,672.55	3,669.38	3,660.28	12.34	10.95	-148.26	266.47	-174.00	592.72	569.92	22.80	25.996		
3,800.00	3,771.71	3,768.50	3,759.12	12.66	11.23	-148.24	273.77	-174.71	606.00	582.63	23.36	25.937		
3,900.00	3,870.86	3,867.61	3,857.96	12.99	11.50	-148.22	281.06	-175.41	619.28	595.35	23.93	25.879		
4,000.00	3,970.02	3,966.73	3,956.80	13.31	11.78	-148.20	288.36	-176.11	632.56	608.06	24.50	25.822		
4,100.00	4,069.17	4,065.84	4,055.65	13.64	12.06	-148.18	295.65	-176.81	645.84	620.77	25.07	25.766		
4,200.00	4,168.33	4,164.95	4,154.49	13.97	12.33	-148.16	302.94	-177.51	659.12	633.49	25.63	25.712		
4,300.00	4,267.49	4,264.07	4,253.33	14.29	12.61	-148.14	310.24	-178.22	672.40	646.20	26.20	25.660		
4,400.00	4,366.64	4,363.18	4,352.17	14.62	12.89	-148.13	317.53	-178.92	685.68	658.91	26.78	25.608		
4,500.00	4,465.80	4,462.30	4,451.02	14.95	13.17	-148.11	324.83	-179.62	698.96	671.62	27.35	25.558		
4,600.00	4,564.95	4,561.41	4,549.86	15.28	13.45	-148.09	332.12	-180.32	712.25	684.33	27.92	25.510		
4,700.00	4,664.11	4,660.52	4,648.70	15.61	13.73	-148.08	339.41	-181.03	725.53	697.03	28.49	25.462		
4,800.00	4,763.26	4,759.64	4,747.54	15.94	14.01	-148.06	346.71	-181.73	738.81	709.74	29.07	25.416		
4,900.00	4,862.42	4,858.75	4,846.39	16.27	14.29	-148.05	354.00	-182.43	752.09	722.45	29.64	25.371		
5,000.00	4,961.58	4,957.87	4,945.23	16.60	14.57	-148.04	361.30	-183.13	765.37	735.15	30.22	25.327		
5,100.00	5,060.73	5,056.98	5,044.07	16.93	14.85	-148.02	368.59	-183.84	778.65	747.86	30.80	25.284		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,156.09	5,142.92	17.26	15.14	-148.01	375.89	-184.54	791.93	760.56	31.37	25.243	
5,300.00	5,259.04	5,255.21	5,241.76	17.59	15.42	-148.00	383.18	-185.24	805.22	773.27	31.95	25.202	
5,400.00	5,358.20	5,354.32	5,340.60	17.92	15.70	-147.99	390.47	-185.94	818.50	785.97	32.53	25.163	
5,500.00	5,457.36	5,453.43	5,439.44	18.25	15.98	-147.98	397.77	-186.64	831.78	798.67	33.11	25.124	
5,600.00	5,556.51	5,552.55	5,538.29	18.58	16.27	-147.97	405.06	-187.35	845.06	811.37	33.69	25.087	
5,700.00	5,655.67	5,651.66	5,637.13	18.91	16.55	-147.96	412.36	-188.05	858.34	824.08	34.27	25.050	
5,800.00	5,754.82	5,750.78	5,735.97	19.24	16.83	-147.95	419.65	-188.75	871.62	836.78	34.85	25.014	
5,900.00	5,853.98	5,849.89	5,834.81	19.58	17.11	-147.94	426.95	-189.45	884.91	849.48	35.43	24.979	
6,000.00	5,953.13	5,949.00	5,933.66	19.91	17.40	-147.93	434.24	-190.16	898.19	862.18	36.01	24.945	
6,100.00	6,052.29	6,048.12	6,032.50	20.24	17.68	-147.92	441.53	-190.86	911.47	874.88	36.59	24.912	
6,200.00	6,151.45	6,147.23	6,131.34	20.57	17.96	-147.91	448.83	-191.56	924.75	887.58	37.17	24.880	
6,300.00	6,250.60	6,246.35	6,230.19	20.90	18.25	-147.90	456.12	-192.26	938.03	900.28	37.75	24.848	
6,400.00	6,349.76	6,345.46	6,329.03	21.24	18.53	-147.89	463.42	-192.97	951.31	912.98	38.33	24.817	
6,500.00	6,448.91	6,444.58	6,427.49	21.57	18.81	-147.88	470.71	-193.67	964.60	925.67	38.91	24.786	
6,600.00	6,548.07	6,543.69	6,526.47	21.90	19.09	-147.87	478.10	-194.37	977.89	938.36	39.49	24.755	
6,700.00	6,647.26	6,642.78	6,625.45	22.24	19.37	-147.86	485.49	-195.07	991.18	951.05	40.07	24.724	
6,800.00	6,746.43	6,741.89	6,724.44	22.57	19.65	-147.85	492.88	-195.77	1004.47	963.72	40.65	24.693	
6,900.00	6,845.60	6,840.97	6,823.03	22.91	19.93	-147.84	500.27	-196.47	1017.76	976.41	41.23	24.662	
7,000.00	6,944.78	6,939.99	6,921.99	23.24	20.21	-147.83	507.66	-197.17	1031.05	989.10	41.81	24.631	
7,100.00	7,043.95	7,038.99	7,020.99	23.58	20.49	-147.82	515.05	-197.87	1044.34	1001.79	42.39	24.600	
7,200.00	7,143.12	7,137.99	7,119.99	23.91	20.77	-147.81	522.44	-198.57	1057.63	1014.48	42.97	24.569	
7,300.00	7,242.29	7,236.99	7,214.00	24.25	21.05	-147.80	529.83	-199.27	1070.92	1027.17	43.55	24.538	
7,400.00	7,341.46	7,335.99	7,313.00	24.58	21.33	-147.79	537.22	-199.97	1084.21	1039.86	44.13	24.507	
7,500.00	7,440.63	7,434.99	7,412.00	24.92	21.61	-147.78	544.61	-200.67	1097.50	1052.55	44.71	24.476	
7,600.00	7,539.80	7,533.99	7,512.00	25.25	21.89	-147.77	552.00	-201.37	1110.79	1065.24	45.29	24.445	
7,700.00	7,638.97	7,632.99	7,612.00	25.59	22.17	-147.76	559.39	-202.07	1124.08	1077.93	45.87	24.414	
7,800.00	7,738.14	7,731.99	7,712.00	25.92	22.45	-147.75	566.78	-202.77	1137.37	1090.62	46.45	24.383	
7,900.00	7,837.31	7,830.99	7,812.00	26.26	22.73	-147.74	574.17	-203.47	1150.66	1103.31	47.03	24.352	
8,000.00	7,936.48	7,929.99	7,912.00	26.59	23.01	-147.73	581.56	-204.17	1163.95	1116.00	47.61	24.321	
8,100.00	8,035.65	8,028.99	8,012.00	26.93	23.29	-147.72	588.95	-204.87	1177.24	1128.69	48.19	24.290	
8,200.00	8,134.82	8,127.99	8,112.00	27.26	23.57	-147.71	596.34	-205.57	1190.53	1141.38	48.77	24.259	
8,300.00	8,233.99	8,226.99	8,212.00	27.60	23.85	-147.70	603.73	-206.27	1203.82	1154.07	49.35	24.228	
8,400.00	8,333.16	8,325.99	8,312.00	27.93	24.13	-147.69	611.12	-206.97	1217.11	1166.76	49.93	24.197	
8,500.00	8,432.33	8,424.99	8,412.00	28.27	24.41	-147.68	618.51	-207.67	1230.40	1179.45	50.51	24.166	
8,600.00	8,531.50	8,523.99	8,512.00	28.60	24.69	-147.67	625.90	-208.37	1243.69	1192.14	51.09	24.135	
8,700.00	8,630.67	8,622.99	8,612.00	28.94	24.97	-147.66	633.29	-209.07	1256.98	1204.83	51.67	24.104	
8,800.00	8,729.84	8,721.99	8,712.00	29.27	25.25	-147.65	640.68	-209.77	1270.27	1217.52	52.25	24.073	
8,900.00	8,829.01	8,820.99	8,812.00	29.61	25.53	-147.64	648.07	-210.47	1283.56	1230.21	52.83	24.042	
9,000.00	8,928.18	8,919.99	8,912.00	29.94	25.81	-147.63	655.46	-211.17	1296.85	1242.90	53.41	24.011	
9,100.00	9,027.35	9,018.99	9,012.00	30.28	26.09	-147.62	662.85	-211.87	1310.14	1255.59	53.99	23.980	
9,200.00	9,126.52	9,117.99	9,112.00	30.61	26.37	-147.61	670.24	-212.57	1323.43	1268.28	54.57	23.949	
9,300.00	9,225.69	9,216.99	9,212.00	30.95	26.65	-147.60	677.63	-213.27	1336.72	1280.97	55.15	23.918	
9,400.00	9,324.86	9,315.99	9,312.00	31.28	26.93	-147.59	685.02	-213.97	1350.01	1293.66	55.73	23.887	
9,500.00	9,424.03	9,414.99	9,412.00	31.62	27.21	-147.58	692.41	-214.67	1363.30	1306.35	56.31	23.856	
9,600.00	9,523.20	9,513.99	9,512.00	31.95	27.49	-147.57	699.80	-215.37	1376.59	1319.04	56.89	23.825	
9,700.00	9,622.37	9,612.99	9,612.00	32.29	27.77	-147.56	707.19	-216.07	1389.88	1331.73	57.47	23.794	
9,800.00	9,721.54	9,711.99	9,712.00	32.62	28.05	-147.55	714.58	-216.77	1403.17	1344.42	58.05	23.763	
9,900.00	9,820.71	9,810.99	9,812.00	32.96	28.33	-147.54	721.97	-217.47	1416.46	1357.11	58.63	23.732	
10,000.00	9,919.88	9,909.99	9,912.00	33.29	28.61	-147.53	729.36	-218.17	1429.75	1369.80	59.21	23.701	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-90.42	-1.09	-150.17	150.17				
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.09	-150.17	150.17	142.65	7.53	19.946	
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.09	-150.17	150.17	142.60	7.57	19.827	CC, ES
300.00	299.98	300.44	300.42	3.35	3.35	-160.61	0.66	-150.35	152.00	144.34	7.66	19.836	
400.00	399.84	415.45	399.39	3.42	3.43	-159.32	5.81	-150.90	157.52	149.72	7.81	20.172	
500.00	499.45	500.95	498.63	3.51	3.51	-157.84	12.97	-151.65	166.65	158.67	7.98	20.887	
600.00	598.72	601.74	597.58	3.63	3.62	-156.94	20.11	-152.40	178.93	170.72	8.21	21.800	
700.00	697.87	702.63	696.43	3.77	3.75	-156.33	27.24	-153.15	192.07	183.61	8.47	22.687	
800.00	797.03	803.52	795.28	3.94	3.90	-155.79	34.37	-153.90	205.24	196.48	8.76	23.425	
900.00	896.19	904.40	894.14	4.13	4.07	-155.32	41.51	-154.65	218.42	209.33	9.09	24.031	
1,000.00	995.34	1,005.29	992.99	4.34	4.24	-154.90	48.64	-155.40	231.61	222.16	9.45	24.521	
1,100.00	1,094.50	1,106.18	1,091.84	4.56	4.44	-154.53	55.77	-156.15	244.81	234.99	9.83	24.912	
1,200.00	1,193.65	1,207.07	1,190.69	4.80	4.64	-154.19	62.91	-156.90	258.03	247.80	10.23	25.219	
1,300.00	1,292.81	1,307.95	1,289.55	5.05	4.85	-153.89	70.04	-157.65	271.25	260.59	10.66	25.457	
1,400.00	1,391.97	1,391.16	1,388.40	5.31	5.03	-153.62	77.17	-158.40	284.48	273.42	11.06	25.728	
1,500.00	1,491.12	1,509.73	1,487.25	5.57	5.29	-153.37	84.31	-159.15	297.71	286.16	11.55	25.772	
1,600.00	1,590.28	1,589.38	1,586.10	5.85	5.48	-153.14	91.44	-159.90	310.95	298.98	11.97	25.975	
1,700.00	1,689.43	1,688.50	1,684.96	6.13	5.71	-152.93	98.57	-160.64	324.19	311.75	12.45	26.047	
1,800.00	1,788.59	1,787.61	1,783.81	6.41	5.95	-152.74	105.71	-161.39	337.44	324.51	12.93	26.095	
1,900.00	1,887.75	1,886.72	1,882.66	6.70	6.09	-152.56	112.84	-162.14	350.69	337.75	12.94	27.095	
2,000.00	1,986.90	1,985.83	1,981.51	7.00	6.12	-152.39	119.97	-162.89	363.94	350.71	13.23	27.504	
2,100.00	2,086.06	2,084.95	2,080.37	7.30	6.15	-152.24	127.11	-163.64	377.20	363.68	13.52	27.895	
2,200.00	2,185.21	2,184.06	2,179.22	7.60	6.19	-152.09	134.24	-164.39	390.46	376.63	13.83	28.238	
2,300.00	2,284.37	2,283.17	2,278.07	7.90	6.24	-151.96	141.37	-165.14	403.72	389.57	14.15	28.536	
2,400.00	2,383.52	2,382.28	2,376.92	8.21	6.31	-151.83	148.51	-165.89	416.98	402.50	14.48	28.791	
2,500.00	2,482.68	2,481.40	2,475.78	8.52	6.39	-151.72	155.64	-166.64	430.25	415.42	14.83	29.008	
2,600.00	2,581.84	2,580.51	2,574.63	8.83	6.47	-151.61	162.77	-167.39	443.51	428.32	15.19	29.190	
2,700.00	2,680.99	2,679.62	2,673.48	9.14	6.57	-151.50	169.91	-168.14	456.78	441.21	15.57	29.339	
2,800.00	2,780.15	2,778.73	2,772.34	9.45	6.68	-151.40	177.04	-168.89	470.05	454.10	15.96	29.459	
2,900.00	2,879.30	2,877.85	2,871.19	9.77	6.80	-151.31	184.17	-169.64	483.32	466.97	16.35	29.553	
3,000.00	2,978.46	2,976.96	2,970.04	10.09	6.93	-151.22	191.31	-170.39	496.60	479.83	16.76	29.624	
3,100.00	3,077.62	3,076.07	3,068.89	10.41	7.07	-151.14	198.44	-171.14	509.87	492.69	17.18	29.674	
3,200.00	3,176.77	3,175.18	3,167.75	10.73	7.21	-151.06	205.57	-171.89	523.14	505.53	17.61	29.706	
3,300.00	3,275.93	3,274.30	3,266.60	11.05	7.36	-150.98	212.71	-172.64	536.42	518.37	18.05	29.722	
3,400.00	3,375.08	3,373.41	3,365.45	11.37	7.53	-150.91	219.84	-173.39	549.69	531.20	18.49	29.724	
3,500.00	3,474.24	3,472.52	3,464.30	11.69	7.69	-150.84	226.97	-174.14	562.97	544.02	18.95	29.713	
3,600.00	3,573.39	3,571.63	3,563.16	12.01	7.87	-150.78	234.11	-174.89	576.25	556.84	19.41	29.692	
3,700.00	3,672.55	3,670.75	3,662.01	12.34	8.04	-150.72	241.24	-175.64	589.53	569.65	19.87	29.662	
3,800.00	3,771.71	3,769.86	3,760.86	12.66	8.23	-150.66	248.37	-176.39	602.81	582.46	20.35	29.624	
3,900.00	3,870.86	3,868.97	3,859.71	12.99	8.42	-150.60	255.51	-177.14	616.09	595.26	20.83	29.580	
4,000.00	3,970.02	3,968.08	3,958.57	13.31	8.62	-150.54	262.64	-177.89	629.37	608.05	21.31	29.529	
4,100.00	4,069.17	4,067.20	4,057.42	13.64	8.81	-150.49	269.77	-178.64	642.65	620.84	21.80	29.475	
4,200.00	4,168.33	4,166.31	4,156.27	13.97	9.02	-150.44	276.90	-179.39	655.93	633.63	22.30	29.416	
4,300.00	4,267.49	4,265.42	4,255.13	14.29	9.23	-150.39	284.04	-180.14	669.21	646.41	22.80	29.354	
4,400.00	4,366.64	4,364.53	4,353.98	14.62	9.44	-150.35	291.17	-180.89	682.49	659.19	23.30	29.289	
4,500.00	4,465.80	4,463.65	4,452.83	14.95	9.65	-150.30	298.30	-181.64	695.77	671.96	23.81	29.222	
4,600.00	4,564.95	4,562.76	4,551.68	15.28	9.87	-150.26	305.44	-182.39	709.06	684.74	24.32	29.154	
4,700.00	4,664.11	4,661.87	4,650.54	15.61	10.09	-150.22	312.57	-183.14	722.34	697.50	24.84	29.084	
4,800.00	4,763.26	4,760.98	4,749.39	15.94	10.32	-150.18	319.70	-183.89	735.62	710.27	25.35	29.014	
4,900.00	4,862.42	4,860.10	4,848.24	16.27	10.54	-150.14	326.84	-184.64	748.91	723.03	25.88	28.943	
5,000.00	4,961.58	4,959.21	4,947.09	16.60	10.77	-150.10	333.97	-185.38	762.19	735.79	26.40	28.872	
5,100.00	5,060.73	5,058.32	5,045.95	16.93	11.00	-150.07	341.10	-186.13	775.48	748.55	26.93	28.800	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,157.43	5,144.80	17.26	11.24	-150.03	348.24	-186.88	788.76	761.31	27.46	28.729		
5,300.00	5,259.04	5,256.55	5,243.65	17.59	11.47	-150.00	355.37	-187.63	802.05	774.06	27.99	28.658		
5,400.00	5,358.20	5,355.66	5,342.50	17.92	11.71	-149.97	362.50	-188.38	815.33	786.81	28.52	28.588		
5,500.00	5,457.36	5,454.77	5,441.36	18.25	11.95	-149.94	369.64	-189.13	828.62	799.56	29.06	28.518		
5,600.00	5,556.51	5,553.88	5,540.21	18.58	12.19	-149.91	376.77	-189.88	841.91	812.31	29.59	28.449		
5,700.00	5,655.67	5,653.00	5,639.06	18.91	12.44	-149.88	383.90	-190.63	855.19	825.06	30.13	28.380		
5,800.00	5,754.82	5,752.11	5,737.91	19.24	12.68	-149.85	391.04	-191.38	868.48	837.80	30.67	28.312		
5,900.00	5,853.98	5,851.22	5,836.77	19.58	12.93	-149.82	398.17	-192.13	881.76	850.55	31.22	28.245		
6,000.00	5,953.13	5,950.33	5,935.62	19.91	13.17	-149.79	405.30	-192.88	895.05	863.29	31.76	28.179		
6,100.00	6,052.29	6,049.45	6,034.47	20.24	13.42	-149.77	412.44	-193.63	908.34	876.03	32.31	28.114		
6,200.00	6,151.45	7,707.32	7,038.61	20.57	21.42	-99.46	483.21	712.99	916.40	888.49	27.91	32.832		
6,300.00	6,250.60	7,704.76	7,038.60	20.90	21.39	-96.69	483.19	725.07	819.67	791.33	28.34	28.921		
6,400.00	6,349.76	7,716.85	7,038.58	21.24	21.53	-93.79	483.16	737.15	723.63	694.70	28.93	25.014		
6,500.00	6,448.91	7,728.93	7,038.56	21.57	21.66	-90.75	483.14	749.24	628.58	598.93	29.66	21.196		
6,600.00	6,548.07	7,741.01	7,038.55	21.90	21.80	-87.58	483.12	761.32	535.08	504.46	30.62	17.475		
6,700.03	6,647.26	7,753.10	7,038.53	22.24	21.93	-84.31	483.09	773.41	444.06	412.06	32.00	13.877		
6,800.00	6,746.93	7,757.36	7,038.52	22.46	21.98	41.44	483.09	777.66	357.06	323.01	34.05	10.486		
6,900.00	6,846.10	7,745.95	7,038.54	22.61	21.85	88.21	483.11	766.26	279.14	241.96	37.18	7.507		
7,000.00	6,942.28	7,719.16	7,038.58	22.73	21.55	93.06	483.16	739.46	220.59	179.19	41.40	5.328		
7,100.00	7,033.11	7,677.64	7,038.64	22.85	21.10	86.68	483.24	697.95	195.00	150.77	44.23	4.409		
7,115.08	7,046.21	7,670.16	7,038.65	22.87	21.02	85.02	483.26	690.47	194.56	150.27	44.29	4.393 SF		
7,200.00	7,116.36	7,622.42	7,038.72	23.01	20.52	73.37	483.35	642.73	206.82	164.01	42.81	4.831		
7,300.00	7,189.97	7,554.86	7,038.81	23.26	19.84	58.14	483.48	575.17	241.88	202.28	39.60	6.108		
7,400.00	7,252.13	7,476.62	7,038.92	23.68	19.10	45.67	483.63	496.92	283.21	246.14	37.07	7.640		
7,500.00	7,301.31	7,400.00	7,038.69	24.34	18.44	37.79	483.76	420.31	321.09	285.49	35.60	9.019		
7,600.00	7,336.30	7,335.09	7,033.37	25.28	17.92	32.77	483.49	355.65	355.91	320.96	34.95	10.184		
7,700.00	7,356.23	7,272.85	7,022.12	26.48	17.45	29.06	482.79	294.46	387.52	352.67	34.85	11.120		
7,800.00	7,361.08	7,211.55	7,005.27	27.71	17.03	26.53	481.69	235.56	415.33	381.12	34.22	12.138		
7,900.00	7,361.38	7,150.00	6,982.76	27.76	16.64	24.93	480.17	178.32	447.78	413.84	33.93	13.196		
8,000.00	7,361.69	7,100.00	6,960.47	27.91	16.36	23.50	478.64	133.60	488.10	454.04	34.06	14.331		
8,100.00	7,362.00	7,050.00	6,934.76	28.16	16.11	22.00	476.87	90.77	535.71	501.38	34.33	15.605		
8,200.00	7,362.31	7,000.00	6,905.77	28.51	15.88	20.49	474.85	50.10	589.87	555.20	34.67	17.015		
8,300.00	7,362.61	6,965.33	6,883.84	28.95	15.74	19.45	473.32	23.29	649.65	614.32	35.33	18.387		
8,400.00	7,362.92	6,929.01	6,859.35	29.47	15.61	18.38	471.60	-3.46	714.44	678.52	35.92	19.890		
8,500.00	7,363.23	6,900.00	6,838.72	30.09	15.50	17.55	470.15	-23.80	783.52	746.95	36.57	21.425		
8,600.00	7,363.53	6,866.93	6,814.10	30.78	15.40	16.64	468.41	-45.80	856.22	819.14	37.08	23.090		
8,700.00	7,363.84	6,850.00	6,801.06	31.54	15.35	16.18	467.49	-56.57	932.19	894.44	37.75	24.692		
8,800.00	7,364.15	6,816.52	6,774.46	32.37	15.26	15.31	465.61	-76.81	1,010.60	972.47	38.13	26.506		
8,900.00	7,364.46	6,800.00	6,760.96	33.27	15.22	14.89	464.65	-86.27	1,091.46	1,052.82	38.65	28.241		
9,000.00	7,364.76	6,775.25	6,740.28	34.22	15.17	14.29	463.19	-99.79	1,174.25	1,135.23	39.02	30.093		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-98.02	-21.13	-149.89	151.37				
100.00	100.00	101.00	101.00	3.28	3.28	-98.02	-21.13	-149.89	151.37	143.84	7.53	20.105	
200.00	200.00	201.00	201.00	3.31	3.31	-98.02	-21.13	-149.89	151.37	143.80	7.57	19.985	
300.00	299.98	300.81	300.79	3.35	3.35	-168.13	-19.38	-150.18	153.14	145.47	7.66	19.984	
400.00	399.84	400.54	400.42	3.42	3.42	-166.89	-15.00	-150.92	158.45	150.65	7.80	20.322	
500.00	499.45	500.12	499.90	3.51	3.51	-165.95	-10.46	-151.68	167.22	159.24	7.98	20.966	
600.00	598.72	600.62	599.05	3.63	3.62	-165.37	-5.94	-152.43	179.26	171.06	8.20	21.858	
700.00	697.87	701.47	698.09	3.77	3.74	-164.97	-1.42	-153.19	192.19	183.73	8.45	22.734	
800.00	797.03	802.32	797.14	3.94	3.89	-164.62	3.11	-153.95	205.12	196.38	8.74	23.465	
900.00	896.19	903.16	896.18	4.13	4.04	-164.32	7.63	-154.70	218.07	209.01	9.06	24.067	
1,000.00	995.34	1,004.01	995.23	4.34	4.21	-164.04	12.15	-155.46	231.02	221.61	9.41	24.556	
1,100.00	1,094.50	1,104.86	1,094.28	4.56	4.40	-163.80	16.67	-156.22	243.97	234.19	9.78	24.948	
1,200.00	1,193.65	1,205.71	1,193.32	4.80	4.59	-163.58	21.19	-156.97	256.93	246.76	10.17	25.259	
1,300.00	1,292.81	1,306.56	1,292.37	5.05	4.79	-163.38	25.71	-157.73	269.89	259.31	10.58	25.501	
1,400.00	1,391.97	1,407.40	1,391.42	5.31	5.00	-163.21	30.23	-158.49	282.86	271.84	11.01	25.686	
1,500.00	1,491.12	1,491.75	1,490.46	5.57	5.18	-163.04	34.76	-159.24	295.82	284.40	11.42	25.906	
1,600.00	1,590.28	1,609.10	1,589.51	5.85	5.44	-162.89	39.28	-160.00	308.79	296.88	11.91	25.926	
1,700.00	1,689.43	1,709.95	1,688.56	6.13	5.67	-162.75	43.80	-160.76	321.76	309.39	12.38	25.997	
1,800.00	1,788.59	1,789.21	1,787.60	6.41	5.85	-162.63	48.32	-161.51	334.74	321.93	12.80	26.143	
1,900.00	1,887.75	1,888.36	1,886.65	6.70	6.08	-162.51	52.84	-162.27	347.71	334.81	12.90	26.945	
2,000.00	1,986.90	1,987.51	1,985.69	7.00	6.32	-162.40	57.36	-163.03	360.68	347.29	13.39	26.931	
2,100.00	2,086.06	2,086.66	2,084.74	7.30	6.56	-162.30	61.88	-163.78	373.66	359.77	13.89	26.905	
2,200.00	2,185.21	2,185.82	2,183.79	7.60	6.80	-162.20	66.41	-164.54	386.64	372.25	14.39	26.869	
2,300.00	2,284.37	2,284.97	2,282.83	7.90	7.04	-162.11	70.93	-165.30	399.62	384.72	14.90	26.826	
2,400.00	2,383.52	2,384.12	2,381.88	8.21	7.29	-162.03	75.45	-166.05	412.60	397.19	15.41	26.777	
2,500.00	2,482.68	2,483.27	2,480.93	8.52	7.54	-161.95	79.97	-166.81	425.58	409.65	15.93	26.723	
2,600.00	2,581.84	2,582.43	2,579.97	8.83	7.79	-161.88	84.49	-167.57	438.56	422.11	16.45	26.667	
2,700.00	2,680.99	2,681.58	2,679.02	9.14	8.04	-161.81	89.01	-168.32	451.54	434.57	16.97	26.608	
2,800.00	2,780.15	2,780.73	2,778.06	9.45	8.30	-161.75	93.53	-169.08	464.52	447.03	17.50	26.548	
2,900.00	2,879.30	2,879.88	2,877.11	9.77	8.55	-161.68	98.06	-169.84	477.51	459.48	18.03	26.486	
3,000.00	2,978.46	2,979.03	2,976.16	10.09	8.81	-161.63	102.58	-170.59	490.49	471.93	18.56	26.425	
3,100.00	3,077.62	3,078.19	3,075.20	10.41	9.07	-161.57	107.10	-171.35	503.47	484.38	19.10	26.363	
3,200.00	3,176.77	3,177.34	3,174.25	10.73	9.33	-161.52	111.62	-172.11	516.46	496.82	19.64	26.302	
3,300.00	3,275.93	3,276.49	3,273.30	11.05	9.59	-161.47	116.14	-172.86	529.44	509.27	20.18	26.241	
3,400.00	3,375.08	3,375.64	3,372.34	11.37	9.85	-161.42	120.66	-173.62	542.43	521.71	20.72	26.181	
3,500.00	3,474.24	3,474.80	3,471.39	11.69	10.12	-161.37	125.18	-174.38	555.41	534.15	21.26	26.122	
3,600.00	3,573.39	3,573.95	3,570.44	12.01	10.38	-161.33	129.71	-175.13	568.40	546.59	21.81	26.064	
3,700.00	3,672.55	3,673.10	3,669.48	12.34	10.64	-161.29	134.23	-175.89	581.38	559.03	22.36	26.007	
3,800.00	3,771.71	3,772.25	3,768.53	12.66	10.91	-161.25	138.75	-176.64	594.37	571.47	22.90	25.951	
3,900.00	3,870.86	3,871.41	3,867.57	12.99	11.17	-161.21	143.27	-177.40	607.36	583.90	23.45	25.896	
4,000.00	3,970.02	3,970.56	3,966.62	13.31	11.44	-161.18	147.79	-178.16	620.35	596.34	24.01	25.842	
4,100.00	4,069.17	4,069.71	4,065.67	13.64	11.71	-161.14	152.31	-178.91	633.33	608.77	24.56	25.790	
4,200.00	4,168.33	4,168.86	4,164.71	13.97	11.97	-161.11	156.83	-179.67	646.32	621.21	25.11	25.739	
4,300.00	4,267.49	4,268.02	4,263.76	14.29	12.24	-161.07	161.36	-180.43	659.31	633.64	25.67	25.689	
4,400.00	4,366.64	4,367.17	4,362.81	14.62	12.51	-161.04	165.88	-181.18	672.29	646.07	26.22	25.640	
4,500.00	4,465.80	4,466.32	4,461.85	14.95	12.78	-161.01	170.40	-181.94	685.28	658.51	26.78	25.592	
4,600.00	4,564.95	4,565.47	4,560.90	15.28	13.05	-160.99	174.92	-182.70	698.27	670.94	27.33	25.546	
4,700.00	4,664.11	4,664.62	4,659.94	15.61	13.31	-160.96	179.44	-183.45	711.26	683.37	27.89	25.500	
4,800.00	4,763.26	4,763.78	4,758.99	15.94	13.58	-160.93	183.96	-184.21	724.25	695.80	28.45	25.456	
4,900.00	4,862.42	4,862.93	4,858.04	16.27	13.85	-160.91	188.48	-184.97	737.24	708.23	29.01	25.413	
5,000.00	4,961.58	4,962.08	4,957.08	16.60	14.12	-160.88	193.01	-185.72	750.23	720.65	29.57	25.371	
5,100.00	5,060.73	5,061.23	5,056.13	16.93	14.39	-160.86	197.53	-186.48	763.21	733.08	30.13	25.330	



# Hewlett-Packard

## Anticollision Report

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

Offset Design													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	5,159.89	5,160.39	5,155.18	17.26	14.67	-160.83	202.05	-187.24	776.20	745.51	30.69	25.290		
5,300.00	5,259.04	5,259.54	5,254.22	17.59	14.94	-160.81	206.57	-187.99	789.19	757.94	31.25	25.251		
5,400.00	5,358.20	5,358.69	5,353.27	17.92	15.21	-160.79	211.09	-188.75	802.18	770.36	31.82	25.213		
5,500.00	5,457.36	5,457.84	5,452.32	18.25	15.48	-160.77	215.61	-189.51	815.17	782.79	32.38	25.175		
5,600.00	5,556.51	5,557.00	5,551.36	18.58	15.75	-160.75	220.13	-190.26	828.16	795.22	32.94	25.139		
5,700.00	5,655.67	5,656.15	5,650.41	18.91	16.02	-160.73	224.66	-191.02	841.15	807.64	33.51	25.104		
5,800.00	5,754.82	5,755.30	5,749.45	19.24	16.30	-160.71	229.18	-191.78	854.14	820.07	34.07	25.069		
5,900.00	5,853.98	5,854.45	5,848.50	19.58	16.57	-160.69	233.70	-192.53	867.13	832.49	34.64	25.036		
6,000.00	5,953.13	5,953.61	5,947.55	19.91	16.84	-160.67	238.22	-193.29	880.12	844.92	35.20	25.003		
6,100.00	6,052.29	6,052.76	6,046.59	20.24	17.11	-160.66	242.74	-194.05	893.11	857.34	35.77	24.970		
6,200.00	6,151.45	6,151.91	6,145.64	20.57	17.39	-160.64	247.26	-194.80	906.10	869.77	36.33	24.939		
6,300.00	6,250.60	6,251.06	6,244.69	20.90	17.66	-160.62	251.78	-195.56	919.09	882.19	36.90	24.908		
6,400.00	6,349.76	7,913.82	7,243.48	21.24	27.32	-161.23	295.67	737.36	893.51	865.97	27.53	32.453		
6,500.00	6,448.91	7,925.87	7,243.46	21.57	27.37	-161.34	295.65	749.41	794.23	766.43	27.81	28.564		
6,600.00	6,548.07	7,937.92	7,243.44	21.90	27.41	-161.47	295.62	761.47	694.96	666.88	28.08	24.749		
6,700.03	6,647.26	7,949.98	7,243.42	22.24	27.46	-161.65	295.60	773.52	595.66	567.30	28.36	21.004		
6,800.00	6,746.93	7,954.20	7,243.41	22.46	27.47	133.50	295.59	777.75	495.89	467.25	28.63	17.320		
6,900.00	6,846.10	7,942.77	7,243.43	22.61	27.43	168.32	295.61	766.31	396.65	367.78	28.86	13.742		
7,000.00	6,942.28	7,915.94	7,243.48	22.73	27.33	173.64	295.67	739.49	300.42	271.37	29.05	10.341		
7,100.00	7,033.11	7,874.40	7,243.55	22.85	27.19	175.80	295.74	697.94	209.57	180.36	29.21	7.175		
7,200.00	7,116.36	7,819.15	7,243.65	23.01	27.04	177.21	295.85	642.70	126.35	97.00	29.35	4.305		
7,300.00	7,189.97	7,751.57	7,243.77	23.26	26.89	179.22	295.98	575.11	52.80	23.29	29.51	1.789		
7,383.62	7,242.80	7,686.78	7,243.88	23.61	26.61	-93.14	296.10	510.32	1.82	-48.82	50.64	0.036 Level 1, CC, ES, SF		
7,400.00	7,252.13	7,673.30	7,243.90	23.68	26.45	-16.37	296.13	496.85	9.49	-21.07	30.56	0.311 Level 1		
7,500.00	7,301.31	7,588.80	7,243.47	24.34	25.36	-4.83	296.26	412.35	59.05	29.26	29.79	1.982		
7,600.00	7,336.30	7,509.43	7,235.31	25.28	24.05	-3.81	296.03	333.45	103.61	73.07	30.53	3.393		
7,700.00	7,356.23	7,433.29	7,218.33	26.48	22.94	-3.41	295.39	259.28	145.00	113.36	31.64	4.582		
7,800.00	7,361.08	7,359.81	7,193.67	27.71	22.01	-3.23	294.39	190.12	183.18	151.50	31.69	5.781		
7,900.00	7,361.38	7,291.92	7,163.94	27.76	21.30	-3.15	293.14	129.13	227.37	194.34	33.03	6.884		
8,000.00	7,361.69	7,231.25	7,132.03	27.91	20.79	-3.09	291.78	77.57	280.37	245.90	34.47	8.133		
8,100.00	7,362.00	7,177.63	7,099.85	28.16	20.41	-3.04	290.39	34.73	340.76	304.89	35.87	9.499		
8,200.00	7,362.31	7,130.55	7,068.71	28.51	20.13	-3.00	289.03	-0.55	407.25	370.10	37.16	10.960		
8,300.00	7,362.61	7,089.30	7,039.36	28.95	19.92	-2.96	287.75	-29.49	478.76	440.46	38.30	12.500		
8,400.00	7,362.92	7,050.00	7,009.71	29.47	19.74	-2.94	286.44	-55.24	554.39	515.19	39.21	14.141		
8,500.00	7,363.23	7,021.40	6,987.16	30.09	19.63	-2.92	285.44	-72.80	633.37	593.20	40.17	15.767		
8,600.00	7,363.53	7,000.00	6,969.78	30.78	19.55	-2.91	284.67	-85.27	715.21	674.14	41.07	17.416		
8,700.00	7,363.84	6,968.70	6,943.63	31.54	19.46	-2.89	283.51	-102.43	799.23	757.65	41.58	19.221		
8,800.00	7,364.15	6,950.00	6,927.63	32.37	19.42	-2.88	282.80	-112.07	885.26	843.05	42.21	20.974		
8,900.00	7,364.46	6,927.14	6,907.68	33.27	19.37	-2.87	281.91	-123.20	972.88	930.22	42.66	22.806		
9,000.00	7,364.76	6,900.00	6,883.50	34.22	19.32	-2.86	280.83	-135.48	1,061.99	1,019.00	42.98	24.706		
9,100.00	7,365.07	6,900.00	6,883.50	35.23	19.32	-2.86	280.83	-135.48	1,152.08	1,108.51	43.57	26.441		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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
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	300.22	300.20	3.35	3.35	109.30	-19.49	1.67	20.07	12.41	7.66	2.620	
400.00	399.84	400.43	400.27	3.42	3.42	109.16	-17.87	6.67	20.18	12.39	7.79	2.591	
500.00	499.45	500.65	500.10	3.51	3.51	108.92	-15.16	14.99	20.37	12.40	7.97	2.557	
600.00	598.72	600.83	599.53	3.63	3.63	108.32	-11.39	26.60	20.60	12.40	8.21	2.511	
700.00	697.87	700.83	698.61	3.77	3.77	106.64	-7.22	39.44	20.75	12.24	8.50	2.440	
800.00	797.03	800.83	797.70	3.94	3.95	104.98	-3.04	52.28	20.91	12.06	8.85	2.363	
900.00	896.19	900.83	896.78	4.13	4.14	103.34	1.13	65.12	21.08	11.85	9.23	2.284	
1,000.00	995.34	1,000.83	995.86	4.34	4.35	101.74	5.30	77.96	21.28	11.62	9.65	2.204	
1,100.00	1,094.50	1,100.82	1,094.94	4.56	4.58	100.16	9.47	90.81	21.49	11.38	10.10	2.126	
1,200.00	1,193.65	1,200.82	1,194.03	4.80	4.82	98.62	13.64	103.65	21.71	11.13	10.58	2.052	
1,300.00	1,292.81	1,300.82	1,293.11	5.05	5.07	97.11	17.82	116.49	21.95	10.87	11.08	1.981	
1,400.00	1,391.97	1,400.82	1,392.19	5.31	5.34	95.63	21.99	129.33	22.21	10.61	11.61	1.914	
1,500.00	1,491.12	1,500.82	1,491.27	5.57	5.61	94.19	26.16	142.17	22.48	10.34	12.14	1.852	
1,600.00	1,590.28	1,600.82	1,590.35	5.85	5.89	92.78	30.33	155.01	22.77	10.08	12.69	1.794	
1,700.00	1,689.43	1,700.81	1,689.44	6.13	6.17	91.41	34.51	167.85	23.07	9.81	13.25	1.741	
1,800.00	1,788.59	1,800.81	1,788.52	6.41	6.46	90.07	38.68	180.69	23.38	9.56	13.82	1.691	
1,900.00	1,887.75	1,900.81	1,887.60	6.70	6.62	88.77	42.85	193.54	23.70	9.82	13.88	1.707	
2,000.00	1,986.90	2,000.81	1,986.68	7.00	6.65	87.51	47.02	206.38	24.04	9.84	14.20	1.693	
2,100.00	2,086.06	2,100.81	2,085.77	7.30	6.69	86.28	51.20	219.22	24.38	9.85	14.53	1.678	
2,200.00	2,185.21	2,200.80	2,184.85	7.60	6.75	85.09	55.37	232.06	24.74	9.86	14.88	1.662	
2,300.00	2,284.37	2,300.80	2,283.93	7.90	6.83	83.93	59.54	244.90	25.11	9.86	15.25	1.647	
2,400.00	2,383.52	2,400.80	2,383.01	8.21	6.91	82.80	63.71	257.74	25.49	9.86	15.63	1.631	
2,500.00	2,482.68	2,500.80	2,482.10	8.52	7.01	81.71	67.89	270.58	25.87	9.85	16.02	1.615	
2,600.00	2,581.84	2,600.80	2,581.18	8.83	7.12	80.65	72.06	283.42	26.27	9.84	16.43	1.599	
2,700.00	2,680.99	2,700.79	2,680.26	9.14	7.25	79.62	76.23	296.27	26.68	9.83	16.85	1.584	
2,800.00	2,780.15	2,800.79	2,779.34	9.45	7.38	78.62	80.40	309.11	27.09	9.82	17.28	1.568	
2,900.00	2,879.30	2,900.79	2,878.42	9.77	7.53	77.66	84.58	321.95	27.51	9.80	17.72	1.553	
3,000.00	2,978.46	3,000.79	2,977.51	10.09	7.69	76.72	88.75	334.79	27.94	9.78	18.17	1.538	
3,100.00	3,077.62	3,100.79	3,076.59	10.41	7.85	75.81	92.92	347.63	28.38	9.75	18.63	1.524	
3,200.00	3,176.77	3,200.78	3,175.67	10.73	8.03	74.93	97.09	360.47	28.82	9.73	19.09	1.509	
3,300.00	3,275.93	3,300.78	3,274.75	11.05	8.21	74.08	101.26	373.31	29.27	9.70	19.57	1.496 Level 3	
3,400.00	3,375.08	3,400.78	3,373.84	11.37	8.40	73.25	105.44	386.15	29.73	9.67	20.05	1.482 Level 3	
3,500.00	3,474.24	3,500.78	3,472.92	11.69	8.60	72.45	109.61	399.00	30.19	9.65	20.54	1.469 Level 3	
3,600.00	3,573.39	3,600.78	3,572.00	12.01	8.80	71.67	113.78	411.84	30.66	9.62	21.04	1.457 Level 3	
3,700.00	3,672.55	3,700.77	3,671.08	12.34	9.01	70.91	117.95	424.68	31.13	9.59	21.55	1.445 Level 3	
3,800.00	3,771.71	3,800.77	3,770.17	12.66	9.23	70.18	122.13	437.52	31.61	9.56	22.05	1.433 Level 3	
3,900.00	3,870.86	3,900.77	3,869.25	12.99	9.45	69.47	126.30	450.36	32.10	9.53	22.57	1.422 Level 3	
4,000.00	3,970.02	4,000.77	3,968.33	13.31	9.68	68.78	130.47	463.20	32.58	9.50	23.09	1.411 Level 3	
4,100.00	4,069.17	4,100.77	4,067.41	13.64	9.91	68.12	134.64	476.04	33.08	9.47	23.61	1.401 Level 3	
4,200.00	4,168.33	4,200.76	4,166.49	13.97	10.14	67.47	138.82	488.89	33.57	9.44	24.14	1.391 Level 3	
4,300.00	4,267.49	4,300.76	4,265.58	14.29	10.38	66.84	142.99	501.73	34.08	9.41	24.67	1.381 Level 3	
4,400.00	4,366.64	4,400.76	4,364.66	14.62	10.63	66.23	147.16	514.57	34.58	9.38	25.20	1.372 Level 3	
4,500.00	4,465.80	4,500.76	4,463.74	14.95	10.88	65.63	151.33	527.41	35.09	9.35	25.74	1.363 Level 3	
4,600.00	4,564.95	4,600.76	4,562.82	15.28	11.13	65.06	155.51	540.25	35.61	9.33	26.28	1.355 Level 3	
4,700.00	4,664.11	4,700.75	4,661.91	15.61	11.38	64.50	159.68	553.09	36.12	9.30	26.82	1.347 Level 3	
4,800.00	4,763.26	4,800.75	4,760.99	15.94	11.64	63.95	163.85	565.93	36.64	9.27	27.37	1.339 Level 3	
4,900.00	4,862.42	4,900.75	4,860.07	16.27	11.90	63.42	168.02	578.77	37.17	9.25	27.92	1.331 Level 3	
5,000.00	4,961.58	5,000.75	4,959.15	16.60	12.16	62.91	172.20	591.62	37.69	9.22	28.47	1.324 Level 3	
5,100.00	5,060.73	5,100.75	5,058.24	16.93	12.43	62.41	176.37	604.46	38.22	9.20	29.02	1.317 Level 3	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,200.74	5,157.32	17.26	12.69	61.92	180.54	617.30	38.75	9.17	29.58	1.310	Level 3	
5,300.00	5,259.04	5,300.74	5,256.40	17.59	12.96	61.45	184.71	630.14	39.29	9.15	30.14	1.304	Level 3	
5,400.00	5,358.20	5,400.74	5,355.48	17.92	13.23	60.99	188.88	642.98	39.83	9.13	30.70	1.297	Level 3	
5,500.00	5,457.36	5,500.74	5,454.56	18.25	13.51	60.54	193.06	655.82	40.37	9.11	31.26	1.291	Level 3	
5,600.00	5,556.51	5,600.74	5,553.65	18.58	13.78	60.11	197.23	668.66	40.91	9.09	31.82	1.286	Level 3	
5,700.00	5,655.67	5,700.74	5,652.73	18.91	14.06	59.68	201.40	681.50	41.45	9.07	32.38	1.280	Level 3	
5,800.00	5,754.82	5,800.73	5,751.81	19.24	14.33	59.27	205.57	694.35	42.00	9.05	32.95	1.275	Level 3	
5,900.00	5,853.98	5,900.73	5,850.89	19.58	14.61	58.86	209.75	707.19	42.55	9.03	33.52	1.270	Level 3	
6,000.00	5,953.13	6,000.73	5,949.98	19.91	14.90	58.47	213.92	720.03	43.10	9.02	34.08	1.265	Level 3	
6,100.00	6,052.29	6,100.73	6,049.06	20.24	15.18	58.09	218.09	732.87	43.65	9.00	34.65	1.260	Level 3	
6,200.00	6,151.45	6,200.73	6,148.14	20.57	15.46	57.72	222.26	745.71	44.21	8.99	35.22	1.255	Level 3	
6,300.00	6,250.60	6,300.72	6,247.22	20.90	15.75	57.35	226.44	758.55	44.77	8.97	35.79	1.251	Level 3	
6,400.00	6,349.76	6,402.85	6,348.54	21.24	16.02	57.90	230.70	770.51	44.46	8.06	36.40	1.221	Level 2	
6,500.00	6,448.91	6,506.62	6,452.10	21.57	16.19	72.61	235.09	769.15	34.92	-2.61	37.53	0.930	Level 1	
6,577.53	6,525.79	6,582.52	6,526.98	21.83	16.27	109.40	238.28	757.50	27.74	-10.82	38.56	0.719	Level 1, ES, SF	
6,600.00	6,548.07	6,603.49	6,547.37	21.90	16.30	124.04	239.16	752.72	28.81	-9.26	38.06	0.757	Level 1	
6,700.03	6,647.26	6,690.22	6,629.71	22.24	16.35	167.18	242.69	725.87	57.38	22.80	34.58	1.659		
6,800.00	6,746.93	6,769.28	6,700.95	22.46	16.38	-69.63	245.77	691.85	101.13	67.91	33.22	3.044		
6,900.00	6,846.10	6,844.97	6,764.71	22.61	16.40	-25.31	248.54	651.25	143.82	111.62	32.20	4.466		
7,000.00	6,942.28	6,918.01	6,821.26	22.73	16.42	-16.85	251.01	605.15	183.43	152.22	31.22	5.876		
7,100.00	7,033.11	6,988.99	6,870.81	22.85	16.45	-13.04	253.20	554.43	219.22	188.94	30.28	7.239		
7,200.00	7,116.36	7,058.37	6,913.50	23.01	16.52	-10.87	255.11	499.82	250.73	221.26	29.47	8.508		
7,300.00	7,189.97	7,126.49	6,949.41	23.26	16.62	-9.50	256.73	441.98	277.61	248.77	28.84	9.625		
7,400.00	7,252.13	7,193.67	6,978.56	23.68	16.77	-8.60	258.07	381.52	299.61	271.13	28.48	10.521		
7,500.00	7,301.31	7,260.13	7,000.99	24.34	16.97	-8.01	259.13	318.99	316.53	288.10	28.43	11.132		
7,600.00	7,336.30	7,326.11	7,016.70	25.28	17.21	-7.65	259.91	254.94	328.23	299.49	28.74	11.421		
7,700.00	7,356.23	7,391.79	7,025.67	26.48	17.50	-7.46	260.41	189.91	334.60	305.20	29.40	11.382		
7,800.00	7,361.08	7,464.55	7,028.09	27.71	17.88	-7.43	260.64	117.22	335.81	305.56	30.25	11.101		
7,900.00	7,361.38	7,564.55	7,028.51	27.76	18.52	-7.45	260.83	17.22	335.71	305.07	30.64	10.956		
8,000.00	7,361.69	7,664.55	7,028.94	27.91	19.26	-7.46	261.03	-82.78	335.60	304.48	31.13	10.782		
8,100.00	7,362.00	7,764.55	7,029.36	28.16	20.12	-7.48	261.23	-182.78	335.50	303.79	31.71	10.580		
8,200.00	7,362.31	7,864.55	7,029.78	28.51	21.08	-7.49	261.42	-282.78	335.39	303.01	32.39	10.356		
8,300.00	7,362.61	7,964.55	7,030.20	28.95	22.12	-7.51	261.62	-382.77	335.29	302.14	33.15	10.116		
8,400.00	7,362.92	8,064.55	7,030.63	29.47	23.24	-7.52	261.81	-482.77	335.18	301.20	33.99	9.862		
8,500.00	7,363.23	8,164.55	7,031.05	30.09	24.41	-7.54	262.01	-582.77	335.08	300.17	34.90	9.600		
8,600.00	7,363.53	8,264.55	7,031.47	30.78	25.65	-7.55	262.20	-682.77	334.97	299.08	35.89	9.333		
8,700.00	7,363.84	8,364.55	7,031.89	31.54	26.92	-7.57	262.40	-782.77	334.87	297.93	36.94	9.065		
8,800.00	7,364.15	8,464.55	7,032.32	32.37	28.25	-7.58	262.60	-882.77	334.76	296.71	38.05	8.798		
8,900.00	7,364.46	8,564.55	7,032.74	33.27	29.60	-7.60	262.79	-982.77	334.66	295.44	39.22	8.534		
9,000.00	7,364.76	8,664.55	7,033.16	34.22	30.99	-7.62	262.99	-1,082.77	334.56	294.12	40.43	8.275		
9,100.00	7,365.07	8,764.55	7,033.58	35.23	32.40	-7.63	263.18	-1,182.77	334.45	292.76	41.69	8.022		
9,200.00	7,365.38	8,864.55	7,034.01	36.29	33.84	-7.65	263.38	-1,282.76	334.35	291.35	42.99	7.777		
9,300.00	7,365.68	8,964.55	7,034.43	37.39	35.30	-7.66	263.57	-1,382.76	334.24	289.91	44.33	7.540		
9,400.00	7,365.99	9,064.55	7,034.85	38.53	36.77	-7.68	263.77	-1,482.76	334.14	288.43	45.71	7.311		
9,500.00	7,366.30	9,164.55	7,035.27	39.71	38.27	-7.69	263.97	-1,582.76	334.03	286.92	47.11	7.090		
9,600.00	7,366.60	9,264.55	7,035.70	40.92	39.77	-7.71	264.16	-1,682.76	333.93	285.38	48.55	6.878		
9,700.00	7,366.91	9,364.55	7,036.12	42.17	41.29	-7.72	264.36	-1,782.76	333.82	283.81	50.01	6.675		
9,800.00	7,367.22	9,464.55	7,036.54	43.44	42.82	-7.74	264.55	-1,882.76	333.72	282.22	51.49	6.481		
9,900.00	7,367.53	9,564.55	7,036.96	44.74	44.36	-7.75	264.75	-1,982.76	333.61	280.61	53.00	6.294		
10,000.00	7,367.83	9,664.55	7,037.39	46.07	45.91	-7.77	264.94	-2,082.75	333.51	278.98	54.53	6.116		
10,100.00	7,368.14	9,764.55	7,037.81	47.41	47.47	-7.78	265.14	-2,182.75	333.41	277.33	56.08	5.945		
10,200.00	7,368.45	9,864.55	7,038.23	48.78	49.04	-7.80	265.34	-2,282.75	333.30	275.66	57.64	5.782		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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		
10,300.00	7,368.75	9,964.55	7,038.65	50.17	50.61	-7.81	265.53	-2,382.75	333.20	273.97	59.22	5.626		
10,400.00	7,369.06	10,064.55	7,039.08	51.57	52.19	-7.83	265.73	-2,482.75	333.09	272.27	60.82	5.477		
10,500.00	7,369.37	10,164.55	7,039.50	52.99	53.77	-7.84	265.92	-2,582.75	332.99	270.56	62.43	5.334		
10,600.00	7,369.68	10,264.55	7,039.92	54.42	55.36	-7.86	266.12	-2,682.75	332.88	268.83	64.05	5.197		
10,700.00	7,369.98	10,364.55	7,040.34	55.86	56.96	-7.87	266.31	-2,782.75	332.78	267.10	65.68	5.066		
10,800.00	7,370.29	10,464.55	7,040.77	57.32	58.55	-7.89	266.51	-2,882.75	332.67	265.35	67.33	4.941		
10,900.00	7,370.60	10,564.55	7,041.19	58.79	60.16	-7.90	266.71	-2,982.74	332.57	263.59	68.98	4.821		
11,000.00	7,370.90	10,664.55	7,041.61	60.27	61.76	-7.92	266.90	-3,082.74	332.47	261.82	70.64	4.706		
11,100.00	7,371.21	10,764.55	7,042.03	61.76	63.37	-7.93	267.10	-3,182.74	332.36	260.05	72.32	4.596		
11,200.00	7,371.52	10,864.55	7,042.46	63.26	64.99	-7.95	267.29	-3,282.74	332.26	258.26	74.00	4.490		
11,300.00	7,371.82	10,964.55	7,042.88	64.76	66.60	-7.96	267.49	-3,382.74	332.15	256.47	75.68	4.389		
11,400.00	7,372.13	11,064.55	7,043.30	66.28	68.22	-7.98	267.68	-3,482.74	332.05	254.67	77.38	4.291		
11,500.00	7,372.44	11,164.55	7,043.72	67.80	69.84	-8.00	267.88	-3,582.74	331.95	252.87	79.08	4.198		
11,600.00	7,372.75	11,264.55	7,044.15	69.33	71.46	-8.01	268.08	-3,682.74	331.84	251.05	80.79	4.108		
11,700.00	7,373.05	11,364.55	7,044.57	70.87	73.09	-8.03	268.27	-3,782.73	331.74	249.24	82.50	4.021		
11,800.00	7,373.36	11,464.55	7,044.99	72.41	74.72	-8.04	268.47	-3,882.73	331.63	247.41	84.22	3.938		
11,900.00	7,373.67	11,564.55	7,045.41	73.96	76.35	-8.06	268.66	-3,982.73	331.53	245.59	85.94	3.857		
12,000.00	7,373.97	11,664.55	7,045.84	75.51	77.98	-8.07	268.86	-4,082.73	331.43	243.75	87.67	3.780		
12,100.00	7,374.28	11,764.55	7,046.26	77.07	79.61	-8.09	269.05	-4,182.73	331.32	241.91	89.41	3.706		
12,200.00	7,374.59	11,864.55	7,046.68	78.63	81.24	-8.10	269.25	-4,282.73	331.22	240.07	91.15	3.634		
12,300.00	7,374.90	11,964.55	7,047.10	80.20	82.88	-8.12	269.45	-4,382.73	331.11	238.23	92.89	3.565		
12,400.00	7,375.20	12,064.55	7,047.53	81.77	84.52	-8.13	269.64	-4,482.73	331.01	236.37	94.64	3.498		
12,500.00	7,375.51	12,164.55	7,047.95	83.34	86.16	-8.15	269.84	-4,582.73	330.91	234.52	96.39	3.433		
12,600.00	7,375.82	12,264.55	7,048.37	84.92	87.80	-8.16	270.03	-4,682.72	330.80	232.66	98.14	3.371		
12,700.00	7,376.12	12,364.55	7,048.79	86.50	89.44	-8.18	270.23	-4,782.72	330.70	230.80	99.90	3.310		
12,800.00	7,376.43	12,464.55	7,049.22	88.09	91.08	-8.20	270.42	-4,882.72	330.59	228.94	101.66	3.252		
12,900.00	7,376.74	12,564.55	7,049.64	89.68	92.72	-8.21	270.62	-4,982.72	330.49	227.07	103.42	3.196		
13,000.00	7,377.04	12,664.55	7,050.06	91.27	94.37	-8.23	270.82	-5,082.72	330.39	225.20	105.19	3.141		
13,100.00	7,377.35	12,764.55	7,050.48	92.86	96.01	-8.24	271.01	-5,182.72	330.28	223.33	106.96	3.088		
13,200.00	7,377.66	12,864.55	7,050.91	94.46	97.66	-8.26	271.21	-5,282.72	330.18	221.45	108.73	3.037		
13,300.00	7,377.97	12,964.55	7,051.33	96.06	99.31	-8.27	271.40	-5,382.72	330.08	219.57	110.51	2.987		
13,400.00	7,378.27	13,064.55	7,051.75	97.66	100.95	-8.29	271.60	-5,482.71	329.97	217.69	112.28	2.939		
13,500.00	7,378.58	13,164.55	7,052.17	99.27	102.60	-8.30	271.79	-5,582.71	329.87	215.81	114.06	2.892		
13,600.00	7,378.89	13,264.55	7,052.60	100.87	104.25	-8.32	271.99	-5,682.71	329.77	213.92	115.84	2.847		
13,700.00	7,379.19	13,364.55	7,053.02	102.48	105.90	-8.34	272.18	-5,782.71	329.66	212.03	117.63	2.803		
13,800.00	7,379.50	13,464.55	7,053.44	104.09	107.55	-8.35	272.38	-5,882.71	329.56	210.14	119.42	2.760		
13,900.00	7,379.81	13,564.55	7,053.86	105.71	109.20	-8.37	272.58	-5,982.71	329.45	208.25	121.20	2.718		
14,000.00	7,380.12	13,664.55	7,054.29	107.32	110.86	-8.38	272.77	-6,082.71	329.35	206.36	122.99	2.678		
14,100.00	7,380.42	13,764.55	7,054.71	108.94	112.51	-8.40	272.97	-6,182.71	329.25	204.46	124.79	2.638		
14,200.00	7,380.73	13,864.55	7,055.13	110.55	114.16	-8.41	273.16	-6,282.71	329.14	202.56	126.58	2.600		
14,300.00	7,381.04	13,964.55	7,055.55	112.17	115.81	-8.43	273.36	-6,382.70	329.04	200.66	128.38	2.563		
14,400.00	7,381.34	14,064.55	7,055.98	113.79	117.47	-8.44	273.55	-6,482.70	328.94	198.76	130.17	2.527		
14,500.00	7,381.65	14,164.55	7,056.40	115.42	119.12	-8.46	273.75	-6,582.70	328.83	196.86	131.97	2.492		
14,600.00	7,381.96	14,264.55	7,056.82	117.04	120.78	-8.48	273.95	-6,682.70	328.73	194.96	133.77	2.457		
14,700.00	7,382.27	14,364.55	7,057.24	118.66	122.43	-8.49	274.14	-6,782.70	328.63	193.05	135.58	2.424		
14,800.00	7,382.57	14,464.55	7,057.67	120.29	124.09	-8.51	274.34	-6,882.70	328.52	191.14	137.38	2.391		
14,900.00	7,382.88	14,564.55	7,058.09	121.92	125.75	-8.52	274.53	-6,982.70	328.42	189.23	139.19	2.360		
15,000.00	7,383.19	14,664.55	7,058.51	123.55	127.40	-8.54	274.73	-7,082.70	328.32	187.32	140.99	2.329		
15,100.00	7,383.49	14,764.55	7,058.93	125.18	129.06	-8.55	274.92	-7,182.69	328.21	185.41	142.80	2.298		
15,200.00	7,383.80	14,864.55	7,059.36	126.81	130.72	-8.57	275.12	-7,282.69	328.11	183.50	144.61	2.269		
15,300.00	7,384.11	14,964.54	7,059.78	128.44	132.38	-8.59	275.32	-7,382.69	328.01	181.59	146.42	2.240		
15,400.00	7,384.41	15,064.54	7,060.20	130.07	134.03	-8.60	275.51	-7,482.69	327.90	179.67	148.23	2.212		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,500.00	7,384.72	15,164.54	7,060.62	131.71	135.69	-8.62	275.71	-7,582.69	327.80	177.75	150.05	2.185	
15,590.73	7,385.00	15,255.27	7,061.01	133.19	137.20	-8.63	275.88	-7,673.42	327.71	176.01	151.69	2.160	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-0.80	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	299.67	299.65	3.35	3.35	-71.78	20.88	1.24	20.31	12.65	7.66	2.651		
400.00	399.84	399.34	399.18	3.42	3.42	-72.73	23.39	5.79	21.10	13.32	7.79	2.710		
500.00	499.45	498.99	498.45	3.51	3.51	-74.15	27.57	13.37	22.44	14.48	7.97	2.817		
600.00	598.72	598.64	597.35	3.63	3.63	-75.59	33.42	23.96	24.37	16.17	8.20	2.972		
700.00	697.87	701.46	696.21	3.77	3.78	-74.25	40.38	36.57	27.01	18.51	8.50	3.178		
800.00	797.03	798.50	795.12	3.94	3.95	-73.06	47.37	49.24	29.68	20.85	8.83	3.360		
900.00	896.19	901.54	894.03	4.13	4.15	-72.06	54.36	61.90	32.37	23.15	9.22	3.510		
1,000.00	995.34	1,001.57	992.94	4.34	4.37	-71.22	61.36	74.56	35.06	25.42	9.64	3.637		
1,100.00	1,094.50	1,101.61	1,091.85	4.56	4.60	-70.49	68.35	87.23	37.76	27.67	10.09	3.743		
1,200.00	1,193.65	1,201.65	1,190.76	4.80	4.85	-69.87	75.34	99.89	40.47	29.91	10.56	3.831		
1,300.00	1,292.81	1,301.69	1,289.67	5.05	5.11	-69.32	82.33	112.55	43.18	32.12	11.06	3.904		
1,400.00	1,391.97	1,401.72	1,388.58	5.31	5.38	-68.84	89.32	125.22	45.89	34.32	11.58	3.964		
1,500.00	1,491.12	1,498.24	1,487.49	5.57	5.65	-68.41	96.31	137.88	48.61	36.51	12.10	4.018		
1,600.00	1,590.28	1,601.80	1,586.40	5.85	5.94	-68.03	103.30	150.54	51.33	38.67	12.66	4.056		
1,700.00	1,689.43	1,701.84	1,685.31	6.13	6.24	-67.68	110.29	163.21	54.05	40.84	13.21	4.090		
1,800.00	1,788.59	1,801.87	1,784.22	6.41	6.53	-67.37	117.28	175.87	56.77	42.99	13.78	4.120		
1,900.00	1,887.75	1,901.91	1,883.13	6.70	6.69	-67.09	124.27	188.53	59.50	45.66	13.84	4.300		
2,000.00	1,986.90	2,001.95	1,982.05	7.00	6.72	-66.83	131.26	201.20	62.22	48.07	14.15	4.396		
2,100.00	2,086.06	2,101.99	2,080.96	7.30	6.77	-66.59	138.25	213.86	64.95	50.46	14.49	4.483		
2,200.00	2,185.21	2,202.02	2,179.87	7.60	6.83	-66.37	145.24	226.52	67.68	52.84	14.84	4.560		
2,300.00	2,284.37	2,302.06	2,278.78	7.90	6.91	-66.17	152.23	239.19	70.41	55.19	15.21	4.628		
2,400.00	2,383.52	2,402.10	2,377.69	8.21	7.00	-65.99	159.22	251.85	73.14	57.54	15.60	4.689		
2,500.00	2,482.68	2,502.14	2,476.60	8.52	7.10	-65.81	166.21	264.51	75.87	59.87	16.00	4.741		
2,600.00	2,581.84	2,602.17	2,575.51	8.83	7.22	-65.65	173.20	277.18	78.60	62.18	16.42	4.787		
2,700.00	2,680.99	2,702.21	2,674.42	9.14	7.35	-65.50	180.19	289.84	81.33	64.48	16.85	4.827		
2,800.00	2,780.15	2,802.25	2,773.33	9.45	7.48	-65.36	187.19	302.50	84.06	66.77	17.29	4.861		
2,900.00	2,879.30	2,902.29	2,872.24	9.77	7.63	-65.23	194.18	315.17	86.79	69.04	17.75	4.890		
3,000.00	2,978.46	3,002.32	2,971.15	10.09	7.79	-65.11	201.17	327.83	89.53	71.31	18.22	4.914		
3,100.00	3,077.62	3,102.36	3,070.06	10.41	7.96	-64.99	208.16	340.49	92.26	73.56	18.70	4.935		
3,200.00	3,176.77	3,202.40	3,168.97	10.73	8.14	-64.88	215.15	353.16	94.99	75.81	19.19	4.951		
3,300.00	3,275.93	3,302.44	3,267.88	11.05	8.32	-64.78	222.14	365.82	97.73	78.04	19.68	4.965		
3,400.00	3,375.08	3,402.47	3,366.79	11.37	8.52	-64.68	229.13	378.48	100.46	80.27	20.19	4.975		
3,500.00	3,474.24	3,502.51	3,465.70	11.69	8.72	-64.59	236.12	391.15	103.20	82.49	20.71	4.984		
3,600.00	3,573.39	3,602.55	3,564.61	12.01	8.93	-64.50	243.11	403.81	105.93	84.70	21.23	4.989		
3,700.00	3,672.55	3,702.59	3,663.52	12.34	9.14	-64.42	250.10	416.47	108.67	86.90	21.76	4.993		
3,800.00	3,771.71	3,802.62	3,762.43	12.66	9.36	-64.34	257.09	429.14	111.40	89.10	22.30	4.996		
3,900.00	3,870.86	3,897.34	3,861.34	12.99	9.58	-64.27	264.08	441.80	114.14	91.31	22.83	4.999		
4,000.00	3,970.02	4,002.70	3,960.25	13.31	9.82	-64.19	271.07	454.46	116.87	93.48	23.39	4.996		
4,100.00	4,069.17	4,102.74	4,059.16	13.64	10.05	-64.13	278.06	467.13	119.61	95.66	23.95	4.995		
4,200.00	4,168.33	4,202.77	4,158.07	13.97	10.29	-64.06	285.05	479.79	122.34	97.84	24.51	4.992		
4,300.00	4,267.49	4,302.81	4,256.98	14.29	10.54	-64.00	292.04	492.45	125.08	100.01	25.07	4.989		
4,400.00	4,366.64	4,402.85	4,355.89	14.62	10.79	-63.94	299.03	505.12	127.82	102.18	25.64	4.985		
4,500.00	4,465.80	4,497.11	4,454.81	14.95	11.02	-63.88	306.02	517.78	130.55	104.36	26.20	4.984		
4,600.00	4,564.95	4,602.92	4,553.72	15.28	11.29	-63.83	313.02	530.44	133.29	106.50	26.79	4.976		
4,700.00	4,664.11	4,702.96	4,652.63	15.61	11.55	-63.77	320.01	543.11	136.03	108.66	27.37	4.970		
4,800.00	4,763.26	4,803.00	4,751.54	15.94	11.81	-63.72	327.00	555.77	138.76	110.81	27.95	4.965		
4,900.00	4,862.42	4,903.04	4,850.45	16.27	12.07	-63.67	333.99	568.43	141.50	112.96	28.54	4.959		
5,000.00	4,961.58	5,003.07	4,949.36	16.60	12.34	-63.63	340.98	581.10	144.24	115.11	29.12	4.952		
5,100.00	5,060.73	5,103.11	5,048.27	16.93	12.61	-63.58	347.97	593.76	146.97	117.26	29.72	4.946		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,203.15	5,147.18	17.26	12.88	-63.54	354.96	606.42	149.71	119.40	30.31	4.939		
5,300.00	5,259.04	5,303.19	5,246.09	17.59	13.15	-63.50	361.95	619.09	152.45	121.54	30.91	4.932		
5,400.00	5,358.20	5,403.22	5,345.00	17.92	13.43	-63.46	368.94	631.75	155.19	123.68	31.51	4.926		
5,500.00	5,457.36	5,503.26	5,443.91	18.25	13.70	-63.42	375.93	644.41	157.92	125.82	32.11	4.919		
5,600.00	5,556.51	5,603.30	5,542.82	18.58	13.98	-63.38	382.92	657.08	160.66	127.95	32.71	4.912		
5,700.00	5,655.67	5,703.34	5,641.73	18.91	14.26	-63.34	389.91	669.74	163.40	130.08	33.31	4.905		
5,800.00	5,754.82	5,803.38	5,740.64	19.24	14.54	-63.31	396.90	682.40	166.14	132.22	33.92	4.898		
5,900.00	5,853.98	5,903.41	5,839.55	19.58	14.83	-63.27	403.89	695.07	168.87	134.34	34.53	4.891		
6,000.00	5,953.13	6,003.45	5,938.46	19.91	15.11	-63.24	410.88	707.73	171.61	136.47	35.14	4.884		
6,100.00	6,052.29	6,096.51	6,037.37	20.24	15.38	-63.21	417.87	720.39	174.35	138.62	35.73	4.880		
6,200.00	6,151.45	6,203.53	6,136.28	20.57	15.68	-63.18	424.86	733.06	177.09	140.73	36.36	4.870		
6,300.00	6,250.60	6,303.56	6,235.19	20.90	15.97	-63.15	431.85	745.72	179.82	142.85	36.97	4.863		
6,400.00	6,349.76	6,403.60	6,334.10	21.24	16.26	-63.12	438.85	758.39	182.56	144.97	37.59	4.857		
6,500.00	6,448.91	6,496.36	6,433.01	21.57	16.53	-63.09	445.84	771.05	185.30	147.12	38.18	4.853		
6,600.00	6,548.07	6,598.91	6,534.93	21.90	16.77	-64.69	453.05	778.68	187.46	148.64	38.82	4.829		
6,700.03	6,647.26	6,698.19	6,633.54	22.24	16.92	-70.83	460.05	770.66	189.30	149.79	39.50	4.792		
6,800.00	6,746.93	6,791.98	6,724.49	22.46	17.02	29.79	466.53	749.07	194.25	154.33	39.91	4.867		
6,900.00	6,846.10	6,882.41	6,808.27	22.61	17.07	61.26	472.53	715.78	202.47	162.54	39.93	5.070		
7,000.00	6,942.28	6,969.99	6,884.14	22.73	17.09	60.55	477.98	672.53	212.91	173.28	39.64	5.372		
7,100.00	7,033.11	7,055.18	6,951.60	22.85	17.11	57.36	482.85	620.82	224.47	185.34	39.13	5.737		
7,200.00	7,116.36	7,138.41	7,010.28	23.01	17.13	54.09	487.11	562.03	236.14	197.59	38.55	6.125		
7,300.00	7,189.97	7,220.05	7,059.93	23.26	17.19	51.27	490.73	497.39	247.13	209.05	38.08	6.489		
7,400.00	7,252.13	7,300.00	7,100.16	23.68	17.30	49.01	493.70	428.43	256.78	218.92	37.86	6.783		
7,500.00	7,301.31	7,379.86	7,131.44	24.34	17.48	47.30	496.04	355.04	264.61	226.58	38.03	6.958		
7,600.00	7,336.30	7,458.59	7,153.06	25.28	17.73	46.12	497.70	279.41	270.27	231.62	38.65	6.993		
7,700.00	7,356.23	7,536.89	7,165.18	26.48	18.06	45.46	498.69	202.11	273.54	233.79	39.75	6.882		
7,800.00	7,361.08	7,620.38	7,168.04	27.71	18.49	45.28	499.03	118.72	274.35	233.22	41.13	6.671		
7,900.00	7,361.38	7,720.38	7,168.22	27.76	19.11	45.25	499.21	18.72	274.37	232.65	41.72	6.576		
8,000.00	7,361.69	7,820.38	7,168.40	27.91	19.85	45.22	499.39	-81.28	274.40	231.92	42.48	6.459		
8,100.00	7,362.00	7,920.38	7,168.58	28.16	20.70	45.19	499.57	-181.28	274.43	231.04	43.39	6.325		
8,200.00	7,362.31	8,020.38	7,168.76	28.51	21.64	45.15	499.75	-281.28	274.45	230.01	44.44	6.176		
8,300.00	7,362.61	8,120.38	7,168.94	28.95	22.67	45.12	499.93	-381.28	274.48	228.86	45.62	6.017		
8,400.00	7,362.92	8,220.38	7,169.12	29.47	23.76	45.09	500.11	-481.28	274.51	227.59	46.92	5.851		
8,500.00	7,363.23	8,320.38	7,169.30	30.09	24.92	45.06	500.29	-581.28	274.53	226.21	48.33	5.681		
8,600.00	7,363.53	8,420.37	7,169.48	30.78	26.14	45.03	500.47	-681.28	274.56	224.72	49.84	5.509		
8,700.00	7,363.84	8,520.37	7,169.66	31.54	27.40	44.99	500.65	-781.28	274.59	223.15	51.44	5.338		
8,800.00	7,364.15	8,620.37	7,169.83	32.37	28.71	44.96	500.83	-881.28	274.61	221.48	53.13	5.169		
8,900.00	7,364.46	8,720.37	7,170.01	33.27	30.05	44.93	501.01	-981.28	274.64	219.75	54.90	5.003		
9,000.00	7,364.76	8,820.37	7,170.19	34.22	31.42	44.90	501.19	-1,081.28	274.67	217.94	56.73	4.841		
9,100.00	7,365.07	8,920.37	7,170.37	35.23	32.82	44.86	501.37	-1,181.28	274.70	216.06	58.63	4.685		
9,200.00	7,365.38	9,020.37	7,170.55	36.29	34.24	44.83	501.55	-1,281.28	274.72	214.14	60.59	4.534		
9,300.00	7,365.68	9,120.37	7,170.73	37.39	35.68	44.80	501.73	-1,381.28	274.75	212.15	62.60	4.389		
9,400.00	7,365.99	9,220.37	7,170.91	38.53	37.15	44.77	501.91	-1,481.28	274.78	210.12	64.66	4.250		
9,500.00	7,366.30	9,320.37	7,171.09	39.71	38.63	44.74	502.09	-1,581.28	274.81	208.05	66.75	4.117		
9,600.00	7,366.60	9,420.37	7,171.27	40.92	40.12	44.70	502.27	-1,681.28	274.84	205.94	68.89	3.989		
9,700.00	7,366.91	9,520.37	7,171.45	42.17	41.63	44.67	502.45	-1,781.28	274.86	203.80	71.07	3.868		
9,800.00	7,367.22	9,620.37	7,171.63	43.44	43.15	44.64	502.63	-1,881.28	274.89	201.62	73.27	3.752		
9,900.00	7,367.53	9,720.37	7,171.81	44.74	44.69	44.61	502.81	-1,981.27	274.92	199.41	75.51	3.641		
10,000.00	7,367.83	9,820.37	7,171.98	46.07	46.23	44.58	502.99	-2,081.27	274.95	197.18	77.77	3.536		
10,100.00	7,368.14	9,920.37	7,172.16	47.41	47.78	44.54	503.17	-2,181.27	274.98	194.92	80.05	3.435		
10,200.00	7,368.45	10,020.37	7,172.34	48.78	49.33	44.51	503.35	-2,281.27	275.01	192.65	82.36	3.339		
10,300.00	7,368.75	10,120.37	7,172.52	50.17	50.90	44.48	503.53	-2,381.27	275.03	190.35	84.69	3.248		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	7,369.06	10,220.37	7,172.70	51.57	52.47	44.45	503.71	-2,481.27	275.06	188.03	87.03	3.160		
10,500.00	7,369.37	10,320.37	7,172.88	52.99	54.05	44.42	503.89	-2,581.27	275.09	185.70	89.39	3.077		
10,600.00	7,369.68	10,420.37	7,173.06	54.42	55.63	44.38	504.07	-2,681.27	275.12	183.35	91.77	2.998		
10,700.00	7,369.98	10,520.37	7,173.24	55.86	57.22	44.35	504.24	-2,781.27	275.15	180.99	94.16	2.922		
10,800.00	7,370.29	10,620.37	7,173.42	57.32	58.81	44.32	504.42	-2,881.27	275.18	178.61	96.57	2.850		
10,900.00	7,370.60	10,720.37	7,173.60	58.79	60.41	44.29	504.60	-2,981.27	275.21	176.22	98.98	2.780		
11,000.00	7,370.90	10,820.37	7,173.78	60.27	62.01	44.26	504.78	-3,081.27	275.24	173.83	101.41	2.714		
11,100.00	7,371.21	10,920.37	7,173.95	61.76	63.62	44.23	504.96	-3,181.27	275.27	171.42	103.85	2.651		
11,200.00	7,371.52	11,020.37	7,174.13	63.26	65.22	44.19	505.14	-3,281.27	275.29	169.00	106.29	2.590		
11,300.00	7,371.82	11,120.37	7,174.31	64.76	66.84	44.16	505.32	-3,381.27	275.32	166.58	108.75	2.532		
11,400.00	7,372.13	11,220.37	7,174.49	66.28	68.45	44.13	505.50	-3,481.27	275.35	164.15	111.21	2.476		
11,500.00	7,372.44	11,320.37	7,174.67	67.80	70.07	44.10	505.68	-3,581.27	275.38	161.71	113.67	2.423		
11,600.00	7,372.75	11,420.37	7,174.85	69.33	71.69	44.07	505.86	-3,681.27	275.41	159.26	116.15	2.371		
11,700.00	7,373.05	11,520.37	7,175.03	70.87	73.31	44.03	506.04	-3,781.27	275.44	156.81	118.63	2.322		
11,800.00	7,373.36	11,620.37	7,175.21	72.41	74.93	44.00	506.22	-3,881.27	275.47	154.36	121.12	2.274		
11,900.00	7,373.67	11,720.37	7,175.39	73.96	76.56	43.97	506.40	-3,981.27	275.50	151.89	123.61	2.229		
12,000.00	7,373.97	11,820.37	7,175.57	75.51	78.18	43.94	506.58	-4,081.27	275.53	149.43	126.10	2.185		
12,100.00	7,374.28	11,920.37	7,175.75	77.07	79.81	43.91	506.76	-4,181.27	275.56	146.96	128.60	2.143		
12,200.00	7,374.59	12,020.37	7,175.93	78.63	81.45	43.87	506.94	-4,281.26	275.59	144.48	131.11	2.102		
12,300.00	7,374.90	12,120.37	7,176.10	80.20	83.08	43.84	507.12	-4,381.26	275.62	142.01	133.62	2.063		
12,400.00	7,375.20	12,220.37	7,176.28	81.77	84.71	43.81	507.30	-4,481.26	275.65	139.53	136.13	2.025		
12,500.00	7,375.51	12,320.37	7,176.46	83.34	86.35	43.78	507.48	-4,581.26	275.68	137.04	138.64	1.988		
12,600.00	7,375.82	12,420.37	7,176.64	84.92	87.99	43.75	507.66	-4,681.26	275.71	134.56	141.16	1.953		
12,700.00	7,376.12	12,520.37	7,176.82	86.50	89.62	43.72	507.84	-4,781.26	275.74	132.07	143.68	1.919		
12,800.00	7,376.43	12,620.37	7,177.00	88.09	91.26	43.68	508.02	-4,881.26	275.78	129.58	146.20	1.886		
12,900.00	7,376.74	12,720.37	7,177.18	89.68	92.91	43.65	508.20	-4,981.26	275.81	127.08	148.72	1.855		
13,000.00	7,377.04	12,820.37	7,177.36	91.27	94.55	43.62	508.38	-5,081.26	275.84	124.59	151.25	1.824		
13,100.00	7,377.35	12,920.37	7,177.54	92.86	96.19	43.59	508.56	-5,181.26	275.87	122.09	153.77	1.794		
13,200.00	7,377.66	13,020.37	7,177.72	94.46	97.83	43.56	508.74	-5,281.26	275.90	119.60	156.30	1.765		
13,300.00	7,377.97	13,120.37	7,177.90	96.06	99.48	43.52	508.92	-5,381.26	275.93	117.10	158.83	1.737		
13,400.00	7,378.27	13,220.37	7,178.07	97.66	101.12	43.49	509.10	-5,481.26	275.96	114.60	161.36	1.710		
13,500.00	7,378.58	13,320.37	7,178.25	99.27	102.77	43.46	509.28	-5,581.26	275.99	112.10	163.90	1.684		
13,600.00	7,378.89	13,420.37	7,178.43	100.87	104.42	43.43	509.46	-5,681.26	276.02	109.59	166.43	1.659		
13,700.00	7,379.19	13,520.37	7,178.61	102.48	106.07	43.40	509.64	-5,781.26	276.06	107.09	168.96	1.634		
13,800.00	7,379.50	13,620.37	7,178.79	104.09	107.72	43.37	509.82	-5,881.26	276.09	104.59	171.50	1.610		
13,900.00	7,379.81	13,720.37	7,178.97	105.71	109.37	43.33	510.00	-5,981.26	276.12	102.08	174.03	1.587		
14,000.00	7,380.12	13,820.37	7,179.15	107.32	111.02	43.30	510.18	-6,081.26	276.15	99.58	176.57	1.564		
14,100.00	7,380.42	13,920.37	7,179.33	108.94	112.67	43.27	510.36	-6,181.26	276.18	97.08	179.11	1.542		
14,200.00	7,380.73	14,020.37	7,179.51	110.55	114.32	43.24	510.54	-6,281.26	276.21	94.57	181.64	1.521		
14,300.00	7,381.04	14,120.37	7,179.69	112.17	115.97	43.21	510.72	-6,381.26	276.25	92.07	184.18	1.500 Level 3		
14,400.00	7,381.34	14,220.37	7,179.87	113.79	117.62	43.18	510.90	-6,481.25	276.28	89.56	186.72	1.480 Level 3		
14,500.00	7,381.65	14,320.37	7,180.05	115.42	119.28	43.14	511.08	-6,581.25	276.31	87.05	189.26	1.460 Level 3		
14,600.00	7,381.96	14,420.37	7,180.22	117.04	120.93	43.11	511.26	-6,681.25	276.34	84.55	191.79	1.441 Level 3		
14,700.00	7,382.27	14,520.37	7,180.40	118.66	122.58	43.08	511.44	-6,781.25	276.37	82.04	194.33	1.422 Level 3		
14,800.00	7,382.57	14,620.37	7,180.58	120.29	124.24	43.05	511.62	-6,881.25	276.41	79.54	196.87	1.404 Level 3		
14,900.00	7,382.88	14,720.37	7,180.76	121.92	125.89	43.02	511.80	-6,981.25	276.44	77.04	199.40	1.386 Level 3		
15,000.00	7,383.19	14,820.37	7,180.94	123.55	127.55	42.99	511.98	-7,081.25	276.47	74.53	201.94	1.369 Level 3		
15,100.00	7,383.49	14,920.37	7,181.12	125.18	129.21	42.95	512.16	-7,181.25	276.50	72.03	204.48	1.352 Level 3		
15,200.00	7,383.80	15,020.37	7,181.30	126.81	130.86	42.92	512.33	-7,281.25	276.54	69.52	207.01	1.336 Level 3		
15,300.00	7,384.11	15,120.37	7,181.48	128.44	132.52	42.89	512.51	-7,381.25	276.57	67.02	209.55	1.320 Level 3		
15,400.00	7,384.41	15,220.37	7,181.66	130.07	134.18	42.86	512.69	-7,481.25	276.60	64.52	212.09	1.304 Level 3		
15,500.00	7,384.72	15,320.37	7,181.84	131.71	135.83	42.83	512.87	-7,581.25	276.64	62.02	214.62	1.289 Level 3		

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,590.73	7,385.00	15,411.09	7,182.00	133.19	137.34	42.80	513.04	-7,671.98	276.67	59.75	216.92	1.275	Level 3, SF



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<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	179.66	-140.25	0.84	140.25					
100.00	100.00	100.00	100.00	3.28	3.28	179.66	-140.25	0.84	140.25	132.72	7.53	18.629		
200.00	200.00	200.00	200.00	3.31	3.31	179.66	-140.25	0.84	140.25	132.68	7.57	18.518	CC, ES	
300.00	299.98	296.94	296.93	3.35	3.34	109.11	-141.29	2.11	141.90	134.24	7.66	18.535		
400.00	399.84	393.73	393.58	3.42	3.40	109.41	-144.40	5.90	146.84	139.07	7.78	18.883		
500.00	499.45	490.19	489.69	3.51	3.49	109.86	-149.55	12.20	155.08	147.14	7.94	19.521		
600.00	598.72	586.19	585.02	3.63	3.59	110.42	-156.71	20.95	166.55	158.39	8.17	20.396		
700.00	697.87	682.45	680.18	3.77	3.73	110.50	-165.87	32.14	180.34	171.91	8.44	21.376		
800.00	797.03	781.40	777.85	3.94	3.91	110.33	-175.94	44.44	194.77	186.00	8.77	22.217		
900.00	896.19	880.35	875.52	4.13	4.12	110.19	-186.00	56.73	209.20	200.06	9.14	22.889		
1,000.00	995.34	979.31	973.19	4.34	4.35	110.06	-196.06	69.03	223.63	214.08	9.55	23.417		
1,100.00	1,094.50	1,078.26	1,070.86	4.56	4.60	109.95	-206.13	81.32	238.06	228.06	9.99	23.824		
1,200.00	1,193.65	1,177.21	1,168.53	4.80	4.86	109.85	-216.19	93.62	252.49	242.03	10.46	24.133		
1,300.00	1,292.81	1,276.16	1,266.19	5.05	5.14	109.76	-226.26	105.91	266.92	255.96	10.96	24.362		
1,400.00	1,391.97	1,375.12	1,363.86	5.31	5.43	109.68	-236.32	118.21	281.35	269.88	11.47	24.527		
1,500.00	1,491.12	1,474.07	1,461.53	5.57	5.73	109.61	-246.38	130.51	295.78	283.78	12.00	24.644		
1,600.00	1,590.28	1,573.02	1,559.20	5.85	6.04	109.55	-256.45	142.80	310.22	297.67	12.55	24.720		
1,700.00	1,689.43	1,671.97	1,656.87	6.13	6.36	109.49	-266.51	155.10	324.65	311.54	13.11	24.765		
1,800.00	1,788.59	1,770.92	1,754.54	6.41	6.68	109.43	-276.57	167.39	339.08	325.40	13.68	24.785		
1,900.00	1,887.75	1,869.88	1,852.20	6.70	6.90	109.39	-286.64	179.69	353.52	339.73	13.78	25.649		
2,000.00	1,986.90	1,968.83	1,949.87	7.00	6.98	109.34	-296.70	191.98	367.95	353.81	14.14	26.023		
2,100.00	2,086.06	2,067.78	2,047.54	7.30	7.03	109.30	-306.76	204.28	382.38	367.91	14.47	26.423		
2,200.00	2,185.21	2,166.73	2,145.21	7.60	7.09	109.26	-316.83	216.57	396.82	382.00	14.82	26.773		
2,300.00	2,284.37	2,265.69	2,242.88	7.90	7.17	109.22	-326.89	228.87	411.25	396.06	15.19	27.075		
2,400.00	2,383.52	2,364.64	2,340.55	8.21	7.27	109.19	-336.96	241.16	425.69	410.11	15.57	27.334		
2,500.00	2,482.68	2,463.59	2,438.22	8.52	7.37	109.16	-347.02	253.46	440.12	424.15	15.97	27.552		
2,600.00	2,581.84	2,562.54	2,535.88	8.83	7.50	109.13	-357.08	265.75	454.56	438.17	16.39	27.734		
2,700.00	2,680.99	2,661.50	2,633.55	9.14	7.63	109.10	-367.15	278.05	468.99	452.17	16.82	27.884		
2,800.00	2,780.15	2,760.45	2,731.22	9.45	7.78	109.07	-377.21	290.35	483.43	466.17	17.26	28.004		
2,900.00	2,879.30	2,859.40	2,828.89	9.77	7.93	109.05	-387.27	302.64	497.86	480.14	17.72	28.097		
3,000.00	2,978.46	2,958.35	2,926.56	10.09	8.10	109.02	-397.34	314.94	512.30	494.11	18.19	28.167		
3,100.00	3,077.62	3,057.31	3,024.23	10.41	8.28	109.00	-407.40	327.23	526.73	508.07	18.67	28.217		
3,200.00	3,176.77	3,156.26	3,121.89	10.73	8.47	108.98	-417.47	339.53	541.17	522.01	19.16	28.249		
3,300.00	3,275.93	3,255.21	3,219.56	11.05	8.67	108.96	-427.53	351.82	555.61	535.95	19.66	28.265		
3,400.00	3,375.08	3,354.16	3,317.23	11.37	8.88	108.94	-437.59	364.12	570.04	549.88	20.17	28.268		
3,500.00	3,474.24	3,453.12	3,414.90	11.69	9.09	108.93	-447.66	376.41	584.48	563.79	20.68	28.258		
3,600.00	3,573.39	3,552.07	3,512.57	12.01	9.31	108.91	-457.72	388.71	598.91	577.70	21.21	28.239		
3,700.00	3,672.55	3,651.02	3,610.24	12.34	9.54	108.89	-467.78	401.00	613.35	591.61	21.74	28.211		
3,800.00	3,771.71	3,749.97	3,707.90	12.66	9.77	108.88	-477.85	413.30	627.78	605.50	22.28	28.176		
3,900.00	3,870.86	3,848.93	3,805.57	12.99	10.01	108.86	-487.91	425.60	642.22	619.39	22.83	28.135		
4,000.00	3,970.02	3,947.88	3,903.24	13.31	10.26	108.85	-497.97	437.89	656.66	633.28	23.38	28.088		
4,100.00	4,069.17	4,046.83	4,000.91	13.64	10.51	108.83	-508.04	450.19	671.09	647.16	23.94	28.037		
4,200.00	4,168.33	4,145.78	4,098.58	13.97	10.76	108.82	-518.10	462.48	685.53	661.03	24.50	27.983		
4,300.00	4,267.49	4,244.74	4,196.25	14.29	11.02	108.81	-528.17	474.78	699.96	674.90	25.07	27.925		
4,400.00	4,366.64	4,343.69	4,293.92	14.62	11.29	108.80	-538.23	487.07	714.40	688.76	25.64	27.866		
4,500.00	4,465.80	4,442.64	4,391.58	14.95	11.56	108.79	-548.29	499.37	728.84	702.62	26.21	27.804		
4,600.00	4,564.95	4,541.59	4,489.25	15.28	11.83	108.78	-558.36	511.66	743.27	716.48	26.79	27.742		
4,700.00	4,664.11	4,640.54	4,586.92	15.61	12.10	108.76	-568.42	523.96	757.71	730.33	27.38	27.678		
4,800.00	4,763.26	4,739.50	4,684.59	15.94	12.38	108.75	-578.48	536.25	772.14	744.18	27.96	27.614		
4,900.00	4,862.42	4,838.45	4,782.26	16.27	12.66	108.74	-588.55	548.55	786.58	758.03	28.55	27.549		
5,000.00	4,961.58	4,937.40	4,879.93	16.60	12.94	108.74	-598.61	560.84	801.02	771.87	29.14	27.484		
5,100.00	5,060.73	5,036.35	4,977.59	16.93	13.23	108.73	-608.67	573.14	815.45	785.71	29.74	27.419		

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<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,135.31	5,075.26	17.26	13.52	108.72	-618.74	585.44	829.89	799.55	30.34	27.354		
5,300.00	5,259.04	5,234.26	5,172.93	17.59	13.81	108.71	-628.80	597.73	844.33	813.39	30.94	27.290		
5,400.00	5,358.20	5,333.21	5,270.60	17.92	14.10	108.70	-638.87	610.03	858.76	827.22	31.54	27.226		
5,500.00	5,457.36	5,432.16	5,368.27	18.25	14.39	108.69	-648.93	622.32	873.20	841.05	32.15	27.163		
5,600.00	5,556.51	5,531.12	5,465.94	18.58	14.69	108.69	-658.99	634.62	887.63	854.88	32.75	27.100		
5,700.00	5,655.67	5,630.07	5,563.61	18.91	14.99	108.68	-669.06	646.91	902.07	868.71	33.36	27.038		
5,800.00	5,754.82	5,729.02	5,661.27	19.24	15.29	108.67	-679.12	659.21	916.51	882.53	33.97	26.977		
5,900.00	5,853.98	5,827.97	5,758.94	19.58	15.59	108.66	-689.18	671.50	930.94	896.36	34.59	26.917		
6,000.00	5,953.13	5,926.93	5,856.61	19.91	15.89	108.66	-699.25	683.80	945.38	910.18	35.20	26.857		
6,100.00	6,052.29	6,025.88	5,954.28	20.24	16.19	108.65	-709.31	696.09	959.82	924.00	35.82	26.799		
6,200.00	6,151.45	6,124.83	6,051.95	20.57	16.50	108.64	-719.38	708.39	974.25	937.82	36.43	26.741		
6,300.00	6,250.60	6,223.78	6,149.62	20.90	16.81	108.64	-729.44	720.68	988.69	951.64	37.05	26.685		
6,400.00	6,349.76	6,322.74	6,247.28	21.24	17.11	108.63	-739.50	732.98	1,003.13	965.46	37.67	26.629		
6,500.00	6,448.91	6,421.69	6,344.95	21.57	17.42	108.63	-749.57	745.28	1,017.56	979.27	38.29	26.574		
6,600.00	6,548.07	6,520.64	6,442.62	21.90	17.73	108.62	-759.63	757.57	1,032.00	993.09	38.91	26.520		
6,700.03	6,647.26	6,619.25	6,540.41	22.24	17.95	108.93	-769.69	764.13	1,046.45	1,006.98	39.47	26.515		
6,800.00	6,746.93	6,715.66	6,635.87	22.46	18.09	-140.39	-779.45	755.95	1,061.09	1,021.26	39.83	26.640		
6,900.00	6,846.10	6,810.40	6,727.45	22.61	18.19	-99.68	-788.77	733.89	1,075.76	1,035.70	40.06	26.853		
7,000.00	6,942.28	6,903.71	6,813.48	22.73	18.24	-92.23	-797.48	699.06	1,090.07	1,049.85	40.22	27.105		
7,100.00	7,033.11	6,995.83	6,892.57	22.85	18.27	-88.43	-805.43	652.64	1,103.63	1,063.29	40.34	27.359		
7,200.00	7,116.36	7,087.02	6,963.49	23.01	18.27	-85.86	-812.51	595.89	1,116.08	1,075.58	40.50	27.559		
7,300.00	7,189.97	7,177.47	7,025.16	23.26	18.26	-83.94	-818.61	530.11	1,127.08	1,086.30	40.78	27.639		
7,400.00	7,252.13	7,267.37	7,076.67	23.68	18.24	-82.50	-823.64	456.69	1,136.35	1,095.07	41.28	27.530		
7,500.00	7,301.31	7,356.91	7,117.24	24.34	18.23	-81.44	-827.52	377.05	1,143.65	1,101.57	42.08	27.178		
7,600.00	7,336.30	7,446.22	7,146.26	25.28	18.25	-80.75	-830.21	292.70	1,148.78	1,105.54	43.24	26.567		
7,700.00	7,356.23	7,535.45	7,163.24	26.48	18.33	-80.40	-831.65	205.19	1,151.63	1,106.87	44.76	25.728		
7,800.00	7,361.08	7,626.20	7,168.02	27.71	18.54	-80.35	-831.82	114.63	1,152.20	1,105.78	46.42	24.821		
7,900.00	7,361.38	7,726.20	7,168.19	27.76	19.01	-80.35	-831.49	14.63	1,152.17	1,105.09	47.08	24.474		
8,000.00	7,361.69	7,826.20	7,168.35	27.91	19.69	-80.34	-831.16	-85.37	1,152.13	1,104.18	47.95	24.029		
8,100.00	7,362.00	7,926.20	7,168.52	28.16	20.51	-80.33	-830.83	-185.37	1,152.09	1,103.07	49.02	23.501		
8,200.00	7,362.31	8,026.20	7,168.69	28.51	21.44	-80.32	-830.50	-285.36	1,152.06	1,101.77	50.29	22.909		
8,300.00	7,362.61	8,126.20	7,168.85	28.95	22.46	-80.32	-830.17	-385.36	1,152.02	1,100.29	51.73	22.270		
8,400.00	7,362.92	8,226.20	7,169.02	29.47	23.55	-80.31	-829.84	-485.36	1,151.98	1,098.65	53.33	21.601		
8,500.00	7,363.23	8,326.20	7,169.19	30.09	24.71	-80.30	-829.51	-585.36	1,151.94	1,096.87	55.08	20.915		
8,600.00	7,363.53	8,426.20	7,169.35	30.78	25.93	-80.30	-829.17	-685.36	1,151.91	1,094.95	56.96	20.224		
8,700.00	7,363.84	8,526.20	7,169.52	31.54	27.19	-80.29	-828.84	-785.36	1,151.87	1,092.91	58.96	19.537		
8,800.00	7,364.15	8,626.20	7,169.69	32.37	28.49	-80.28	-828.51	-885.36	1,151.83	1,090.77	61.07	18.862		
8,900.00	7,364.46	8,726.20	7,169.85	33.27	29.83	-80.27	-828.18	-985.36	1,151.80	1,088.52	63.28	18.203		
9,000.00	7,364.76	8,826.20	7,170.02	34.22	31.20	-80.27	-827.85	-1,085.36	1,151.76	1,086.19	65.57	17.564		
9,100.00	7,365.07	8,926.20	7,170.19	35.23	32.60	-80.26	-827.52	-1,185.36	1,151.72	1,083.77	67.95	16.949		
9,200.00	7,365.38	9,026.20	7,170.35	36.29	34.02	-80.25	-827.19	-1,285.36	1,151.69	1,081.28	70.40	16.358		
9,300.00	7,365.68	9,126.20	7,170.52	37.39	35.46	-80.24	-826.86	-1,385.36	1,151.65	1,078.73	72.92	15.793		
9,400.00	7,365.99	9,226.20	7,170.69	38.53	36.93	-80.24	-826.53	-1,485.35	1,151.61	1,076.12	75.50	15.254		
9,500.00	7,366.30	9,326.20	7,170.85	39.71	38.41	-80.23	-826.20	-1,585.35	1,151.58	1,073.45	78.13	14.740		
9,600.00	7,366.60	9,426.20	7,171.02	40.92	39.90	-80.22	-825.87	-1,685.35	1,151.54	1,070.74	80.80	14.251		
9,700.00	7,366.91	9,526.20	7,171.19	42.17	41.41	-80.21	-825.54	-1,785.35	1,151.50	1,067.98	83.53	13.786		
9,800.00	7,367.22	9,626.20	7,171.35	43.44	42.93	-80.21	-825.21	-1,885.35	1,151.47	1,065.18	86.29	13.344		
9,900.00	7,367.53	9,726.20	7,171.52	44.74	44.46	-80.20	-824.88	-1,985.35	1,151.43	1,062.34	89.09	12.925		
10,000.00	7,367.83	9,826.20	7,171.69	46.07	46.00	-80.19	-824.54	-2,085.35	1,151.39	1,059.47	91.92	12.526		
10,100.00	7,368.14	9,926.20	7,171.85	47.41	47.55	-80.18	-824.21	-2,185.35	1,151.36	1,056.57	94.78	12.147		
10,200.00	7,368.45	10,026.20	7,172.02	48.78	49.10	-80.18	-823.88	-2,285.35	1,151.32	1,053.65	97.67	11.788		
10,300.00	7,368.75	10,126.20	7,172.19	50.17	50.67	-80.17	-823.55	-2,385.35	1,151.28	1,050.69	100.59	11.446		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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		
10,400.00	7,369.06	10,226.20	7,172.35	51.57	52.24	-80.16	-823.22	-2,485.35	1,151.25	1,047.72	103.53	11.120		
10,500.00	7,369.37	10,326.20	7,172.52	52.99	53.82	-80.15	-822.89	-2,585.35	1,151.21	1,044.72	106.49	10.811		
10,600.00	7,369.68	10,426.20	7,172.69	54.42	55.40	-80.15	-822.56	-2,685.35	1,151.17	1,041.71	109.46	10.516		
10,700.00	7,369.98	10,526.20	7,172.86	55.86	56.98	-80.14	-822.23	-2,785.34	1,151.14	1,038.67	112.46	10.236		
10,800.00	7,370.29	10,626.20	7,173.02	57.32	58.58	-80.13	-821.90	-2,885.34	1,151.10	1,035.62	115.48	9.968		
10,900.00	7,370.60	10,726.20	7,173.19	58.79	60.17	-80.12	-821.57	-2,985.34	1,151.06	1,032.56	118.50	9.713		
11,000.00	7,370.90	10,826.20	7,173.36	60.27	61.77	-80.12	-821.24	-3,085.34	1,151.03	1,029.48	121.55	9.470		
11,100.00	7,371.21	10,926.20	7,173.52	61.76	63.38	-80.11	-820.91	-3,185.34	1,150.99	1,026.38	124.60	9.237		
11,200.00	7,371.52	11,026.20	7,173.69	63.26	64.98	-80.10	-820.58	-3,285.34	1,150.95	1,023.28	127.67	9.015		
11,300.00	7,371.82	11,126.20	7,173.86	64.76	66.60	-80.10	-820.24	-3,385.34	1,150.92	1,020.16	130.75	8.802		
11,400.00	7,372.13	11,226.20	7,174.02	66.28	68.21	-80.09	-819.91	-3,485.34	1,150.88	1,017.04	133.84	8.599		
11,500.00	7,372.44	11,326.20	7,174.19	67.80	69.82	-80.08	-819.58	-3,585.34	1,150.84	1,013.90	136.94	8.404		
11,600.00	7,372.75	11,426.20	7,174.36	69.33	71.44	-80.07	-819.25	-3,685.34	1,150.81	1,010.75	140.05	8.217		
11,700.00	7,373.05	11,526.20	7,174.52	70.87	73.06	-80.07	-818.92	-3,785.34	1,150.77	1,007.60	143.17	8.038		
11,800.00	7,373.36	11,626.20	7,174.69	72.41	74.69	-80.06	-818.59	-3,885.34	1,150.73	1,004.44	146.30	7.866		
11,900.00	7,373.67	11,726.20	7,174.86	73.96	76.31	-80.05	-818.26	-3,985.33	1,150.70	1,001.27	149.43	7.700		
12,000.00	7,373.97	11,826.20	7,175.02	75.51	77.94	-80.04	-817.93	-4,085.33	1,150.66	998.09	152.57	7.542		
12,100.00	7,374.28	11,926.20	7,175.19	77.07	79.57	-80.04	-817.60	-4,185.33	1,150.63	994.91	155.72	7.389		
12,200.00	7,374.59	12,026.20	7,175.36	78.63	81.20	-80.03	-817.27	-4,285.33	1,150.59	991.72	158.87	7.242		
12,300.00	7,374.90	12,126.20	7,175.52	80.20	82.83	-80.02	-816.94	-4,385.33	1,150.55	988.52	162.03	7.101		
12,400.00	7,375.20	12,226.20	7,175.69	81.77	84.47	-80.01	-816.61	-4,485.33	1,150.52	985.32	165.20	6.964		
12,500.00	7,375.51	12,326.20	7,175.86	83.34	86.10	-80.01	-816.28	-4,585.33	1,150.48	982.11	168.37	6.833		
12,600.00	7,375.82	12,426.20	7,176.02	84.92	87.74	-80.00	-815.95	-4,685.33	1,150.44	978.90	171.54	6.706		
12,700.00	7,376.12	12,526.20	7,176.19	86.50	89.38	-79.99	-815.61	-4,785.33	1,150.41	975.69	174.72	6.584		
12,800.00	7,376.43	12,626.20	7,176.36	88.09	91.02	-79.98	-815.28	-4,885.33	1,150.37	972.47	177.91	6.466		
12,900.00	7,376.74	12,726.20	7,176.52	89.68	92.66	-79.98	-814.95	-4,985.33	1,150.34	969.24	181.09	6.352		
13,000.00	7,377.04	12,826.20	7,176.69	91.27	94.30	-79.97	-814.62	-5,085.33	1,150.30	966.01	184.28	6.242		
13,100.00	7,377.35	12,926.20	7,176.86	92.86	95.94	-79.96	-814.29	-5,185.33	1,150.26	962.78	187.48	6.135		
13,200.00	7,377.66	13,026.20	7,177.02	94.46	97.59	-79.95	-813.96	-5,285.32	1,150.23	959.55	190.68	6.032		
13,300.00	7,377.97	13,126.20	7,177.19	96.06	99.23	-79.95	-813.63	-5,385.32	1,150.19	956.31	193.88	5.932		
13,400.00	7,378.27	13,226.20	7,177.36	97.66	100.88	-79.94	-813.30	-5,485.32	1,150.16	953.07	197.09	5.836		
13,500.00	7,378.58	13,326.20	7,177.52	99.27	102.52	-79.93	-812.97	-5,585.32	1,150.12	949.82	200.30	5.742		
13,600.00	7,378.89	13,426.20	7,177.69	100.87	104.17	-79.92	-812.64	-5,685.32	1,150.08	946.58	203.51	5.651		
13,700.00	7,379.19	13,526.20	7,177.86	102.48	105.82	-79.92	-812.31	-5,785.32	1,150.05	943.33	206.72	5.563		
13,800.00	7,379.50	13,626.20	7,178.02	104.09	107.47	-79.91	-811.98	-5,885.32	1,150.01	940.07	209.94	5.478		
13,900.00	7,379.81	13,726.20	7,178.19	105.71	109.11	-79.90	-811.65	-5,985.32	1,149.98	936.82	213.16	5.395		
14,000.00	7,380.12	13,826.20	7,178.36	107.32	110.76	-79.89	-811.32	-6,085.32	1,149.94	933.56	216.38	5.315		
14,100.00	7,380.42	13,926.20	7,178.52	108.94	112.42	-79.89	-810.98	-6,185.32	1,149.90	930.30	219.60	5.236		
14,200.00	7,380.73	14,026.20	7,178.69	110.55	114.07	-79.88	-810.65	-6,285.32	1,149.87	927.04	222.83	5.160		
14,300.00	7,381.04	14,126.20	7,178.86	112.17	115.72	-79.87	-810.32	-6,385.32	1,149.83	923.78	226.05	5.087		
14,400.00	7,381.34	14,226.20	7,179.02	113.79	117.37	-79.87	-809.99	-6,485.31	1,149.80	920.51	229.28	5.015		
14,500.00	7,381.65	14,326.20	7,179.19	115.42	119.02	-79.86	-809.66	-6,585.31	1,149.76	917.25	232.51	4.945		
14,600.00	7,381.96	14,426.20	7,179.36	117.04	120.68	-79.85	-809.33	-6,685.31	1,149.72	913.98	235.75	4.877		
14,700.00	7,382.27	14,526.20	7,179.53	118.66	122.33	-79.84	-809.00	-6,785.31	1,149.69	910.71	238.98	4.811		
14,800.00	7,382.57	14,626.20	7,179.69	120.29	123.99	-79.84	-808.67	-6,885.31	1,149.65	907.43	242.22	4.746		
14,900.00	7,382.88	14,726.20	7,179.86	121.92	125.64	-79.83	-808.34	-6,985.31	1,149.62	904.16	245.46	4.684		
15,000.00	7,383.19	14,826.19	7,180.03	123.55	127.30	-79.82	-808.01	-7,085.31	1,149.58	900.89	248.70	4.622		
15,100.00	7,383.49	14,926.19	7,180.19	125.18	128.95	-79.81	-807.68	-7,185.31	1,149.55	897.61	251.94	4.563		
15,200.00	7,383.80	15,026.19	7,180.36	126.81	130.61	-79.81	-807.35	-7,285.31	1,149.51	894.33	255.18	4.505		
15,300.00	7,384.11	15,126.19	7,180.53	128.44	132.27	-79.80	-807.02	-7,385.31	1,149.47	891.05	258.42	4.448		
15,400.00	7,384.41	15,226.19	7,180.69	130.07	133.92	-79.79	-806.68	-7,485.31	1,149.44	887.77	261.67	4.393		
15,500.00	7,384.72	15,326.19	7,180.86	131.71	135.58	-79.78	-806.35	-7,585.31	1,149.40	884.49	264.91	4.339		

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,584.13	7,384.98	15,410.32	7,181.00	133.08	136.97	-79.78	-806.08	-7,669.44	1,149.37	881.73	267.64	4.294	
15,590.73	7,385.00	15,410.68	7,181.00	133.19	136.98	-79.78	-806.07	-7,669.80	1,149.39	881.62	267.77	4.292 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-120.21	0.84	120.22					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-120.21	0.84	120.22	112.69	7.53	15.967		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-120.21	0.84	120.22	112.64	7.57	15.872	CC, ES	
300.00	299.98	297.93	297.91	3.35	3.35	109.00	-121.04	2.29	121.64	113.98	7.66	15.886		
400.00	399.84	395.73	395.58	3.42	3.41	109.15	-123.51	6.65	125.90	118.12	7.78	16.183		
500.00	499.45	493.31	492.79	3.51	3.49	109.37	-127.62	13.88	132.99	125.04	7.95	16.725		
600.00	598.72	590.54	589.33	3.63	3.60	109.63	-133.34	23.95	142.86	134.68	8.18	17.466		
700.00	697.87	689.50	687.30	3.77	3.75	109.58	-140.24	36.09	154.11	145.65	8.46	18.211		
800.00	797.03	788.86	785.66	3.94	3.92	109.52	-147.19	48.32	165.38	156.59	8.79	18.805		
900.00	896.19	888.23	884.03	4.13	4.12	109.47	-154.14	60.55	176.66	167.49	9.17	19.268		
1,000.00	995.34	987.59	982.39	4.34	4.34	109.42	-161.09	72.79	187.93	178.35	9.58	19.620		
1,100.00	1,094.50	1,086.95	1,080.75	4.56	4.57	109.38	-168.04	85.02	199.20	189.18	10.02	19.881		
1,200.00	1,193.65	1,186.31	1,179.11	4.80	4.82	109.34	-174.99	97.25	210.47	199.99	10.49	20.069		
1,300.00	1,292.81	1,285.68	1,277.47	5.05	5.08	109.31	-181.94	109.49	221.75	210.77	10.98	20.197		
1,400.00	1,391.97	1,385.04	1,375.83	5.31	5.36	109.28	-188.88	121.72	233.02	221.53	11.49	20.279		
1,500.00	1,491.12	1,484.40	1,474.19	5.57	5.64	109.26	-195.83	133.95	244.29	232.27	12.02	20.326		
1,600.00	1,590.28	1,583.76	1,572.56	5.85	5.93	109.23	-202.78	146.18	255.56	243.00	12.56	20.344		
1,700.00	1,689.43	1,683.13	1,670.92	6.13	6.22	109.21	-209.73	158.42	266.84	253.72	13.12	20.341		
1,800.00	1,788.59	1,782.49	1,769.28	6.41	6.53	109.19	-216.68	170.65	278.11	264.43	13.69	20.322		
1,900.00	1,887.75	1,881.85	1,867.64	6.70	6.72	109.17	-223.63	182.88	289.38	275.61	13.77	21.017		
2,000.00	1,986.90	1,981.21	1,966.00	7.00	6.77	109.15	-230.58	195.12	300.66	286.55	14.11	21.307		
2,100.00	2,086.06	2,080.58	2,064.36	7.30	6.82	109.14	-237.53	207.35	311.93	297.48	14.45	21.594		
2,200.00	2,185.21	2,179.94	2,162.72	7.60	6.88	109.12	-244.48	219.58	323.20	308.41	14.80	21.842		
2,300.00	2,284.37	2,279.30	2,261.09	7.90	6.95	109.11	-251.43	231.82	334.48	319.31	15.17	22.053		
2,400.00	2,383.52	2,378.66	2,359.45	8.21	7.04	109.09	-258.38	244.05	345.75	330.20	15.55	22.232		
2,500.00	2,482.68	2,478.03	2,457.81	8.52	7.14	109.08	-265.33	256.28	357.02	341.07	15.95	22.379		
2,600.00	2,581.84	2,577.39	2,556.17	8.83	7.26	109.07	-272.28	268.51	368.30	351.93	16.37	22.500		
2,700.00	2,680.99	2,676.75	2,654.53	9.14	7.38	109.06	-279.22	280.75	379.57	362.77	16.80	22.595		
2,800.00	2,780.15	2,776.12	2,752.89	9.45	7.52	109.05	-286.17	292.98	390.84	373.60	17.24	22.669		
2,900.00	2,879.30	2,875.48	2,851.26	9.77	7.67	109.04	-293.12	305.21	402.12	384.42	17.70	22.723		
3,000.00	2,978.46	2,974.84	2,949.62	10.09	7.84	109.03	-300.07	317.45	413.39	395.23	18.16	22.759		
3,100.00	3,077.62	3,074.20	3,047.98	10.41	8.01	109.02	-307.02	329.68	424.66	406.02	18.64	22.781		
3,200.00	3,176.77	3,173.57	3,146.34	10.73	8.19	109.01	-313.97	341.91	435.94	416.81	19.13	22.789		
3,300.00	3,275.93	3,272.93	3,244.70	11.05	8.37	109.01	-320.92	354.14	447.21	427.58	19.63	22.786		
3,400.00	3,375.08	3,372.29	3,343.06	11.37	8.57	109.00	-327.87	366.38	458.48	438.35	20.13	22.772		
3,500.00	3,474.24	3,471.65	3,441.42	11.69	8.78	108.99	-334.82	378.61	469.76	449.11	20.65	22.751		
3,600.00	3,573.39	3,571.02	3,539.79	12.01	8.99	108.98	-341.77	390.84	481.03	459.86	21.17	22.722		
3,700.00	3,672.55	3,670.38	3,638.15	12.34	9.20	108.98	-348.72	403.08	492.30	470.60	21.70	22.687		
3,800.00	3,771.71	3,769.74	3,736.51	12.66	9.43	108.97	-355.67	415.31	503.58	481.34	22.24	22.647		
3,900.00	3,870.86	3,869.10	3,834.87	12.99	9.66	108.97	-362.62	427.54	514.85	492.07	22.78	22.602		
4,000.00	3,970.02	3,968.47	3,933.23	13.31	9.89	108.96	-369.57	439.77	526.12	502.80	23.33	22.555		
4,100.00	4,069.17	4,067.83	4,031.59	13.64	10.13	108.96	-376.51	452.01	537.40	513.51	23.88	22.504		
4,200.00	4,168.33	4,167.19	4,129.95	13.97	10.38	108.95	-383.46	464.24	548.67	524.23	24.44	22.451		
4,300.00	4,267.49	4,266.55	4,228.32	14.29	10.63	108.95	-390.41	476.47	559.94	534.94	25.00	22.396		
4,400.00	4,366.64	4,365.92	4,326.68	14.62	10.88	108.94	-397.36	488.71	571.22	545.65	25.57	22.340		
4,500.00	4,465.80	4,465.28	4,425.04	14.95	11.14	108.94	-404.31	500.94	582.49	556.35	26.14	22.282		
4,600.00	4,564.95	4,564.64	4,523.40	15.28	11.40	108.93	-411.26	513.17	593.76	567.05	26.72	22.224		
4,700.00	4,664.11	4,664.00	4,621.76	15.61	11.66	108.93	-418.21	525.40	605.04	577.74	27.30	22.166		
4,800.00	4,763.26	4,763.37	4,720.12	15.94	11.92	108.92	-425.16	537.64	616.31	588.43	27.88	22.107		
4,900.00	4,862.42	4,862.73	4,818.48	16.27	12.19	108.92	-432.11	549.87	627.58	599.12	28.46	22.049		
5,000.00	4,961.58	4,962.09	4,916.85	16.60	12.46	108.92	-439.06	562.10	638.86	609.80	29.05	21.990		
5,100.00	5,060.73	5,061.45	5,015.21	16.93	12.74	108.91	-446.01	574.34	650.13	620.49	29.64	21.932		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	5,159.89	5,160.82	5,113.57	17.26	13.01	108.91	-452.96	586.57	661.40	631.17	30.24	21.875		
5,300.00	5,259.04	5,260.18	5,211.93	17.59	13.29	108.91	-459.91	598.80	672.68	641.84	30.83	21.817		
5,400.00	5,358.20	5,359.54	5,310.29	17.92	13.57	108.90	-466.85	611.04	683.95	652.52	31.43	21.761		
5,500.00	5,457.36	5,458.90	5,408.65	18.25	13.86	108.90	-473.80	623.27	695.22	663.19	32.03	21.705		
5,600.00	5,556.51	5,558.27	5,507.01	18.58	14.14	108.90	-480.75	635.50	706.50	673.86	32.63	21.650		
5,700.00	5,655.67	5,657.63	5,605.38	18.91	14.43	108.89	-487.70	647.73	717.77	684.53	33.24	21.596		
5,800.00	5,754.82	5,756.99	5,703.74	19.24	14.71	108.89	-494.65	659.97	729.04	695.20	33.84	21.542		
5,900.00	5,853.98	5,856.35	5,802.10	19.58	15.00	108.89	-501.60	672.20	740.32	705.87	34.45	21.489		
6,000.00	5,953.13	5,955.72	5,900.46	19.91	15.29	108.88	-508.55	684.43	751.59	716.53	35.06	21.438		
6,100.00	6,052.29	6,055.08	5,998.82	20.24	15.58	108.88	-515.50	696.67	762.86	727.19	35.67	21.387		
6,200.00	6,151.45	6,154.44	6,097.18	20.57	15.88	108.88	-522.45	708.90	774.14	737.85	36.28	21.337		
6,300.00	6,250.60	6,253.80	6,195.54	20.90	16.17	108.88	-529.40	721.13	785.41	748.51	36.90	21.287		
6,400.00	6,349.76	6,353.17	6,293.91	21.24	16.47	108.87	-536.35	733.36	796.68	759.17	37.51	21.239		
6,500.00	6,448.91	6,452.53	6,392.27	21.57	16.76	108.87	-543.30	745.60	807.96	769.83	38.13	21.192		
6,600.00	6,548.07	6,551.89	6,490.63	21.90	17.06	108.87	-550.25	757.83	819.23	780.49	38.74	21.145		
6,700.03	6,647.26	6,651.03	6,589.03	22.24	17.30	109.06	-557.19	767.25	830.51	791.20	39.31	21.126		
6,800.00	6,746.93	6,748.69	6,686.24	22.46	17.45	-140.63	-564.03	762.67	841.94	802.26	39.68	21.217		
6,900.00	6,846.10	6,845.11	6,780.43	22.61	17.54	-100.27	-570.63	743.58	853.40	813.48	39.92	21.379		
7,000.00	6,942.28	6,940.44	6,869.68	22.73	17.60	-93.15	-576.85	710.92	864.58	824.50	40.08	21.573		
7,100.00	7,033.11	7,034.84	6,952.29	22.85	17.63	-89.65	-582.58	665.78	875.19	834.99	40.21	21.768		
7,200.00	7,116.36	7,128.49	7,026.78	23.01	17.64	-87.35	-587.72	609.40	884.95	844.59	40.37	21.923		
7,300.00	7,189.97	7,221.54	7,091.84	23.26	17.64	-85.66	-592.17	543.14	893.60	852.95	40.65	21.984		
7,400.00	7,252.13	7,314.14	7,146.34	23.68	17.65	-84.41	-595.87	468.46	900.92	859.77	41.15	21.894		
7,500.00	7,301.31	7,406.44	7,189.35	24.34	17.69	-83.50	-598.74	386.94	906.71	864.75	41.96	21.611		
7,600.00	7,336.30	7,498.57	7,220.12	25.28	17.79	-82.91	-600.75	300.21	910.83	867.70	43.13	21.120		
7,700.00	7,356.23	7,590.63	7,238.07	26.48	18.00	-82.61	-601.84	210.00	913.18	868.52	44.66	20.446		
7,800.00	7,361.08	7,683.83	7,243.00	27.71	18.33	-82.58	-602.01	117.01	913.76	867.43	46.33	19.724		
7,900.00	7,361.38	7,783.83	7,242.98	27.76	18.87	-82.56	-601.82	17.01	913.88	866.90	46.98	19.452		
8,000.00	7,361.69	7,883.83	7,242.95	27.91	19.56	-82.54	-601.63	-82.99	914.00	866.15	47.85	19.102		
8,100.00	7,362.00	7,983.83	7,242.92	28.16	20.38	-82.52	-601.44	-182.99	914.12	865.20	48.93	18.684		
8,200.00	7,362.31	8,083.83	7,242.90	28.51	21.30	-82.50	-601.25	-282.99	914.24	864.05	50.19	18.214		
8,300.00	7,362.61	8,183.83	7,242.87	28.95	22.32	-82.48	-601.06	-382.99	914.36	862.72	51.64	17.706		
8,400.00	7,362.92	8,283.82	7,242.85	29.47	23.41	-82.46	-600.86	-482.98	914.49	861.24	53.25	17.174		
8,500.00	7,363.23	8,383.82	7,242.82	30.09	24.57	-82.44	-600.67	-582.98	914.61	859.60	55.00	16.628		
8,600.00	7,363.53	8,483.82	7,242.80	30.78	25.78	-82.42	-600.48	-682.98	914.73	857.83	56.89	16.078		
8,700.00	7,363.84	8,583.82	7,242.77	31.54	27.05	-82.40	-600.29	-782.98	914.85	855.95	58.90	15.531		
8,800.00	7,364.15	8,683.82	7,242.74	32.37	28.35	-82.38	-600.10	-882.98	914.97	853.95	61.03	14.993		
8,900.00	7,364.46	8,783.82	7,242.72	33.27	29.69	-82.36	-599.91	-982.98	915.09	851.85	63.24	14.469		
9,000.00	7,364.76	8,883.82	7,242.69	34.22	31.07	-82.34	-599.72	-1,082.98	915.22	849.66	65.55	13.961		
9,100.00	7,365.07	8,983.82	7,242.67	35.23	32.47	-82.32	-599.53	-1,182.98	915.34	847.39	67.94	13.472		
9,200.00	7,365.38	9,083.82	7,242.64	36.29	33.89	-82.30	-599.34	-1,282.98	915.46	845.05	70.41	13.003		
9,300.00	7,365.68	9,183.82	7,242.62	37.39	35.34	-82.28	-599.15	-1,382.98	915.58	842.65	72.93	12.553		
9,400.00	7,365.99	9,283.82	7,242.59	38.53	36.81	-82.26	-598.95	-1,482.98	915.70	840.18	75.52	12.125		
9,500.00	7,366.30	9,383.82	7,242.56	39.71	38.29	-82.24	-598.76	-1,582.98	915.83	837.66	78.16	11.717		
9,600.00	7,366.60	9,483.82	7,242.54	40.92	39.79	-82.22	-598.57	-1,682.98	915.95	835.09	80.85	11.328		
9,700.00	7,366.91	9,583.82	7,242.51	42.17	41.30	-82.20	-598.38	-1,782.97	916.07	832.48	83.59	10.959		
9,800.00	7,367.22	9,683.82	7,242.49	43.44	42.82	-82.18	-598.19	-1,882.97	916.19	829.83	86.36	10.609		
9,900.00	7,367.53	9,783.82	7,242.46	44.74	44.35	-82.16	-598.00	-1,982.97	916.32	827.14	89.17	10.276		
10,000.00	7,367.83	9,883.82	7,242.44	46.07	45.89	-82.14	-597.81	-2,082.97	916.44	824.42	92.02	9.959		
10,100.00	7,368.14	9,983.82	7,242.41	47.41	47.45	-82.12	-597.62	-2,182.97	916.56	821.67	94.89	9.659		
10,200.00	7,368.45	10,083.81	7,242.38	48.78	49.01	-82.10	-597.43	-2,282.97	916.69	818.89	97.79	9.374		
10,300.00	7,368.75	10,183.81	7,242.36	50.17	50.57	-82.08	-597.24	-2,382.97	916.81	816.09	100.72	9.103		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	7,369.06	10,283.81	7,242.33	51.57	52.15	-82.06	-597.04	-2,482.97	916.93	813.26	103.67	8.845		
10,500.00	7,369.37	10,383.81	7,242.31	52.99	53.72	-82.04	-596.85	-2,582.97	917.06	810.42	106.64	8.600		
10,600.00	7,369.68	10,483.81	7,242.28	54.42	55.31	-82.02	-596.66	-2,682.97	917.18	807.55	109.63	8.366		
10,700.00	7,369.98	10,583.81	7,242.26	55.86	56.90	-82.00	-596.47	-2,782.97	917.30	804.66	112.64	8.144		
10,800.00	7,370.29	10,683.81	7,242.23	57.32	58.49	-81.98	-596.28	-2,882.97	917.43	801.76	115.66	7.932		
10,900.00	7,370.60	10,783.81	7,242.20	58.79	60.09	-81.96	-596.09	-2,982.97	917.55	798.85	118.70	7.730		
11,000.00	7,370.90	10,883.81	7,242.18	60.27	61.69	-81.94	-595.90	-3,082.97	917.67	795.92	121.76	7.537		
11,100.00	7,371.21	10,983.81	7,242.15	61.76	63.30	-81.92	-595.71	-3,182.96	917.80	792.97	124.82	7.353		
11,200.00	7,371.52	11,083.81	7,242.13	63.26	64.91	-81.90	-595.52	-3,282.96	917.92	790.02	127.90	7.177		
11,300.00	7,371.82	11,183.81	7,242.10	64.76	66.52	-81.88	-595.32	-3,382.96	918.05	787.05	130.99	7.008		
11,400.00	7,372.13	11,283.81	7,242.08	66.28	68.13	-81.86	-595.13	-3,482.96	918.17	784.08	134.09	6.847		
11,500.00	7,372.44	11,383.81	7,242.05	67.80	69.75	-81.84	-594.94	-3,582.96	918.30	781.09	137.21	6.693		
11,600.00	7,372.75	11,483.81	7,242.02	69.33	71.37	-81.82	-594.75	-3,682.96	918.42	778.10	140.32	6.545		
11,700.00	7,373.05	11,583.81	7,242.00	70.87	72.99	-81.80	-594.56	-3,782.96	918.55	775.09	143.45	6.403		
11,800.00	7,373.36	11,683.81	7,241.97	72.41	74.62	-81.78	-594.37	-3,882.96	918.67	772.08	146.59	6.267		
11,900.00	7,373.67	11,783.80	7,241.95	73.96	76.24	-81.76	-594.18	-3,982.96	918.80	769.06	149.73	6.136		
12,000.00	7,373.97	11,883.80	7,241.92	75.51	77.87	-81.74	-593.99	-4,082.96	918.92	766.04	152.88	6.011		
12,100.00	7,374.28	11,983.80	7,241.90	77.07	79.50	-81.72	-593.80	-4,182.96	919.05	763.01	156.04	5.890		
12,200.00	7,374.59	12,083.80	7,241.87	78.63	81.14	-81.70	-593.61	-4,282.96	919.17	759.97	159.20	5.774		
12,300.00	7,374.90	12,183.80	7,241.84	80.20	82.77	-81.68	-593.41	-4,382.96	919.30	756.93	162.37	5.662		
12,400.00	7,375.20	12,283.80	7,241.82	81.77	84.40	-81.66	-593.22	-4,482.95	919.42	753.88	165.54	5.554		
12,500.00	7,375.51	12,383.80	7,241.79	83.34	86.04	-81.64	-593.03	-4,582.95	919.55	750.83	168.72	5.450		
12,600.00	7,375.82	12,483.80	7,241.77	84.92	87.68	-81.62	-592.84	-4,682.95	919.67	747.77	171.90	5.350		
12,700.00	7,376.12	12,583.80	7,241.74	86.50	89.32	-81.60	-592.65	-4,782.95	919.80	744.71	175.09	5.253		
12,800.00	7,376.43	12,683.80	7,241.72	88.09	90.96	-81.58	-592.46	-4,882.95	919.93	741.64	178.28	5.160		
12,900.00	7,376.74	12,783.80	7,241.69	89.68	92.60	-81.56	-592.27	-4,982.95	920.05	738.57	181.48	5.070		
13,000.00	7,377.04	12,883.80	7,241.67	91.27	94.24	-81.54	-592.08	-5,082.95	920.18	735.50	184.68	4.983		
13,100.00	7,377.35	12,983.80	7,241.64	92.86	95.89	-81.52	-591.89	-5,182.95	920.30	732.43	187.88	4.898		
13,200.00	7,377.66	13,083.80	7,241.61	94.46	97.53	-81.50	-591.69	-5,282.95	920.43	729.35	191.09	4.817		
13,300.00	7,377.97	13,183.80	7,241.59	96.06	99.17	-81.48	-591.50	-5,382.95	920.56	726.26	194.30	4.738		
13,400.00	7,378.27	13,283.80	7,241.56	97.66	100.82	-81.46	-591.31	-5,482.95	920.68	723.18	197.51	4.662		
13,500.00	7,378.58	13,383.80	7,241.54	99.27	102.47	-81.44	-591.12	-5,582.95	920.81	720.09	200.72	4.587		
13,600.00	7,378.89	13,483.79	7,241.51	100.87	104.12	-81.42	-590.93	-5,682.95	920.94	717.00	203.94	4.516		
13,700.00	7,379.19	13,583.79	7,241.49	102.48	105.76	-81.40	-590.74	-5,782.94	921.06	713.90	207.16	4.446		
13,800.00	7,379.50	13,683.79	7,241.46	104.09	107.41	-81.38	-590.55	-5,882.94	921.19	710.81	210.38	4.379		
13,900.00	7,379.81	13,783.79	7,241.43	105.71	109.06	-81.36	-590.36	-5,982.94	921.32	707.71	213.61	4.313		
14,000.00	7,380.12	13,883.79	7,241.41	107.32	110.71	-81.34	-590.17	-6,082.94	921.45	704.61	216.84	4.250		
14,100.00	7,380.42	13,983.79	7,241.38	108.94	112.37	-81.32	-589.98	-6,182.94	921.57	701.51	220.07	4.188		
14,200.00	7,380.73	14,083.79	7,241.36	110.55	114.02	-81.30	-589.78	-6,282.94	921.70	698.40	223.30	4.128		
14,300.00	7,381.04	14,183.79	7,241.33	112.17	115.67	-81.28	-589.59	-6,382.94	921.83	695.30	226.53	4.069		
14,400.00	7,381.34	14,283.79	7,241.31	113.79	117.32	-81.26	-589.40	-6,482.94	921.96	692.19	229.76	4.013		
14,500.00	7,381.65	14,383.79	7,241.28	115.42	118.98	-81.24	-589.21	-6,582.94	922.08	689.08	233.00	3.957		
14,600.00	7,381.96	14,483.79	7,241.25	117.04	120.63	-81.22	-589.02	-6,682.94	922.21	685.97	236.24	3.904		
14,700.00	7,382.27	14,583.79	7,241.23	118.66	122.28	-81.20	-588.83	-6,782.94	922.34	682.86	239.48	3.851		
14,800.00	7,382.57	14,683.79	7,241.20	120.29	123.94	-81.18	-588.64	-6,882.94	922.47	679.75	242.72	3.801		
14,900.00	7,382.88	14,783.79	7,241.18	121.92	125.60	-81.17	-588.45	-6,982.94	922.60	676.63	245.96	3.751		
15,000.00	7,383.19	14,883.79	7,241.15	123.55	127.25	-81.15	-588.26	-7,082.93	922.73	673.52	249.21	3.703		
15,100.00	7,383.49	14,983.79	7,241.13	125.18	128.91	-81.13	-588.06	-7,182.93	922.85	670.40	252.45	3.656		
15,200.00	7,383.80	15,083.79	7,241.10	126.81	130.56	-81.11	-587.87	-7,282.93	922.98	667.29	255.70	3.610		
15,300.00	7,384.11	15,183.78	7,241.07	128.44	132.22	-81.09	-587.68	-7,382.93	923.11	664.17	258.95	3.565		
15,400.00	7,384.41	15,283.78	7,241.05	130.07	133.88	-81.07	-587.49	-7,482.93	923.24	661.05	262.19	3.521		
15,500.00	7,384.72	15,383.78	7,241.02	131.71	135.54	-81.05	-587.30	-7,582.93	923.37	657.93	265.44	3.479		



Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,590.73	7,385.00	15,474.51	7,241.00	133.19	137.04	-81.03	-587.13	-7,673.66	923.49	655.10	268.39	3.441 SF	

**Hewlett-Packard**  
Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.67	-240.06	1.39	240.07				
100.00	100.00	100.00	100.00	3.28	3.28	179.67	-240.06	1.39	240.07	232.54	7.53	31.886	
200.00	200.00	200.00	200.00	3.31	3.31	179.67	-240.06	1.39	240.07	232.49	7.57	31.697	CC, ES
300.00	299.98	296.48	296.48	3.35	3.35	109.33	-240.40	1.56	241.00	233.35	7.66	31.473	SF
400.00	399.84	389.29	389.23	3.42	3.40	110.00	-243.09	2.90	245.66	237.89	7.77	31.611	
500.00	499.45	481.64	481.39	3.51	3.47	110.93	-248.44	5.57	254.45	246.52	7.93	32.096	
600.00	598.72	573.31	572.62	3.63	3.56	112.09	-256.37	9.52	267.36	259.23	8.13	32.884	
700.00	697.87	664.32	662.88	3.77	3.68	113.15	-266.83	14.74	283.49	275.11	8.37	33.863	
800.00	797.03	754.59	751.98	3.94	3.83	113.80	-279.73	21.17	302.35	293.70	8.65	34.949	
900.00	896.19	843.95	839.70	4.13	4.01	114.10	-294.97	28.77	323.84	314.88	8.97	36.119	
1,000.00	995.34	932.25	925.82	4.34	4.23	114.12	-312.42	37.47	347.90	338.59	9.31	37.353	
1,100.00	1,094.50	1,019.33	1,010.12	4.56	4.48	113.90	-331.96	47.21	374.48	364.79	9.69	38.642	
1,200.00	1,193.65	1,111.21	1,098.46	4.80	4.79	113.53	-354.55	58.47	403.09	392.96	10.13	39.788	
1,300.00	1,292.81	1,206.93	1,190.44	5.05	5.14	113.17	-378.28	70.30	431.91	421.29	10.62	40.654	
1,400.00	1,391.97	1,302.65	1,282.41	5.31	5.52	112.86	-402.00	82.13	460.75	449.61	11.14	41.345	
1,500.00	1,491.12	1,401.62	1,374.39	5.57	5.94	112.59	-425.73	93.96	489.60	477.90	11.70	41.863	
1,600.00	1,590.28	1,505.90	1,466.37	5.85	6.39	112.34	-449.46	105.80	518.46	506.17	12.28	42.205	
1,700.00	1,689.43	1,589.83	1,558.35	6.13	6.77	112.12	-473.19	117.63	547.32	534.50	12.82	42.684	
1,800.00	1,788.59	1,685.55	1,650.33	6.41	7.21	111.93	-496.92	129.46	576.19	562.78	13.41	42.957	
1,900.00	1,887.75	1,781.27	1,742.31	6.70	7.65	111.75	-520.64	141.29	605.07	591.27	13.81	43.822	
2,000.00	1,986.90	1,877.00	1,834.28	7.00	7.94	111.59	-544.37	153.12	633.96	619.84	14.12	44.899	
2,100.00	2,086.06	1,972.72	1,926.26	7.30	8.06	111.44	-568.10	164.95	662.84	648.38	14.47	45.815	
2,200.00	2,185.21	2,068.44	2,018.24	7.60	8.14	111.31	-591.83	176.78	691.73	676.94	14.80	46.743	
2,300.00	2,284.37	2,164.17	2,110.22	7.90	8.24	111.18	-615.55	188.61	720.63	705.48	15.15	47.561	
2,400.00	2,383.52	2,259.89	2,202.20	8.21	8.36	111.07	-639.28	200.44	749.52	734.00	15.53	48.277	
2,500.00	2,482.68	2,355.61	2,294.18	8.52	8.51	110.96	-663.01	212.27	778.42	762.50	15.92	48.898	
2,600.00	2,581.84	2,451.34	2,386.15	8.83	8.67	110.86	-686.74	224.10	807.33	790.99	16.33	49.431	
2,700.00	2,680.99	2,547.06	2,478.13	9.14	8.84	110.77	-710.47	235.93	836.23	819.47	16.76	49.884	
2,800.00	2,780.15	2,642.78	2,570.11	9.45	9.04	110.69	-734.19	247.76	865.14	847.92	17.21	50.265	
2,900.00	2,879.30	2,738.51	2,662.09	9.77	9.25	110.61	-757.92	259.59	894.04	876.37	17.68	50.581	
3,000.00	2,978.46	2,834.23	2,754.07	10.09	9.47	110.53	-781.65	271.42	922.95	904.80	18.15	50.839	
3,100.00	3,077.62	2,929.95	2,846.05	10.41	9.71	110.46	-805.38	283.25	951.86	933.21	18.65	51.045	
3,200.00	3,176.77	3,025.68	2,938.02	10.73	9.95	110.39	-829.10	295.08	980.77	961.62	19.15	51.207	
3,300.00	3,275.93	3,121.40	3,030.00	11.05	10.21	110.33	-852.83	306.91	1,009.69	990.01	19.67	51.329	
3,400.00	3,375.08	3,217.12	3,121.98	11.37	10.48	110.27	-876.56	318.74	1,038.60	1,018.40	20.20	51.416	
3,500.00	3,474.24	3,312.85	3,213.96	11.69	10.76	110.22	-900.29	330.57	1,067.51	1,046.77	20.74	51.473	
3,600.00	3,573.39	3,408.57	3,305.94	12.01	11.05	110.16	-924.02	342.40	1,096.43	1,075.14	21.29	51.505	
3,700.00	3,672.55	3,504.29	3,397.92	12.34	11.35	110.11	-947.74	354.23	1,125.35	1,103.50	21.85	51.515	
3,800.00	3,771.71	3,600.02	3,489.89	12.66	11.66	110.06	-971.47	366.06	1,154.26	1,131.85	22.41	51.504	
3,900.00	3,870.86	3,704.26	3,581.87	12.99	12.00	110.02	-995.20	377.89	1,183.18	1,160.17	23.01	51.425	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	179.64	-220.03	1.39	220.03					
100.00	100.00	100.00	100.00	3.28	3.28	179.64	-220.03	1.39	220.03	212.51	7.53	29.225		
200.00	200.00	200.00	200.00	3.31	3.31	179.64	-220.03	1.39	220.03	212.46	7.57	29.052 CC, ES		
300.00	299.98	293.68	293.66	3.35	3.34	109.16	-221.36	2.15	222.03	214.38	7.65	29.012 SF		
400.00	399.84	387.10	386.97	3.42	3.40	109.64	-225.34	4.41	228.02	220.26	7.77	29.355		
500.00	499.45	480.01	479.57	3.51	3.47	110.38	-231.91	8.16	238.04	230.11	7.93	30.034		
600.00	598.72	572.19	571.14	3.63	3.57	111.36	-241.01	13.34	252.05	243.92	8.13	30.995		
700.00	697.87	663.64	661.62	3.77	3.70	112.22	-252.56	19.91	269.15	260.77	8.38	32.126		
800.00	797.03	754.29	750.84	3.94	3.86	112.65	-266.49	27.84	288.90	280.24	8.66	33.342		
900.00	896.19	843.96	838.55	4.13	4.06	112.72	-282.67	37.05	311.22	302.24	8.99	34.621		
1,000.00	995.34	934.12	926.12	4.34	4.30	112.52	-301.28	47.64	336.02	326.66	9.36	35.917		
1,100.00	1,094.50	1,030.76	1,019.77	4.56	4.60	112.24	-322.05	59.47	361.64	351.84	9.79	36.924		
1,200.00	1,193.65	1,127.41	1,113.41	4.80	4.93	111.99	-342.83	71.29	387.26	377.00	10.27	37.725		
1,300.00	1,292.81	1,224.06	1,207.06	5.05	5.27	111.78	-363.60	83.12	412.90	402.13	10.76	38.357		
1,400.00	1,391.97	1,320.71	1,300.70	5.31	5.64	111.59	-384.38	94.95	438.53	427.24	11.29	38.848		
1,500.00	1,491.12	1,417.36	1,394.35	5.57	6.02	111.43	-405.15	106.77	464.17	452.35	11.83	39.242		
1,600.00	1,590.28	1,514.01	1,488.00	5.85	6.42	111.28	-425.93	118.60	489.82	477.43	12.39	39.538		
1,700.00	1,689.43	1,610.66	1,581.64	6.13	6.82	111.14	-446.70	130.42	515.47	502.50	12.96	39.764		
1,800.00	1,788.59	1,707.30	1,675.29	6.41	7.24	111.02	-467.48	142.25	541.11	527.56	13.55	39.933		
1,900.00	1,887.75	1,803.95	1,768.93	6.70	7.65	110.91	-488.25	154.07	566.77	552.83	13.93	40.675		
2,000.00	1,986.90	1,900.60	1,862.58	7.00	7.88	110.81	-509.03	165.90	592.42	578.21	14.21	41.680		
2,100.00	2,086.06	2,002.75	1,956.22	7.30	7.94	110.72	-529.80	177.73	618.08	603.54	14.53	42.534		
2,200.00	2,185.21	2,106.10	2,049.87	7.60	8.03	110.63	-550.58	189.55	643.73	628.86	14.87	43.282		
2,300.00	2,284.37	2,209.45	2,143.51	7.90	8.14	110.55	-571.35	201.38	669.39	654.15	15.24	43.929		
2,400.00	2,383.52	2,287.19	2,237.16	8.21	8.23	110.48	-592.13	213.20	695.05	679.45	15.60	44.555		
2,500.00	2,482.68	2,383.84	2,330.81	8.52	8.37	110.41	-612.90	225.03	720.71	704.71	16.00	45.058		
2,600.00	2,581.84	2,480.49	2,424.45	8.83	8.52	110.35	-633.68	236.85	746.37	729.96	16.41	45.487		
2,700.00	2,680.99	2,577.14	2,518.10	9.14	8.68	110.29	-654.45	248.68	772.03	755.19	16.84	45.849		
2,800.00	2,780.15	2,673.79	2,611.74	9.45	8.86	110.23	-675.23	260.51	797.69	780.41	17.28	46.151		
2,900.00	2,879.30	2,770.44	2,705.39	9.77	9.06	110.18	-696.00	272.33	823.36	805.61	17.75	46.398		
3,000.00	2,978.46	2,867.08	2,799.03	10.09	9.26	110.13	-716.78	284.16	849.02	830.80	18.22	46.597		
3,100.00	3,077.62	2,963.73	2,892.68	10.41	9.48	110.09	-737.55	295.98	874.68	855.97	18.71	46.754		
3,200.00	3,176.77	3,060.38	2,986.32	10.73	9.71	110.05	-758.32	307.81	900.35	881.14	19.21	46.873		
3,300.00	3,275.93	3,157.03	3,079.97	11.05	9.96	110.00	-779.10	319.63	926.01	906.29	19.72	46.958		
3,400.00	3,375.08	3,253.68	3,173.61	11.37	10.21	109.97	-799.87	331.46	951.68	931.44	20.24	47.015		
3,500.00	3,474.24	3,350.33	3,267.26	11.69	10.47	109.93	-820.65	343.29	977.34	956.57	20.77	47.047		
3,600.00	3,573.39	3,446.98	3,360.91	12.01	10.74	109.89	-841.42	355.11	1,003.01	981.69	21.31	47.058		
3,700.00	3,672.55	3,543.62	3,454.55	12.34	11.02	109.86	-862.20	366.94	1,028.68	1,006.81	21.86	47.049		
3,800.00	3,771.71	3,640.27	3,548.20	12.66	11.30	109.83	-882.97	378.76	1,054.34	1,031.92	22.42	47.025		
3,900.00	3,870.86	3,736.92	3,641.84	12.99	11.59	109.80	-903.75	390.59	1,080.01	1,057.02	22.99	46.988		
4,000.00	3,970.02	3,833.57	3,735.49	13.31	11.89	109.77	-924.52	402.41	1,105.68	1,082.12	23.56	46.938		
4,100.00	4,069.17	3,930.22	3,829.13	13.64	12.19	109.74	-945.30	414.24	1,131.34	1,107.21	24.13	46.880		
4,200.00	4,168.33	4,026.87	3,922.78	13.97	12.50	109.72	-966.07	426.07	1,157.01	1,132.30	24.72	46.813		
4,300.00	4,267.49	4,123.51	4,016.42	14.29	12.81	109.69	-986.85	437.89	1,182.68	1,157.38	25.30	46.739		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	(usft)				
0.00	0.00	1.00	1.00	3.28	3.28	-146.07	-221.12	-148.78	266.51							
100.00	100.00	101.00	101.00	3.28	3.28	-146.07	-221.12	-148.78	266.51	258.99	7.53	35.399				
200.00	200.00	201.00	201.00	3.31	3.31	-146.07	-221.12	-148.78	266.51	258.94	7.57	35.187	CC, ES, SF			
300.00	299.98	293.47	293.46	3.35	3.34	143.29	-222.65	-148.85	269.32	261.67	7.65	35.190				
400.00	399.84	385.60	385.47	3.42	3.40	143.31	-227.13	-149.08	277.68	269.91	7.77	35.735				
500.00	499.45	476.88	476.45	3.51	3.47	143.33	-234.48	-149.44	291.55	283.61	7.93	36.759				
600.00	598.72	566.95	565.95	3.63	3.56	143.40	-244.56	-149.95	310.73	302.59	8.14	38.180				
700.00	697.87	655.89	653.96	3.77	3.68	143.43	-257.27	-150.58	333.24	324.87	8.37	39.813				
800.00	797.03	743.67	740.41	3.94	3.83	143.22	-272.49	-151.34	358.30	349.66	8.64	41.487				
900.00	896.19	831.22	826.12	4.13	4.01	142.83	-290.28	-152.22	385.86	376.92	8.94	43.172				
1,000.00	995.34	927.00	919.66	4.34	4.25	142.36	-310.85	-153.25	414.43	405.12	9.31	44.524				
1,100.00	1,094.50	1,022.78	1,013.20	4.56	4.51	141.96	-331.43	-154.27	443.02	433.31	9.71	45.620				
1,200.00	1,193.65	1,118.56	1,106.74	4.80	4.80	141.61	-352.00	-155.29	471.64	461.49	10.14	46.498				
1,300.00	1,292.81	1,214.34	1,200.29	5.05	5.10	141.29	-372.58	-156.32	500.26	489.66	10.60	47.195				
1,400.00	1,391.97	1,310.12	1,293.83	5.31	5.42	141.01	-393.15	-157.34	528.90	517.82	11.08	47.743				
1,500.00	1,491.12	1,405.91	1,387.37	5.57	5.75	140.76	-413.73	-158.37	557.55	545.97	11.57	48.176				
1,600.00	1,590.28	1,501.69	1,480.91	5.85	6.09	140.54	-434.30	-159.39	586.20	574.12	12.09	48.505				
1,700.00	1,689.43	1,597.47	1,574.45	6.13	6.44	140.33	-454.88	-160.42	614.87	602.25	12.61	48.756				
1,800.00	1,788.59	1,706.75	1,667.99	6.41	6.85	140.14	-475.45	-161.44	643.54	630.35	13.19	48.792				
1,900.00	1,887.75	1,789.03	1,761.53	6.70	7.16	139.97	-496.03	-162.47	672.21	658.72	13.49	49.836				
2,000.00	1,986.90	1,884.81	1,855.07	7.00	7.38	139.82	-516.60	-163.49	700.89	687.15	13.75	50.980				
2,100.00	2,086.06	1,980.60	1,948.61	7.30	7.46	139.67	-537.18	-164.51	729.58	715.52	14.06	51.888				
2,200.00	2,185.21	2,076.38	2,042.15	7.60	7.52	139.54	-557.75	-165.54	758.27	743.90	14.37	52.770				
2,300.00	2,284.37	2,172.16	2,135.69	7.90	7.61	139.41	-578.33	-166.56	786.96	772.27	14.70	53.544				
2,400.00	2,383.52	2,267.94	2,229.23	8.21	7.71	139.30	-598.90	-167.59	815.66	800.62	15.04	54.219				
2,500.00	2,482.68	2,363.72	2,322.77	8.52	7.82	139.19	-619.48	-168.61	844.36	828.95	15.41	54.800				
2,600.00	2,581.84	2,459.50	2,416.31	8.83	7.95	139.09	-640.05	-169.64	873.06	857.27	15.79	55.296				
2,700.00	2,680.99	2,555.29	2,509.85	9.14	8.10	139.00	-660.63	-170.66	901.77	885.58	16.19	55.714				
2,800.00	2,780.15	2,651.07	2,603.39	9.45	8.25	138.91	-681.20	-171.69	930.47	913.87	16.60	56.060				
2,900.00	2,879.30	2,746.85	2,696.93	9.77	8.43	138.82	-701.78	-172.71	959.18	942.16	17.02	56.343				
3,000.00	2,978.46	2,842.63	2,790.47	10.09	8.61	138.75	-722.35	-173.73	987.89	970.43	17.46	56.568				
3,100.00	3,077.62	2,938.41	2,884.01	10.41	8.80	138.67	-742.92	-174.76	1,016.60	998.69	17.92	56.742				
3,200.00	3,176.77	3,034.19	2,977.55	10.73	9.01	138.60	-763.50	-175.78	1,045.32	1,026.94	18.38	56.871				
3,300.00	3,275.93	3,129.97	3,071.09	11.05	9.23	138.54	-784.07	-176.81	1,074.03	1,055.17	18.86	56.961				
3,400.00	3,375.08	3,225.76	3,164.63	11.37	9.45	138.47	-804.65	-177.83	1,102.75	1,083.40	19.34	57.015				
3,500.00	3,474.24	3,321.54	3,258.17	11.69	9.69	138.42	-825.22	-178.86	1,131.46	1,111.63	19.84	57.040				
3,600.00	3,573.39	3,417.32	3,351.71	12.01	9.93	138.36	-845.80	-179.88	1,160.18	1,139.84	20.34	57.039				
3,700.00	3,672.55	3,513.10	3,445.25	12.34	10.18	138.31	-866.37	-180.90	1,188.90	1,168.05	20.85	57.015				

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27C-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-148.38	-241.16	-148.50	283.22				
100.00	100.00	101.00	101.00	3.28	3.28	-148.38	-241.16	-148.50	283.22	275.69	7.53	37.617	
200.00	200.00	201.00	201.00	3.31	3.31	-148.38	-241.16	-148.50	283.22	275.64	7.57	37.392 CC, ES	
300.00	299.98	292.90	292.89	3.35	3.34	140.99	-242.67	-148.56	286.00	278.35	7.65	37.371 SF	
400.00	399.84	384.47	384.34	3.42	3.39	141.06	-247.09	-148.75	294.29	286.52	7.77	37.877	
500.00	499.45	475.21	474.79	3.51	3.47	141.15	-254.36	-149.06	308.03	300.10	7.93	38.849	
600.00	598.72	564.76	563.77	3.63	3.56	141.31	-264.33	-149.49	327.06	318.93	8.13	40.205	
700.00	697.87	653.19	651.31	3.77	3.68	141.46	-276.90	-150.03	349.43	341.07	8.37	41.772	
800.00	797.03	740.50	737.30	3.94	3.83	141.37	-291.95	-150.67	374.38	365.75	8.63	43.381	
900.00	896.19	826.54	821.56	4.13	4.01	141.10	-309.34	-151.42	401.85	392.93	8.93	45.018	
1,000.00	995.34	911.19	903.90	4.34	4.22	140.70	-328.91	-152.25	431.82	422.57	9.25	46.678	
1,100.00	1,094.50	1,001.68	991.42	4.56	4.48	140.18	-351.91	-153.24	463.78	454.14	9.64	48.128	
1,200.00	1,193.65	1,096.29	1,082.87	4.80	4.79	139.69	-376.14	-154.28	495.93	485.86	10.07	49.236	
1,300.00	1,292.81	1,209.10	1,174.32	5.05	5.18	139.26	-400.36	-155.31	528.12	517.54	10.59	49.890	
1,400.00	1,391.97	1,285.51	1,265.77	5.31	5.46	138.89	-424.59	-156.35	560.33	549.31	11.02	50.833	
1,500.00	1,491.12	1,380.12	1,357.22	5.57	5.83	138.55	-448.81	-157.39	592.56	581.03	11.53	51.408	
1,600.00	1,590.28	1,474.73	1,448.67	5.85	6.20	138.25	-473.04	-158.42	624.80	612.75	12.05	51.846	
1,700.00	1,689.43	1,569.34	1,540.12	6.13	6.59	137.98	-497.27	-159.46	657.06	644.47	12.59	52.190	
1,800.00	1,788.59	1,663.95	1,631.57	6.41	6.98	137.73	-521.49	-160.50	689.33	676.19	13.14	52.458	
1,900.00	1,887.75	1,758.56	1,723.02	6.70	7.39	137.50	-545.72	-161.53	721.62	708.12	13.49	53.476	
2,000.00	1,986.90	1,853.17	1,814.47	7.00	7.69	137.30	-569.94	-162.57	753.91	740.10	13.81	54.593	
2,100.00	2,086.06	1,947.78	1,905.92	7.30	7.84	137.11	-594.17	-163.61	786.21	772.04	14.17	55.488	
2,200.00	2,185.21	2,042.39	1,997.37	7.60	7.91	136.94	-618.39	-164.64	818.51	804.04	14.47	56.554	
2,300.00	2,284.37	2,137.00	2,088.82	7.90	8.00	136.78	-642.62	-165.68	850.82	836.03	14.80	57.496	
2,400.00	2,383.52	2,231.61	2,180.27	8.21	8.11	136.63	-666.84	-166.72	883.14	868.00	15.14	58.321	
2,500.00	2,482.68	2,326.22	2,271.72	8.52	8.23	136.49	-691.07	-167.75	915.46	899.96	15.51	59.038	
2,600.00	2,581.84	2,420.83	2,363.17	8.83	8.37	136.36	-715.29	-168.79	947.79	931.90	15.89	59.653	
2,700.00	2,680.99	2,515.44	2,454.62	9.14	8.53	136.24	-739.52	-169.83	980.12	963.83	16.29	60.176	
2,800.00	2,780.15	2,610.05	2,546.07	9.45	8.70	136.13	-763.74	-170.86	1,012.46	995.75	16.70	60.614	
2,900.00	2,879.30	2,704.66	2,637.52	9.77	8.89	136.02	-787.97	-171.90	1,044.79	1,027.66	17.13	60.976	
3,000.00	2,978.46	2,800.73	2,728.97	10.09	9.09	135.92	-812.20	-172.94	1,077.13	1,059.55	17.58	61.260	
3,100.00	3,077.62	2,906.12	2,820.42	10.41	9.33	135.83	-836.42	-173.97	1,109.48	1,091.41	18.06	61.421	
3,200.00	3,176.77	2,988.49	2,911.87	10.73	9.53	135.74	-860.65	-175.01	1,141.82	1,123.31	18.51	61.677	
3,300.00	3,275.93	3,083.10	3,003.32	11.05	9.77	135.66	-884.87	-176.05	1,174.17	1,155.17	19.00	61.807	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-129.00	-120.94	-149.34	192.17					
100.00	100.00	101.00	101.00	3.28	3.28	-129.00	-120.94	-149.34	192.17	184.64	7.53	25.524		
200.00	200.00	201.00	201.00	3.31	3.31	-129.00	-120.94	-149.34	192.17	184.59	7.57	25.371	CC, ES	
300.00	299.98	296.26	296.24	3.35	3.34	160.16	-122.55	-149.53	195.03	187.38	7.66	25.478		
400.00	399.84	391.10	390.95	3.42	3.40	159.65	-127.26	-150.12	203.58	195.80	7.78	26.181		
500.00	499.45	489.96	489.58	3.51	3.48	159.12	-133.97	-150.96	216.71	208.76	7.95	27.268		
600.00	598.72	588.63	588.02	3.63	3.57	158.96	-140.66	-151.79	232.95	224.79	8.17	28.522		
700.00	697.87	687.15	686.32	3.77	3.70	158.96	-147.34	-152.62	250.04	241.63	8.41	29.717		
800.00	797.03	785.68	784.62	3.94	3.84	158.96	-154.03	-153.46	267.13	258.43	8.70	30.714		
900.00	896.19	884.21	882.92	4.13	3.99	158.97	-160.71	-154.29	284.22	275.21	9.01	31.531		
1,000.00	995.34	982.74	981.22	4.34	4.17	158.97	-167.40	-155.12	301.31	291.95	9.36	32.193		
1,100.00	1,094.50	1,081.27	1,079.51	4.56	4.35	158.97	-174.08	-155.95	318.40	308.67	9.73	32.720		
1,200.00	1,193.65	1,179.80	1,177.81	4.80	4.55	158.97	-180.76	-156.79	335.49	325.36	10.13	33.134		
1,300.00	1,292.81	1,278.33	1,276.11	5.05	4.76	158.97	-187.45	-157.62	352.58	342.04	10.54	33.454		
1,400.00	1,391.97	1,376.86	1,374.41	5.31	4.97	158.98	-194.13	-158.45	369.66	358.69	10.97	33.696		
1,500.00	1,491.12	1,475.39	1,472.71	5.57	5.20	158.98	-200.82	-159.28	386.75	375.34	11.42	33.874		
1,600.00	1,590.28	1,573.92	1,571.01	5.85	5.43	158.98	-207.50	-160.12	403.84	391.96	11.88	34.001		
1,700.00	1,689.43	1,672.44	1,669.31	6.13	5.66	158.98	-214.19	-160.95	420.93	408.58	12.35	34.086		
1,800.00	1,788.59	1,770.97	1,767.60	6.41	5.90	158.98	-220.87	-161.78	438.02	425.19	12.83	34.136		
1,900.00	1,887.75	1,869.50	1,865.90	6.70	6.07	158.98	-227.55	-162.61	455.11	442.25	12.86	35.388		
2,000.00	1,986.90	1,968.03	1,964.20	7.00	6.12	158.98	-234.24	-163.45	472.20	459.03	13.17	35.861		
2,100.00	2,086.06	2,066.56	2,062.50	7.30	6.15	158.99	-240.92	-164.28	489.29	475.83	13.45	36.366		
2,200.00	2,185.21	2,165.09	2,160.80	7.60	6.19	158.99	-247.61	-165.11	506.38	492.62	13.76	36.808		
2,300.00	2,284.37	2,263.62	2,259.10	7.90	6.24	158.99	-254.29	-165.95	523.46	509.39	14.08	37.188		
2,400.00	2,383.52	2,362.15	2,357.40	8.21	6.31	158.99	-260.97	-166.78	540.55	526.14	14.41	37.513		
2,500.00	2,482.68	2,460.68	2,455.69	8.52	6.38	158.99	-267.66	-167.61	557.64	542.88	14.76	37.786		
2,600.00	2,581.84	2,559.21	2,553.99	8.83	6.47	158.99	-274.34	-168.44	574.73	559.61	15.12	38.012		
2,700.00	2,680.99	2,657.74	2,652.29	9.14	6.58	158.99	-281.03	-169.28	591.82	576.33	15.49	38.195		
2,800.00	2,780.15	2,756.26	2,750.59	9.45	6.69	158.99	-287.71	-170.11	608.91	593.03	15.88	38.340		
2,900.00	2,879.30	2,854.79	2,848.89	9.77	6.81	158.99	-294.39	-170.94	626.00	609.72	16.28	38.450		
3,000.00	2,978.46	2,953.32	2,947.19	10.09	6.94	158.99	-301.08	-171.77	643.09	626.40	16.69	38.529		
3,100.00	3,077.62	3,051.85	3,045.49	10.41	7.09	158.99	-307.76	-172.61	660.18	643.06	17.11	38.581		
3,200.00	3,176.77	3,150.38	3,143.78	10.73	7.24	158.99	-314.45	-173.44	677.26	659.72	17.54	38.609		
3,300.00	3,275.93	3,248.91	3,242.08	11.05	7.39	158.99	-321.13	-174.27	694.35	676.37	17.98	38.616		
3,400.00	3,375.08	3,347.44	3,340.38	11.37	7.56	158.99	-327.82	-175.10	711.44	693.01	18.43	38.604		
3,500.00	3,474.24	3,445.97	3,438.68	11.69	7.73	158.99	-334.50	-175.94	728.53	709.65	18.89	38.577		
3,600.00	3,573.39	3,544.50	3,536.98	12.01	7.91	158.99	-341.18	-176.77	745.62	726.27	19.35	38.536		
3,700.00	3,672.55	3,643.03	3,635.28	12.34	8.10	158.99	-347.87	-177.60	762.71	742.89	19.82	38.484		
3,800.00	3,771.71	3,741.55	3,733.57	12.66	8.29	159.00	-354.55	-178.43	779.80	759.50	20.30	38.422		
3,900.00	3,870.86	3,840.08	3,831.87	12.99	8.49	159.00	-361.24	-179.27	796.89	776.11	20.78	38.351		
4,000.00	3,970.02	3,938.61	3,930.17	13.31	8.69	159.00	-367.92	-180.10	813.97	792.71	21.27	38.274		
4,100.00	4,069.17	4,037.14	4,028.47	13.64	8.90	159.00	-374.60	-180.93	831.06	809.30	21.76	38.190		
4,200.00	4,168.33	4,135.67	4,126.77	13.97	9.11	159.00	-381.29	-181.76	848.15	825.89	22.26	38.102		
4,300.00	4,267.49	4,234.20	4,225.07	14.29	9.32	159.00	-387.97	-182.60	865.24	842.48	22.76	38.011		
4,400.00	4,366.64	4,332.73	4,323.37	14.62	9.54	159.00	-394.66	-183.43	882.33	859.06	23.27	37.916		
4,500.00	4,465.80	4,431.26	4,421.66	14.95	9.77	159.00	-401.34	-184.26	899.42	875.64	23.78	37.819		
4,600.00	4,564.95	4,529.79	4,519.96	15.28	9.99	159.00	-408.03	-185.10	916.51	892.21	24.30	37.720		
4,700.00	4,664.11	4,628.32	4,618.26	15.61	10.22	159.00	-414.71	-185.93	933.60	908.78	24.82	37.620		
4,800.00	4,763.26	4,726.84	4,716.56	15.94	10.45	159.00	-421.39	-186.76	950.69	925.35	25.34	37.519		
4,900.00	4,862.42	4,825.37	4,814.86	16.27	10.69	159.00	-428.08	-187.59	967.77	941.91	25.86	37.418		
5,000.00	4,961.58	4,923.90	4,913.16	16.60	10.93	159.00	-434.76	-188.43	984.86	958.47	26.39	37.317		
5,100.00	5,060.73	5,022.43	5,011.46	16.93	11.17	159.00	-441.45	-189.26	1,001.95	975.03	26.92	37.216		

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	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	5,159.89	5,120.96	5,109.75	17.26	11.41	159.00	-448.13	-190.09	1,019.04	991.59	27.46	37.116	
5,300.00	5,259.04	5,219.49	5,208.05	17.59	11.65	159.00	-454.81	-190.92	1,036.13	1,008.14	27.99	37.016	
5,400.00	5,358.20	5,318.02	5,306.35	17.92	11.90	159.00	-461.50	-191.76	1,053.22	1,024.69	28.53	36.917	
5,500.00	5,457.36	5,416.55	5,404.65	18.25	12.14	159.00	-468.18	-192.59	1,070.31	1,041.24	29.07	36.820	
5,600.00	5,556.51	5,515.08	5,502.95	18.58	12.39	159.00	-474.87	-193.42	1,087.40	1,057.79	29.61	36.723	
5,700.00	5,655.67	5,613.61	5,601.25	18.91	12.64	159.00	-481.55	-194.25	1,104.49	1,074.33	30.15	36.627	
5,800.00	5,754.82	5,712.14	5,699.55	19.24	12.90	159.00	-488.24	-195.09	1,121.57	1,090.87	30.70	36.533	
5,900.00	5,853.98	5,810.66	5,797.84	19.58	13.15	159.00	-494.92	-195.92	1,138.66	1,107.42	31.25	36.440	
6,000.00	5,953.13	5,909.19	5,896.14	19.91	13.41	159.00	-501.60	-196.75	1,155.75	1,123.96	31.80	36.349	
6,100.00	6,052.29	6,007.72	5,994.44	20.24	13.66	159.00	-508.29	-197.58	1,172.84	1,140.49	32.35	36.258	
6,200.00	6,151.45	6,106.25	6,092.74	20.57	13.92	159.00	-514.97	-198.42	1,189.93	1,157.03	32.90	36.170	
6,400.00	6,349.76	7,853.40	7,169.09	21.24	21.39	115.47	-583.38	739.71	1,173.98	1,137.77	36.20	32.427	
6,500.00	6,448.91	7,865.69	7,169.10	21.57	21.52	114.68	-583.31	752.00	1,110.37	1,072.82	37.55	29.570	
6,600.00	6,548.07	7,877.97	7,169.10	21.90	21.66	113.89	-583.25	764.28	1,052.29	1,013.31	38.99	26.991	
6,700.03	6,647.26	7,909.74	7,169.10	22.24	22.02	113.10	-583.19	776.57	1,000.69	960.02	40.67	24.603	
6,800.00	6,746.93	7,905.28	7,169.11	22.46	21.97	-142.96	-583.17	781.03	956.50	914.56	41.93	22.809	
6,900.00	6,846.10	7,883.52	7,169.10	22.61	21.72	-106.85	-583.22	769.83	921.30	878.43	42.87	21.493	
7,000.00	6,942.28	7,856.92	7,169.09	22.73	21.43	-101.86	-583.36	743.23	896.50	852.97	43.53	20.596	
7,100.00	7,033.11	7,815.60	7,169.08	22.85	20.97	-98.58	-583.57	701.91	882.25	838.49	43.77	20.157	
7,200.00	7,116.36	7,760.55	7,169.06	23.01	20.39	-94.94	-583.84	646.86	877.45	833.78	43.66	20.097 SF	
7,210.35	7,124.46	7,754.12	7,169.06	23.03	20.32	-94.53	-583.87	640.43	877.41	833.77	43.64	20.106	
7,300.00	7,189.97	7,706.86	7,169.04	23.26	19.84	-90.84	-584.18	579.45	879.92	836.46	43.46	20.248	
7,400.00	7,252.13	7,615.03	7,169.02	23.68	18.97	-86.66	-584.57	501.34	886.95	843.99	42.95	20.649	
7,500.00	7,301.31	7,530.20	7,168.74	24.34	18.24	-82.94	-584.98	416.52	895.76	853.01	42.75	20.956	
7,600.00	7,336.30	7,451.79	7,161.70	25.28	17.64	-79.84	-584.90	338.47	904.88	862.00	42.88	21.103	
7,700.00	7,356.23	7,376.33	7,145.94	26.48	17.15	-77.10	-584.20	264.73	913.79	870.46	43.33	21.090	
7,800.00	7,361.08	7,303.34	7,122.52	27.71	16.79	-74.90	-582.96	195.65	922.04	878.24	43.80	21.050	
7,900.00	7,361.38	7,235.64	7,093.88	27.76	16.56	-73.15	-581.32	134.36	932.68	889.42	43.26	21.560	
8,000.00	7,361.69	7,174.88	7,062.78	27.91	16.41	-71.28	-579.47	82.22	947.79	904.94	42.85	22.119	
8,100.00	7,362.00	7,120.97	7,031.14	28.16	16.30	-69.42	-577.54	38.64	968.09	925.52	42.57	22.741	
8,200.00	7,362.31	7,073.48	7,000.31	28.51	16.21	-67.63	-575.63	2.58	994.05	951.64	42.41	23.438	
8,300.00	7,362.61	7,031.76	6,971.08	28.95	16.12	-65.98	-573.79	-27.12	1,025.94	983.58	42.36	24.219	
8,400.00	7,362.92	7,000.00	6,947.56	29.47	16.06	-64.67	-572.30	-48.41	1,063.78	1,021.34	42.44	25.063	
8,500.00	7,363.23	6,962.88	6,918.78	30.09	15.98	-63.10	-570.47	-71.76	1,107.33	1,064.81	42.52	26.042	
8,600.00	7,363.53	6,934.44	6,895.83	30.78	15.93	-61.88	-568.99	-88.49	1,156.33	1,113.63	42.70	27.080	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-133.41	-140.98	-149.06	205.17				
100.00	100.00	101.00	101.00	3.28	3.28	-133.41	-140.98	-149.06	205.17	197.64	7.53	27.250	
200.00	200.00	201.00	201.00	3.31	3.31	-133.41	-140.98	-149.06	205.17	197.59	7.57	27.088	CC, ES
300.00	299.98	295.73	295.71	3.35	3.34	155.82	-142.57	-149.22	208.04	200.38	7.65	27.178	
400.00	399.84	390.05	389.91	3.42	3.40	155.47	-147.25	-149.69	216.59	208.81	7.78	27.857	
500.00	499.45	485.36	484.91	3.51	3.48	154.96	-154.92	-150.46	230.64	222.70	7.94	29.039	
600.00	598.72	583.80	582.96	3.63	3.57	154.73	-163.55	-151.33	248.25	240.09	8.16	30.408	
700.00	697.87	682.08	680.86	3.77	3.70	154.70	-172.15	-152.20	266.68	258.27	8.41	31.700	
800.00	797.03	780.37	778.77	3.94	3.85	154.68	-180.76	-153.06	285.12	276.42	8.70	32.774	
900.00	896.19	878.66	876.68	4.13	4.01	154.66	-189.37	-153.93	303.55	294.53	9.02	33.652	
1,000.00	995.34	976.94	974.58	4.34	4.19	154.65	-197.98	-154.80	321.98	312.61	9.37	34.359	
1,100.00	1,094.50	1,075.23	1,072.49	4.56	4.38	154.63	-206.59	-155.66	340.41	330.66	9.75	34.921	
1,200.00	1,193.65	1,173.52	1,170.39	4.80	4.59	154.62	-215.19	-156.53	358.84	348.69	10.15	35.359	
1,300.00	1,292.81	1,271.80	1,268.30	5.05	4.81	154.61	-223.80	-157.40	377.27	366.70	10.57	35.696	
1,400.00	1,391.97	1,370.09	1,366.20	5.31	5.03	154.60	-232.41	-158.26	395.70	384.69	11.01	35.948	
1,500.00	1,491.12	1,468.38	1,464.11	5.57	5.27	154.59	-241.02	-159.13	414.13	402.67	11.46	36.133	
1,600.00	1,590.28	1,566.66	1,562.01	5.85	5.51	154.58	-249.63	-160.00	432.56	420.63	11.93	36.262	
1,700.00	1,689.43	1,664.95	1,659.92	6.13	5.76	154.57	-258.24	-160.86	450.99	438.59	12.41	36.346	
1,800.00	1,788.59	1,763.24	1,757.82	6.41	6.01	154.56	-266.84	-161.73	469.43	456.53	12.90	36.394	
1,900.00	1,887.75	1,861.52	1,855.73	6.70	6.19	154.55	-275.45	-162.60	487.86	474.91	12.94	37.692	
2,000.00	1,986.90	1,959.81	1,953.63	7.00	6.26	154.55	-284.06	-163.46	506.29	493.02	13.26	38.173	
2,100.00	2,086.06	2,058.10	2,051.54	7.30	6.29	154.54	-292.67	-164.33	524.72	511.17	13.55	38.718	
2,200.00	2,185.21	2,156.38	2,149.44	7.60	6.33	154.54	-301.28	-165.20	543.15	529.29	13.86	39.194	
2,300.00	2,284.37	2,254.67	2,247.35	7.90	6.39	154.53	-309.88	-166.07	561.58	547.40	14.18	39.605	
2,400.00	2,383.52	2,352.96	2,345.25	8.21	6.46	154.53	-318.49	-166.93	580.01	565.50	14.52	39.955	
2,500.00	2,482.68	2,451.24	2,443.16	8.52	6.54	154.52	-327.10	-167.80	598.44	583.58	14.87	40.250	
2,600.00	2,581.84	2,549.53	2,541.06	8.83	6.63	154.52	-335.71	-168.67	616.87	601.64	15.23	40.494	
2,700.00	2,680.99	2,647.82	2,638.97	9.14	6.74	154.51	-344.32	-169.53	635.31	619.69	15.61	40.692	
2,800.00	2,780.15	2,746.11	2,736.88	9.45	6.86	154.51	-352.92	-170.40	653.74	637.73	16.00	40.848	
2,900.00	2,879.30	2,844.39	2,834.78	9.77	6.98	154.51	-361.53	-171.27	672.17	655.76	16.41	40.967	
3,000.00	2,978.46	2,942.68	2,932.69	10.09	7.12	154.50	-370.14	-172.13	690.60	673.78	16.82	41.053	
3,100.00	3,077.62	3,040.97	3,030.59	10.41	7.27	154.50	-378.75	-173.00	709.03	691.78	17.25	41.109	
3,200.00	3,176.77	3,139.25	3,128.50	10.73	7.42	154.50	-387.36	-173.87	727.46	709.78	17.68	41.140	
3,300.00	3,275.93	3,237.54	3,226.40	11.05	7.59	154.49	-395.97	-174.73	745.89	727.77	18.13	41.148	
3,400.00	3,375.08	3,335.83	3,324.31	11.37	7.76	154.49	-404.57	-175.60	764.32	745.74	18.58	41.136	
3,500.00	3,474.24	3,434.11	3,422.21	11.69	7.94	154.49	-413.18	-176.47	782.76	763.71	19.04	41.108	
3,600.00	3,573.39	3,532.40	3,520.12	12.01	8.12	154.48	-421.79	-177.33	801.19	781.68	19.51	41.064	
3,700.00	3,672.55	3,630.69	3,618.02	12.34	8.32	154.48	-430.40	-178.20	819.62	799.63	19.99	41.009	
3,800.00	3,771.71	3,728.97	3,715.93	12.66	8.51	154.48	-439.01	-179.07	838.05	817.58	20.47	40.942	
3,900.00	3,870.86	3,827.26	3,813.83	12.99	8.72	154.48	-447.61	-179.93	856.48	835.52	20.96	40.867	
4,000.00	3,970.02	3,925.55	3,911.74	13.31	8.93	154.47	-456.22	-180.80	874.91	853.46	21.45	40.784	
4,100.00	4,069.17	4,023.83	4,009.64	13.64	9.14	154.47	-464.83	-181.67	893.34	871.39	21.95	40.695	
4,200.00	4,168.33	4,122.12	4,107.55	13.97	9.36	154.47	-473.44	-182.54	911.77	889.32	22.46	40.602	
4,300.00	4,267.49	4,220.41	4,205.45	14.29	9.58	154.47	-482.05	-183.40	930.20	907.24	22.97	40.504	
4,400.00	4,366.64	4,318.69	4,303.36	14.62	9.80	154.47	-490.66	-184.27	948.64	925.16	23.48	40.402	
4,500.00	4,465.80	4,416.98	4,401.26	14.95	10.03	154.47	-499.26	-185.14	967.07	943.07	24.00	40.299	
4,600.00	4,564.95	4,515.27	4,499.17	15.28	10.27	154.46	-507.87	-186.00	985.50	960.98	24.52	40.193	
4,700.00	4,664.11	4,613.55	4,597.08	15.61	10.50	154.46	-516.48	-186.87	1,003.93	978.88	25.04	40.086	
4,800.00	4,763.26	4,711.84	4,694.98	15.94	10.74	154.46	-525.09	-187.74	1,022.36	996.79	25.57	39.979	
4,900.00	4,862.42	4,810.13	4,792.89	16.27	10.98	154.46	-533.70	-188.60	1,040.79	1,014.69	26.10	39.871	
5,000.00	4,961.58	4,908.41	4,890.79	16.60	11.23	154.46	-542.30	-189.47	1,059.22	1,032.58	26.64	39.763	
5,100.00	5,060.73	5,006.70	4,988.70	16.93	11.47	154.46	-550.91	-190.34	1,077.65	1,050.48	27.18	39.655	



# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	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	5,159.89	5,104.99	5,086.60	17.26	11.72	154.45	-559.52	-191.20	1,096.09	1,068.37	27.72	39.548	
5,300.00	5,259.04	5,203.27	5,184.51	17.59	11.97	154.45	-568.13	-192.07	1,114.52	1,086.26	28.26	39.442	
5,400.00	5,358.20	5,301.56	5,282.41	17.92	12.23	154.45	-576.74	-192.94	1,132.95	1,104.15	28.80	39.336	
5,500.00	5,457.36	5,400.15	5,380.32	18.25	12.48	154.45	-585.35	-193.80	1,151.38	1,122.03	29.35	39.231	
5,600.00	5,556.51	5,501.87	5,478.22	18.58	12.75	154.45	-593.95	-194.67	1,169.81	1,139.90	29.91	39.116	
5,700.00	5,655.67	5,603.58	5,576.13	18.91	13.01	154.45	-602.56	-195.54	1,188.24	1,157.78	30.47	39.003	
6,700.03	6,647.26	7,948.65	7,234.57	22.24	22.06	113.98	-762.99	755.61	1,189.00	1,148.17	40.84	29.116	
6,800.00	6,746.93	7,953.16	7,234.58	22.46	22.11	-141.74	-763.06	760.12	1,147.14	1,105.14	42.00	27.312	
6,900.00	6,846.10	7,942.01	7,234.56	22.61	21.98	-105.69	-762.89	748.97	1,112.63	1,069.75	42.88	25.947	
7,000.00	6,942.28	7,915.47	7,234.51	22.73	21.69	-101.11	-762.49	722.43	1,086.60	1,043.15	43.44	25.013	
7,100.00	7,033.11	7,874.19	7,234.44	22.85	21.25	-98.54	-761.86	681.16	1,069.21	1,025.53	43.68	24.478	
7,200.00	7,116.36	7,819.19	7,234.34	23.01	20.69	-95.84	-761.01	626.17	1,059.69	1,016.04	43.64	24.282	
7,300.00	7,189.97	7,751.83	7,234.23	23.26	20.04	-92.81	-759.99	558.81	1,056.45	1,013.00	43.44	24.317	
7,318.64	7,202.47	7,738.03	7,234.20	23.34	19.91	-92.22	-759.77	545.02	1,056.38	1,012.96	43.41	24.332	
7,400.00	7,252.13	7,673.75	7,234.09	23.68	19.33	-89.68	-758.79	480.74	1,057.45	1,014.22	43.23	24.463	
7,500.00	7,301.31	7,585.47	7,232.84	24.34	18.63	-86.75	-757.35	392.50	1,060.50	1,017.36	43.14	24.580	
7,600.00	7,336.30	7,497.11	7,221.42	25.28	18.04	-84.05	-755.02	304.98	1,063.91	1,020.56	43.35	24.542	
7,700.00	7,356.23	7,413.75	7,199.69	26.48	17.62	-81.67	-751.89	224.63	1,067.22	1,023.33	43.89	24.315	
7,800.00	7,361.08	7,334.51	7,169.51	27.71	17.35	-79.63	-748.12	151.51	1,070.19	1,025.67	44.52	24.041 SF	
7,900.00	7,361.38	7,262.74	7,134.54	27.76	17.17	-77.75	-744.10	89.01	1,075.23	1,031.17	44.05	24.408	
8,000.00	7,361.69	7,200.00	7,098.40	27.91	17.04	-75.82	-740.14	37.91	1,084.25	1,040.52	43.73	24.793	
8,100.00	7,362.00	7,150.00	7,066.11	28.16	16.93	-74.11	-736.72	-0.10	1,098.15	1,054.58	43.57	25.203	
8,200.00	7,362.31	7,100.00	7,030.95	28.51	16.83	-72.28	-733.09	-35.44	1,117.53	1,074.05	43.48	25.702	
8,300.00	7,362.61	7,058.71	6,999.91	28.95	16.74	-70.68	-729.95	-62.47	1,142.78	1,099.27	43.51	26.266	
8,400.00	7,362.92	7,023.87	6,972.39	29.47	16.67	-69.28	-727.21	-83.66	1,174.01	1,130.39	43.62	26.915	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-80.14	0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-80.14	0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-80.14	0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	299.10	299.08	3.35	3.35	108.94	-80.68	2.19	81.26	73.60	7.66	10.611	
400.00	399.84	398.13	397.98	3.42	3.41	108.90	-82.28	7.06	84.61	76.83	7.78	10.870	
500.00	499.45	497.02	496.49	3.51	3.50	108.83	-84.95	15.17	90.19	82.23	7.96	11.331	
600.00	598.72	603.99	594.77	3.63	3.62	108.81	-88.63	26.37	97.90	89.70	8.20	11.933	
700.00	697.87	704.33	693.62	3.77	3.77	108.91	-92.59	38.43	106.17	97.67	8.49	12.498	
800.00	797.03	804.67	792.46	3.94	3.94	108.99	-96.56	50.49	114.44	105.61	8.83	12.958	
900.00	896.19	905.02	891.31	4.13	4.13	109.07	-100.53	62.56	122.71	113.50	9.21	13.325	
1,000.00	995.34	1,005.36	990.15	4.34	4.35	109.14	-104.49	74.62	130.97	121.35	9.62	13.613	
1,100.00	1,094.50	1,105.70	1,089.00	4.56	4.57	109.19	-108.46	86.68	139.24	129.18	10.06	13.835	
1,200.00	1,193.65	1,206.04	1,187.84	4.80	4.82	109.25	-112.42	98.74	147.51	136.98	10.53	14.004	
1,300.00	1,292.81	1,306.39	1,286.69	5.05	5.07	109.29	-116.39	110.81	155.78	144.75	11.03	14.129	
1,400.00	1,391.97	1,406.73	1,385.53	5.31	5.33	109.33	-120.35	122.87	164.05	152.51	11.54	14.219	
1,500.00	1,491.12	1,507.07	1,484.38	5.57	5.60	109.37	-124.32	134.93	172.32	160.25	12.07	14.282	
1,600.00	1,590.28	1,607.41	1,583.22	5.85	5.88	109.41	-128.29	146.99	180.59	167.98	12.61	14.323	
1,700.00	1,689.43	1,707.76	1,682.07	6.13	6.17	109.44	-132.25	159.05	188.86	175.69	13.16	14.347	
1,800.00	1,788.59	1,808.10	1,780.91	6.41	6.45	109.47	-136.22	171.12	197.12	183.41	13.72	14.369	
1,900.00	1,887.75	1,908.44	1,879.76	6.70	6.59	109.49	-140.18	183.18	205.39	191.63	13.77	14.918	
2,000.00	1,986.90	2,008.78	1,978.61	7.00	6.62	109.52	-144.15	195.24	213.66	199.57	14.09	15.166	
2,100.00	2,086.06	2,109.13	2,077.45	7.30	6.67	109.54	-148.12	207.30	221.93	207.50	14.43	15.382	
2,200.00	2,185.21	2,209.47	2,176.30	7.60	6.73	109.56	-152.08	219.36	230.20	215.42	14.78	15.571	
2,300.00	2,284.37	2,309.81	2,275.14	7.90	6.80	109.58	-156.05	231.43	238.47	223.31	15.16	15.733	
2,400.00	2,383.52	2,389.85	2,373.99	8.21	6.87	109.60	-160.01	243.49	246.74	231.21	15.53	15.890	
2,500.00	2,482.68	2,489.50	2,472.83	8.52	6.97	109.61	-163.98	255.55	255.01	239.08	15.93	16.008	
2,600.00	2,581.84	2,589.16	2,571.68	8.83	7.08	109.63	-167.94	267.61	263.28	246.93	16.35	16.107	
2,700.00	2,680.99	2,688.82	2,670.52	9.14	7.20	109.64	-171.91	279.68	271.55	254.77	16.77	16.188	
2,800.00	2,780.15	2,788.48	2,769.37	9.45	7.34	109.66	-175.88	291.74	279.82	262.60	17.22	16.252	
2,900.00	2,879.30	2,888.13	2,868.21	9.77	7.48	109.67	-179.84	303.80	288.09	270.41	17.67	16.302	
3,000.00	2,978.46	2,987.79	2,967.06	10.09	7.64	109.68	-183.81	315.86	296.36	278.22	18.14	16.340	
3,100.00	3,077.62	3,087.45	3,065.90	10.41	7.80	109.70	-187.77	327.92	304.62	286.01	18.61	16.366	
3,200.00	3,176.77	3,187.11	3,164.75	10.73	7.97	109.71	-191.74	339.99	312.89	293.79	19.10	16.382	
3,300.00	3,275.93	3,286.76	3,263.59	11.05	8.16	109.72	-195.71	352.05	321.16	301.57	19.60	16.390	
3,400.00	3,375.08	3,386.42	3,362.44	11.37	8.35	109.73	-199.67	364.11	329.43	309.33	20.10	16.390	
3,500.00	3,474.24	3,486.08	3,461.28	11.69	8.54	109.74	-203.64	376.17	337.70	317.09	20.61	16.383	
3,600.00	3,573.39	3,585.74	3,560.13	12.01	8.75	109.75	-207.60	388.24	345.97	324.84	21.13	16.371	
3,700.00	3,672.55	3,685.39	3,658.97	12.34	8.96	109.75	-211.57	400.30	354.24	332.58	21.66	16.355	
3,800.00	3,771.71	3,785.05	3,757.82	12.66	9.17	109.76	-215.53	412.36	362.51	340.32	22.19	16.334	
3,900.00	3,870.86	3,884.71	3,856.67	12.99	9.40	109.77	-219.50	424.42	370.78	348.05	22.73	16.310	
4,000.00	3,970.02	3,984.37	3,955.51	13.31	9.62	109.78	-223.47	436.48	379.05	355.77	23.28	16.283	
4,100.00	4,069.17	4,084.02	4,054.36	13.64	9.85	109.79	-227.43	448.55	387.32	363.49	23.83	16.254	
4,200.00	4,168.33	4,183.68	4,153.20	13.97	10.09	109.79	-231.40	460.61	395.59	371.20	24.39	16.222	
4,300.00	4,267.49	4,283.34	4,252.05	14.29	10.33	109.80	-235.36	472.67	403.86	378.91	24.95	16.189	
4,400.00	4,366.64	4,383.00	4,350.89	14.62	10.58	109.81	-239.33	484.73	412.13	386.62	25.51	16.155	
4,500.00	4,465.80	4,482.65	4,449.74	14.95	10.82	109.81	-243.30	496.80	420.40	394.32	26.08	16.120	
4,600.00	4,564.95	4,582.31	4,548.58	15.28	11.08	109.82	-247.26	508.86	428.67	402.02	26.65	16.084	
4,700.00	4,664.11	4,681.97	4,647.43	15.61	11.33	109.82	-251.23	520.92	436.94	409.71	27.23	16.048	
4,800.00	4,763.26	4,781.63	4,746.27	15.94	11.59	109.83	-255.19	532.98	445.21	417.40	27.81	16.011	
4,900.00	4,862.42	4,881.28	4,845.12	16.27	11.85	109.83	-259.16	545.04	453.48	425.09	28.39	15.974	
5,000.00	4,961.58	4,980.94	4,943.96	16.60	12.11	109.84	-263.13	557.11	461.75	432.77	28.97	15.937	
5,100.00	5,060.73	5,080.60	5,042.81	16.93	12.38	109.84	-267.09	569.17	470.01	440.45	29.56	15.900	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,159.89	5,180.25	5,141.65	17.26	12.64	109.85	-271.06	581.23	478.28	448.13	30.15	15.863		
5,300.00	5,259.04	5,279.91	5,240.50	17.59	12.91	109.85	-275.02	593.29	486.55	455.81	30.74	15.826		
5,400.00	5,358.20	5,379.57	5,339.34	17.92	13.18	109.86	-278.99	605.36	494.82	463.49	31.34	15.790		
5,500.00	5,457.36	5,479.23	5,438.19	18.25	13.46	109.86	-282.95	617.42	503.09	471.16	31.93	15.754		
5,600.00	5,556.51	5,578.88	5,537.04	18.58	13.73	109.87	-286.92	629.48	511.36	478.83	32.53	15.718		
5,700.00	5,655.67	5,678.54	5,635.88	18.91	14.01	109.87	-290.89	641.54	519.63	486.50	33.13	15.683		
5,800.00	5,754.82	5,778.20	5,734.73	19.24	14.29	109.87	-294.85	653.60	527.90	494.17	33.74	15.648		
5,900.00	5,853.98	5,877.86	5,833.57	19.58	14.57	109.88	-298.82	665.67	536.17	501.83	34.34	15.614		
6,000.00	5,953.13	5,977.51	5,932.42	19.91	14.85	109.88	-302.78	677.73	544.44	509.49	34.95	15.580		
6,100.00	6,052.29	6,077.17	6,031.26	20.24	15.13	109.88	-306.75	689.79	552.71	517.16	35.55	15.546		
6,200.00	6,151.45	6,176.83	6,130.11	20.57	15.42	109.89	-310.72	701.85	560.98	524.82	36.16	15.513		
6,300.00	6,250.60	6,276.49	6,228.95	20.90	15.70	109.89	-314.68	713.92	569.25	532.48	36.77	15.481		
6,400.00	6,349.76	6,376.14	6,327.80	21.24	15.99	109.89	-318.65	725.98	577.52	540.14	37.38	15.449		
6,500.00	6,448.91	6,475.80	6,426.64	21.57	16.28	109.90	-322.61	738.04	585.79	547.79	37.99	15.418		
6,600.00	6,548.07	6,575.46	6,525.49	21.90	16.56	109.90	-326.58	750.10	594.06	555.45	38.61	15.387		
6,700.03	6,647.26	6,675.15	6,624.36	22.24	16.85	109.90	-330.55	762.17	602.33	563.11	39.22	15.357		
6,800.00	6,746.93	6,773.92	6,722.68	22.46	17.08	-141.02	-334.48	770.06	610.60	570.93	39.67	15.392		
6,900.00	6,846.10	6,872.99	6,821.33	22.61	17.22	-101.92	-338.39	763.16	618.85	578.89	39.96	15.488		
7,000.00	6,942.28	6,972.77	6,918.40	22.73	17.31	-95.98	-342.21	740.84	626.89	586.72	40.17	15.606		
7,100.00	7,033.11	7,073.31	7,011.47	22.85	17.36	-93.57	-345.82	703.29	634.51	594.17	40.34	15.729		
7,200.00	7,116.36	7,174.61	7,098.11	23.01	17.39	-92.24	-349.15	651.11	641.53	601.00	40.53	15.828		
7,300.00	7,189.97	7,276.68	7,175.94	23.26	17.40	-91.40	-352.09	585.31	647.78	606.95	40.83	15.866		
7,400.00	7,252.13	7,379.48	7,242.71	23.68	17.44	-90.85	-354.56	507.33	653.08	611.74	41.34	15.799		
7,500.00	7,301.31	7,482.94	7,296.38	24.34	17.52	-90.50	-356.49	419.03	657.30	615.15	42.16	15.592		
7,600.00	7,336.30	7,586.97	7,335.24	25.28	17.70	-90.30	-357.80	322.66	660.33	616.98	43.35	15.232		
7,700.00	7,356.23	7,691.44	7,357.97	26.48	17.99	-90.23	-358.46	220.82	662.09	617.16	44.93	14.736		
7,800.00	7,361.08	7,804.62	7,364.02	27.71	18.46	-90.25	-358.46	117.16	662.55	615.85	46.70	14.188		
7,900.00	7,361.38	7,904.62	7,364.15	27.76	19.03	-90.24	-358.22	17.16	662.58	615.24	47.35	13.994		
8,000.00	7,361.69	8,004.62	7,364.28	27.91	19.74	-90.22	-357.99	-82.84	662.62	614.40	48.22	13.741		
8,100.00	7,362.00	8,104.62	7,364.40	28.16	20.56	-90.21	-357.75	-182.84	662.65	613.35	49.30	13.440		
8,200.00	7,362.31	8,204.62	7,364.53	28.51	21.49	-90.19	-357.51	-282.84	662.68	612.10	50.58	13.102		
8,300.00	7,362.61	8,304.62	7,364.66	28.95	22.51	-90.18	-357.28	-382.84	662.72	610.68	52.04	12.736		
8,400.00	7,362.92	8,404.62	7,364.79	29.47	23.60	-90.16	-357.04	-482.84	662.75	609.10	53.65	12.352		
8,500.00	7,363.23	8,504.62	7,364.92	30.09	24.76	-90.15	-356.81	-582.84	662.79	607.36	55.42	11.959		
8,600.00	7,363.53	8,604.62	7,365.04	30.78	25.97	-90.13	-356.57	-682.84	662.82	605.50	57.32	11.563		
8,700.00	7,363.84	8,704.62	7,365.17	31.54	27.23	-90.12	-356.34	-782.84	662.85	603.50	59.35	11.169		
8,800.00	7,364.15	8,804.62	7,365.30	32.37	28.54	-90.10	-356.10	-882.84	662.89	601.40	61.48	10.781		
8,900.00	7,364.46	8,904.62	7,365.43	33.27	29.88	-90.08	-355.87	-982.84	662.92	599.20	63.72	10.404		
9,000.00	7,364.76	9,004.62	7,365.56	34.22	31.25	-90.07	-355.63	-1,082.84	662.95	596.91	66.05	10.038		
9,100.00	7,365.07	9,104.62	7,365.69	35.23	32.65	-90.05	-355.40	-1,182.84	662.99	594.54	68.45	9.685		
9,200.00	7,365.38	9,204.62	7,365.81	36.29	34.08	-90.04	-355.16	-1,282.84	663.02	592.09	70.93	9.347		
9,300.00	7,365.68	9,304.63	7,365.94	37.39	35.52	-90.02	-354.93	-1,382.84	663.06	589.57	73.48	9.024		
9,400.00	7,365.99	9,404.63	7,366.07	38.53	36.99	-90.01	-354.69	-1,482.83	663.09	587.00	76.09	8.715		
9,500.00	7,366.30	9,504.63	7,366.20	39.71	38.47	-89.99	-354.46	-1,582.83	663.12	584.37	78.75	8.421		
9,600.00	7,366.60	9,604.63	7,366.33	40.92	39.97	-89.98	-354.22	-1,682.83	663.16	581.70	81.46	8.141		
9,700.00	7,366.91	9,704.63	7,366.45	42.17	41.48	-89.96	-353.99	-1,782.83	663.19	578.97	84.22	7.875		
9,800.00	7,367.22	9,804.63	7,366.58	43.44	43.00	-89.95	-353.75	-1,882.83	663.23	576.21	87.01	7.622		
9,900.00	7,367.53	9,904.63	7,366.71	44.74	44.54	-89.93	-353.52	-1,982.83	663.26	573.41	89.85	7.382		
10,000.00	7,367.83	10,004.63	7,366.84	46.07	46.08	-89.91	-353.28	-2,082.83	663.29	570.58	92.72	7.154		
10,100.00	7,368.14	10,104.63	7,366.97	47.41	47.63	-89.90	-353.05	-2,182.83	663.33	567.72	95.61	6.938		
10,200.00	7,368.45	10,204.63	7,367.10	48.78	49.19	-89.88	-352.81	-2,282.83	663.36	564.82	98.54	6.732		
10,300.00	7,368.75	10,304.63	7,367.22	50.17	50.76	-89.87	-352.58	-2,382.83	663.40	561.91	101.49	6.537		

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,400.00	7,369.06	10,404.63	7,367.35	51.57	52.33	-89.85	-352.34	-2,482.83	663.43	558.97	104.47	6.351	
10,500.00	7,369.37	10,504.63	7,367.48	52.99	53.91	-89.84	-352.11	-2,582.83	663.47	556.00	107.46	6.174	
10,600.00	7,369.68	10,604.63	7,367.61	54.42	55.49	-89.82	-351.87	-2,682.83	663.50	553.02	110.48	6.006	
10,700.00	7,369.98	10,704.63	7,367.74	55.86	57.08	-89.81	-351.64	-2,782.83	663.54	550.02	113.51	5.845	
10,800.00	7,370.29	10,804.63	7,367.86	57.32	58.68	-89.79	-351.40	-2,882.83	663.57	547.01	116.57	5.693	
10,900.00	7,370.60	10,904.63	7,367.99	58.79	60.28	-89.78	-351.17	-2,982.83	663.61	543.97	119.63	5.547	
11,000.00	7,370.90	11,004.63	7,368.12	60.27	61.88	-89.76	-350.93	-3,082.83	663.64	540.93	122.71	5.408	
11,100.00	7,371.21	11,104.63	7,368.25	61.76	63.48	-89.74	-350.70	-3,182.83	663.68	537.87	125.81	5.275	
11,200.00	7,371.52	11,204.63	7,368.38	63.26	65.09	-89.73	-350.46	-3,282.83	663.71	534.79	128.92	5.148	
11,300.00	7,371.82	11,304.63	7,368.50	64.76	66.70	-89.71	-350.22	-3,382.82	663.75	531.71	132.04	5.027	
11,400.00	7,372.13	11,404.63	7,368.63	66.28	68.32	-89.70	-349.99	-3,482.82	663.78	528.61	135.17	4.911	
11,500.00	7,372.44	11,504.63	7,368.76	67.80	69.94	-89.68	-349.75	-3,582.82	663.82	525.51	138.31	4.800	
11,600.00	7,372.75	11,604.63	7,368.89	69.33	71.56	-89.67	-349.52	-3,682.82	663.85	522.39	141.46	4.693	
11,700.00	7,373.05	11,704.63	7,369.02	70.87	73.18	-89.65	-349.28	-3,782.82	663.89	519.27	144.61	4.591	
11,800.00	7,373.36	11,804.63	7,369.15	72.41	74.80	-89.64	-349.05	-3,882.82	663.92	516.14	147.78	4.493	
11,900.00	7,373.67	11,904.63	7,369.27	73.96	76.43	-89.62	-348.81	-3,982.82	663.96	513.00	150.95	4.398	
12,000.00	7,373.97	12,004.63	7,369.40	75.51	78.06	-89.61	-348.58	-4,082.82	663.99	509.86	154.13	4.308	
12,100.00	7,374.28	12,104.63	7,369.53	77.07	79.69	-89.59	-348.34	-4,182.82	664.03	506.70	157.32	4.221	
12,200.00	7,374.59	12,204.63	7,369.66	78.63	81.32	-89.57	-348.11	-4,282.82	664.06	503.55	160.52	4.137	
12,300.00	7,374.90	12,304.63	7,369.79	80.20	82.96	-89.56	-347.87	-4,382.82	664.10	500.38	163.72	4.056	
12,400.00	7,375.20	12,404.63	7,369.91	81.77	84.59	-89.54	-347.64	-4,482.82	664.13	497.21	166.92	3.979	
12,500.00	7,375.51	12,504.63	7,370.04	83.34	86.23	-89.53	-347.40	-4,582.82	664.17	494.04	170.13	3.904	
12,600.00	7,375.82	12,604.63	7,370.17	84.92	87.87	-89.51	-347.17	-4,682.82	664.20	490.85	173.35	3.832	
12,700.00	7,376.12	12,704.63	7,370.30	86.50	89.51	-89.50	-346.93	-4,782.82	664.24	487.67	176.57	3.762	
12,800.00	7,376.43	12,804.63	7,370.43	88.09	91.15	-89.48	-346.70	-4,882.82	664.27	484.48	179.79	3.695	
12,900.00	7,376.74	12,904.63	7,370.56	89.68	92.79	-89.47	-346.46	-4,982.82	664.31	481.29	183.02	3.630	
13,000.00	7,377.04	13,004.63	7,370.68	91.27	94.43	-89.45	-346.23	-5,082.82	664.35	478.09	186.26	3.567	
13,100.00	7,377.35	13,104.63	7,370.81	92.86	96.07	-89.44	-345.99	-5,182.82	664.38	474.89	189.49	3.506	
13,200.00	7,377.66	13,204.63	7,370.94	94.46	97.72	-89.42	-345.76	-5,282.81	664.42	471.68	192.74	3.447	
13,300.00	7,377.97	13,304.63	7,371.07	96.06	99.36	-89.41	-345.52	-5,382.81	664.45	468.47	195.98	3.390	
13,400.00	7,378.27	13,404.63	7,371.20	97.66	101.01	-89.39	-345.29	-5,482.81	664.49	465.26	199.23	3.335	
13,500.00	7,378.58	13,504.63	7,371.32	99.27	102.66	-89.37	-345.05	-5,582.81	664.53	462.05	202.48	3.282	
13,600.00	7,378.89	13,604.63	7,371.45	100.87	104.30	-89.36	-344.82	-5,682.81	664.56	458.83	205.73	3.230	
13,700.00	7,379.19	13,704.63	7,371.58	102.48	105.95	-89.34	-344.58	-5,782.81	664.60	455.61	208.99	3.180	
13,800.00	7,379.50	13,804.63	7,371.71	104.09	107.60	-89.33	-344.35	-5,882.81	664.63	452.39	212.25	3.131	
13,900.00	7,379.81	13,904.63	7,371.84	105.71	109.25	-89.31	-344.11	-5,982.81	664.67	449.16	215.51	3.084	
14,000.00	7,380.12	14,004.63	7,371.97	107.32	110.90	-89.30	-343.88	-6,082.81	664.71	445.93	218.77	3.038	
14,100.00	7,380.42	14,104.63	7,372.09	108.94	112.55	-89.28	-343.64	-6,182.81	664.74	442.70	222.04	2.994	
14,200.00	7,380.73	14,204.63	7,372.22	110.55	114.21	-89.27	-343.41	-6,282.81	664.78	439.47	225.31	2.951	
14,300.00	7,381.04	14,304.63	7,372.35	112.17	115.86	-89.25	-343.17	-6,382.81	664.82	436.24	228.58	2.908	
14,400.00	7,381.34	14,404.63	7,372.48	113.79	117.51	-89.24	-342.93	-6,482.81	664.85	433.00	231.85	2.868	
14,500.00	7,381.65	14,504.63	7,372.61	115.42	119.17	-89.22	-342.70	-6,582.81	664.89	429.76	235.13	2.828	
14,600.00	7,381.96	14,604.63	7,372.73	117.04	120.82	-89.21	-342.46	-6,682.81	664.92	426.52	238.40	2.789	
14,700.00	7,382.27	14,704.63	7,372.86	118.66	122.47	-89.19	-342.23	-6,782.81	664.96	423.28	241.68	2.751	
14,800.00	7,382.57	14,804.63	7,372.99	120.29	124.13	-89.17	-341.99	-6,882.81	665.00	420.04	244.96	2.715	
14,900.00	7,382.88	14,904.63	7,373.12	121.92	125.79	-89.16	-341.76	-6,982.81	665.03	416.79	248.24	2.679	
15,000.00	7,383.19	15,004.63	7,373.25	123.55	127.44	-89.14	-341.52	-7,082.81	665.07	413.55	251.52	2.644	
15,100.00	7,383.49	15,104.63	7,373.37	125.18	129.10	-89.13	-341.29	-7,182.80	665.11	410.30	254.81	2.610	
15,200.00	7,383.80	15,204.64	7,373.50	126.81	130.75	-89.11	-341.05	-7,282.80	665.15	407.05	258.10	2.577	
15,300.00	7,384.11	15,304.64	7,373.63	128.44	132.41	-89.10	-340.82	-7,382.80	665.18	403.80	261.38	2.545	
15,400.00	7,384.41	15,404.64	7,373.76	130.07	134.07	-89.08	-340.58	-7,482.80	665.22	400.55	264.67	2.513	
15,500.00	7,384.72	15,495.37	7,373.89	131.71	135.57	-89.07	-340.35	-7,582.80	665.26	397.45	267.81	2.484	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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 4C-30-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,590.73	7,385.00	15,586.09	7,374.00	133.19	137.08	-89.05	-340.13	-7,673.53	665.29	394.50	270.79	2.457 SF	

# Hewlett-Packard

## Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-100.17	0.56	100.17				
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-100.17	0.56	100.17	92.65	7.53	13.305	
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-100.17	0.56	100.17	92.60	7.57	13.226	CC, ES
300.00	299.98	298.79	298.77	3.35	3.35	109.03	-100.76	2.16	101.34	93.68	7.66	13.233	
400.00	399.84	397.49	397.34	3.42	3.41	109.02	-102.50	6.95	104.84	97.06	7.78	13.470	
500.00	499.45	496.04	495.52	3.51	3.49	108.99	-105.40	14.92	110.67	102.71	7.96	13.905	
600.00	598.72	594.42	593.18	3.63	3.61	108.94	-109.44	26.03	118.77	110.58	8.19	14.500	
700.00	697.87	705.98	691.86	3.77	3.77	108.73	-114.07	38.73	127.70	119.20	8.50	15.027	
800.00	797.03	806.38	790.54	3.94	3.95	108.54	-118.69	51.43	136.63	127.80	8.84	15.461	
900.00	896.19	906.78	889.21	4.13	4.15	108.37	-123.31	64.13	145.57	136.35	9.22	15.792	
1,000.00	995.34	1,007.18	987.89	4.34	4.37	108.22	-127.94	76.84	154.50	144.87	9.63	16.036	
1,100.00	1,094.50	1,107.58	1,086.57	4.56	4.60	108.09	-132.56	89.54	163.44	153.36	10.08	16.210	
1,200.00	1,193.65	1,192.02	1,185.25	4.80	4.81	107.98	-137.18	102.24	172.38	161.86	10.52	16.389	
1,300.00	1,292.81	1,308.38	1,283.92	5.05	5.11	107.87	-141.81	114.94	181.32	170.26	11.05	16.403	
1,400.00	1,391.97	1,391.22	1,382.60	5.31	5.34	107.77	-146.43	127.64	190.26	178.73	11.52	16.509	
1,500.00	1,491.12	1,490.82	1,481.28	5.57	5.61	107.69	-151.05	140.35	199.20	187.14	12.05	16.525	
1,600.00	1,590.28	1,609.58	1,579.96	5.85	5.95	107.61	-155.68	153.05	208.14	195.48	12.65	16.450	
1,700.00	1,689.43	1,709.98	1,678.64	6.13	6.25	107.53	-160.30	165.75	217.08	203.86	13.21	16.428	
1,800.00	1,788.59	1,789.62	1,777.31	6.41	6.48	107.47	-164.92	178.45	226.02	212.29	13.73	16.467	
1,900.00	1,887.75	1,889.21	1,875.99	6.70	6.66	107.40	-169.54	191.15	234.96	221.16	13.80	17.025	
2,000.00	1,986.90	1,988.81	1,974.67	7.00	6.70	107.35	-174.17	203.86	243.90	229.76	14.13	17.256	
2,100.00	2,086.06	2,088.41	2,073.35	7.30	6.75	107.29	-178.79	216.56	252.84	238.37	14.47	17.472	
2,200.00	2,185.21	2,188.01	2,172.02	7.60	6.80	107.24	-183.41	229.26	261.78	246.96	14.83	17.657	
2,300.00	2,284.37	2,287.61	2,270.70	7.90	6.88	107.20	-188.04	241.96	270.72	255.53	15.20	17.814	
2,400.00	2,383.52	2,387.21	2,369.38	8.21	6.97	107.15	-192.66	254.66	279.67	264.08	15.59	17.944	
2,500.00	2,482.68	2,486.81	2,468.06	8.52	7.07	107.11	-197.28	267.37	288.61	272.62	15.99	18.051	
2,600.00	2,581.84	2,586.41	2,566.73	8.83	7.18	107.07	-201.91	280.07	297.55	281.14	16.41	18.137	
2,700.00	2,680.99	2,686.01	2,665.41	9.14	7.30	107.04	-206.53	292.77	306.49	289.66	16.84	18.203	
2,800.00	2,780.15	2,785.61	2,764.09	9.45	7.44	107.00	-211.15	305.47	315.44	298.15	17.28	18.252	
2,900.00	2,879.30	2,885.21	2,862.77	9.77	7.59	106.97	-215.78	318.17	324.38	306.64	17.74	18.287	
3,000.00	2,978.46	2,984.81	2,961.44	10.09	7.75	106.94	-220.40	330.88	333.32	315.11	18.21	18.308	
3,100.00	3,077.62	3,084.40	3,060.12	10.41	7.92	106.91	-225.02	343.58	342.26	323.58	18.69	18.317	
3,200.00	3,176.77	3,184.00	3,158.80	10.73	8.09	106.88	-229.65	356.28	351.21	332.03	19.17	18.316	
3,300.00	3,275.93	3,283.60	3,257.48	11.05	8.28	106.86	-234.27	368.98	360.15	340.48	19.67	18.307	
3,400.00	3,375.08	3,383.20	3,356.16	11.37	8.47	106.83	-238.89	381.68	369.09	348.91	20.18	18.290	
3,500.00	3,474.24	3,482.80	3,454.83	11.69	8.67	106.81	-243.51	394.39	378.04	357.34	20.70	18.266	
3,600.00	3,573.39	3,582.40	3,553.51	12.01	8.88	106.79	-248.14	407.09	386.98	365.76	21.22	18.237	
3,700.00	3,672.55	3,682.00	3,652.19	12.34	9.10	106.76	-252.76	419.79	395.92	374.17	21.75	18.204	
3,800.00	3,771.71	3,781.60	3,750.87	12.66	9.32	106.74	-257.38	432.49	404.86	382.58	22.29	18.167	
3,900.00	3,870.86	3,881.20	3,849.54	12.99	9.54	106.72	-262.01	445.19	413.81	390.98	22.83	18.127	
4,000.00	3,970.02	3,980.80	3,948.22	13.31	9.78	106.71	-266.63	457.90	422.75	399.37	23.38	18.084	
4,100.00	4,069.17	4,080.40	4,046.90	13.64	10.01	106.69	-271.25	470.60	431.69	407.76	23.93	18.039	
4,200.00	4,168.33	4,180.00	4,145.58	13.97	10.25	106.67	-275.88	483.30	440.64	416.15	24.49	17.992	
4,300.00	4,267.49	4,279.59	4,244.25	14.29	10.50	106.65	-280.50	496.00	449.58	424.53	25.05	17.945	
4,400.00	4,366.64	4,379.19	4,342.93	14.62	10.75	106.64	-285.12	508.70	458.52	432.90	25.62	17.896	
4,500.00	4,465.80	4,478.79	4,441.61	14.95	11.00	106.62	-289.75	521.41	467.47	441.27	26.19	17.847	
4,600.00	4,564.95	4,578.39	4,540.29	15.28	11.26	106.61	-294.37	534.11	476.41	449.64	26.77	17.797	
4,700.00	4,664.11	4,677.99	4,638.97	15.61	11.51	106.59	-298.99	546.81	485.36	458.01	27.35	17.747	
4,800.00	4,763.26	4,777.59	4,737.64	15.94	11.78	106.58	-303.62	559.51	494.30	466.37	27.93	17.697	
4,900.00	4,862.42	4,877.19	4,836.32	16.27	12.04	106.57	-308.24	572.21	503.24	474.73	28.52	17.648	
5,000.00	4,961.58	4,976.79	4,935.00	16.60	12.31	106.55	-312.86	584.92	512.19	483.08	29.10	17.598	
5,100.00	5,060.73	5,076.39	5,033.68	16.93	12.58	106.54	-317.49	597.62	521.13	491.43	29.70	17.549	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,159.89	5,175.99	5,132.35	17.26	12.85	106.53	-322.11	610.32	530.07	499.79	30.29	17.501		
5,300.00	5,259.04	5,275.59	5,231.03	17.59	13.13	106.52	-326.73	623.02	539.02	508.13	30.88	17.453		
5,400.00	5,358.20	5,375.19	5,329.71	17.92	13.40	106.51	-331.35	635.72	547.96	516.48	31.48	17.405		
5,500.00	5,457.36	5,474.79	5,428.39	18.25	13.68	106.49	-335.98	648.43	556.90	524.82	32.08	17.358		
5,600.00	5,556.51	5,574.38	5,527.06	18.58	13.96	106.48	-340.60	661.13	565.85	533.16	32.68	17.312		
5,700.00	5,655.67	5,673.98	5,625.74	18.91	14.24	106.47	-345.22	673.83	574.79	541.50	33.29	17.267		
5,800.00	5,754.82	5,773.58	5,724.42	19.24	14.52	106.46	-349.85	686.53	583.74	549.84	33.89	17.222		
5,900.00	5,853.98	5,873.18	5,823.10	19.58	14.81	106.45	-354.47	699.23	592.68	558.18	34.50	17.178		
6,000.00	5,953.13	5,972.78	5,921.78	19.91	15.10	106.45	-359.09	711.94	601.62	566.51	35.11	17.135		
6,100.00	6,052.29	6,072.38	6,020.45	20.24	15.38	106.44	-363.72	724.64	610.57	574.85	35.72	17.092		
6,200.00	6,151.45	6,171.98	6,119.13	20.57	15.67	106.43	-368.34	737.34	619.51	583.18	36.33	17.051		
6,300.00	6,250.60	6,271.58	6,217.81	20.90	15.96	106.42	-372.96	750.04	628.46	591.51	36.95	17.010		
6,400.00	6,349.76	6,371.18	6,316.49	21.24	16.25	106.41	-377.59	762.74	637.40	599.84	37.56	16.970		
6,500.00	6,448.91	6,474.33	6,419.18	21.57	16.46	106.95	-382.38	769.75	646.10	607.99	38.11	16.952		
6,600.00	6,548.07	6,573.82	6,518.07	21.90	16.59	108.82	-386.96	760.87	654.61	616.03	38.58	16.967		
6,700.03	6,647.26	6,664.89	6,606.39	22.24	16.66	111.62	-391.00	739.32	664.35	625.40	38.95	17.055		
6,800.00	6,746.93	6,748.74	6,684.22	22.46	16.70	-135.71	-394.54	708.51	676.53	637.41	39.12	17.295		
6,900.00	6,846.10	6,829.07	6,754.39	22.61	16.72	-93.17	-397.70	669.65	690.53	651.40	39.13	17.646		
7,000.00	6,942.28	6,906.60	6,816.96	22.73	16.73	-84.07	-400.49	624.03	705.50	666.43	39.07	18.057		
7,100.00	7,033.11	6,981.94	6,872.02	22.85	16.74	-78.83	-402.91	572.74	720.62	681.64	38.98	18.486		
7,200.00	7,116.36	7,055.54	6,919.61	23.01	16.76	-75.02	-404.97	516.68	735.12	696.18	38.93	18.881		
7,300.00	7,189.97	7,127.79	6,959.74	23.26	16.80	-72.09	-406.68	456.66	748.33	709.31	39.02	19.177		
7,400.00	7,252.13	7,200.00	6,992.80	23.68	16.88	-69.82	-408.04	392.53	759.70	720.37	39.34	19.314		
7,500.00	7,301.31	7,269.48	7,017.57	24.34	17.01	-68.17	-409.02	327.65	768.78	728.83	39.95	19.243		
7,600.00	7,336.30	7,339.42	7,035.23	25.28	17.19	-67.04	-409.66	260.02	775.23	734.31	40.92	18.944		
7,700.00	7,356.23	7,409.04	7,045.34	26.48	17.44	-66.44	-409.94	191.18	778.83	736.58	42.25	18.433		
7,800.00	7,361.08	7,483.54	7,048.00	27.71	17.77	-66.32	-409.87	116.75	779.58	735.84	43.75	17.820		
7,900.00	7,361.38	7,583.54	7,048.01	27.76	18.36	-66.30	-409.60	16.75	779.70	735.30	44.40	17.560		
8,000.00	7,361.69	7,683.54	7,048.02	27.91	19.08	-66.28	-409.33	-83.24	779.82	734.57	45.26	17.231		
8,100.00	7,362.00	7,783.54	7,048.04	28.16	19.93	-66.26	-409.06	-183.24	779.94	733.64	46.30	16.844		
8,200.00	7,362.31	7,883.54	7,048.05	28.51	20.88	-66.24	-408.79	-283.24	780.06	732.53	47.53	16.413		
8,300.00	7,362.61	7,983.54	7,048.06	28.95	21.92	-66.22	-408.52	-383.24	780.18	731.26	48.92	15.949		
8,400.00	7,362.92	8,083.54	7,048.08	29.47	23.03	-66.20	-408.26	-483.24	780.30	729.84	50.46	15.465		
8,500.00	7,363.23	8,183.54	7,048.09	30.09	24.21	-66.18	-407.99	-583.24	780.42	728.29	52.13	14.970		
8,600.00	7,363.53	8,283.54	7,048.10	30.78	25.44	-66.16	-407.72	-683.24	780.54	726.61	53.93	14.473		
8,700.00	7,363.84	8,383.54	7,048.11	31.54	26.73	-66.14	-407.45	-783.24	780.66	724.81	55.84	13.979		
8,800.00	7,364.15	8,483.54	7,048.13	32.37	28.05	-66.12	-407.18	-883.24	780.78	722.92	57.86	13.495		
8,900.00	7,364.46	8,583.54	7,048.14	33.27	29.41	-66.10	-406.91	-983.24	780.90	720.93	59.96	13.023		
9,000.00	7,364.76	8,683.54	7,048.15	34.22	30.80	-66.09	-406.64	-1,083.24	781.02	718.86	62.15	12.566		
9,100.00	7,365.07	8,783.54	7,048.17	35.23	32.21	-66.07	-406.38	-1,183.24	781.14	716.72	64.42	12.127		
9,200.00	7,365.38	8,883.54	7,048.18	36.29	33.65	-66.05	-406.11	-1,283.23	781.26	714.51	66.75	11.705		
9,300.00	7,365.68	8,983.54	7,048.19	37.39	35.11	-66.03	-405.84	-1,383.23	781.38	712.24	69.14	11.302		
9,400.00	7,365.99	9,083.54	7,048.20	38.53	36.59	-66.01	-405.57	-1,483.23	781.50	709.91	71.58	10.917		
9,500.00	7,366.30	9,183.54	7,048.22	39.71	38.09	-65.99	-405.30	-1,583.23	781.62	707.54	74.08	10.551		
9,600.00	7,366.60	9,283.54	7,048.23	40.92	39.60	-65.97	-405.03	-1,683.23	781.74	705.12	76.62	10.203		
9,700.00	7,366.91	9,383.54	7,048.24	42.17	41.12	-65.95	-404.76	-1,783.23	781.86	702.66	79.20	9.872		
9,800.00	7,367.22	9,483.54	7,048.26	43.44	42.65	-65.93	-404.50	-1,883.23	781.98	700.16	81.82	9.558		
9,900.00	7,367.53	9,583.54	7,048.27	44.74	44.19	-65.91	-404.23	-1,983.23	782.10	697.63	84.47	9.259		
10,000.00	7,367.83	9,683.53	7,048.28	46.07	45.74	-65.89	-403.96	-2,083.23	782.22	695.07	87.15	8.975		
10,100.00	7,368.14	9,783.53	7,048.29	47.41	47.30	-65.87	-403.69	-2,183.23	782.34	692.48	89.86	8.706		
10,200.00	7,368.45	9,883.53	7,048.31	48.78	48.87	-65.85	-403.42	-2,283.23	782.46	689.87	92.59	8.450		
10,300.00	7,368.75	9,983.53	7,048.32	50.17	50.44	-65.83	-403.15	-2,383.23	782.58	687.23	95.35	8.207		



# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,369.06	10,083.53	7,048.33	51.57	52.02	-65.81	-402.89	-2,483.23	782.70	684.57	98.13	7.976		
10,500.00	7,369.37	10,183.53	7,048.35	52.99	53.61	-65.79	-402.62	-2,583.22	782.83	681.90	100.93	7.756		
10,600.00	7,369.68	10,283.53	7,048.36	54.42	55.20	-65.77	-402.35	-2,683.22	782.95	679.20	103.74	7.547		
10,700.00	7,369.98	10,383.53	7,048.37	55.86	56.79	-65.75	-402.08	-2,783.22	783.07	676.49	106.58	7.347		
10,800.00	7,370.29	10,483.53	7,048.38	57.32	58.39	-65.73	-401.81	-2,883.22	783.19	673.77	109.42	7.157		
10,900.00	7,370.60	10,583.53	7,048.40	58.79	60.00	-65.71	-401.54	-2,983.22	783.31	671.03	112.28	6.976		
11,000.00	7,370.90	10,683.53	7,048.41	60.27	61.60	-65.69	-401.27	-3,083.22	783.43	668.28	115.16	6.803		
11,100.00	7,371.21	10,783.53	7,048.42	61.76	63.21	-65.67	-401.01	-3,183.22	783.56	665.51	118.04	6.638		
11,200.00	7,371.52	10,883.53	7,048.44	63.26	64.83	-65.65	-400.74	-3,283.22	783.68	662.74	120.94	6.480		
11,300.00	7,371.82	10,983.53	7,048.45	64.76	66.44	-65.63	-400.47	-3,383.22	783.80	659.96	123.84	6.329		
11,400.00	7,372.13	11,083.53	7,048.46	66.28	68.06	-65.61	-400.20	-3,483.22	783.92	657.16	126.76	6.184		
11,500.00	7,372.44	11,183.53	7,048.47	67.80	69.69	-65.59	-399.93	-3,583.22	784.04	654.36	129.68	6.046		
11,600.00	7,372.75	11,283.53	7,048.49	69.33	71.31	-65.57	-399.66	-3,683.22	784.17	651.55	132.61	5.913		
11,700.00	7,373.05	11,383.53	7,048.50	70.87	72.94	-65.56	-399.39	-3,783.22	784.29	648.74	135.55	5.786		
11,800.00	7,373.36	11,483.53	7,048.51	72.41	74.56	-65.54	-399.13	-3,883.21	784.41	645.91	138.50	5.664		
11,900.00	7,373.67	11,583.53	7,048.53	73.96	76.19	-65.52	-398.86	-3,983.21	784.53	643.08	141.45	5.546		
12,000.00	7,373.97	11,683.53	7,048.54	75.51	77.83	-65.50	-398.59	-4,083.21	784.66	640.25	144.41	5.434		
12,100.00	7,374.28	11,783.53	7,048.55	77.07	79.46	-65.48	-398.32	-4,183.21	784.78	637.41	147.37	5.325		
12,200.00	7,374.59	11,883.53	7,048.56	78.63	81.09	-65.46	-398.05	-4,283.21	784.90	634.56	150.34	5.221		
12,300.00	7,374.90	11,983.52	7,048.58	80.20	82.73	-65.44	-397.78	-4,383.21	785.02	631.71	153.31	5.120		
12,400.00	7,375.20	12,083.52	7,048.59	81.77	84.37	-65.42	-397.51	-4,483.21	785.15	628.86	156.29	5.024		
12,500.00	7,375.51	12,183.52	7,048.60	83.34	86.01	-65.40	-397.25	-4,583.21	785.27	626.00	159.27	4.930		
12,600.00	7,375.82	12,283.52	7,048.62	84.92	87.65	-65.38	-396.98	-4,683.21	785.39	623.13	162.26	4.840		
12,700.00	7,376.12	12,383.52	7,048.63	86.50	89.29	-65.36	-396.71	-4,783.21	785.52	620.27	165.25	4.753		
12,800.00	7,376.43	12,483.52	7,048.64	88.09	90.93	-65.34	-396.44	-4,883.21	785.64	617.40	168.24	4.670		
12,900.00	7,376.74	12,583.52	7,048.65	89.68	92.58	-65.32	-396.17	-4,983.21	785.76	614.52	171.24	4.589		
13,000.00	7,377.04	12,683.52	7,048.67	91.27	94.22	-65.30	-395.90	-5,083.20	785.89	611.65	174.24	4.510		
13,100.00	7,377.35	12,783.52	7,048.68	92.86	95.87	-65.28	-395.64	-5,183.20	786.01	608.77	177.24	4.435		
13,200.00	7,377.66	12,883.52	7,048.69	94.46	97.51	-65.26	-395.37	-5,283.20	786.13	605.88	180.25	4.361		
13,300.00	7,377.97	12,983.52	7,048.71	96.06	99.16	-65.24	-395.10	-5,383.20	786.26	603.00	183.26	4.290		
13,400.00	7,378.27	13,083.52	7,048.72	97.66	100.81	-65.22	-394.83	-5,483.20	786.38	600.11	186.27	4.222		
13,500.00	7,378.58	13,183.52	7,048.73	99.27	102.46	-65.20	-394.56	-5,583.20	786.51	597.23	189.28	4.155		
13,600.00	7,378.89	13,283.52	7,048.74	100.87	104.11	-65.18	-394.29	-5,683.20	786.63	594.33	192.30	4.091		
13,700.00	7,379.19	13,383.52	7,048.76	102.48	105.76	-65.17	-394.02	-5,783.20	786.75	591.44	195.31	4.028		
13,800.00	7,379.50	13,483.52	7,048.77	104.09	107.41	-65.15	-393.76	-5,883.20	786.88	588.55	198.33	3.968		
13,900.00	7,379.81	13,583.52	7,048.78	105.71	109.06	-65.13	-393.49	-5,983.20	787.00	585.65	201.35	3.909		
14,000.00	7,380.12	13,683.52	7,048.80	107.32	110.71	-65.11	-393.22	-6,083.20	787.13	582.75	204.37	3.851		
14,100.00	7,380.42	13,783.52	7,048.81	108.94	112.37	-65.09	-392.95	-6,183.20	787.25	579.86	207.40	3.796		
14,200.00	7,380.73	13,883.52	7,048.82	110.55	114.02	-65.07	-392.68	-6,283.20	787.38	576.96	210.42	3.742		
14,300.00	7,381.04	13,983.52	7,048.83	112.17	115.67	-65.05	-392.41	-6,383.19	787.50	574.06	213.45	3.689		
14,400.00	7,381.34	14,083.52	7,048.85	113.79	117.33	-65.03	-392.14	-6,483.19	787.63	571.15	216.47	3.638		
14,500.00	7,381.65	14,183.52	7,048.86	115.42	118.98	-65.01	-391.88	-6,583.19	787.75	568.25	219.50	3.589		
14,600.00	7,381.96	14,283.52	7,048.87	117.04	120.64	-64.99	-391.61	-6,683.19	787.88	565.34	222.53	3.541		
14,700.00	7,382.27	14,383.51	7,048.89	118.66	122.29	-64.97	-391.34	-6,783.19	788.00	562.44	225.56	3.494		
14,800.00	7,382.57	14,483.51	7,048.90	120.29	123.95	-64.95	-391.07	-6,883.19	788.13	559.53	228.59	3.448		
14,900.00	7,382.88	14,583.51	7,048.91	121.92	125.61	-64.93	-390.80	-6,983.19	788.25	556.63	231.62	3.403		
15,000.00	7,383.19	14,683.51	7,048.92	123.55	127.26	-64.91	-390.53	-7,083.19	788.38	553.72	234.66	3.360		
15,100.00	7,383.49	14,783.51	7,048.94	125.18	128.92	-64.89	-390.27	-7,183.19	788.50	550.81	237.69	3.317		
15,200.00	7,383.80	14,883.51	7,048.95	126.81	130.58	-64.87	-390.00	-7,283.19	788.63	547.90	240.73	3.276		
15,300.00	7,384.11	14,983.51	7,048.96	128.44	132.24	-64.86	-389.73	-7,383.19	788.75	544.99	243.76	3.236		
15,400.00	7,384.41	15,083.51	7,048.98	130.07	133.90	-64.84	-389.46	-7,483.19	788.88	542.08	246.80	3.196		
15,500.00	7,384.72	15,183.51	7,048.99	131.71	135.56	-64.82	-389.19	-7,583.19	789.01	539.17	249.83	3.158		



Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,590.73	7,385.00	15,274.24	7,049.00	133.19	137.06	-64.80	-388.95	-7,673.91	789.12	536.53	252.59	3.124 SF	

# Hewlett-Packard

## Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-60.10	0.28	60.10				
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-60.10	0.28	60.10	52.57	7.53	7.983	
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-60.10	0.28	60.10	52.53	7.57	7.935 CC, ES	
300.00	299.98	299.89	299.87	3.35	3.35	108.99	-60.18	2.02	60.76	53.10	7.66	7.932	
400.00	399.84	399.76	399.60	3.42	3.41	108.70	-60.40	7.23	62.72	54.93	7.79	8.054	
500.00	499.45	499.58	499.03	3.51	3.50	108.26	-60.78	15.91	65.99	58.03	7.97	8.283	
600.00	598.72	600.62	598.13	3.63	3.62	107.84	-61.30	27.79	70.52	62.31	8.21	8.592	
700.00	697.87	700.73	697.22	3.77	3.77	107.69	-61.85	40.33	75.37	66.87	8.50	8.868	
800.00	797.03	800.85	796.31	3.94	3.94	107.56	-62.40	52.87	80.22	71.38	8.84	9.078	
900.00	896.19	900.97	895.40	4.13	4.13	107.44	-62.94	65.42	85.07	75.85	9.22	9.231	
1,000.00	995.34	1,001.09	994.49	4.34	4.33	107.33	-63.49	77.96	89.92	80.29	9.63	9.338	
1,100.00	1,094.50	1,101.20	1,093.58	4.56	4.56	107.24	-64.04	90.50	94.77	84.70	10.07	9.407	
1,200.00	1,193.65	1,201.32	1,192.67	4.80	4.79	107.15	-64.59	103.04	99.62	89.08	10.55	9.447	
1,300.00	1,292.81	1,301.44	1,291.76	5.05	5.04	107.08	-65.13	115.58	104.48	93.44	11.04	9.464	
1,400.00	1,391.97	1,401.56	1,390.85	5.31	5.30	107.01	-65.68	128.12	109.33	97.78	11.55	9.464	
1,500.00	1,491.12	1,501.68	1,489.94	5.57	5.57	106.94	-66.23	140.66	114.18	102.10	12.08	9.450	
1,600.00	1,590.28	1,601.79	1,589.03	5.85	5.84	106.88	-66.78	153.20	119.03	106.41	12.63	9.427	
1,700.00	1,689.43	1,701.91	1,688.12	6.13	6.12	106.83	-67.32	165.74	123.88	110.70	13.18	9.397	
1,800.00	1,788.59	1,802.03	1,787.21	6.41	6.40	106.78	-67.87	178.29	128.74	114.99	13.75	9.364	
1,900.00	1,887.75	1,902.15	1,886.30	6.70	6.55	106.73	-68.42	190.83	133.59	119.78	13.81	9.676	
2,000.00	1,986.90	2,002.27	1,985.39	7.00	6.58	106.69	-68.97	203.37	138.44	124.31	14.13	9.799	
2,100.00	2,086.06	2,102.38	2,084.48	7.30	6.63	106.65	-69.52	215.91	143.30	128.83	14.47	9.904	
2,200.00	2,185.21	2,202.50	2,183.57	7.60	6.68	106.61	-70.06	228.45	148.15	133.32	14.83	9.992	
2,300.00	2,284.37	2,302.62	2,282.66	7.90	6.76	106.57	-70.61	240.99	153.00	137.80	15.20	10.066	
2,400.00	2,383.52	2,402.74	2,381.75	8.21	6.84	106.54	-71.16	253.53	157.85	142.26	15.59	10.125	
2,500.00	2,482.68	2,502.85	2,480.84	8.52	6.94	106.51	-71.71	266.07	162.71	146.71	16.00	10.172	
2,600.00	2,581.84	2,602.97	2,579.93	8.83	7.05	106.48	-72.25	278.62	167.56	151.15	16.41	10.208	
2,700.00	2,680.99	2,703.09	2,679.02	9.14	7.17	106.45	-72.80	291.16	172.41	155.57	16.85	10.234	
2,800.00	2,780.15	2,803.21	2,778.11	9.45	7.31	106.43	-73.35	303.70	177.27	159.97	17.29	10.250	
2,900.00	2,879.30	2,903.33	2,877.20	9.77	7.45	106.40	-73.90	316.24	182.12	164.37	17.75	10.259	
3,000.00	2,978.46	3,003.44	2,976.29	10.09	7.61	106.38	-74.44	328.78	186.97	168.75	18.22	10.261	
3,100.00	3,077.62	3,103.56	3,075.38	10.41	7.77	106.36	-74.99	341.32	191.83	173.13	18.70	10.258	
3,200.00	3,176.77	3,203.68	3,174.47	10.73	7.94	106.33	-75.54	353.86	196.68	177.49	19.19	10.249	
3,300.00	3,275.93	3,303.80	3,273.56	11.05	8.12	106.31	-76.09	366.40	201.53	181.84	19.69	10.235	
3,400.00	3,375.08	3,403.92	3,372.65	11.37	8.31	106.30	-76.63	378.95	206.39	186.19	20.20	10.218	
3,500.00	3,474.24	3,504.03	3,471.74	11.69	8.51	106.28	-77.18	391.49	211.24	190.53	20.71	10.198	
3,600.00	3,573.39	3,604.15	3,570.83	12.01	8.71	106.26	-77.73	404.03	216.09	194.86	21.24	10.175	
3,700.00	3,672.55	3,704.27	3,669.92	12.34	8.92	106.24	-78.28	416.57	220.95	199.18	21.77	10.150	
3,800.00	3,771.71	3,804.39	3,769.01	12.66	9.14	106.23	-78.82	429.11	225.80	203.50	22.30	10.124	
3,900.00	3,870.86	3,904.51	3,868.10	12.99	9.36	106.21	-79.37	441.65	230.66	207.81	22.85	10.096	
4,000.00	3,970.02	4,004.62	3,967.19	13.31	9.58	106.20	-79.92	454.19	235.51	212.11	23.40	10.066	
4,100.00	4,069.17	4,104.74	4,066.28	13.64	9.82	106.18	-80.47	466.73	240.36	216.41	23.95	10.036	
4,200.00	4,168.33	4,204.86	4,165.37	13.97	10.05	106.17	-81.01	479.27	245.22	220.71	24.51	10.006	
4,300.00	4,267.49	4,304.98	4,264.46	14.29	10.29	106.16	-81.56	491.82	250.07	225.00	25.07	9.974	
4,400.00	4,366.64	4,405.09	4,363.55	14.62	10.53	106.14	-82.11	504.36	254.92	229.28	25.64	9.943	
4,500.00	4,465.80	4,505.21	4,462.64	14.95	10.78	106.13	-82.66	516.90	259.78	233.57	26.21	9.911	
4,600.00	4,564.95	4,605.33	4,561.73	15.28	11.03	106.12	-83.20	529.44	264.63	237.85	26.79	9.880	
4,700.00	4,664.11	4,705.45	4,660.82	15.61	11.28	106.11	-83.75	541.98	269.48	242.12	27.36	9.848	
4,800.00	4,763.26	4,805.57	4,759.91	15.94	11.54	106.10	-84.30	554.52	274.34	246.39	27.95	9.817	
4,900.00	4,862.42	4,905.68	4,859.00	16.27	11.80	106.09	-84.85	567.06	279.19	250.66	28.53	9.786	
5,000.00	4,961.58	5,005.80	4,958.09	16.60	12.06	106.08	-85.39	579.60	284.04	254.93	29.12	9.755	
5,100.00	5,060.73	5,105.92	5,057.18	16.93	12.32	106.07	-85.94	592.15	288.90	259.19	29.71	9.725	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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
5,200.00	5,159.89	5,206.04	5,156.27	17.26	12.59	106.06	-86.49	604.69	293.75	263.45	30.30	9.695	
5,300.00	5,259.04	5,306.16	5,255.36	17.59	12.86	106.05	-87.04	617.23	298.61	267.71	30.90	9.665	
5,400.00	5,358.20	5,406.27	5,354.45	17.92	13.13	106.04	-87.58	629.77	303.46	271.97	31.49	9.636	
5,500.00	5,457.36	5,506.39	5,453.54	18.25	13.40	106.03	-88.13	642.31	308.31	276.22	32.09	9.607	
5,600.00	5,556.51	5,606.51	5,552.63	18.58	13.67	106.02	-88.68	654.85	313.17	280.47	32.69	9.579	
5,700.00	5,655.67	5,706.63	5,651.72	18.91	13.95	106.01	-89.23	667.39	318.02	284.72	33.30	9.551	
5,800.00	5,754.82	5,806.74	5,750.81	19.24	14.22	106.01	-89.77	679.93	322.87	288.97	33.90	9.524	
5,900.00	5,853.98	5,906.86	5,849.90	19.58	14.50	106.00	-90.32	692.47	327.73	293.22	34.51	9.497	
6,000.00	5,953.13	6,006.98	5,948.99	19.91	14.78	105.99	-90.87	705.02	332.58	297.47	35.12	9.471	
6,100.00	6,052.29	6,107.10	6,048.08	20.24	15.06	105.98	-91.42	717.56	337.44	301.71	35.73	9.445	
6,200.00	6,151.45	6,207.22	6,147.17	20.57	15.34	105.98	-91.97	730.10	342.29	305.95	36.34	9.420	
6,300.00	6,250.60	6,307.33	6,246.26	20.90	15.63	105.97	-92.51	742.64	347.14	310.19	36.95	9.395	
6,400.00	6,349.76	6,407.45	6,345.35	21.24	15.91	105.96	-93.06	755.18	352.00	314.44	37.56	9.371	
6,500.00	6,448.91	6,492.43	6,444.44	21.57	16.15	105.96	-93.61	767.72	356.85	318.72	38.13	9.358	
6,600.00	6,548.07	6,592.66	6,544.40	21.90	16.36	107.03	-94.41	773.55	361.64	322.97	38.67	9.352	
6,700.03	6,647.26	6,688.62	6,639.82	22.24	16.48	110.30	-95.72	764.43	367.14	328.05	39.09	9.393	
6,800.00	6,746.93	6,779.20	6,727.68	22.46	16.55	-136.40	-97.40	742.76	375.05	335.78	39.27	9.551	
6,900.00	6,846.10	6,866.65	6,808.75	22.61	16.59	-93.34	-99.42	710.23	385.21	345.93	39.28	9.807	
7,000.00	6,942.28	6,951.47	6,882.41	22.73	16.61	-83.84	-101.71	668.36	396.87	357.69	39.18	10.130	
7,100.00	7,033.11	7,034.14	6,948.23	22.85	16.63	-78.30	-104.21	618.49	409.28	370.26	39.03	10.488	
7,200.00	7,116.36	7,115.08	7,005.88	23.01	16.66	-74.31	-106.87	561.82	421.74	382.84	38.90	10.841	
7,300.00	7,189.97	7,194.65	7,055.08	23.26	16.72	-71.28	-109.66	499.42	433.62	394.72	38.90	11.146	
7,400.00	7,252.13	7,273.16	7,095.63	23.68	16.82	-68.99	-112.54	432.30	444.41	405.26	39.15	11.352	
7,500.00	7,301.31	7,350.00	7,127.02	24.34	16.98	-67.35	-115.43	362.28	453.69	413.98	39.71	11.424	
7,600.00	7,336.30	7,428.19	7,150.06	25.28	17.20	-66.27	-118.40	287.68	461.16	420.48	40.68	11.337	
7,700.00	7,356.23	7,505.20	7,163.65	26.48	17.49	-65.74	-121.32	211.97	466.59	424.56	42.02	11.103	
7,800.00	7,361.08	7,583.31	7,168.01	27.71	17.84	-65.74	-124.22	134.09	470.06	426.57	43.49	10.809	
7,900.00	7,361.38	7,683.23	7,168.19	27.76	18.42	-65.92	-127.88	34.23	473.71	429.58	44.13	10.735	
8,000.00	7,361.69	7,783.15	7,168.37	27.91	19.12	-66.10	-131.55	-65.62	477.36	432.38	44.97	10.615	
8,100.00	7,362.00	7,883.08	7,168.55	28.16	19.94	-66.28	-135.22	-165.48	481.01	435.00	46.01	10.454	
8,200.00	7,362.31	7,983.00	7,168.73	28.51	20.86	-66.45	-138.88	-265.33	484.67	437.43	47.24	10.260	
8,300.00	7,362.61	8,082.92	7,168.91	28.95	21.87	-66.62	-142.55	-365.19	488.33	439.70	48.63	10.041	
8,400.00	7,362.92	8,182.84	7,169.08	29.47	22.96	-66.79	-146.21	-465.04	492.00	441.82	50.18	9.804	
8,500.00	7,363.23	8,282.77	7,169.26	30.09	24.11	-66.95	-149.88	-564.90	495.67	443.80	51.88	9.555	
8,600.00	7,363.53	8,382.69	7,169.44	30.78	25.32	-67.12	-153.55	-664.75	499.35	445.65	53.70	9.299	
8,700.00	7,363.84	8,482.61	7,169.62	31.54	26.58	-67.28	-157.21	-764.60	503.03	447.39	55.64	9.041	
8,800.00	7,364.15	8,582.53	7,169.80	32.37	27.89	-67.44	-160.88	-864.46	506.71	449.02	57.69	8.783	
8,900.00	7,364.46	8,682.45	7,169.98	33.27	29.23	-67.59	-164.54	-964.31	510.40	450.56	59.84	8.530	
9,000.00	7,364.76	8,782.38	7,170.16	34.22	30.60	-67.75	-168.21	-1,064.17	514.09	452.02	62.07	8.282	
9,100.00	7,365.07	8,882.30	7,170.34	35.23	32.00	-67.90	-171.88	-1,164.02	517.79	453.40	64.39	8.042	
9,200.00	7,365.38	8,982.22	7,170.52	36.29	33.43	-68.05	-175.54	-1,263.88	521.49	454.71	66.77	7.810	
9,300.00	7,365.68	9,082.14	7,170.70	37.39	34.87	-68.20	-179.21	-1,363.73	525.19	455.96	69.23	7.587	
9,400.00	7,365.99	9,182.07	7,170.88	38.53	36.34	-68.34	-182.87	-1,463.59	528.89	457.16	71.74	7.373	
9,500.00	7,366.30	9,281.99	7,171.06	39.71	37.82	-68.49	-186.54	-1,563.44	532.60	458.30	74.30	7.168	
9,600.00	7,366.60	9,381.91	7,171.23	40.92	39.32	-68.63	-190.21	-1,663.30	536.31	459.39	76.92	6.972	
9,700.00	7,366.91	9,481.83	7,171.41	42.17	40.82	-68.77	-193.87	-1,763.15	540.03	460.45	79.58	6.786	
9,800.00	7,367.22	9,581.76	7,171.59	43.44	42.35	-68.91	-197.54	-1,863.01	543.75	461.47	82.28	6.608	
9,900.00	7,367.53	9,700.67	7,171.80	44.74	44.18	-69.00	-200.03	-1,980.55	546.05	460.78	85.27	6.404	
10,000.00	7,367.83	9,800.67	7,171.98	46.07	45.72	-69.00	-200.24	-2,080.55	546.55	458.54	88.00	6.211	
10,100.00	7,368.14	9,900.67	7,172.16	47.41	47.28	-69.01	-200.45	-2,180.55	547.04	456.28	90.76	6.027	
10,200.00	7,368.45	10,000.67	7,172.34	48.78	48.84	-69.01	-200.66	-2,280.55	547.53	453.98	93.55	5.853	
10,300.00	7,368.75	10,100.67	7,172.52	50.17	50.42	-69.02	-200.87	-2,380.55	548.02	451.66	96.36	5.687	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	7,369.06	10,200.67	7,172.70	51.57	51.99	-69.02	-201.08	-2,480.55	548.52	449.32	99.20	5.530		
10,500.00	7,369.37	10,300.67	7,172.88	52.99	53.58	-69.03	-201.29	-2,580.54	549.01	446.96	102.05	5.380		
10,600.00	7,369.68	10,400.67	7,173.06	54.42	55.16	-69.03	-201.50	-2,680.54	549.50	444.58	104.93	5.237		
10,700.00	7,369.98	10,499.32	7,173.24	55.86	56.74	-69.04	-201.71	-2,780.54	550.00	442.20	107.80	5.102		
10,800.00	7,370.29	10,600.68	7,173.42	57.32	58.35	-69.05	-201.92	-2,880.54	550.49	439.76	110.72	4.972		
10,900.00	7,370.60	10,700.68	7,173.60	58.79	59.96	-69.05	-202.13	-2,980.54	550.98	437.34	113.65	4.848		
11,000.00	7,370.90	10,799.32	7,173.77	60.27	61.54	-69.06	-202.34	-3,080.54	551.48	434.91	116.56	4.731		
11,100.00	7,371.21	10,900.68	7,173.95	61.76	63.17	-69.06	-202.55	-3,180.53	551.97	432.44	119.53	4.618		
11,200.00	7,371.52	11,000.68	7,174.13	63.26	64.78	-69.07	-202.76	-3,280.53	552.46	429.97	122.49	4.510		
11,300.00	7,371.82	11,100.68	7,174.31	64.76	66.40	-69.07	-202.96	-3,380.53	552.95	427.49	125.46	4.407		
11,400.00	7,372.13	11,200.68	7,174.49	66.28	68.01	-69.08	-203.17	-3,480.53	553.45	425.00	128.44	4.309		
11,500.00	7,372.44	11,300.69	7,174.67	67.80	69.63	-69.08	-203.38	-3,580.53	553.94	422.51	131.43	4.215		
11,600.00	7,372.75	11,400.69	7,174.85	69.33	71.26	-69.09	-203.59	-3,680.53	554.43	420.00	134.43	4.124		
11,700.00	7,373.05	11,500.69	7,175.03	70.87	72.88	-69.09	-203.80	-3,780.52	554.93	417.48	137.44	4.038		
11,800.00	7,373.36	11,600.69	7,175.21	72.41	74.51	-69.10	-204.01	-3,880.52	555.42	414.96	140.46	3.954		
11,900.00	7,373.67	11,700.69	7,175.39	73.96	76.14	-69.10	-204.22	-3,980.52	555.91	412.43	143.48	3.874		
12,000.00	7,373.97	11,800.69	7,175.57	75.51	77.77	-69.11	-204.43	-4,080.52	556.40	409.89	146.51	3.798		
12,100.00	7,374.28	11,900.69	7,175.75	77.07	79.40	-69.11	-204.64	-4,180.52	556.90	407.35	149.55	3.724		
12,200.00	7,374.59	12,000.69	7,175.92	78.63	81.03	-69.12	-204.85	-4,280.52	557.39	404.80	152.59	3.653		
12,300.00	7,374.90	12,100.70	7,176.10	80.20	82.67	-69.13	-205.06	-4,380.51	557.88	402.24	155.64	3.584		
12,400.00	7,375.20	12,200.70	7,176.28	81.77	84.30	-69.13	-205.27	-4,480.51	558.38	399.68	158.70	3.519		
12,500.00	7,375.51	12,300.70	7,176.46	83.34	85.94	-69.14	-205.48	-4,580.51	558.87	397.12	161.75	3.455		
12,600.00	7,375.82	12,400.70	7,176.64	84.92	87.58	-69.14	-205.69	-4,680.51	559.36	394.54	164.82	3.394		
12,700.00	7,376.12	12,500.70	7,176.82	86.50	89.22	-69.15	-205.90	-4,780.51	559.86	391.97	167.89	3.335		
12,800.00	7,376.43	12,600.70	7,177.00	88.09	90.86	-69.15	-206.11	-4,880.51	560.35	389.39	170.96	3.278		
12,900.00	7,376.74	12,700.70	7,177.18	89.68	92.50	-69.16	-206.32	-4,980.51	560.84	386.80	174.04	3.223		
13,000.00	7,377.04	12,800.70	7,177.36	91.27	94.15	-69.16	-206.53	-5,080.50	561.34	384.22	177.12	3.169		
13,100.00	7,377.35	12,900.71	7,177.54	92.86	95.79	-69.17	-206.74	-5,180.50	561.83	381.62	180.20	3.118		
13,200.00	7,377.66	13,000.71	7,177.72	94.46	97.44	-69.17	-206.95	-5,280.50	562.32	379.03	183.29	3.068		
13,300.00	7,377.97	13,100.71	7,177.90	96.06	99.08	-69.18	-207.16	-5,380.50	562.81	376.43	186.38	3.020		
13,400.00	7,378.27	13,200.71	7,178.08	97.66	100.73	-69.18	-207.37	-5,480.50	563.31	373.83	189.48	2.973		
13,500.00	7,378.58	13,300.71	7,178.25	99.27	102.38	-69.19	-207.58	-5,580.50	563.80	371.22	192.58	2.928		
13,600.00	7,378.89	13,400.71	7,178.43	100.87	104.03	-69.19	-207.79	-5,680.49	564.29	368.61	195.68	2.884		
13,700.00	7,379.19	13,500.71	7,178.61	102.48	105.68	-69.20	-208.00	-5,780.49	564.79	366.00	198.78	2.841		
13,800.00	7,379.50	13,600.71	7,178.79	104.09	107.33	-69.20	-208.21	-5,880.49	565.28	363.39	201.89	2.800		
13,900.00	7,379.81	13,700.72	7,178.97	105.71	108.98	-69.21	-208.42	-5,980.49	565.77	360.77	205.00	2.760		
14,000.00	7,380.12	13,800.72	7,179.15	107.32	110.63	-69.21	-208.63	-6,080.49	566.27	358.16	208.11	2.721		
14,100.00	7,380.42	13,900.72	7,179.33	108.94	112.28	-69.22	-208.84	-6,180.49	566.76	355.53	211.22	2.683		
14,200.00	7,380.73	14,000.72	7,179.51	110.55	113.93	-69.22	-209.05	-6,280.48	567.25	352.91	214.34	2.647		
14,300.00	7,381.04	14,100.72	7,179.69	112.17	115.59	-69.23	-209.25	-6,380.48	567.75	350.29	217.46	2.611		
14,400.00	7,381.34	14,200.72	7,179.87	113.79	117.24	-69.23	-209.46	-6,480.48	568.24	347.66	220.58	2.576		
14,500.00	7,381.65	14,300.72	7,180.05	115.42	118.90	-69.24	-209.67	-6,580.48	568.73	345.03	223.70	2.542		
14,600.00	7,381.96	14,400.72	7,180.23	117.04	120.55	-69.24	-209.88	-6,680.48	569.22	342.40	226.83	2.510		
14,700.00	7,382.27	14,500.73	7,180.40	118.66	122.21	-69.25	-210.09	-6,780.48	569.72	339.77	229.95	2.478		
14,800.00	7,382.57	14,600.73	7,180.58	120.29	123.86	-69.25	-210.30	-6,880.47	570.21	337.13	233.08	2.446		
14,900.00	7,382.88	14,700.73	7,180.76	121.92	125.52	-69.26	-210.51	-6,980.47	570.70	334.49	236.21	2.416		
15,000.00	7,383.19	14,800.73	7,180.94	123.55	127.17	-69.26	-210.72	-7,080.47	571.20	331.86	239.34	2.387		
15,100.00	7,383.49	14,900.73	7,181.12	125.18	128.83	-69.27	-210.93	-7,180.47	571.69	329.22	242.47	2.358		
15,200.00	7,383.80	15,000.73	7,181.30	126.81	130.49	-69.27	-211.14	-7,280.47	572.18	326.58	245.61	2.330		
15,300.00	7,384.11	15,100.73	7,181.48	128.44	132.14	-69.28	-211.35	-7,380.47	572.68	323.93	248.74	2.302		
15,400.00	7,384.41	15,200.73	7,181.66	130.07	133.80	-69.28	-211.56	-7,480.46	573.17	321.29	251.88	2.276		
15,500.00	7,384.72	15,300.74	7,181.84	131.71	135.46	-69.29	-211.77	-7,580.46	573.66	318.64	255.02	2.249		

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,590.73	7,385.00	15,389.99	7,182.00	133.19	136.94	-69.29	-211.96	-7,671.19	574.11	316.26	257.85	2.227 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)			
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-40.07	0.28	40.07	32.54	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.291 CC		
300.00	299.98	300.25	300.23	3.35	3.35	108.85	-39.75	2.00	40.33	32.67	7.66	5.265		
400.00	399.84	400.49	400.33	3.42	3.42	108.53	-38.78	7.17	41.10	33.31	7.79	5.277		
500.00	499.45	500.72	500.17	3.51	3.51	108.04	-37.17	15.78	42.39	34.42	7.97	5.319		
600.00	598.72	600.85	599.58	3.63	3.63	107.58	-34.97	27.54	44.19	35.99	8.21	5.384		
700.00	697.87	700.83	698.76	3.77	3.77	107.47	-32.65	39.93	46.18	37.68	8.50	5.432		
800.00	797.03	800.81	797.95	3.94	3.94	107.37	-30.33	52.31	48.16	39.32	8.84	5.448		
900.00	896.19	900.79	897.13	4.13	4.13	107.27	-28.02	64.70	50.14	40.92	9.22	5.439		
1,000.00	995.34	1,000.77	996.31	4.34	4.33	107.18	-25.70	77.08	52.12	42.49	9.63	5.410		
1,100.00	1,094.50	1,100.76	1,095.50	4.56	4.56	107.10	-23.38	89.47	54.11	44.03	10.08	5.368		
1,200.00	1,193.65	1,200.74	1,194.68	4.80	4.79	107.02	-21.06	101.85	56.09	45.54	10.55	5.316		
1,300.00	1,292.81	1,300.72	1,293.86	5.05	5.04	106.95	-18.75	114.24	58.07	47.03	11.04	5.258		
1,400.00	1,391.97	1,400.70	1,393.05	5.31	5.29	106.89	-16.43	126.62	60.06	48.50	11.56	5.196		
1,500.00	1,491.12	1,500.68	1,492.23	5.57	5.56	106.83	-14.11	139.01	62.04	49.95	12.09	5.132		
1,600.00	1,590.28	1,600.66	1,591.41	5.85	5.83	106.77	-11.79	151.39	64.02	51.39	12.63	5.068		
1,700.00	1,689.43	1,700.64	1,690.60	6.13	6.11	106.71	-9.47	163.78	66.01	52.82	13.19	5.004		
1,800.00	1,788.59	1,800.62	1,789.78	6.41	6.39	106.66	-7.16	176.16	67.99	54.23	13.76	4.942		
1,900.00	1,887.75	1,900.60	1,888.96	6.70	6.54	106.61	-4.84	188.55	69.97	56.16	13.82	5.064		
2,000.00	1,986.90	2,000.58	1,988.15	7.00	6.57	106.57	-2.52	200.93	71.96	57.82	14.14	5.089		
2,100.00	2,086.06	2,100.56	2,087.33	7.30	6.61	106.52	-0.20	213.32	73.94	59.46	14.48	5.107		
2,200.00	2,185.21	2,200.54	2,186.51	7.60	6.67	106.48	2.11	225.70	75.92	61.09	14.84	5.117		
2,300.00	2,284.37	2,300.52	2,285.70	7.90	6.74	106.44	4.43	238.09	77.91	62.70	15.21	5.122		
2,400.00	2,383.52	2,400.50	2,384.88	8.21	6.83	106.41	6.75	250.47	79.89	64.29	15.60	5.121		
2,500.00	2,482.68	2,500.48	2,484.06	8.52	6.92	106.37	9.07	262.86	81.87	65.87	16.01	5.115		
2,600.00	2,581.84	2,600.46	2,583.24	8.83	7.03	106.34	11.39	275.24	83.86	67.43	16.42	5.106		
2,700.00	2,680.99	2,700.44	2,682.43	9.14	7.15	106.31	13.70	287.63	85.84	68.98	16.86	5.092		
2,800.00	2,780.15	2,800.42	2,781.61	9.45	7.29	106.28	16.02	300.01	87.83	70.52	17.30	5.076		
2,900.00	2,879.30	2,900.40	2,880.79	9.77	7.43	106.25	18.34	312.40	89.81	72.05	17.76	5.056		
3,000.00	2,978.46	3,000.38	2,979.98	10.09	7.58	106.22	20.66	324.78	91.79	73.56	18.23	5.035		
3,100.00	3,077.62	3,100.36	3,079.16	10.41	7.74	106.19	22.98	337.17	93.78	75.07	18.71	5.012		
3,200.00	3,176.77	3,200.34	3,178.34	10.73	7.92	106.17	25.29	349.56	95.76	76.56	19.20	4.987		
3,300.00	3,275.93	3,300.32	3,277.53	11.05	8.09	106.14	27.61	361.94	97.75	78.05	19.70	4.962		
3,400.00	3,375.08	3,400.30	3,376.71	11.37	8.28	106.12	29.93	374.33	99.73	79.52	20.21	4.935		
3,500.00	3,474.24	3,500.28	3,475.89	11.69	8.48	106.09	32.25	386.71	101.71	80.99	20.72	4.908		
3,600.00	3,573.39	3,600.26	3,575.08	12.01	8.68	106.07	34.56	399.10	103.70	82.45	21.25	4.881		
3,700.00	3,672.55	3,700.24	3,674.26	12.34	8.88	106.05	36.88	411.48	105.68	83.90	21.78	4.853		
3,800.00	3,771.71	3,800.22	3,773.44	12.66	9.10	106.03	39.20	423.87	107.66	85.35	22.31	4.825		
3,900.00	3,870.86	3,900.20	3,872.63	12.99	9.32	106.01	41.52	436.25	109.65	86.79	22.86	4.798		
4,000.00	3,970.02	4,000.18	3,971.81	13.31	9.54	105.99	43.84	448.64	111.63	88.23	23.40	4.770		
4,100.00	4,069.17	4,100.16	4,070.99	13.64	9.77	105.97	46.15	461.02	113.62	89.66	23.96	4.742		
4,200.00	4,168.33	4,200.14	4,170.18	13.97	10.00	105.96	48.47	473.41	115.60	91.08	24.52	4.715		
4,300.00	4,267.49	4,300.13	4,269.36	14.29	10.24	105.94	50.79	485.79	117.58	92.51	25.08	4.689		
4,400.00	4,366.64	4,400.11	4,368.54	14.62	10.48	105.92	53.11	498.18	119.57	93.92	25.65	4.662		
4,500.00	4,465.80	4,500.09	4,467.72	14.95	10.72	105.91	55.42	510.56	121.55	95.34	26.22	4.636		
4,600.00	4,564.95	4,600.07	4,566.91	15.28	10.97	105.89	57.74	522.95	123.54	96.74	26.79	4.611		
4,700.00	4,664.11	4,700.05	4,666.09	15.61	11.22	105.88	60.06	535.33	125.52	98.15	27.37	4.586		
4,800.00	4,763.26	4,800.03	4,765.27	15.94	11.47	105.86	62.38	547.72	127.51	99.55	27.95	4.561		
4,900.00	4,862.42	4,900.01	4,864.46	16.27	11.73	105.85	64.70	560.10	129.49	100.95	28.54	4.538		
5,000.00	4,961.58	5,000.01	4,963.64	16.60	11.99	105.84	67.01	572.49	131.47	102.35	29.12	4.514		
5,100.00	5,060.73	5,100.03	5,062.82	16.93	12.25	105.82	69.33	584.87	133.46	103.74	29.71	4.491		

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,159.89	5,200.05	5,162.01	17.26	12.51	105.81	71.65	597.26	135.44	105.13	30.31	4.469	
5,300.00	5,259.04	5,300.07	5,261.19	17.59	12.78	105.80	73.97	609.64	137.43	106.52	30.90	4.447	
5,400.00	5,358.20	5,400.09	5,360.37	17.92	13.05	105.79	76.28	622.03	139.41	107.91	31.50	4.426	
5,500.00	5,457.36	5,500.11	5,459.56	18.25	13.32	105.77	78.60	634.41	141.39	109.29	32.10	4.405	
5,600.00	5,556.51	5,600.13	5,558.74	18.58	13.59	105.76	80.92	646.80	143.38	110.68	32.70	4.385	
5,700.00	5,655.67	5,700.15	5,657.92	18.91	13.86	105.75	83.24	659.18	145.36	112.06	33.30	4.365	
5,800.00	5,754.82	5,800.17	5,757.11	19.24	14.14	105.74	85.56	671.57	147.35	113.44	33.91	4.345	
5,900.00	5,853.98	5,900.19	5,856.29	19.58	14.41	105.73	87.87	683.95	149.33	114.82	34.51	4.327	
6,000.00	5,953.13	6,000.21	5,955.47	19.91	14.69	105.72	90.19	696.34	151.31	116.19	35.12	4.308	
6,100.00	6,052.29	6,100.23	6,054.66	20.24	14.97	105.71	92.51	708.72	153.30	117.57	35.73	4.290	
6,200.00	6,151.45	6,200.25	6,153.84	20.57	15.25	105.70	94.83	721.11	155.28	118.94	36.34	4.273	
6,300.00	6,250.60	6,300.27	6,253.02	20.90	15.53	105.69	97.14	733.49	157.27	120.31	36.96	4.256	
6,400.00	6,349.76	6,400.29	6,352.20	21.24	15.81	105.68	99.46	745.88	159.25	121.68	37.57	4.239	
6,500.00	6,448.91	6,500.31	6,451.39	21.57	16.09	105.67	101.78	758.26	161.24	123.05	38.18	4.223	
6,600.00	6,548.07	6,599.98	6,550.90	21.90	16.37	105.76	104.11	770.43	163.20	124.41	38.79	4.207	
6,700.03	6,647.26	6,700.35	6,651.13	22.24	16.54	109.48	106.46	772.09	164.84	125.60	39.25	4.200	
6,800.00	6,746.93	6,797.24	6,746.97	22.46	16.66	-135.55	108.74	758.75	167.84	128.41	39.43	4.257	
6,900.00	6,846.10	6,891.66	6,837.39	22.61	16.72	-90.95	110.91	731.91	172.59	133.19	39.40	4.380	
7,000.00	6,942.28	6,983.90	6,920.93	22.73	16.76	-80.13	112.93	693.06	178.61	139.39	39.22	4.554	
7,100.00	7,033.11	7,074.24	6,996.48	22.85	16.79	-73.53	114.79	643.71	185.33	146.41	38.92	4.762	
7,200.00	7,116.36	7,162.97	7,063.17	23.01	16.82	-68.70	116.44	585.30	192.20	153.62	38.59	4.981	
7,300.00	7,189.97	7,250.38	7,120.30	23.26	16.89	-65.03	117.88	519.25	198.73	160.39	38.34	5.183	
7,400.00	7,252.13	7,336.71	7,167.33	23.68	17.01	-62.28	119.10	446.94	204.50	166.18	38.32	5.336	
7,500.00	7,301.31	7,422.23	7,203.86	24.34	17.19	-60.29	120.07	369.70	209.18	170.53	38.65	5.412	
7,600.00	7,336.30	7,507.16	7,229.57	25.28	17.45	-59.00	120.79	288.83	212.53	173.12	39.40	5.393	
7,700.00	7,356.23	7,591.74	7,244.27	26.48	17.79	-58.34	121.26	205.60	214.38	173.77	40.61	5.279	
7,800.00	7,361.08	7,679.09	7,248.01	27.71	18.22	-58.24	121.48	118.38	214.78	172.72	42.05	5.107	
7,900.00	7,361.38	7,779.09	7,248.06	27.76	18.83	-58.20	121.63	18.38	215.02	172.41	42.61	5.046	
8,000.00	7,361.69	7,879.09	7,248.12	27.91	19.55	-58.15	121.77	-81.61	215.25	171.90	43.36	4.965	
8,100.00	7,362.00	7,979.09	7,248.17	28.16	20.39	-58.11	121.92	-181.61	215.49	171.20	44.29	4.865	
8,200.00	7,362.31	8,079.09	7,248.22	28.51	21.32	-58.07	122.07	-281.61	215.73	170.33	45.40	4.752	
8,300.00	7,362.61	8,179.08	7,248.27	28.95	22.34	-58.03	122.22	-381.61	215.97	169.31	46.66	4.628	
8,400.00	7,362.92	8,279.08	7,248.32	29.47	23.44	-57.99	122.36	-481.61	216.21	168.13	48.08	4.497	
8,500.00	7,363.23	8,379.08	7,248.37	30.09	24.60	-57.95	122.51	-581.61	216.45	166.83	49.62	4.362	
8,600.00	7,363.53	8,479.08	7,248.42	30.78	25.81	-57.91	122.66	-681.61	216.69	165.40	51.28	4.225	
8,700.00	7,363.84	8,579.08	7,248.47	31.54	27.08	-57.87	122.81	-781.61	216.93	163.87	53.06	4.088	
8,800.00	7,364.15	8,679.08	7,248.52	32.37	28.39	-57.83	122.95	-881.61	217.17	162.23	54.93	3.953	
8,900.00	7,364.46	8,779.08	7,248.58	33.27	29.73	-57.79	123.10	-981.61	217.41	160.51	56.89	3.821	
9,000.00	7,364.76	8,879.08	7,248.63	34.22	31.11	-57.75	123.25	-1,081.61	217.64	158.71	58.94	3.693	
9,100.00	7,365.07	8,979.08	7,248.68	35.23	32.51	-57.71	123.40	-1,181.61	217.88	156.83	61.05	3.569	
9,200.00	7,365.38	9,079.08	7,248.73	36.29	33.94	-57.67	123.54	-1,281.61	218.12	154.89	63.23	3.450	
9,300.00	7,365.68	9,179.08	7,248.78	37.39	35.39	-57.63	123.69	-1,381.61	218.36	152.90	65.47	3.335	
9,400.00	7,365.99	9,279.08	7,248.83	38.53	36.86	-57.59	123.84	-1,481.61	218.60	150.84	67.76	3.226	
9,500.00	7,366.30	9,379.08	7,248.88	39.71	38.34	-57.55	123.99	-1,581.61	218.84	148.75	70.10	3.122	
9,600.00	7,366.60	9,479.08	7,248.93	40.92	39.84	-57.51	124.13	-1,681.61	219.08	146.60	72.48	3.023	
9,700.00	7,366.91	9,579.08	7,248.99	42.17	41.35	-57.47	124.28	-1,781.61	219.32	144.42	74.90	2.928	
9,800.00	7,367.22	9,679.08	7,249.04	43.44	42.88	-57.43	124.43	-1,881.61	219.56	142.21	77.36	2.838	
9,900.00	7,367.53	9,779.08	7,249.09	44.74	44.41	-57.40	124.58	-1,981.61	219.80	139.96	79.84	2.753	
10,000.00	7,367.83	9,879.08	7,249.14	46.07	45.96	-57.36	124.72	-2,081.60	220.04	137.69	82.36	2.672	
10,100.00	7,368.14	9,979.08	7,249.19	47.41	47.51	-57.32	124.87	-2,181.60	220.29	135.38	84.90	2.595	
10,200.00	7,368.45	10,079.08	7,249.24	48.78	49.07	-57.28	125.02	-2,281.60	220.53	133.06	87.47	2.521	
10,300.00	7,368.75	10,179.08	7,249.29	50.17	50.64	-57.24	125.17	-2,381.60	220.77	130.71	90.05	2.451	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	7,369.06	10,279.08	7,249.34	51.57	52.22	-57.20	125.31	-2,481.60	221.01	128.35	92.66	2.385	
10,500.00	7,369.37	10,379.08	7,249.39	52.99	53.80	-57.16	125.46	-2,581.60	221.25	125.96	95.29	2.322	
10,600.00	7,369.68	10,479.08	7,249.45	54.42	55.38	-57.12	125.61	-2,681.60	221.49	123.56	97.93	2.262	
10,700.00	7,369.98	10,579.08	7,249.50	55.86	56.97	-57.09	125.76	-2,781.60	221.73	121.15	100.58	2.204	
10,800.00	7,370.29	10,679.07	7,249.55	57.32	58.57	-57.05	125.90	-2,881.60	221.97	118.72	103.25	2.150	
10,900.00	7,370.60	10,779.07	7,249.60	58.79	60.17	-57.01	126.05	-2,981.60	222.21	116.28	105.94	2.098	
11,000.00	7,370.90	10,879.07	7,249.65	60.27	61.77	-56.97	126.20	-3,081.60	222.46	113.83	108.63	2.048	
11,100.00	7,371.21	10,979.07	7,249.70	61.76	63.38	-56.93	126.35	-3,181.60	222.70	111.36	111.33	2.000	
11,200.00	7,371.52	11,079.07	7,249.75	63.26	64.99	-56.89	126.49	-3,281.60	222.94	108.89	114.05	1.955	
11,300.00	7,371.82	11,179.07	7,249.80	64.76	66.60	-56.86	126.64	-3,381.60	223.18	106.41	116.77	1.911	
11,400.00	7,372.13	11,279.07	7,249.86	66.28	68.22	-56.82	126.79	-3,481.60	223.42	103.92	119.50	1.870	
11,500.00	7,372.44	11,379.07	7,249.91	67.80	69.84	-56.78	126.94	-3,581.60	223.66	101.43	122.24	1.830	
11,600.00	7,372.75	11,479.07	7,249.96	69.33	71.46	-56.74	127.08	-3,681.60	223.91	98.93	124.98	1.792	
11,700.00	7,373.05	11,579.07	7,250.01	70.87	73.08	-56.71	127.23	-3,781.60	224.15	96.42	127.73	1.755	
11,800.00	7,373.36	11,679.07	7,250.06	72.41	74.71	-56.67	127.38	-3,881.60	224.39	93.90	130.49	1.720	
11,900.00	7,373.67	11,779.07	7,250.11	73.96	76.33	-56.63	127.53	-3,981.59	224.63	91.38	133.25	1.686	
12,000.00	7,373.97	11,879.07	7,250.16	75.51	77.96	-56.59	127.67	-4,081.59	224.88	88.86	136.02	1.653	
12,100.00	7,374.28	11,979.07	7,250.21	77.07	79.60	-56.56	127.82	-4,181.59	225.12	86.33	138.79	1.622	
12,200.00	7,374.59	12,079.07	7,250.27	78.63	81.23	-56.52	127.97	-4,281.59	225.36	83.80	141.56	1.592	
12,300.00	7,374.90	12,179.07	7,250.32	80.20	82.86	-56.48	128.12	-4,381.59	225.60	81.26	144.34	1.563	
12,400.00	7,375.20	12,279.07	7,250.37	81.77	84.50	-56.44	128.26	-4,481.59	225.85	78.72	147.13	1.535	
12,500.00	7,375.51	12,379.07	7,250.42	83.34	86.14	-56.41	128.41	-4,581.59	226.09	76.18	149.91	1.508	
12,600.00	7,375.82	12,479.07	7,250.47	84.92	87.77	-56.37	128.56	-4,681.59	226.33	73.63	152.70	1.482 Level 3	
12,700.00	7,376.12	12,579.07	7,250.52	86.50	89.41	-56.33	128.71	-4,781.59	226.58	71.08	155.49	1.457 Level 3	
12,800.00	7,376.43	12,679.07	7,250.57	88.09	91.06	-56.30	128.85	-4,881.59	226.82	68.53	158.29	1.433 Level 3	
12,900.00	7,376.74	12,779.07	7,250.62	89.68	92.70	-56.26	129.00	-4,981.59	227.06	65.98	161.08	1.410 Level 3	
13,000.00	7,377.04	12,879.07	7,250.67	91.27	94.34	-56.22	129.15	-5,081.59	227.31	63.42	163.88	1.387 Level 3	
13,100.00	7,377.35	12,979.07	7,250.73	92.86	95.98	-56.19	129.30	-5,181.59	227.55	60.87	166.68	1.365 Level 3	
13,200.00	7,377.66	13,079.07	7,250.78	94.46	97.63	-56.15	129.44	-5,281.59	227.79	58.31	169.48	1.344 Level 3	
13,300.00	7,377.97	13,179.06	7,250.83	96.06	99.28	-56.11	129.59	-5,381.59	228.04	55.75	172.29	1.324 Level 3	
13,400.00	7,378.27	13,279.06	7,250.88	97.66	100.92	-56.08	129.74	-5,481.59	228.28	53.19	175.09	1.304 Level 3	
13,500.00	7,378.58	13,379.06	7,250.93	99.27	102.57	-56.04	129.89	-5,581.59	228.52	50.62	177.90	1.285 Level 3	
13,600.00	7,378.89	13,479.06	7,250.98	100.87	104.22	-56.01	130.03	-5,681.59	228.77	48.06	180.71	1.266 Level 3	
13,700.00	7,379.19	13,579.06	7,251.03	102.48	105.87	-55.97	130.18	-5,781.59	229.01	45.50	183.52	1.248 Level 2	
13,800.00	7,379.50	13,679.06	7,251.08	104.09	107.52	-55.93	130.33	-5,881.58	229.26	42.93	186.33	1.230 Level 2	
13,900.00	7,379.81	13,779.06	7,251.14	105.71	109.17	-55.90	130.48	-5,981.58	229.50	40.36	189.14	1.213 Level 2	
14,000.00	7,380.12	13,879.06	7,251.19	107.32	110.82	-55.86	130.62	-6,081.58	229.74	37.80	191.95	1.197 Level 2	
14,100.00	7,380.42	13,979.06	7,251.24	108.94	112.47	-55.83	130.77	-6,181.58	229.99	35.23	194.76	1.181 Level 2	
14,200.00	7,380.73	14,079.06	7,251.29	110.55	114.12	-55.79	130.92	-6,281.58	230.23	32.66	197.57	1.165 Level 2	
14,300.00	7,381.04	14,179.06	7,251.34	112.17	115.78	-55.76	131.07	-6,381.58	230.48	30.10	200.38	1.150 Level 2	
14,400.00	7,381.34	14,279.06	7,251.39	113.79	117.43	-55.72	131.21	-6,481.58	230.72	27.53	203.20	1.135 Level 2	
14,500.00	7,381.65	14,379.06	7,251.44	115.42	119.08	-55.68	131.36	-6,581.58	230.97	24.96	206.01	1.121 Level 2	
14,600.00	7,381.96	14,479.06	7,251.49	117.04	120.74	-55.65	131.51	-6,681.58	231.21	22.39	208.82	1.107 Level 2	
14,700.00	7,382.27	14,579.06	7,251.54	118.66	122.39	-55.61	131.65	-6,781.58	231.46	19.82	211.64	1.094 Level 2	
14,800.00	7,382.57	14,679.06	7,251.60	120.29	124.05	-55.58	131.80	-6,881.58	231.70	17.25	214.45	1.080 Level 2	
14,900.00	7,382.88	14,779.06	7,251.65	121.92	125.70	-55.54	131.95	-6,981.58	231.95	14.68	217.26	1.068 Level 2	
15,000.00	7,383.19	14,879.06	7,251.70	123.55	127.36	-55.51	132.10	-7,081.58	232.19	12.12	220.08	1.055 Level 2	
15,100.00	7,383.49	14,979.06	7,251.75	125.18	129.02	-55.47	132.24	-7,181.58	232.44	9.55	222.89	1.043 Level 2	
15,200.00	7,383.80	15,079.06	7,251.80	126.81	130.67	-55.44	132.39	-7,281.58	232.68	6.98	225.70	1.031 Level 2	
15,300.00	7,384.11	15,179.06	7,251.85	128.44	132.33	-55.40	132.54	-7,381.58	232.93	4.41	228.52	1.019 Level 2	
15,400.00	7,384.41	15,279.06	7,251.90	130.07	133.99	-55.37	132.69	-7,481.58	233.17	1.85	231.33	1.008 Level 2	
15,500.00	7,384.72	15,379.06	7,251.95	131.71	135.65	-55.33	132.83	-7,581.58	233.42	-0.72	234.14	0.997 Level 1	



Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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
15,590.73	7,385.00	15,469.78	7,252.00	133.19	137.15	-55.30	132.97	-7,672.30	233.64	-3.05	236.69	0.987	Level 1, ES, SF

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	179.65	-179.96	1.11	179.97				
100.00	100.00	100.00	100.00	3.28	3.28	179.65	-179.96	1.11	179.97	172.44	7.53	23.903	
200.00	200.00	200.00	200.00	3.31	3.31	179.65	-179.96	1.11	179.97	172.39	7.57	23.761	CC, ES, SF
300.00	299.98	295.11	295.09	3.35	3.34	109.16	-181.24	2.04	181.88	174.23	7.65	23.763	
400.00	399.84	389.99	389.85	3.42	3.40	109.64	-185.05	4.83	187.64	179.87	7.77	24.146	
500.00	499.45	484.42	483.95	3.51	3.48	110.37	-191.36	9.43	197.24	189.31	7.93	24.866	
600.00	598.72	578.17	577.08	3.63	3.58	111.30	-200.10	15.80	210.67	202.52	8.14	25.869	
700.00	697.87	671.28	669.15	3.77	3.71	111.99	-211.21	23.90	227.00	218.60	8.40	27.030	
800.00	797.03	763.62	759.99	3.94	3.88	112.13	-224.61	33.68	245.80	237.11	8.69	28.270	
900.00	896.19	859.69	854.06	4.13	4.10	111.93	-240.39	45.18	266.42	257.37	9.05	29.431	
1,000.00	995.34	957.52	949.82	4.34	4.35	111.74	-256.56	56.97	287.15	277.69	9.46	30.358	
1,100.00	1,094.50	1,055.34	1,045.57	4.56	4.63	111.57	-272.72	68.76	307.88	297.98	9.90	31.100	
1,200.00	1,193.65	1,153.17	1,141.33	4.80	4.92	111.43	-288.88	80.54	328.61	318.24	10.37	31.688	
1,300.00	1,292.81	1,250.99	1,237.09	5.05	5.24	111.30	-305.05	92.33	349.34	338.47	10.87	32.148	
1,400.00	1,391.97	1,348.82	1,332.85	5.31	5.57	111.18	-321.21	104.12	370.07	358.69	11.39	32.505	
1,500.00	1,491.12	1,446.64	1,428.60	5.57	5.91	111.08	-337.38	115.90	390.81	378.89	11.92	32.786	
1,600.00	1,590.28	1,544.47	1,524.36	5.85	6.27	110.99	-353.54	127.69	411.54	399.07	12.47	32.995	
1,700.00	1,689.43	1,642.29	1,620.12	6.13	6.63	110.91	-369.70	139.48	432.28	419.24	13.04	33.152	
1,800.00	1,788.59	1,740.12	1,715.88	6.41	7.00	110.84	-385.87	151.26	453.02	439.40	13.62	33.267	
1,900.00	1,887.75	1,837.94	1,811.63	6.70	7.30	110.77	-402.03	163.05	473.75	459.99	13.77	34.407	
2,000.00	1,986.90	1,935.77	1,907.39	7.00	7.45	110.70	-418.19	174.84	494.49	480.32	14.17	34.901	
2,100.00	2,086.06	2,033.59	2,003.15	7.30	7.51	110.65	-434.36	186.62	515.23	500.74	14.49	35.552	
2,200.00	2,185.21	2,131.41	2,098.90	7.60	7.58	110.59	-450.52	198.41	535.97	521.14	14.84	36.127	
2,300.00	2,284.37	2,229.24	2,194.66	7.90	7.67	110.54	-466.68	210.20	556.71	541.51	15.20	36.631	
2,400.00	2,383.52	2,327.06	2,290.42	8.21	7.77	110.50	-482.85	221.98	577.45	561.87	15.58	37.068	
2,500.00	2,482.68	2,424.89	2,386.18	8.52	7.89	110.46	-499.01	233.77	598.19	582.22	15.98	37.443	
2,600.00	2,581.84	2,522.71	2,481.93	8.83	8.03	110.42	-515.18	245.56	618.93	602.54	16.39	37.763	
2,700.00	2,680.99	2,620.54	2,577.69	9.14	8.18	110.38	-531.34	257.34	639.67	622.85	16.82	38.032	
2,800.00	2,780.15	2,718.36	2,673.45	9.45	8.34	110.35	-547.50	269.13	660.42	643.15	17.26	38.255	
2,900.00	2,879.30	2,816.19	2,769.21	9.77	8.52	110.31	-563.67	280.92	681.16	663.44	17.72	38.437	
3,000.00	2,978.46	2,914.01	2,864.96	10.09	8.70	110.28	-579.83	292.70	701.90	683.71	18.19	38.582	
3,100.00	3,077.62	3,011.84	2,960.72	10.41	8.90	110.25	-595.99	304.49	722.64	703.97	18.68	38.695	
3,200.00	3,176.77	3,109.66	3,056.48	10.73	9.11	110.23	-612.16	316.28	743.38	724.21	19.17	38.779	
3,300.00	3,275.93	3,207.48	3,152.23	11.05	9.33	110.20	-628.32	328.06	764.12	744.45	19.67	38.838	
3,400.00	3,375.08	3,305.31	3,247.99	11.37	9.56	110.18	-644.48	339.85	784.87	764.68	20.19	38.876	
3,500.00	3,474.24	3,403.13	3,343.75	11.69	9.80	110.15	-660.65	351.64	805.61	784.90	20.71	38.894	
3,600.00	3,573.39	3,500.96	3,439.51	12.01	10.04	110.13	-676.81	363.42	826.35	805.11	21.25	38.896	
3,700.00	3,672.55	3,601.22	3,535.26	12.34	10.30	110.11	-692.98	375.21	847.10	825.30	21.79	38.874	
3,800.00	3,771.71	3,703.39	3,631.02	12.66	10.57	110.09	-709.14	387.00	867.84	845.49	22.35	38.831	
3,900.00	3,870.86	3,805.57	3,726.78	12.99	10.85	110.07	-725.30	398.78	888.58	865.67	22.91	38.779	
4,000.00	3,970.02	3,907.74	3,822.54	13.31	11.14	110.05	-741.47	410.57	909.32	885.84	23.49	38.718	
4,100.00	4,069.17	4,009.92	3,918.29	13.64	11.43	110.04	-757.63	422.36	930.07	906.00	24.06	38.649	
4,200.00	4,168.33	4,087.91	4,014.05	13.97	11.65	110.02	-773.79	434.14	950.81	926.23	24.59	38.674	
4,300.00	4,267.49	4,185.73	4,109.81	14.29	11.94	110.00	-789.96	445.93	971.55	946.39	25.16	38.612	
4,400.00	4,366.64	4,283.55	4,205.57	14.62	12.23	109.99	-806.12	457.72	992.30	966.55	25.74	38.546	
4,500.00	4,465.80	4,381.38	4,301.32	14.95	12.52	109.97	-822.28	469.50	1,013.04	986.71	26.33	38.476	
4,600.00	4,564.95	4,479.20	4,397.08	15.28	12.82	109.96	-838.45	481.29	1,033.78	1,006.87	26.92	38.404	
4,700.00	4,664.11	4,577.03	4,492.84	15.61	13.12	109.95	-854.61	493.08	1,054.53	1,027.02	27.51	38.329	
4,800.00	4,763.26	4,674.85	4,588.59	15.94	13.43	109.93	-870.77	504.86	1,075.27	1,047.16	28.11	38.253	
4,900.00	4,862.42	4,772.68	4,684.35	16.27	13.74	109.92	-886.94	516.65	1,096.02	1,067.31	28.71	38.176	
5,000.00	4,961.58	4,870.50	4,780.11	16.60	14.05	109.91	-903.10	528.44	1,116.76	1,087.45	29.31	38.097	
5,100.00	5,060.73	4,968.33	4,875.87	16.93	14.36	109.90	-919.27	540.22	1,137.50	1,107.58	29.92	38.018	

Hewlett-Packard  
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 30C-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 30C-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							
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	5,159.89	5,066.15	4,971.62	17.26	14.68	109.89	-935.43	552.01	1,158.25	1,127.72	30.53	37.939	
5,300.00	5,259.04	5,163.98	5,067.38	17.59	15.00	109.88	-951.59	563.80	1,178.99	1,147.85	31.14	37.860	
5,400.00	5,358.20	5,261.80	5,163.14	17.92	15.32	109.86	-967.76	575.58	1,199.73	1,167.98	31.75	37.781	

# Hewlett-Packard

## Anticollision Report

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

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-199.99	1.11	200.00				
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-199.99	1.11	200.00	192.47	7.53	26.564	
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-199.99	1.11	200.00	192.42	7.57	26.406 CC, ES	
300.00	299.98	294.44	294.43	3.35	3.34	109.19	-201.29	1.97	201.95	194.29	7.65	26.385 SF	
400.00	399.84	388.65	388.51	3.42	3.40	109.66	-205.17	4.55	207.80	200.03	7.77	26.746	
500.00	499.45	482.37	481.91	3.51	3.48	110.38	-211.58	8.80	217.57	209.64	7.93	27.439	
600.00	598.72	575.40	574.33	3.63	3.57	111.31	-220.46	14.69	231.23	223.10	8.14	28.412	
700.00	697.87	667.76	665.68	3.77	3.71	112.06	-231.75	22.17	247.88	239.49	8.39	29.547	
800.00	797.03	759.33	755.79	3.94	3.87	112.32	-245.36	31.20	267.06	258.38	8.68	30.761	
900.00	896.19	850.11	844.55	4.13	4.08	112.19	-261.21	41.71	288.73	279.72	9.01	32.037	
1,000.00	995.34	947.46	939.41	4.34	4.34	111.91	-279.40	53.77	311.58	302.17	9.42	33.082	
1,100.00	1,094.50	1,044.80	1,034.27	4.56	4.62	111.66	-297.59	65.84	334.44	324.58	9.86	33.919	
1,200.00	1,193.65	1,142.14	1,129.14	4.80	4.94	111.44	-315.79	77.90	357.30	346.97	10.33	34.581	
1,300.00	1,292.81	1,239.49	1,224.00	5.05	5.27	111.25	-333.98	89.97	380.17	369.34	10.83	35.099	
1,400.00	1,391.97	1,336.83	1,318.87	5.31	5.62	111.08	-352.18	102.03	403.04	391.68	11.35	35.497	
1,500.00	1,491.12	1,434.17	1,413.73	5.57	5.98	110.93	-370.37	114.10	425.91	414.02	11.89	35.814	
1,600.00	1,590.28	1,531.52	1,508.59	5.85	6.35	110.80	-388.57	126.16	448.79	436.34	12.45	36.048	
1,700.00	1,689.43	1,628.86	1,603.46	6.13	6.73	110.67	-406.76	138.23	471.66	458.64	13.02	36.223	
1,800.00	1,788.59	1,726.20	1,698.32	6.41	7.12	110.56	-424.95	150.30	494.54	480.94	13.60	36.351	
1,900.00	1,887.75	1,823.55	1,793.18	6.70	7.47	110.46	-443.15	162.36	517.42	503.47	13.95	37.080	
2,000.00	1,986.90	1,920.89	1,888.05	7.00	7.66	110.37	-461.34	174.43	540.30	526.10	14.20	38.040	
2,100.00	2,086.06	2,018.23	1,982.91	7.30	7.71	110.28	-479.54	186.49	563.19	548.66	14.52	38.776	
2,200.00	2,185.21	2,115.58	2,077.78	7.60	7.79	110.21	-497.73	198.56	586.07	571.21	14.86	39.426	
2,300.00	2,284.37	2,212.92	2,172.64	7.90	7.88	110.13	-515.93	210.62	608.96	593.73	15.23	39.996	
2,400.00	2,383.52	2,310.26	2,267.50	8.21	7.99	110.07	-534.12	222.69	631.84	616.24	15.60	40.491	
2,500.00	2,482.68	2,407.61	2,362.37	8.52	8.12	110.00	-552.31	234.75	654.73	638.73	16.00	40.920	
2,600.00	2,581.84	2,504.95	2,457.23	8.83	8.26	109.95	-570.51	246.82	677.62	661.20	16.42	41.279	
2,700.00	2,680.99	2,602.29	2,552.09	9.14	8.42	109.89	-588.70	258.88	700.50	683.66	16.85	41.583	
2,800.00	2,780.15	2,700.36	2,646.96	9.45	8.59	109.84	-606.90	270.95	723.39	706.10	17.29	41.833	
2,900.00	2,879.30	2,803.02	2,741.82	9.77	8.79	109.79	-625.09	283.01	746.28	728.52	17.76	42.017	
3,000.00	2,978.46	2,905.68	2,836.69	10.09	9.00	109.75	-643.29	295.08	769.17	750.93	18.24	42.158	
3,100.00	3,077.62	3,008.33	2,931.55	10.41	9.22	109.70	-661.48	307.15	792.06	773.32	18.74	42.261	
3,200.00	3,176.77	3,089.01	3,026.41	10.73	9.40	109.66	-679.67	319.21	814.95	795.74	19.21	42.427	
3,300.00	3,275.93	3,186.35	3,121.28	11.05	9.63	109.63	-697.87	331.28	837.84	818.13	19.72	42.494	
3,400.00	3,375.08	3,283.70	3,216.14	11.37	9.87	109.59	-716.06	343.34	860.73	840.50	20.24	42.536	
3,500.00	3,474.24	3,381.04	3,311.00	11.69	10.12	109.56	-734.26	355.41	883.62	862.86	20.76	42.557	
3,600.00	3,573.39	3,478.38	3,405.87	12.01	10.38	109.52	-752.45	367.47	906.52	885.22	21.30	42.559	
3,700.00	3,672.55	3,575.73	3,500.73	12.34	10.64	109.49	-770.65	379.54	929.41	907.56	21.84	42.546	
3,800.00	3,771.71	3,673.07	3,595.59	12.66	10.91	109.46	-788.84	391.60	952.30	929.90	22.40	42.519	
3,900.00	3,870.86	3,770.41	3,690.46	12.99	11.19	109.44	-807.03	403.67	975.19	952.24	22.96	42.481	
4,000.00	3,970.02	3,867.76	3,785.32	13.31	11.47	109.41	-825.23	415.73	998.09	974.56	23.52	42.432	
4,100.00	4,069.17	3,965.10	3,880.19	13.64	11.76	109.38	-843.42	427.80	1,020.98	996.88	24.09	42.376	
4,200.00	4,168.33	4,062.44	3,975.05	13.97	12.05	109.36	-861.62	439.86	1,043.87	1,019.20	24.67	42.313	
4,300.00	4,267.49	4,159.79	4,069.91	14.29	12.35	109.34	-879.81	451.93	1,066.76	1,041.51	25.25	42.243	
4,400.00	4,366.64	4,257.13	4,164.78	14.62	12.66	109.31	-898.01	463.99	1,089.66	1,063.82	25.84	42.170	
4,500.00	4,465.80	4,354.47	4,259.64	14.95	12.97	109.29	-916.20	476.06	1,112.55	1,086.12	26.43	42.092	
4,600.00	4,564.95	4,451.82	4,354.50	15.28	13.28	109.27	-934.39	488.13	1,135.44	1,108.42	27.03	42.011	
4,700.00	4,664.11	4,549.16	4,449.37	15.61	13.59	109.25	-952.59	500.19	1,158.34	1,130.71	27.63	41.928	
4,800.00	4,763.26	4,646.50	4,544.23	15.94	13.91	109.23	-970.78	512.26	1,181.23	1,153.00	28.23	41.843	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	179.70	-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	CC, ES, SF
300.00	299.98	296.08	296.06	3.35	3.34	109.19	-161.08	1.95	161.71	154.06	7.66	21.125	
400.00	399.84	391.96	391.82	3.42	3.40	109.57	-164.56	5.29	167.07	159.30	7.77	21.492	
500.00	499.45	487.46	486.98	3.51	3.48	110.15	-170.32	10.81	176.01	168.07	7.94	22.172	
600.00	598.72	582.40	581.26	3.63	3.59	110.89	-178.31	18.47	188.48	180.32	8.16	23.111	
700.00	697.87	676.77	674.57	3.77	3.72	111.27	-188.49	28.23	203.57	195.16	8.42	24.185	
800.00	797.03	773.54	769.84	3.94	3.90	111.11	-200.76	40.00	220.49	211.75	8.74	25.238	
900.00	896.19	872.07	866.80	4.13	4.12	110.93	-213.41	52.13	237.57	228.46	9.11	26.086	
1,000.00	995.34	970.60	963.75	4.34	4.35	110.77	-226.07	64.27	254.65	245.13	9.52	26.760	
1,100.00	1,094.50	1,069.13	1,060.71	4.56	4.62	110.64	-238.72	76.40	271.73	261.77	9.96	27.287	
1,200.00	1,193.65	1,167.66	1,157.66	4.80	4.89	110.52	-251.38	88.54	288.81	278.38	10.43	27.694	
1,300.00	1,292.81	1,266.19	1,254.62	5.05	5.19	110.41	-264.03	100.67	305.90	294.97	10.92	28.003	
1,400.00	1,391.97	1,364.71	1,351.58	5.31	5.49	110.32	-276.69	112.81	322.98	311.54	11.44	28.233	
1,500.00	1,491.12	1,463.24	1,448.53	5.57	5.81	110.23	-289.34	124.94	340.07	328.10	11.97	28.403	
1,600.00	1,590.28	1,561.77	1,545.49	5.85	6.14	110.15	-301.99	137.08	357.15	344.63	12.52	28.521	
1,700.00	1,689.43	1,660.30	1,642.44	6.13	6.47	110.08	-314.65	149.21	374.24	361.16	13.09	28.600	
1,800.00	1,788.59	1,758.83	1,739.40	6.41	6.81	110.02	-327.30	161.35	391.33	377.67	13.66	28.649	
1,900.00	1,887.75	1,857.36	1,836.35	6.70	7.07	109.96	-339.96	173.48	408.42	394.64	13.78	29.638	
2,000.00	1,986.90	1,955.88	1,933.31	7.00	7.17	109.91	-352.61	185.62	425.51	411.35	14.15	30.064	
2,100.00	2,086.06	2,054.41	2,030.27	7.30	7.22	109.86	-365.27	197.75	442.59	428.11	14.48	30.561	
2,200.00	2,185.21	2,152.94	2,127.22	7.60	7.29	109.81	-377.92	209.89	459.68	444.85	14.83	30.997	
2,300.00	2,284.37	2,251.47	2,224.18	7.90	7.37	109.77	-390.57	222.02	476.77	461.58	15.20	31.376	
2,400.00	2,383.52	2,350.00	2,321.13	8.21	7.47	109.73	-403.23	234.16	493.86	478.28	15.58	31.702	
2,500.00	2,482.68	2,448.53	2,418.09	8.52	7.58	109.69	-415.88	246.29	510.95	494.97	15.98	31.979	
2,600.00	2,581.84	2,547.05	2,515.05	8.83	7.71	109.66	-428.54	258.43	528.04	511.65	16.39	32.212	
2,700.00	2,680.99	2,645.58	2,612.00	9.14	7.85	109.62	-441.19	270.56	545.13	528.31	16.82	32.405	
2,800.00	2,780.15	2,744.11	2,708.96	9.45	8.00	109.59	-453.85	282.70	562.22	544.96	17.27	32.562	
2,900.00	2,879.30	2,842.64	2,805.91	9.77	8.17	109.56	-466.50	294.83	579.31	561.59	17.72	32.687	
3,000.00	2,978.46	2,941.17	2,902.87	10.09	8.34	109.54	-479.15	306.97	596.40	578.21	18.19	32.783	
3,100.00	3,077.62	3,039.70	2,999.83	10.41	8.53	109.51	-491.81	319.10	613.50	594.82	18.67	32.855	
3,200.00	3,176.77	3,138.22	3,096.78	10.73	8.73	109.49	-504.46	331.24	630.59	611.42	19.16	32.904	
3,300.00	3,275.93	3,236.75	3,193.74	11.05	8.94	109.46	-517.12	343.37	647.68	628.01	19.67	32.933	
3,400.00	3,375.08	3,335.28	3,290.69	11.37	9.15	109.44	-529.77	355.51	664.77	644.59	20.18	32.946	
3,500.00	3,474.24	3,433.81	3,387.65	11.69	9.37	109.42	-542.42	367.64	681.86	661.16	20.70	32.945	
3,600.00	3,573.39	3,532.34	3,484.61	12.01	9.60	109.40	-555.08	379.78	698.95	677.73	21.22	32.931	
3,700.00	3,672.55	3,630.87	3,581.56	12.34	9.84	109.38	-567.73	391.91	716.04	694.28	21.76	32.906	
3,800.00	3,771.71	3,729.39	3,678.52	12.66	10.09	109.36	-580.39	404.05	733.13	710.83	22.30	32.872	
3,900.00	3,870.86	3,827.92	3,775.47	12.99	10.33	109.35	-593.04	416.18	750.22	727.37	22.85	32.830	
4,000.00	3,970.02	3,926.45	3,872.43	13.31	10.59	109.33	-605.70	428.32	767.32	743.91	23.41	32.782	
4,100.00	4,069.17	4,024.98	3,969.38	13.64	10.85	109.32	-618.35	440.45	784.41	760.44	23.97	32.728	
4,200.00	4,168.33	4,123.51	4,066.34	13.97	11.12	109.30	-631.00	452.59	801.50	776.97	24.53	32.670	
4,300.00	4,267.49	4,222.04	4,163.30	14.29	11.39	109.29	-643.66	464.72	818.59	793.49	25.10	32.608	
4,400.00	4,366.64	4,320.56	4,260.25	14.62	11.66	109.27	-656.31	476.86	835.68	810.00	25.68	32.543	
4,500.00	4,465.80	4,419.09	4,357.21	14.95	11.94	109.26	-668.97	488.99	852.77	826.52	26.26	32.476	
4,600.00	4,564.95	4,517.62	4,454.16	15.28	12.22	109.25	-681.62	501.13	869.87	843.02	26.84	32.407	
4,700.00	4,664.11	4,616.15	4,551.12	15.61	12.51	109.23	-694.28	513.26	886.96	859.53	27.43	32.336	
4,800.00	4,763.26	4,714.68	4,648.08	15.94	12.80	109.22	-706.93	525.40	904.05	876.03	28.02	32.265	
4,900.00	4,862.42	4,813.21	4,745.03	16.27	13.09	109.21	-719.58	537.53	921.14	892.53	28.61	32.192	
5,000.00	4,961.58	4,911.73	4,841.99	16.60	13.38	109.20	-732.24	549.67	938.23	909.02	29.21	32.120	
5,100.00	5,060.73	5,010.26	4,938.94	16.93	13.68	109.19	-744.89	561.80	955.33	925.52	29.81	32.047	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												<b>Offset Well Error:</b>	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	5,159.89	5,108.79	5,035.90	17.26	13.98	109.18	-757.55	573.94	972.42	942.01	30.41	31.975	
5,300.00	5,259.04	5,207.32	5,132.86	17.59	14.28	109.17	-770.20	586.07	989.51	958.49	31.02	31.902	
5,400.00	5,358.20	5,305.85	5,229.81	17.92	14.58	109.16	-782.86	598.21	1,006.60	974.98	31.62	31.830	
5,500.00	5,457.36	5,404.38	5,326.77	18.25	14.89	109.15	-795.51	610.34	1,023.69	991.46	32.23	31.759	
5,600.00	5,556.51	5,502.90	5,423.72	18.58	15.19	109.14	-808.16	622.48	1,040.79	1,007.94	32.84	31.688	
5,700.00	5,655.67	5,601.43	5,520.68	18.91	15.50	109.13	-820.82	634.61	1,057.88	1,024.42	33.46	31.618	
5,800.00	5,754.82	5,700.04	5,617.64	19.24	15.81	109.13	-833.47	646.75	1,074.97	1,040.90	34.07	31.549	
5,900.00	5,853.98	5,801.51	5,714.59	19.58	16.14	109.12	-846.13	658.88	1,092.06	1,057.36	34.70	31.473	
6,000.00	5,953.13	5,902.98	5,811.55	19.91	16.46	109.11	-858.78	671.02	1,109.16	1,073.83	35.33	31.398	
6,100.00	6,052.29	6,004.45	5,908.50	20.24	16.78	109.10	-871.44	683.15	1,126.25	1,090.29	35.95	31.324	
6,200.00	6,151.45	6,105.93	6,005.46	20.57	17.11	109.10	-884.09	695.29	1,143.34	1,106.75	36.59	31.251	
6,300.00	6,250.60	6,192.60	6,102.41	20.90	17.39	109.09	-896.74	707.42	1,160.43	1,123.26	37.17	31.217	
6,400.00	6,349.76	6,308.87	6,199.37	21.24	17.77	109.08	-909.40	719.56	1,177.52	1,139.67	37.85	31.110	
6,500.00	6,448.91	6,389.66	6,296.33	21.57	18.03	109.08	-922.05	731.69	1,194.62	1,156.19	38.42	31.092	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-137.21	-161.01	-149.06	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-137.21	-161.01	-149.06	219.42	211.89	7.53	29.143	
200.00	200.00	201.00	201.00	3.31	3.31	-137.21	-161.01	-149.06	219.42	211.84	7.57	28.969	CC, ES, SF
300.00	299.98	295.21	295.19	3.35	3.34	152.06	-162.59	-149.18	222.27	214.62	7.65	29.038	
400.00	399.84	389.03	388.89	3.42	3.40	151.83	-167.23	-149.52	230.78	223.00	7.77	29.685	
500.00	499.45	481.96	481.50	3.51	3.47	151.48	-174.84	-150.10	244.88	236.94	7.94	30.848	
600.00	598.72	574.48	573.42	3.63	3.57	151.09	-185.36	-150.89	264.38	256.23	8.15	32.435	
700.00	697.87	672.20	670.36	3.77	3.70	150.80	-197.62	-151.81	285.60	277.20	8.40	33.989	
800.00	797.03	769.91	767.29	3.94	3.86	150.55	-209.88	-152.73	306.83	298.13	8.69	35.291	
900.00	896.19	867.62	864.23	4.13	4.04	150.33	-222.15	-153.65	328.06	319.04	9.02	36.363	
1,000.00	995.34	965.34	961.17	4.34	4.23	150.14	-234.41	-154.58	349.29	339.91	9.38	37.233	
1,100.00	1,094.50	1,063.05	1,058.10	4.56	4.45	149.97	-246.67	-155.50	370.53	360.76	9.77	37.931	
1,200.00	1,193.65	1,160.76	1,155.04	4.80	4.68	149.82	-258.93	-156.42	391.78	381.59	10.18	38.483	
1,300.00	1,292.81	1,258.47	1,251.97	5.05	4.92	149.68	-271.20	-157.34	413.02	402.41	10.61	38.915	
1,400.00	1,391.97	1,356.19	1,348.91	5.31	5.17	149.56	-283.46	-158.26	434.27	423.20	11.07	39.246	
1,500.00	1,491.12	1,453.90	1,445.85	5.57	5.43	149.45	-295.72	-159.19	455.51	443.98	11.53	39.499	
1,600.00	1,590.28	1,551.61	1,542.78	5.85	5.70	149.34	-307.99	-160.11	476.76	464.75	12.01	39.683	
1,700.00	1,689.43	1,649.33	1,639.72	6.13	5.97	149.25	-320.25	-161.03	498.02	485.51	12.51	39.814	
1,800.00	1,788.59	1,747.04	1,736.65	6.41	6.25	149.17	-332.51	-161.95	519.27	506.25	13.01	39.902	
1,900.00	1,887.75	1,844.75	1,833.59	6.70	6.48	149.09	-344.77	-162.87	540.52	527.43	13.09	41.290	
2,000.00	1,986.90	1,942.46	1,930.53	7.00	6.57	149.02	-357.04	-163.80	561.77	548.34	13.44	41.807	
2,100.00	2,086.06	2,040.18	2,027.46	7.30	6.61	148.95	-369.30	-164.72	583.03	569.30	13.73	42.466	
2,200.00	2,185.21	2,137.89	2,124.40	7.60	6.66	148.89	-381.56	-165.64	604.29	590.25	14.04	43.045	
2,300.00	2,284.37	2,235.60	2,221.33	7.90	6.72	148.83	-393.83	-166.56	625.54	611.18	14.36	43.549	
2,400.00	2,383.52	2,333.32	2,318.27	8.21	6.80	148.77	-406.09	-167.49	646.80	632.09	14.71	43.982	
2,500.00	2,482.68	2,431.03	2,415.21	8.52	6.89	148.72	-418.35	-168.41	668.06	652.99	15.06	44.350	
2,600.00	2,581.84	2,528.74	2,512.14	8.83	7.00	148.67	-430.61	-169.33	689.31	673.88	15.43	44.660	
2,700.00	2,680.99	2,626.45	2,609.08	9.14	7.11	148.63	-442.88	-170.25	710.57	694.75	15.82	44.915	
2,800.00	2,780.15	2,724.17	2,706.01	9.45	7.24	148.59	-455.14	-171.17	731.83	715.61	16.22	45.121	
2,900.00	2,879.30	2,821.88	2,802.95	9.77	7.38	148.55	-467.40	-172.10	753.09	736.46	16.63	45.283	
3,000.00	2,978.46	2,919.59	2,899.89	10.09	7.53	148.51	-479.66	-173.02	774.35	757.30	17.05	45.407	
3,100.00	3,077.62	3,017.31	2,996.82	10.41	7.69	148.47	-491.93	-173.94	795.61	778.12	17.49	45.495	
3,200.00	3,176.77	3,115.02	3,093.76	10.73	7.85	148.44	-504.19	-174.86	816.87	798.94	17.93	45.553	
3,300.00	3,275.93	3,212.73	3,190.69	11.05	8.03	148.41	-516.45	-175.78	838.13	819.74	18.39	45.585	
3,400.00	3,375.08	3,310.44	3,287.63	11.37	8.22	148.38	-528.72	-176.71	859.39	840.54	18.85	45.592	
3,500.00	3,474.24	3,408.16	3,384.56	11.69	8.41	148.35	-540.98	-177.63	880.65	861.33	19.32	45.580	
3,600.00	3,573.39	3,505.87	3,481.50	12.01	8.61	148.32	-553.24	-178.55	901.91	882.11	19.80	45.550	
3,700.00	3,672.55	3,603.58	3,578.44	12.34	8.82	148.29	-565.50	-179.47	923.17	902.88	20.29	45.505	
3,800.00	3,771.71	3,701.30	3,675.37	12.66	9.03	148.27	-577.77	-180.40	944.43	923.65	20.78	45.447	
3,900.00	3,870.86	3,799.01	3,772.31	12.99	9.25	148.24	-590.03	-181.32	965.69	944.41	21.28	45.378	
4,000.00	3,970.02	3,896.72	3,869.24	13.31	9.47	148.22	-602.29	-182.24	986.96	965.17	21.79	45.300	
4,100.00	4,069.17	4,005.57	3,966.18	13.64	9.72	148.20	-614.56	-183.16	1,008.22	985.89	22.32	45.164	
4,200.00	4,168.33	4,107.85	4,063.12	13.97	9.97	148.18	-626.82	-184.08	1,029.48	1,006.63	22.85	45.052	
4,300.00	4,267.49	4,189.86	4,160.05	14.29	10.17	148.16	-639.08	-185.01	1,050.74	1,027.40	23.34	45.025	
4,400.00	4,366.64	4,287.57	4,256.99	14.62	10.41	148.14	-651.34	-185.93	1,072.00	1,048.14	23.86	44.924	
4,500.00	4,465.80	4,385.29	4,353.92	14.95	10.66	148.12	-663.61	-186.85	1,093.27	1,068.87	24.39	44.819	
4,600.00	4,564.95	4,483.00	4,450.86	15.28	10.90	148.10	-675.87	-187.77	1,114.53	1,089.60	24.93	44.712	
4,700.00	4,664.11	4,580.71	4,547.80	15.61	11.16	148.08	-688.13	-188.69	1,135.79	1,110.33	25.46	44.603	
4,800.00	4,763.26	4,678.42	4,644.73	15.94	11.41	148.07	-700.40	-189.62	1,157.05	1,131.05	26.01	44.492	
4,900.00	4,862.42	4,776.14	4,741.67	16.27	11.67	148.05	-712.66	-190.54	1,178.32	1,151.77	26.55	44.381	
5,000.00	4,961.58	4,873.85	4,838.60	16.60	11.93	148.04	-724.92	-191.46	1,199.58	1,172.48	27.10	44.269	

# Hewlett-Packard

## Anticollision Report

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

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-140.59	-181.05	-148.78	234.34				
100.00	100.00	101.00	101.00	3.28	3.28	-140.59	-181.05	-148.78	234.34	226.81	7.53	31.125	
200.00	200.00	201.00	201.00	3.31	3.31	-140.59	-181.05	-148.78	234.34	226.77	7.57	30.939	CC, ES, SF
300.00	299.98	294.64	294.62	3.35	3.34	148.72	-182.61	-148.88	237.19	229.53	7.65	30.988	
400.00	399.84	387.90	387.76	3.42	3.40	148.59	-187.20	-149.17	245.65	237.88	7.77	31.604	
500.00	499.45	480.29	479.84	3.51	3.47	148.40	-194.73	-149.65	259.70	251.76	7.94	32.724	
600.00	598.72	571.42	570.38	3.63	3.57	148.20	-205.05	-150.31	279.12	270.98	8.15	34.264	
700.00	697.87	662.30	660.30	3.77	3.69	147.91	-218.18	-151.15	301.81	293.43	8.38	36.008	
800.00	797.03	759.44	756.24	3.94	3.85	147.53	-233.36	-152.12	325.47	316.80	8.68	37.515	
900.00	896.19	856.58	852.18	4.13	4.04	147.20	-248.54	-153.08	349.15	340.14	9.01	38.763	
1,000.00	995.34	953.72	948.12	4.34	4.26	146.91	-263.72	-154.05	372.83	363.46	9.37	39.780	
1,100.00	1,094.50	1,050.86	1,044.06	4.56	4.49	146.65	-278.90	-155.02	396.52	386.75	9.77	40.599	
1,200.00	1,193.65	1,148.00	1,140.00	4.80	4.74	146.42	-294.08	-155.99	420.22	410.03	10.19	41.251	
1,300.00	1,292.81	1,245.14	1,235.94	5.05	5.00	146.22	-309.27	-156.96	443.92	433.29	10.63	41.764	
1,400.00	1,391.97	1,342.27	1,331.88	5.31	5.27	146.04	-324.45	-157.93	467.63	456.54	11.09	42.161	
1,500.00	1,491.12	1,439.41	1,427.82	5.57	5.56	145.87	-339.63	-158.89	491.34	479.77	11.57	42.471	
1,600.00	1,590.28	1,536.55	1,523.77	5.85	5.85	145.72	-354.81	-159.86	515.05	502.99	12.06	42.701	
1,700.00	1,689.43	1,633.69	1,619.71	6.13	6.15	145.59	-369.99	-160.83	538.77	526.20	12.57	42.869	
1,800.00	1,788.59	1,730.83	1,715.65	6.41	6.45	145.46	-385.17	-161.80	562.49	549.41	13.08	42.989	
1,900.00	1,887.75	1,827.97	1,811.59	6.70	6.72	145.35	-400.36	-162.77	586.21	573.02	13.19	44.431	
2,000.00	1,986.90	1,925.11	1,907.53	7.00	6.86	145.24	-415.54	-163.74	609.94	596.37	13.57	44.959	
2,100.00	2,086.06	2,022.25	2,003.47	7.30	6.90	145.14	-430.72	-164.71	633.67	619.81	13.86	45.723	
2,200.00	2,185.21	2,119.39	2,099.41	7.60	6.95	145.05	-445.90	-165.67	657.39	643.23	14.17	46.396	
2,300.00	2,284.37	2,216.53	2,195.35	7.90	7.02	144.97	-461.08	-166.64	681.12	666.63	14.50	46.984	
2,400.00	2,383.52	2,313.66	2,291.29	8.21	7.11	144.89	-476.27	-167.61	704.86	690.01	14.84	47.493	
2,500.00	2,482.68	2,410.80	2,387.23	8.52	7.21	144.82	-491.45	-168.58	728.59	713.39	15.20	47.928	
2,600.00	2,581.84	2,507.94	2,483.17	8.83	7.32	144.75	-506.63	-169.55	752.32	736.74	15.58	48.296	
2,700.00	2,680.99	2,605.08	2,579.11	9.14	7.44	144.68	-521.81	-170.52	776.06	760.09	15.97	48.602	
2,800.00	2,780.15	2,702.22	2,675.05	9.45	7.58	144.62	-536.99	-171.49	799.79	783.42	16.37	48.852	
2,900.00	2,879.30	2,799.36	2,770.99	9.77	7.73	144.56	-552.17	-172.45	823.53	806.74	16.79	49.052	
3,000.00	2,978.46	2,903.50	2,866.93	10.09	7.90	144.51	-567.36	-173.42	847.26	830.04	17.23	49.176	
3,100.00	3,077.62	3,006.36	2,962.87	10.41	8.09	144.46	-582.54	-174.39	871.00	853.32	17.68	49.264	
3,200.00	3,176.77	3,090.78	3,058.81	10.73	8.24	144.41	-597.72	-175.36	894.74	876.63	18.11	49.402	
3,300.00	3,275.93	3,187.91	3,154.75	11.05	8.43	144.36	-612.90	-176.33	918.48	899.91	18.57	49.452	
3,400.00	3,375.08	3,285.05	3,250.69	11.37	8.63	144.32	-628.08	-177.30	942.22	923.17	19.04	49.475	
3,500.00	3,474.24	3,382.19	3,346.63	11.69	8.84	144.28	-643.26	-178.27	965.96	946.43	19.52	49.474	
3,600.00	3,573.39	3,479.33	3,442.57	12.01	9.05	144.24	-658.45	-179.23	989.70	969.69	20.01	49.454	
3,700.00	3,672.55	3,576.47	3,538.51	12.34	9.27	144.20	-673.63	-180.20	1,013.44	992.93	20.51	49.416	
3,800.00	3,771.71	3,673.61	3,634.45	12.66	9.50	144.16	-688.81	-181.17	1,037.18	1,016.17	21.01	49.363	
3,900.00	3,870.86	3,770.75	3,730.39	12.99	9.73	144.13	-703.99	-182.14	1,060.92	1,039.40	21.52	49.298	
4,000.00	3,970.02	3,867.89	3,826.33	13.31	9.97	144.10	-719.17	-183.11	1,084.66	1,062.63	22.04	49.222	
4,100.00	4,069.17	3,965.03	3,922.27	13.64	10.21	144.07	-734.36	-184.08	1,108.40	1,085.85	22.56	49.137	
4,200.00	4,168.33	4,062.16	4,018.21	13.97	10.46	144.04	-749.54	-185.05	1,132.15	1,109.06	23.08	49.045	
4,300.00	4,267.49	4,159.30	4,114.15	14.29	10.71	144.01	-764.72	-186.01	1,155.89	1,132.27	23.62	48.946	
4,400.00	4,366.64	4,256.44	4,210.09	14.62	10.97	143.98	-779.90	-186.98	1,179.63	1,155.48	24.15	48.843	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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	-143.50	-201.09	-148.78	250.14					
100.00	100.00	101.00	101.00	3.28	3.28	-143.50	-201.09	-148.78	250.14	242.61	7.53	33.224		
200.00	200.00	201.00	201.00	3.31	3.31	-143.50	-201.09	-148.78	250.14	242.57	7.57	33.025	CC, ES, SF	
300.00	299.98	294.06	294.05	3.35	3.34	145.83	-202.63	-148.86	252.97	245.32	7.65	33.052		
400.00	399.84	386.76	386.63	3.42	3.40	145.78	-207.16	-149.11	261.38	253.61	7.77	33.632		
500.00	499.45	478.61	478.17	3.51	3.47	145.71	-214.60	-149.51	275.34	267.40	7.93	34.706		
600.00	598.72	569.22	568.20	3.63	3.56	145.66	-224.81	-150.06	294.64	286.50	8.14	36.186		
700.00	697.87	658.68	656.72	3.77	3.69	145.55	-237.67	-150.76	317.25	308.87	8.38	37.878		
800.00	797.03	748.16	744.82	3.94	3.84	145.18	-253.26	-151.60	342.35	333.71	8.65	39.596		
900.00	896.19	844.67	839.66	4.13	4.04	144.75	-271.16	-152.57	368.40	359.42	8.98	41.025		
1,000.00	995.34	941.18	934.49	4.34	4.26	144.37	-289.05	-153.54	394.47	385.12	9.35	42.196		
1,100.00	1,094.50	1,037.69	1,029.33	4.56	4.51	144.04	-306.94	-154.51	420.55	410.80	9.75	43.140		
1,200.00	1,193.65	1,134.21	1,124.16	4.80	4.78	143.75	-324.83	-155.48	446.64	436.47	10.18	43.895		
1,300.00	1,292.81	1,230.72	1,219.00	5.05	5.06	143.49	-342.73	-156.45	472.74	462.12	10.63	44.491		
1,400.00	1,391.97	1,327.23	1,313.83	5.31	5.36	143.25	-360.62	-157.42	498.85	487.76	11.10	44.955		
1,500.00	1,491.12	1,423.74	1,408.66	5.57	5.66	143.04	-378.51	-158.39	524.97	513.39	11.58	45.323		
1,600.00	1,590.28	1,520.26	1,503.50	5.85	5.98	142.85	-396.41	-159.36	551.09	539.00	12.09	45.597		
1,700.00	1,689.43	1,616.77	1,598.33	6.13	6.30	142.68	-414.30	-160.33	577.22	564.62	12.60	45.802		
1,800.00	1,788.59	1,713.28	1,693.17	6.41	6.64	142.52	-432.19	-161.30	603.35	590.22	13.13	45.952		
1,900.00	1,887.75	1,809.79	1,788.00	6.70	6.96	142.38	-450.09	-162.27	629.49	616.04	13.45	46.816		
2,000.00	1,986.90	1,906.31	1,882.84	7.00	7.13	142.25	-467.98	-163.23	655.63	641.95	13.68	47.940		
2,100.00	2,086.06	2,002.82	1,977.67	7.30	7.18	142.12	-485.87	-164.20	681.77	667.80	13.97	48.812		
2,200.00	2,185.21	2,100.67	2,072.50	7.60	7.24	142.01	-503.76	-165.17	707.91	693.64	14.28	49.581		
2,300.00	2,284.37	2,204.16	2,167.34	7.90	7.32	141.90	-521.66	-166.14	734.06	719.45	14.61	50.238		
2,400.00	2,383.52	2,307.64	2,262.17	8.21	7.42	141.81	-539.55	-167.11	760.21	745.25	14.96	50.800		
2,500.00	2,482.68	2,388.87	2,357.01	8.52	7.51	141.71	-557.44	-168.08	786.36	771.05	15.32	51.344		
2,600.00	2,581.84	2,485.38	2,451.84	8.83	7.63	141.63	-575.34	-169.05	812.52	796.82	15.69	51.770		
2,700.00	2,680.99	2,581.89	2,546.68	9.14	7.77	141.55	-593.23	-170.02	838.67	822.58	16.09	52.127		
2,800.00	2,780.15	2,678.41	2,641.51	9.45	7.92	141.47	-611.12	-170.99	864.83	848.33	16.50	52.421		
2,900.00	2,879.30	2,774.92	2,736.35	9.77	8.08	141.40	-629.01	-171.96	890.99	874.07	16.92	52.659		
3,000.00	2,978.46	2,871.43	2,831.18	10.09	8.25	141.33	-646.91	-172.93	917.14	899.79	17.35	52.847		
3,100.00	3,077.62	2,967.94	2,926.01	10.41	8.43	141.27	-664.80	-173.89	943.30	925.50	17.80	52.989		
3,200.00	3,176.77	3,064.46	3,020.85	10.73	8.63	141.21	-682.69	-174.86	969.47	951.21	18.26	53.092		
3,300.00	3,275.93	3,160.97	3,115.68	11.05	8.83	141.15	-700.59	-175.83	995.63	976.90	18.73	53.160		
3,400.00	3,375.08	3,257.48	3,210.52	11.37	9.04	141.10	-718.48	-176.80	1,021.79	1,002.58	19.21	53.198		
3,500.00	3,474.24	3,353.99	3,305.35	11.69	9.26	141.05	-736.37	-177.77	1,047.96	1,028.26	19.70	53.209		
3,600.00	3,573.39	3,450.51	3,400.19	12.01	9.49	141.00	-754.26	-178.74	1,074.12	1,053.93	20.19	53.197		
3,700.00	3,672.55	3,547.02	3,495.02	12.34	9.72	140.95	-772.16	-179.71	1,100.28	1,079.59	20.70	53.166		
3,800.00	3,771.71	3,643.53	3,589.85	12.66	9.96	140.91	-790.05	-180.68	1,126.45	1,105.24	21.21	53.118		
3,900.00	3,870.86	3,740.04	3,684.69	12.99	10.21	140.87	-807.94	-181.65	1,152.62	1,130.89	21.72	53.055		
4,000.00	3,970.02	3,836.56	3,779.52	13.31	10.46	140.83	-825.84	-182.62	1,178.78	1,156.53	22.25	52.980		

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-30 Offsets Incomplete - HOMYAK 1 - XOG PR Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,300.00	7,371.82	7,433.82	7,433.82	64.76	261.65	-89.50	-53.88	-4,434.91	1,115.86	819.02	296.84	3.759	
11,400.00	7,372.13	7,434.13	7,434.13	66.28	261.66	-89.55	-53.88	-4,434.91	1,022.06	723.72	298.34	3.426	
11,500.00	7,372.44	7,434.44	7,434.44	67.80	261.67	-89.59	-53.88	-4,434.91	929.56	629.34	300.22	3.096	
11,600.00	7,372.75	7,434.75	7,434.75	69.33	261.68	-89.64	-53.88	-4,434.91	838.78	536.18	302.60	2.772	
11,700.00	7,373.05	7,435.05	7,435.05	70.87	261.69	-89.69	-53.88	-4,434.91	750.35	444.70	305.65	2.455	
11,800.00	7,373.36	7,435.36	7,435.36	72.41	261.70	-89.74	-53.88	-4,434.91	665.20	355.63	309.57	2.149	
11,900.00	7,373.67	7,435.67	7,435.67	73.96	261.71	-89.78	-53.88	-4,434.91	584.78	270.18	314.60	1.859	
12,000.00	7,373.97	7,435.97	7,435.97	75.51	261.72	-89.83	-53.88	-4,434.91	511.30	190.40	320.90	1.593	
12,100.00	7,374.28	7,436.28	7,436.28	77.07	261.73	-89.88	-53.88	-4,434.91	448.22	119.85	328.37	1.365	Level 3
12,200.00	7,374.59	7,436.59	7,436.59	78.63	261.75	-89.93	-53.88	-4,434.91	400.46	64.37	336.09	1.192	Level 2
12,300.00	7,374.90	7,436.90	7,436.90	80.20	261.76	-89.97	-53.88	-4,434.91	373.95	32.03	341.92	1.094	Level 2
12,352.66	7,375.06	7,437.06	7,437.06	81.02	261.76	-90.00	-53.88	-4,434.91	370.22	26.86	343.37	1.078	Level 2, CC, ES, SF
12,400.00	7,375.20	7,437.20	7,437.20	81.77	261.77	-90.02	-53.88	-4,434.91	373.24	29.77	343.47	1.087	Level 2
12,500.00	7,375.51	7,437.51	7,437.51	83.34	261.78	-90.07	-53.88	-4,434.91	398.47	58.12	340.35	1.171	Level 2
12,600.00	7,375.82	7,437.82	7,437.82	84.92	261.79	-90.12	-53.88	-4,434.91	445.24	110.68	334.57	1.331	Level 3
12,700.00	7,376.12	7,438.12	7,438.12	86.50	261.80	-90.17	-53.88	-4,434.91	507.65	179.35	328.30	1.546	
12,800.00	7,376.43	7,438.43	7,438.43	88.09	261.81	-90.21	-53.88	-4,434.91	580.67	257.99	322.68	1.800	
12,900.00	7,376.74	7,438.74	7,438.74	89.68	261.82	-90.26	-53.88	-4,434.91	660.79	342.76	318.03	2.078	
13,000.00	7,377.04	7,439.04	7,439.04	91.27	261.83	-90.31	-53.88	-4,434.91	745.73	431.43	314.30	2.373	
13,100.00	7,377.35	7,439.35	7,439.35	92.86	261.84	-90.36	-53.88	-4,434.91	834.01	522.69	311.33	2.679	
13,200.00	7,377.66	7,439.66	7,439.66	94.46	261.85	-90.40	-53.88	-4,434.91	924.69	615.73	308.96	2.993	
13,300.00	7,377.97	7,439.97	7,439.97	96.06	261.86	-90.45	-53.88	-4,434.91	1,017.11	710.04	307.07	3.312	
13,400.00	7,378.27	7,440.27	7,440.27	97.66	261.88	-90.50	-53.88	-4,434.91	1,110.85	805.30	305.55	3.636	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b> 5N-66W-30 Offsets Incomplete - LUNDVALL 4 - Noble PR Well - No Surveys												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												<b>Offset Well Error:</b>	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	
12,600.00	7,375.82	7,461.82	7,461.82	84.92	262.64	-89.45	-18.64	-5,737.95	1,108.73	806.76	301.97	3.672	
12,700.00	7,376.12	7,462.12	7,462.12	86.50	262.65	-89.50	-18.64	-5,737.95	1,013.97	710.04	303.93	3.336	
12,800.00	7,376.43	7,462.43	7,462.43	88.09	262.66	-89.56	-18.64	-5,737.95	920.31	613.94	306.37	3.004	
12,900.00	7,376.74	7,462.74	7,462.74	89.68	262.67	-89.61	-18.64	-5,737.95	828.14	518.67	309.46	2.676	
13,000.00	7,377.04	7,463.04	7,463.04	91.27	262.68	-89.66	-18.64	-5,737.95	738.00	424.59	313.41	2.355	
13,100.00	7,377.35	7,463.35	7,463.35	92.86	262.69	-89.71	-18.64	-5,737.95	650.76	332.25	318.51	2.043	
13,200.00	7,377.66	7,463.66	7,463.66	94.46	262.70	-89.76	-18.64	-5,737.95	567.74	242.64	325.10	1.746	
13,300.00	7,377.97	7,463.97	7,463.97	96.06	262.72	-89.82	-18.64	-5,737.95	491.09	157.58	333.51	1.472	Level 3
13,400.00	7,378.27	7,464.27	7,464.27	97.66	262.73	-89.87	-18.64	-5,737.95	424.28	80.54	343.73	1.234	Level 2
13,500.00	7,378.58	7,464.58	7,464.58	99.27	262.74	-89.92	-18.64	-5,737.95	372.63	17.97	354.65	1.051	Level 2
13,600.00	7,378.89	7,464.89	7,464.89	100.87	262.75	-89.97	-18.64	-5,737.95	343.06	-20.02	363.08	0.945	Level 1
13,655.80	7,379.06	7,465.06	7,465.06	101.77	262.75	-90.00	-18.64	-5,737.95	338.49	-26.62	365.11	0.927	Level 1, CC, ES, SF
13,700.00	7,379.19	7,465.19	7,465.19	102.48	262.76	-90.02	-18.64	-5,737.95	341.36	-23.60	364.96	0.935	Level 1
13,800.00	7,379.50	7,465.50	7,465.50	104.09	262.77	-90.07	-18.64	-5,737.95	367.92	8.27	359.65	1.023	Level 2
13,900.00	7,379.81	7,465.81	7,465.81	105.71	262.78	-90.13	-18.64	-5,737.95	417.38	66.72	350.67	1.190	Level 2
14,000.00	7,380.12	7,466.12	7,466.12	107.32	262.79	-90.18	-18.64	-5,737.95	482.75	141.29	341.46	1.414	Level 3
14,100.00	7,380.42	7,466.42	7,466.42	108.94	262.80	-90.23	-18.64	-5,737.95	558.47	224.92	333.54	1.674	
14,200.00	7,380.73	7,466.73	7,466.73	110.55	262.81	-90.28	-18.64	-5,737.95	640.88	313.69	327.19	1.959	
14,300.00	7,381.04	7,467.04	7,467.04	112.17	262.82	-90.33	-18.64	-5,737.95	727.71	405.53	322.18	2.259	
14,400.00	7,381.34	7,467.34	7,467.34	113.79	262.83	-90.39	-18.64	-5,737.95	817.56	499.30	318.26	2.569	
14,500.00	7,381.65	7,467.65	7,467.65	115.42	262.85	-90.44	-18.64	-5,737.95	909.53	594.36	315.17	2.886	
14,600.00	7,381.96	7,467.96	7,467.96	117.04	262.86	-90.49	-18.64	-5,737.95	1,003.03	690.32	312.71	3.208	
14,700.00	7,382.27	7,468.27	7,468.27	118.66	262.87	-90.54	-18.64	-5,737.95	1,097.69	786.94	310.74	3.532	
14,800.00	7,382.57	7,468.57	7,468.57	120.29	262.88	-90.59	-18.64	-5,737.95	1,193.21	884.06	309.15	3.860	

# Hewlett-Packard

## Anticollision Report

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

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-SRC Energy_ISCWSA REV 2 MWD												<b>Offset Well Error:</b>	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,700.00	7,379.19	7,580.44	7,469.71	102.48	43.12	-89.14	-704.33	-6,404.58	1,199.13	1,070.62	128.51	9.331	
13,800.00	7,379.50	7,581.50	7,470.77	104.09	43.12	-89.20	-704.33	-6,404.59	1,150.57	1,017.18	133.39	8.625	
13,900.00	7,379.81	7,582.57	7,471.84	105.71	43.12	-89.26	-704.34	-6,404.60	1,108.92	970.70	138.22	8.023	
14,000.00	7,380.12	7,583.64	7,472.91	107.32	43.12	-89.32	-704.35	-6,404.60	1,074.98	932.16	142.82	7.527	
14,100.00	7,380.42	7,584.71	7,473.98	108.94	43.12	-89.38	-704.36	-6,404.61	1,049.51	902.52	146.99	7.140	
14,200.00	7,380.73	7,585.79	7,475.06	110.55	43.12	-89.44	-704.37	-6,404.62	1,033.13	882.62	150.51	6.864	
14,300.00	7,381.04	7,586.87	7,476.15	112.17	43.13	-89.50	-704.38	-6,404.63	1,026.27	873.06	153.21	6.699	
14,320.61	7,381.10	7,587.10	7,476.37	112.51	43.13	-89.51	-704.38	-6,404.63	1,026.06	872.42	153.65	6.678	CC, ES
14,400.00	7,381.34	7,587.96	7,477.23	113.79	43.13	-89.56	-704.39	-6,404.64	1,029.13	874.18	154.95	6.642	SF
14,500.00	7,381.65	7,589.06	7,478.33	115.42	43.13	-89.62	-704.40	-6,404.65	1,041.63	885.94	155.69	6.691	
14,600.00	7,381.96	7,590.15	7,479.42	117.04	43.13	-89.68	-704.41	-6,404.66	1,063.42	907.96	155.46	6.840	
14,700.00	7,382.27	7,591.26	7,480.53	118.66	43.13	-89.74	-704.42	-6,404.66	1,093.95	939.56	154.39	7.086	
14,800.00	7,382.57	7,592.37	7,481.64	120.29	43.13	-89.81	-704.43	-6,404.67	1,132.52	979.90	152.62	7.421	
14,900.00	7,382.88	7,593.48	7,482.75	121.92	43.13	-89.87	-704.44	-6,404.68	1,178.33	1,028.00	150.33	7.838	

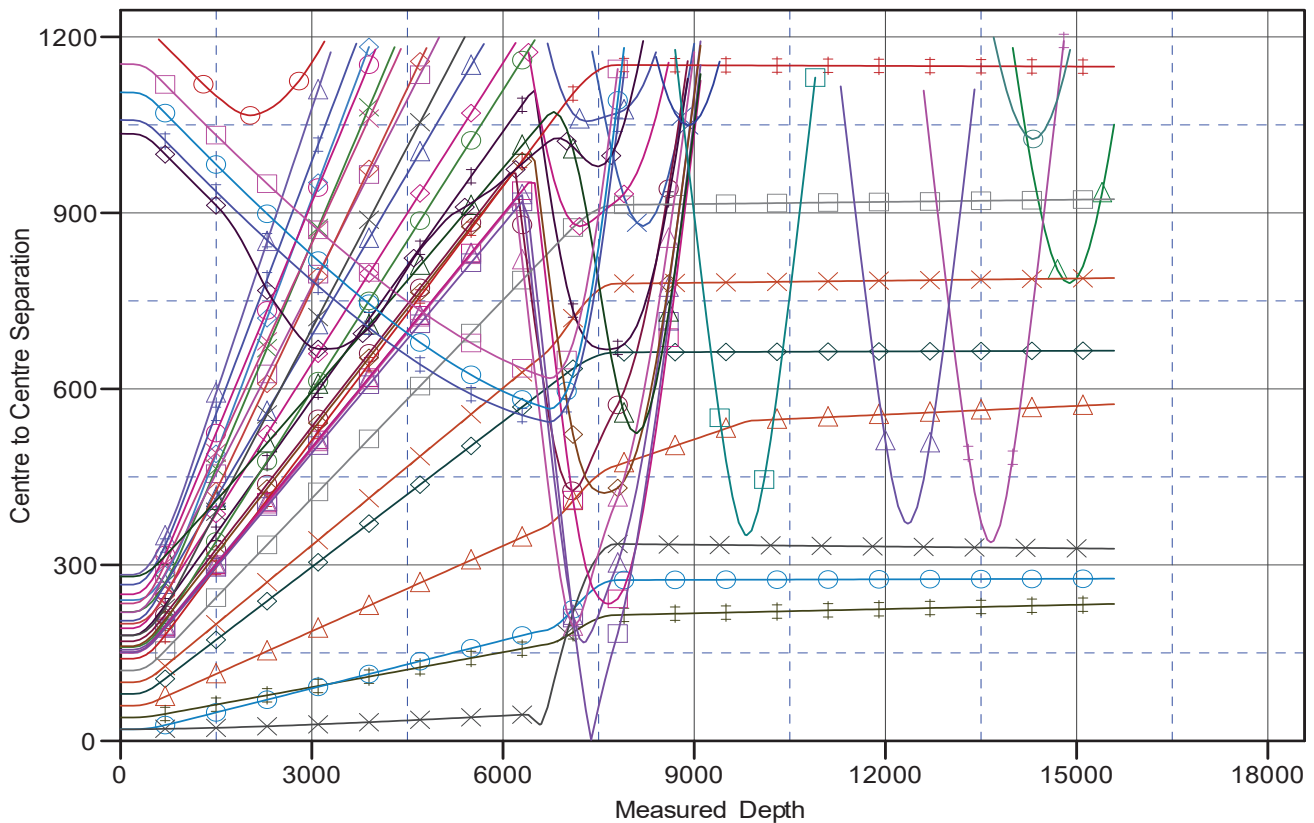
**Hewlett-Packard**  
Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 30C-30-M
<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Reference Site:</b>	5N-66W-29 SANFORD 21-29 PAD	<b>MD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 30C-30-M	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	3.28 usft	<b>Output errors are at</b>	2.45 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Single User Db
<b>Reference Design:</b>	Design #1	<b>Offset TVD Reference:</b>	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 30C-30-M  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.45°

**Ladder Plot**



**LEGEND**

- |  |  |  |
|--|--|--|
| HSR-WIEDEMAN 14-20, Noble SI Well, No Surveys V0 | SANFORD41N-27B-XR, Wellbore #1, Design #1 V0 | SANFORD8N-27C-XR, Wellbore #1, Design #1 V0                              |
| KORI J 19-B, Noble SI Well, No Surveys V0        | SANFORD5N-30C-M, Wellbore #1, Design #1 V0   | LUNDVALL4, Noble PR Well, No Surveys V0                                  |
| SANFORD32N-30B-M, Wellbore #1, Design #1 V0      | SANFORD8N-27B-XR, Wellbore #1, Design #1 V0  | HOMYAK 1, XOG PR Well, No Surveys V0                                     |
| SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0     | SANFORD30N-30B-M, Wellbore #1, Design #1 V0  | LUNDVALL J 30-19, Noble PR Well, Actual Ensign Surveys V0                |
| SANFORD4N-30A-M, Wellbore #1, Design #1 V0       | SANFORD5N-30B-M, Wellbore #1, Design #1 V0   | KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0                          |
| SANFORD4C-30A-M, Wellbore #1, Design #1 V0       | SANFORD10C-30-M, Wellbore #1, Design #1 V0   | BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| SANFORD4N-30B-M, Wellbore #1, Design #1 V0       | SANFORD1C-27-XR, Wellbore #1, Design #1 V0   | UPV 29-2H6, Noble SI Well, No Surveys V0                                 |
| SANFORD32N-30C-M, Wellbore #1, Design #1 V0      | SANFORD30N-30A-M, Wellbore #1, Design #1 V0  | BENSLER J29-18D, Noble SI Well, Actual Ensign Surveys V0                 |
| SANFORD4N-30C-M, Wellbore #1, Design #1 V0       | SANFORD28N-27A-XR, Wellbore #1, Design #1 V0 | KAMMERZELL 29-5, XOG PR Well, No Surveys V0                              |
| SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0     | SANFORD31N-30B-M, Wellbore #1, Design #1 V0  | BENSLER J29-17D, Noble PR Well, Actual Ensign Surveys V0                 |
| SANFORD8C-27-XR, Wellbore #1, Design #1 V0       | SANFORD40N-27C-XR, Wellbore #1, Design #1 V0 | KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Gross V0              |
| SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0     | SANFORD28C-27-XR, Wellbore #1, Design #1 V0  | BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0 |
| SANFORD41N-27C-XR, Wellbore #1, Design #1 V0     | SANFORD40N-27B-XR, Wellbore #1, Design #1 V0 |  |
| SANFORD31N-30C-M, Wellbore #1, Design #1 V0      | SANFORD28N-27C-XR, Wellbore #1, Design #1 V0 |  |

# Hewlett-Packard

## Anticollision Report

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

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

Offset Depths are relative to Offset Datum

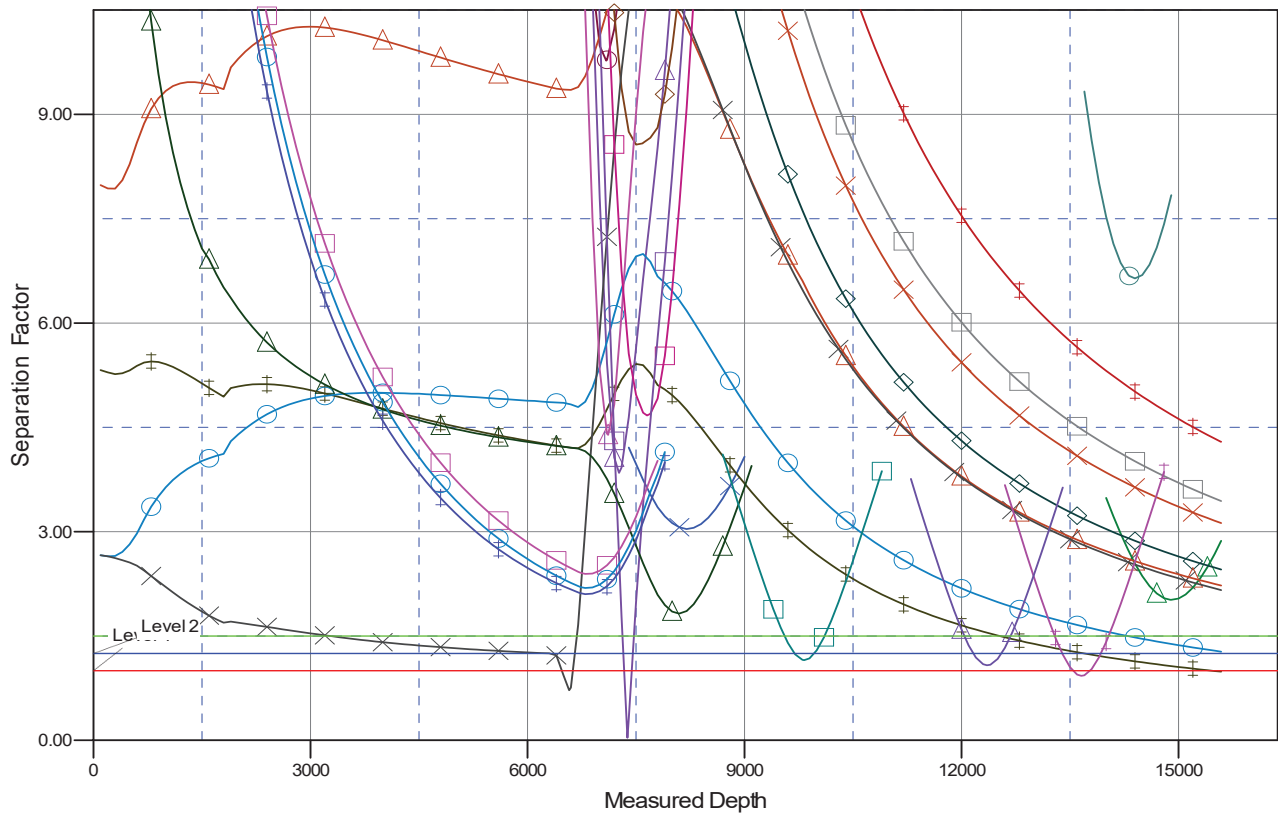
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 30C-30-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

## Separation Factor Plot



### LEGEND

HSR-WIEDEM 14-20, Noble SI Well, No Surveys V0	SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0
KORI J 19-B, Noble SI Well, No Surveys V0	SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0
SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	HOMYAK 1, XOG PR Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	LUNDVALL J 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 5N-30B-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 1C-30-M, Wellbore #1, Design #1 V0	BENSLEYER 29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	BENSLEYER J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	BENSLEYER J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Gross V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLEYER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	