

# **SRC ENERGY**

**WELD COUNTY (NAD83, TRUE NORTH)  
5N-66W-29 SANFORD 21-29 PAD  
SANFORD 4N-30B-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 4N-30B-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 4N-30B-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	
1,800.00	15,389.78	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

<b>Summary</b>						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,157.39	2,012.52	1,021.89	999.19	45.022	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	4,000.00	3,751.82	1,198.79	1,171.10	43.300	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	3,725.26	3,731.37	475.43	444.86	15.551	CC, ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	7,400.00	7,229.43	565.82	520.21	12.407	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,582.61	6,523.36	286.52	41.60	1.170	Level 2, CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,600.00	6,540.74	286.73	41.17	1.168	Level 2, ES, SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,582.13	6,522.87	330.92	86.04	1.351	Level 3, CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,600.00	6,540.74	331.15	85.61	1.349	Level 3, ES, SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys						Out of range
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys						Out of range
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	7,894.83	7,167.57	84.07	-188.75	0.308	Level 1, CC, ES, SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,280.53	7,205.95	995.54	703.59	3.410	CC
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,300.00	7,205.91	995.73	703.50	3.407	ES, SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,621.35	7,177.66	157.87	-138.24	0.533	Level 1, CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,915.02	7,161.60	1,089.46	816.67	3.994	CC, ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,741.43	7,199.26	579.17	529.90	11.756	CC, ES
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,800.00	7,196.91	582.12	532.17	11.656	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	6,582.49	6,510.24	382.60	137.92	1.564	CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,600.00	6,527.74	382.82	137.49	1.560	ES, SF

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<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	7,734.56	7,217.12	9.29	-29.80	0.238	Level 1, CC, ES, SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,169.08	7,487.10	26.38	-9.28	0.740	Level 1, CC, ES, SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	151.36	143.79	19.984	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	7,396.43	7,420.45	245.87	210.84	7.020	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	155.08	147.51	20.475	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,761.45	7,198.09	225.39	190.21	6.406	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	169.95	162.38	22.438	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	7,800.00	7,156.98	655.81	615.70	16.349	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	161.61	154.03	21.336	CC, ES
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	7,100.00	7,553.82	591.35	554.63	16.105	SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	155.14	147.57	20.483	CC, ES
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	7,400.00	7,466.64	421.96	381.52	10.435	SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	60.10	52.53	7.935	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,389.78	15,587.69	574.10	316.32	2.227	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.290	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,389.78	15,252.39	502.62	232.72	1.862	SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	80.14	72.57	10.581	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	15,389.78	15,408.80	725.00	450.22	2.638	SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	200.00	200.00	80.15	72.58	10.583	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,389.78	15,410.68	594.12	319.65	2.165	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	60.12	52.54	7.937	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,389.78	15,472.57	379.78	107.52	1.395	Level 3, SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	255.00	255.00	179.94	172.32	23.624	CC, ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	300.00	297.32	180.26	172.60	23.543	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	159.93	152.36	21.116	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	300.00	295.33	161.30	153.65	21.079	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.85	28.970	CC, ES, SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	234.35	226.77	30.940	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	294.75	236.73	229.08	30.934	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	161.51	153.94	21.324	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,560.53	7,276.60	462.77	428.13	13.360	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	169.83	162.26	22.422	CC, ES
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,121.11	618.04	582.46	17.372	SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.47	2.646	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,389.78	15,583.60	230.86	31.17	1.156	Level 2, SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	40.07	32.50	5.291	CC
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,389.78	15,271.80	221.40	-16.10	0.932	Level 1, ES, SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	20.03	12.45	2.644	CC, ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,389.78	15,467.92	351.96	81.65	1.302	Level 3, SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	119.86	112.29	15.826	CC, ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,389.78	15,671.94	996.74	725.43	3.674	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	139.90	132.32	18.471	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	300.00	296.05	141.21	133.56	18.453	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	99.82	92.25	13.180	CC, ES
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,389.78	15,506.37	815.62	541.50	2.975	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	180.23	172.66	23.796	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	8,100.00	7,033.38	901.33	862.67	23.316	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	191.96	184.38	25.344	CC, ES, SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	205.17	197.60	27.088	CC, ES, SF

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<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 4N-30B-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	12,153.38	7,238.20	151.30	-187.52	0.447	Level 1, CC, ES, SF
HOMYAK 2 - XOG SI Well - No Surveys	10,715.05	7,203.62	1,164.86	850.61	3.707	CC, ES
HOMYAK 2 - XOG SI Well - No Surveys	10,800.00	7,203.78	1,167.95	852.38	3.701	SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,791.22	7,235.93	1,115.40	733.18	2.918	CC
LUNDVALL 3 - Noble PR Well - No Surveys	14,800.00	7,235.94	1,115.44	733.06	2.917	ES, SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,456.35	7,264.54	189.27	-171.90	0.524	Level 1, CC, ES, SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,122.87	7,392.37	493.77	336.87	3.147	CC, ES, SF
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys						Out of range
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys						Out of range
RICKS-PM J30-12 - Noble PR Well - No Surveys						Out of range
STEVE J 30-4J - Noble PR Well - Actual Multishot Survey						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,337.30	7,433.93	1,117.04	971.72	7.686	CC, ES
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,400.00	7,433.26	1,118.80	972.60	7.653	SF

<b>Offset Design</b> 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	
500.00	499.45	488.57	488.57	3.50	14.99	4.29	-141.67	1,203.04	1,195.71	1,176.42	19.28	62.006	
600.00	598.74	586.22	586.22	3.62	15.49	4.34	-141.53	1,203.09	1,183.85	1,163.96	19.89	59.510	
700.00	697.94	683.06	683.06	3.76	15.49	4.38	-141.45	1,203.33	1,171.55	1,151.52	20.02	58.513	
800.00	797.15	781.06	781.05	3.93	15.50	4.43	-141.45	1,203.71	1,159.40	1,139.22	20.18	57.462	
900.00	896.36	880.11	880.11	4.12	15.52	4.48	-141.54	1,204.18	1,147.35	1,127.00	20.35	56.380	
1,000.00	995.56	982.74	982.74	4.33	15.54	4.54	-141.76	1,204.47	1,135.12	1,114.58	20.54	55.252	
1,100.00	1,094.77	1,083.56	1,083.56	4.56	15.56	4.60	-142.06	1,204.49	1,122.65	1,101.90	20.75	54.093	
1,200.00	1,193.98	1,182.95	1,182.95	4.79	15.59	4.66	-142.20	1,204.49	1,110.13	1,089.16	20.98	52.921	
1,300.00	1,293.19	1,277.69	1,277.69	5.04	15.61	4.73	-142.62	1,204.59	1,097.78	1,076.56	21.21	51.749	
1,400.00	1,392.39	1,377.90	1,377.84	5.30	15.65	4.95	-145.72	1,204.59	1,085.64	1,064.17	21.47	50.575	
1,500.00	1,491.60	1,467.44	1,467.14	5.56	15.69	5.35	-152.19	1,204.49	1,073.96	1,052.23	21.73	49.429	
1,600.00	1,590.81	1,568.88	1,568.15	5.84	15.74	5.92	-161.53	1,204.63	1,062.88	1,040.87	22.01	48.293	
1,700.00	1,690.01	1,672.35	1,670.82	6.12	15.80	6.69	-174.18	1,203.11	1,050.79	1,028.48	22.31	47.103	
1,800.00	1,789.22	1,754.63	1,752.11	6.40	15.87	7.45	-186.87	1,202.34	1,039.94	1,017.34	22.61	45.999	
1,900.00	1,888.43	1,830.74	1,827.14	6.55	15.93	8.22	-199.62	1,202.67	1,031.00	1,008.43	22.58	45.665	
2,000.00	1,987.64	1,899.31	1,894.75	6.58	15.99	8.88	-210.84	1,204.90	1,024.96	1,002.34	22.62	45.313	
2,100.00	2,086.84	1,970.00	1,964.39	6.63	16.06	9.52	-222.06	1,209.53	1,022.19	999.53	22.66	45.102	
2,157.39	2,143.78	2,012.52	2,006.26	6.66	16.10	9.88	-228.42	1,213.30	1,021.89	999.19	22.70	45.022	CC, ES
2,200.00	2,186.05	2,047.91	2,041.14	6.68	16.14	10.14	-233.27	1,216.81	1,022.04	999.31	22.73	44.962	
2,300.00	2,285.26	2,134.42	2,126.37	6.75	16.23	10.75	-244.57	1,226.37	1,023.49	1,000.65	22.84	44.815	
2,400.00	2,384.46	2,220.59	2,211.05	6.84	16.35	11.39	-256.68	1,236.76	1,026.31	1,003.35	22.96	44.691	
2,500.00	2,483.67	2,294.99	2,283.87	6.94	16.46	11.98	-268.20	1,246.80	1,031.09	1,008.03	23.06	44.714	
2,600.00	2,582.88	2,378.81	2,365.59	7.05	16.60	12.63	-281.49	1,259.82	1,038.11	1,014.90	23.20	44.740	
2,700.00	2,682.09	2,476.92	2,461.15	7.17	16.77	13.36	-296.95	1,275.81	1,046.04	1,022.61	23.43	44.653	
2,800.00	2,781.29	2,552.07	2,534.08	7.30	16.93	13.97	-309.92	1,288.43	1,055.11	1,031.55	23.56	44.786	
2,900.00	2,880.50	2,645.76	2,624.56	7.45	17.15	14.78	-327.46	1,305.28	1,065.97	1,042.17	23.80	44.782	
3,000.00	2,979.71	2,728.09	2,703.83	7.60	17.36	15.51	-343.87	1,320.28	1,077.73	1,053.73	24.00	44.896	
3,100.00	3,078.91	2,817.17	2,789.20	7.76	17.63	16.35	-362.84	1,337.22	1,090.97	1,066.71	24.27	44.961	
3,200.00	3,178.12	2,914.00	2,881.87	7.94	17.93	17.24	-383.70	1,355.99	1,104.93	1,080.35	24.58	44.958	

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## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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
5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-17D - Noble PR Well - Actual En												<b>Offset Well Error:</b>	3.28 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD													
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
3,300.00	3,277.33	3,036.52	2,999.69	8.12	18.29	18.31	-409.04	1,378.10	1,117.45	1,092.41	25.04	44.632	
3,400.00	3,376.53	3,132.24	3,091.85	8.31	18.61	19.13	-428.63	1,394.94	1,129.83	1,104.47	25.36	44.545	
3,500.00	3,475.74	3,253.16	3,208.57	8.50	19.00	20.10	-452.31	1,415.81	1,141.84	1,116.01	25.83	44.210	
3,600.00	3,574.95	3,349.78	3,302.29	8.70	19.31	20.78	-469.30	1,432.03	1,152.71	1,126.54	26.16	44.058	
3,700.00	3,674.16	3,436.54	3,386.40	8.91	19.61	21.30	-483.48	1,447.89	1,164.55	1,138.09	26.46	44.015	
3,800.00	3,773.36	3,546.01	3,492.65	9.13	19.99	21.94	-500.96	1,467.59	1,176.08	1,149.20	26.88	43.754	
3,900.00	3,872.57	3,647.14	3,590.78	9.35	20.36	22.55	-517.84	1,485.36	1,187.69	1,160.42	27.27	43.552	
4,000.00	3,971.78	3,751.82	3,692.39	9.57	20.75	23.23	-536.10	1,502.60	1,198.79	1,171.10	27.69	43.300 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 29-18D - Noble SI Well - Actual Ens													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	98.14	-144.97	1,014.14	1,024.51					
100.00	100.00	89.00	89.00	3.28	3.56	98.14	-144.97	1,014.14	1,024.45	1,016.82	7.63	134.273		
200.00	200.00	189.00	189.00	3.31	5.73	98.14	-144.97	1,014.14	1,024.45	1,014.63	9.82	104.282		
300.00	299.98	288.98	288.98	3.35	8.87	5.65	-144.97	1,014.14	1,022.72	1,009.71	13.01	78.635		
400.00	399.84	388.84	388.84	3.41	12.22	5.69	-144.97	1,014.14	1,017.51	1,001.08	16.43	61.936		
500.00	499.45	488.56	488.56	3.50	14.99	5.75	-144.95	1,014.15	1,008.84	989.55	19.28	52.316		
600.00	598.74	588.08	588.08	3.62	16.12	5.82	-144.70	1,014.16	996.95	976.42	20.53	48.554		
700.00	697.94	687.47	687.47	3.76	16.13	5.90	-144.78	1,014.10	984.40	963.74	20.66	47.643		
800.00	797.15	786.36	786.36	3.93	16.14	5.99	-145.02	1,014.03	971.86	951.05	20.82	46.689		
900.00	896.36	885.48	885.48	4.12	16.15	6.07	-145.08	1,014.01	959.35	938.37	20.99	45.710		
1,000.00	995.56	985.10	985.10	4.33	16.17	6.17	-145.39	1,013.93	946.82	925.64	21.18	44.702		
1,100.00	1,094.77	1,084.88	1,084.88	4.56	16.20	6.30	-146.02	1,013.75	934.25	912.86	21.39	43.677		
1,200.00	1,193.98	1,184.78	1,184.77	4.79	16.22	6.43	-146.66	1,013.49	921.60	899.98	21.61	42.640		
1,300.00	1,293.19	1,283.85	1,283.84	5.04	16.25	6.56	-147.39	1,013.18	908.92	887.06	21.85	41.594		
1,400.00	1,392.39	1,383.45	1,383.44	5.30	16.29	6.73	-148.44	1,012.84	896.26	874.16	22.10	40.551		
1,500.00	1,491.60	1,488.14	1,488.12	5.56	16.33	6.91	-149.63	1,012.07	883.25	860.88	22.37	39.488		
1,600.00	1,590.81	1,604.31	1,604.25	5.84	16.38	7.16	-151.24	1,009.99	869.30	846.66	22.64	38.396		
1,700.00	1,690.01	1,730.48	1,730.16	6.12	16.45	7.67	-155.69	1,003.48	852.36	829.45	22.91	37.204		
1,800.00	1,789.22	1,851.16	1,850.15	6.40	16.53	8.48	-163.58	993.38	832.99	809.81	23.18	35.934		
1,900.00	1,888.43	1,977.38	1,975.13	6.55	16.62	9.50	-172.52	978.24	810.27	787.15	23.12	35.052		
2,000.00	1,987.64	2,088.23	2,084.11	6.58	16.73	10.75	-183.59	961.33	785.22	762.03	23.19	33.859		
2,100.00	2,086.84	2,211.71	2,204.53	6.63	16.89	12.55	-198.90	938.76	758.25	734.99	23.26	32.599		
2,200.00	2,186.05	2,316.36	2,305.49	6.68	17.07	14.47	-214.04	915.75	728.69	705.26	23.42	31.109		
2,300.00	2,285.26	2,391.38	2,377.52	6.75	17.21	16.12	-226.96	899.27	700.55	676.84	23.72	29.540		
2,400.00	2,384.46	2,475.77	2,458.58	6.84	17.36	18.16	-242.81	881.95	675.10	651.11	24.00	28.133		
2,500.00	2,483.67	2,581.93	2,560.27	6.94	17.59	21.00	-263.40	859.50	650.48	626.19	24.29	26.780		
2,600.00	2,582.88	2,688.37	2,662.25	7.05	17.86	23.97	-282.21	835.54	625.42	600.79	24.63	25.391		
2,700.00	2,682.09	2,792.58	2,761.05	7.17	18.17	27.35	-301.33	808.50	599.10	574.05	25.05	23.915		
2,800.00	2,781.29	2,883.49	2,847.02	7.30	18.47	30.59	-318.02	784.11	573.97	548.43	25.54	22.470		
2,900.00	2,880.50	2,965.62	2,925.05	7.45	18.72	33.63	-332.60	762.99	551.51	525.46	26.05	21.169		
3,000.00	2,979.71	3,043.28	2,999.33	7.60	18.98	36.55	-346.40	745.05	533.24	506.67	26.57	20.071		
3,100.00	3,078.91	3,131.66	3,083.59	7.76	19.29	40.18	-364.48	725.48	519.51	492.38	27.13	19.149		
3,200.00	3,178.12	3,237.23	3,184.05	7.94	19.70	44.76	-385.38	700.67	507.23	479.45	27.77	18.263		
3,300.00	3,277.33	3,339.69	3,282.13	8.12	20.08	49.17	-402.20	676.30	495.28	466.90	28.39	17.447		
3,400.00	3,376.53	3,423.79	3,363.10	8.31	20.38	52.75	-415.00	657.54	486.06	457.14	28.93	16.803		
3,500.00	3,475.74	3,515.82	3,452.28	8.50	20.70	56.52	-428.53	639.30	480.34	450.89	29.46	16.307		
3,600.00	3,574.95	3,610.20	3,543.96	8.70	21.04	60.34	-442.16	621.44	477.25	447.28	29.98	15.921		
3,700.00	3,674.16	3,708.97	3,640.70	8.91	21.37	63.96	-454.09	605.57	475.53	445.06	30.47	15.607		
3,725.26	3,699.22	3,731.37	3,662.72	8.97	21.44	64.74	-456.67	602.34	475.43	444.86	30.57	15.551 CC, ES		
3,800.00	3,773.36	3,802.25	3,732.31	9.13	21.67	67.23	-465.24	592.02	476.14	445.23	30.90	15.407		
3,900.00	3,872.57	3,894.90	3,822.45	9.35	22.03	70.94	-477.47	574.48	478.56	447.20	31.36	15.262		
4,000.00	3,971.78	3,984.00	3,907.89	9.57	22.44	75.00	-491.36	553.41	484.68	452.90	31.78	15.252		
4,100.00	4,070.98	4,069.69	3,989.73	9.80	22.87	78.92	-505.25	532.14	494.23	462.09	32.13	15.381		
4,200.00	4,170.19	4,159.64	4,075.28	10.04	23.32	82.94	-521.25	509.42	508.17	475.70	32.47	15.650		
4,300.00	4,269.40	4,266.80	4,177.71	10.28	23.84	87.38	-538.64	483.18	523.49	490.56	32.92	15.901		
4,400.00	4,368.61	4,381.98	4,289.37	10.52	24.34	91.50	-552.75	458.79	537.05	503.67	33.38	16.088		
4,500.00	4,467.81	4,473.96	4,378.95	10.77	24.71	94.46	-563.51	440.97	551.80	518.15	33.65	16.397		
4,600.00	4,567.02	4,593.87	4,496.76	11.02	25.14	97.76	-574.80	421.76	565.27	531.19	34.08	16.585		
4,700.00	4,666.23	4,700.87	4,602.75	11.27	25.46	100.14	-582.70	409.53	576.98	542.57	34.41	16.768		
4,800.00	4,765.43	4,815.86	4,717.17	11.52	25.73	102.27	-589.26	400.23	587.02	552.27	34.75	16.893		
4,900.00	4,864.64	4,915.30	4,816.31	11.78	25.95	103.91	-593.76	393.95	596.03	560.99	35.03	17.013		
5,000.00	4,963.85	5,015.17	4,915.93	12.04	26.15	105.34	-599.03	389.33	605.70	570.38	35.32	17.147		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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, 554-SRC Energy_ISCWSA REV 2 MWD												<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
5,100.00	5,063.06	5,118.38	5,018.97	12.31	26.33	106.61	-604.25	386.56	614.88	579.25	35.63	17.257	
5,200.00	5,162.26	5,251.08	5,151.59	12.57	26.53	108.27	-606.63	383.52	621.10	585.13	35.97	17.268	
5,300.00	5,261.47	5,355.21	5,255.71	12.84	26.65	109.51	-605.63	382.80	624.56	588.29	36.26	17.223	
5,400.00	5,360.68	5,454.61	5,355.11	13.11	26.76	110.62	-604.72	382.80	628.04	591.48	36.57	17.176	
5,500.00	5,459.88	5,550.98	5,451.47	13.38	26.87	111.64	-604.14	383.12	631.91	595.04	36.88	17.136	
5,600.00	5,559.09	5,646.59	5,547.09	13.65	26.99	112.63	-604.13	383.37	636.56	599.37	37.19	17.115	
5,700.00	5,658.30	5,753.49	5,653.97	13.93	27.10	113.62	-604.28	384.76	641.09	603.58	37.52	17.088	
5,800.00	5,757.50	5,852.43	5,752.86	14.20	27.20	114.39	-604.25	387.79	644.84	606.99	37.85	17.035	
5,900.00	5,856.71	5,938.95	5,839.37	14.48	27.31	115.14	-604.89	389.03	650.13	611.94	38.19	17.024	
6,000.00	5,955.92	6,032.32	5,932.72	14.76	27.44	116.07	-606.36	388.33	657.32	618.79	38.53	17.060	
6,100.00	6,055.13	6,134.92	6,035.31	15.04	27.59	117.06	-607.80	387.56	664.58	625.69	38.89	17.089	
6,200.00	6,154.33	6,234.82	6,135.21	15.32	27.74	117.99	-609.04	387.27	671.65	632.40	39.25	17.111	
6,300.00	6,253.54	6,334.16	6,234.53	15.61	27.88	118.84	-610.58	387.49	678.88	639.26	39.62	17.135	
6,400.00	6,352.75	6,436.04	6,336.40	15.89	28.03	119.69	-612.00	387.89	686.04	646.05	40.00	17.152	
6,500.00	6,451.95	6,537.10	6,437.45	16.17	28.17	120.52	-612.94	388.22	693.00	652.62	40.38	17.163	
6,600.00	6,551.74	6,637.38	6,537.73	16.37	28.31	-36.70	-613.79	388.65	695.34	654.63	40.71	17.081	
6,700.00	6,651.02	6,736.92	6,637.27	16.49	28.45	-52.54	-614.67	389.24	688.57	647.52	41.05	16.773	
6,800.00	6,747.36	6,833.30	6,733.64	16.57	28.59	-56.94	-615.55	389.93	673.39	631.96	41.43	16.254	
6,900.00	6,838.38	6,924.52	6,824.86	16.60	28.72	-62.16	-616.33	390.57	651.48	609.62	41.86	15.564	
7,000.00	6,921.84	7,008.27	6,908.60	16.62	28.84	-68.56	-616.89	391.00	625.48	583.11	42.37	14.762	
7,100.00	6,995.69	7,082.91	6,983.24	16.65	28.95	-75.72	-617.26	391.35	599.09	556.08	43.01	13.930	
7,200.00	7,058.11	7,145.78	7,046.11	16.73	29.04	-82.66	-617.48	391.70	577.00	533.21	43.79	13.177	
7,300.00	7,107.56	7,195.30	7,095.63	16.87	29.11	-88.21	-617.60	392.02	564.38	519.69	44.69	12.629	
7,341.59	7,124.00	7,211.13	7,111.46	16.97	29.13	-89.83	-617.64	392.13	563.07	517.98	45.09	12.487	
7,400.00	7,142.82	7,229.43	7,129.76	17.11	29.16	-91.37	-617.69	392.26	565.82	520.21	45.61	12.407 SF	
7,500.00	7,163.02	7,248.81	7,149.13	17.46	29.19	-91.67	-617.74	392.39	583.75	537.36	46.39	12.585	
7,600.00	7,168.04	7,253.10	7,153.42	17.92	29.19	-89.68	-617.75	392.42	617.76	570.84	46.92	13.166	
7,700.00	7,168.22	7,252.59	7,152.92	18.52	29.19	-89.63	-617.75	392.42	665.28	618.04	47.24	14.083	
7,800.00	7,168.40	7,252.09	7,152.41	19.24	29.19	-89.58	-617.75	392.41	723.57	676.18	47.40	15.266	
7,900.00	7,168.58	7,251.58	7,151.91	20.08	29.19	-89.52	-617.75	392.41	790.27	742.83	47.44	16.658	
8,000.00	7,168.76	7,251.08	7,151.40	21.02	29.19	-89.47	-617.75	392.41	863.41	816.00	47.41	18.211	
8,100.00	7,168.94	7,250.57	7,150.90	22.04	29.19	-89.42	-617.75	392.40	941.51	894.17	47.34	19.886	
8,200.00	7,169.12	7,250.07	7,150.40	23.14	29.19	-89.37	-617.74	392.40	1,023.43	976.17	47.26	21.656	
8,300.00	7,169.29	7,249.57	7,149.89	24.31	29.19	-89.32	-617.74	392.39	1,108.32	1,061.15	47.17	23.498	
8,400.00	7,169.47	7,249.07	7,149.39	25.53	29.19	-89.27	-617.74	392.39	1,195.55	1,148.47	47.08	25.396	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	97.85	-143.16	1,038.38	1,048.26							
100.00	100.00	89.00	89.00	3.28	3.56	97.85	-143.16	1,038.38	1,048.21	1,040.58	7.63	137.386				
200.00	200.00	189.00	189.00	3.31	5.73	97.85	-143.16	1,038.38	1,048.21	1,038.38	9.82	106.699				
300.00	299.98	288.98	288.98	3.35	8.87	5.36	-143.16	1,038.38	1,046.47	1,033.46	13.01	80.461				
400.00	399.84	388.84	388.84	3.41	12.22	5.40	-143.16	1,038.38	1,041.26	1,024.83	16.43	63.381				
500.00	499.45	488.45	488.45	3.50	15.65	5.46	-143.16	1,038.38	1,032.58	1,012.63	19.95	51.767				
600.00	598.74	587.74	587.74	3.62	19.11	5.54	-143.16	1,038.38	1,020.71	997.20	23.51	43.407				
700.00	697.94	686.94	686.94	3.76	22.58	5.61	-143.16	1,038.38	1,008.20	981.09	27.11	37.189				
800.00	797.15	786.15	786.15	3.93	26.06	5.68	-143.16	1,038.38	995.70	964.96	30.74	32.395				
900.00	896.36	885.36	885.36	4.12	29.55	5.75	-143.16	1,038.38	983.19	948.80	34.39	28.593				
1,000.00	995.56	984.56	984.56	4.33	33.05	5.82	-143.16	1,038.38	970.68	932.63	38.05	25.508				
1,100.00	1,094.77	1,083.77	1,083.77	4.56	36.55	5.90	-143.16	1,038.38	958.18	916.44	41.74	22.956				
1,200.00	1,193.98	1,182.98	1,182.98	4.79	40.05	5.98	-143.16	1,038.38	945.68	900.24	45.44	20.812				
1,300.00	1,293.19	1,282.19	1,282.19	5.04	43.55	6.06	-143.16	1,038.38	933.18	884.03	49.15	18.986				
1,400.00	1,392.39	1,381.39	1,381.39	5.30	47.06	6.14	-143.16	1,038.38	920.68	867.81	52.87	17.413				
1,500.00	1,491.60	1,480.60	1,480.60	5.56	50.57	6.23	-143.16	1,038.38	908.19	851.58	56.60	16.045				
1,600.00	1,590.81	1,579.81	1,579.81	5.84	54.07	6.31	-143.16	1,038.38	895.69	835.35	60.34	14.844				
1,700.00	1,690.01	1,679.01	1,679.01	6.12	57.58	6.40	-143.16	1,038.38	883.20	819.11	64.09	13.781				
1,800.00	1,789.22	1,778.22	1,778.22	6.40	61.09	6.50	-143.16	1,038.38	870.71	802.87	67.84	12.835				
1,900.00	1,888.43	1,877.43	1,877.43	6.55	64.60	6.59	-143.16	1,038.38	858.22	786.95	71.27	12.042				
2,000.00	1,987.64	1,976.64	1,976.64	6.58	68.11	6.69	-143.16	1,038.38	845.74	770.94	74.79	11.307				
2,100.00	2,086.84	2,075.84	2,075.84	6.63	71.63	6.79	-143.16	1,038.38	833.25	754.92	78.34	10.637				
2,200.00	2,186.05	2,175.05	2,175.05	6.68	75.14	6.89	-143.16	1,038.38	820.77	738.88	81.89	10.023				
2,300.00	2,285.26	2,274.26	2,274.26	6.75	78.65	7.00	-143.16	1,038.38	808.30	722.84	85.46	9.458				
2,400.00	2,384.46	2,373.46	2,373.46	6.84	82.16	7.11	-143.16	1,038.38	795.82	706.78	89.04	8.938				
2,500.00	2,483.67	2,472.67	2,472.67	6.94	85.67	7.22	-143.16	1,038.38	783.35	690.72	92.64	8.456				
2,600.00	2,582.88	2,571.88	2,571.88	7.05	89.19	7.34	-143.16	1,038.38	770.88	674.64	96.24	8.010				
2,700.00	2,682.09	2,671.09	2,671.09	7.17	92.70	7.46	-143.16	1,038.38	758.42	658.56	99.86	7.595				
2,800.00	2,781.29	2,770.29	2,770.29	7.30	96.21	7.59	-143.16	1,038.38	745.96	642.46	103.49	7.208				
2,900.00	2,880.50	2,869.50	2,869.50	7.45	99.73	7.72	-143.16	1,038.38	733.50	626.36	107.14	6.846				
3,000.00	2,979.71	2,968.71	2,968.71	7.60	103.24	7.85	-143.16	1,038.38	721.05	610.26	110.79	6.508				
3,100.00	3,078.91	3,067.91	3,067.91	7.76	106.75	7.99	-143.16	1,038.38	708.60	594.15	114.45	6.191				
3,200.00	3,178.12	3,167.12	3,167.12	7.94	110.27	8.13	-143.16	1,038.38	696.15	578.03	118.12	5.894				
3,300.00	3,277.33	3,266.33	3,266.33	8.12	113.78	8.28	-143.16	1,038.38	683.71	561.91	121.80	5.613				
3,400.00	3,376.53	3,365.53	3,365.53	8.31	117.29	8.44	-143.16	1,038.38	671.27	545.79	125.49	5.349				
3,500.00	3,475.74	3,464.74	3,464.74	8.50	120.81	8.60	-143.16	1,038.38	658.84	529.66	129.18	5.100				
3,600.00	3,574.95	3,563.95	3,563.95	8.70	124.32	8.76	-143.16	1,038.38	646.41	513.53	132.88	4.865				
3,700.00	3,674.16	3,663.16	3,663.16	8.91	127.83	8.94	-143.16	1,038.38	633.99	497.41	136.59	4.642				
3,800.00	3,773.36	3,762.36	3,762.36	9.13	131.35	9.12	-143.16	1,038.38	621.58	481.28	140.30	4.430				
3,900.00	3,872.57	3,861.57	3,861.57	9.35	134.86	9.30	-143.16	1,038.38	609.17	465.15	144.02	4.230				
4,000.00	3,971.78	3,960.78	3,960.78	9.57	138.38	9.50	-143.16	1,038.38	596.77	449.03	147.74	4.039				
4,100.00	4,070.98	4,059.98	4,059.98	9.80	141.89	9.70	-143.16	1,038.38	584.37	432.90	151.47	3.858				
4,200.00	4,170.19	4,159.19	4,159.19	10.04	145.41	9.91	-143.16	1,038.38	571.99	416.78	155.20	3.685				
4,300.00	4,269.40	4,258.40	4,258.40	10.28	148.92	10.14	-143.16	1,038.38	559.61	400.67	158.94	3.521				
4,400.00	4,368.61	4,357.61	4,357.61	10.52	152.43	10.37	-143.16	1,038.38	547.24	384.56	162.68	3.364				
4,500.00	4,467.81	4,456.81	4,456.81	10.77	155.95	10.61	-143.16	1,038.38	534.88	368.45	166.43	3.214				
4,600.00	4,567.02	4,556.02	4,556.02	11.02	159.46	10.86	-143.16	1,038.38	522.53	352.35	170.17	3.071				
4,700.00	4,666.23	4,655.23	4,655.23	11.27	162.98	11.13	-143.16	1,038.38	510.18	336.26	173.93	2.933				
4,800.00	4,765.43	4,754.43	4,754.43	11.52	166.49	11.41	-143.16	1,038.38	497.86	320.18	177.68	2.802				
4,900.00	4,864.64	4,853.64	4,853.64	11.78	170.01	11.70	-143.16	1,038.38	485.54	304.10	181.44	2.676				
5,000.00	4,963.85	4,952.85	4,952.85	12.04	173.52	12.01	-143.16	1,038.38	473.23	288.04	185.20	2.555				
5,100.00	5,063.06	5,052.06	5,052.06	12.31	177.03	12.34	-143.16	1,038.38	460.94	271.99	188.96	2.439				



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							
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	5,162.26	5,151.26	5,151.26	12.57	180.55	12.68	-143.16	1,038.38	448.67	255.95	192.72	2.328	
5,300.00	5,261.47	5,250.47	5,250.47	12.84	184.06	13.04	-143.16	1,038.38	436.41	239.92	196.49	2.221	
5,400.00	5,360.68	5,349.68	5,349.68	13.11	187.58	13.42	-143.16	1,038.38	424.17	223.92	200.26	2.118	
5,500.00	5,459.88	5,448.88	5,448.88	13.38	191.09	13.83	-143.16	1,038.38	411.95	207.93	204.03	2.019	
5,600.00	5,559.09	5,548.09	5,548.09	13.65	194.61	14.26	-143.16	1,038.38	399.76	191.96	207.80	1.924	
5,700.00	5,658.30	5,647.30	5,647.30	13.93	198.12	14.72	-143.16	1,038.38	387.58	176.01	211.57	1.832	
5,800.00	5,757.50	5,746.50	5,746.50	14.20	201.64	15.20	-143.16	1,038.38	375.43	160.08	215.35	1.743	
5,900.00	5,856.71	5,845.71	5,845.71	14.48	205.15	15.72	-143.16	1,038.38	363.31	144.19	219.13	1.658	
6,000.00	5,955.92	5,944.92	5,944.92	14.76	208.67	16.28	-143.16	1,038.38	351.22	128.32	222.90	1.576	
6,100.00	6,055.13	6,044.13	6,044.13	15.04	212.18	16.87	-143.16	1,038.38	339.17	112.49	226.69	1.496	Level 3
6,200.00	6,154.33	6,143.33	6,143.33	15.32	215.70	17.51	-143.16	1,038.38	327.16	96.69	230.47	1.420	Level 3
6,300.00	6,253.54	6,242.54	6,242.54	15.61	219.21	18.20	-143.16	1,038.38	315.18	80.93	234.25	1.345	Level 3
6,400.00	6,352.75	6,341.75	6,341.75	15.89	222.73	18.94	-143.16	1,038.38	303.26	65.22	238.04	1.274	Level 3
6,500.00	6,451.95	6,440.95	6,440.95	16.17	226.24	19.72	-143.16	1,038.38	291.39	49.57	241.83	1.205	Level 2
6,582.61	6,534.36	6,523.36	6,523.36	16.34	229.16	-89.99	-143.16	1,038.38	286.52	41.60	244.91	1.170	Level 2, CC
6,600.00	6,551.74	6,540.74	6,540.74	16.37	229.78	-137.94	-143.16	1,038.38	286.73	41.17	245.56	1.168	Level 2, ES, SF
6,700.00	6,651.02	6,640.02	6,640.02	16.49	233.29	-153.21	-143.16	1,038.38	296.40	47.18	249.21	1.189	Level 2
6,800.00	6,747.36	6,736.36	6,736.36	16.57	236.71	-155.80	-143.16	1,038.38	320.46	67.75	252.71	1.268	Level 3
6,900.00	6,838.38	6,827.38	6,827.38	16.60	239.93	-157.62	-143.16	1,038.38	358.81	102.83	255.99	1.402	Level 3
7,000.00	6,921.84	6,910.84	6,910.84	16.62	242.89	-158.90	-143.16	1,038.38	410.92	151.95	258.97	1.587	
7,100.00	6,995.69	6,984.69	6,984.69	16.65	245.50	-159.43	-143.16	1,038.38	475.71	214.11	261.60	1.818	
7,200.00	7,058.11	7,047.11	7,047.11	16.73	247.72	-158.87	-143.16	1,038.38	551.62	287.80	263.83	2.091	
7,300.00	7,107.56	7,103.44	7,096.56	16.87	249.71	-156.50	-143.16	1,038.38	636.73	370.90	265.83	2.395	
7,400.00	7,142.82	7,131.82	7,131.82	17.11	250.72	-150.26	-143.16	1,038.38	728.85	462.01	266.85	2.731	
7,500.00	7,163.02	7,152.02	7,152.02	17.46	251.43	-132.03	-143.16	1,038.38	825.63	558.05	267.57	3.086	
7,600.00	7,168.04	7,157.04	7,157.04	17.92	251.61	-90.84	-143.16	1,038.38	924.59	656.82	267.77	3.453	
7,700.00	7,168.22	7,157.22	7,157.22	18.52	251.62	-90.93	-143.16	1,038.38	1,023.92	756.13	267.79	3.824	
7,800.00	7,168.40	7,157.40	7,157.40	19.24	251.62	-91.02	-143.16	1,038.38	1,123.37	855.56	267.81	4.195	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	97.35	-140.24	1,086.86	1,095.93								
100.00	100.00	89.00	89.00	3.28	3.56	97.35	-140.24	1,086.86	1,095.87	1,088.24	7.63	143.634					
200.00	200.00	189.00	189.00	3.31	5.73	97.35	-140.24	1,086.86	1,095.87	1,086.05	9.82	111.551					
300.00	299.98	288.98	288.98	3.35	8.87	4.86	-140.24	1,086.86	1,094.13	1,081.13	13.01	84.126					
400.00	399.84	388.84	388.84	3.41	12.22	4.90	-140.24	1,086.86	1,088.92	1,072.49	16.43	66.282					
500.00	499.45	488.45	488.45	3.50	15.65	4.95	-140.24	1,086.86	1,080.24	1,060.29	19.95	54.156					
600.00	598.74	587.74	587.74	3.62	19.11	5.02	-140.24	1,086.86	1,068.36	1,044.84	23.52	45.433					
700.00	697.94	686.94	686.94	3.76	22.58	5.08	-140.24	1,086.86	1,055.84	1,028.73	27.11	38.946					
800.00	797.15	786.15	786.15	3.93	26.06	5.14	-140.24	1,086.86	1,043.32	1,012.58	30.74	33.945					
900.00	896.36	885.36	885.36	4.12	29.55	5.20	-140.24	1,086.86	1,030.80	996.42	34.39	29.978					
1,000.00	995.56	984.56	984.56	4.33	33.05	5.26	-140.24	1,086.86	1,018.28	980.23	38.05	26.759					
1,100.00	1,094.77	1,083.77	1,083.77	4.56	36.55	5.33	-140.24	1,086.86	1,005.77	964.03	41.74	24.096					
1,200.00	1,193.98	1,182.98	1,182.98	4.79	40.05	5.40	-140.24	1,086.86	993.26	947.82	45.44	21.859					
1,300.00	1,293.19	1,282.19	1,282.19	5.04	43.55	5.47	-140.24	1,086.86	980.74	931.59	49.15	19.953					
1,400.00	1,392.39	1,381.39	1,381.39	5.30	47.06	5.54	-140.24	1,086.86	968.23	915.36	52.87	18.312					
1,500.00	1,491.60	1,480.60	1,480.60	5.56	50.57	5.61	-140.24	1,086.86	955.72	899.12	56.60	16.884					
1,600.00	1,590.81	1,579.81	1,579.81	5.84	54.07	5.68	-140.24	1,086.86	943.21	882.87	60.34	15.631					
1,700.00	1,690.01	1,679.01	1,679.01	6.12	57.58	5.76	-140.24	1,086.86	930.71	866.62	64.09	14.522					
1,800.00	1,789.22	1,778.22	1,778.22	6.40	61.09	5.84	-140.24	1,086.86	918.20	850.37	67.84	13.535					
1,900.00	1,888.43	1,877.43	1,877.43	6.55	64.60	5.92	-140.24	1,086.86	905.70	834.43	71.27	12.708					
2,000.00	1,987.64	1,976.64	1,976.64	6.58	68.11	6.00	-140.24	1,086.86	893.20	818.41	74.79	11.942					
2,100.00	2,086.84	2,075.84	2,075.84	6.63	71.63	6.09	-140.24	1,086.86	880.70	802.37	78.34	11.243					
2,200.00	2,186.05	2,175.05	2,175.05	6.68	75.14	6.18	-140.24	1,086.86	868.20	786.31	81.89	10.602					
2,300.00	2,285.26	2,274.26	2,274.26	6.75	78.65	6.27	-140.24	1,086.86	855.71	770.25	85.46	10.013					
2,400.00	2,384.46	2,373.46	2,373.46	6.84	82.16	6.36	-140.24	1,086.86	843.22	754.17	89.04	9.470					
2,500.00	2,483.67	2,472.67	2,472.67	6.94	85.67	6.46	-140.24	1,086.86	830.72	738.09	92.64	8.968					
2,600.00	2,582.88	2,571.88	2,571.88	7.05	89.19	6.56	-140.24	1,086.86	818.24	721.99	96.24	8.502					
2,700.00	2,682.09	2,671.09	2,671.09	7.17	92.70	6.66	-140.24	1,086.86	805.75	705.89	99.86	8.069					
2,800.00	2,781.29	2,770.29	2,770.29	7.30	96.21	6.76	-140.24	1,086.86	793.27	689.77	103.49	7.665					
2,900.00	2,880.50	2,869.50	2,869.50	7.45	99.73	6.87	-140.24	1,086.86	780.79	673.65	107.14	7.288					
3,000.00	2,979.71	2,968.71	2,968.71	7.60	103.24	6.98	-140.24	1,086.86	768.31	657.52	110.79	6.935					
3,100.00	3,078.91	3,067.91	3,067.91	7.76	106.75	7.10	-140.24	1,086.86	755.83	641.39	114.45	6.604					
3,200.00	3,178.12	3,167.12	3,167.12	7.94	110.27	7.22	-140.24	1,086.86	743.36	625.24	118.12	6.293					
3,300.00	3,277.33	3,266.33	3,266.33	8.12	113.78	7.34	-140.24	1,086.86	730.90	609.10	121.80	6.001					
3,400.00	3,376.53	3,365.53	3,365.53	8.31	117.29	7.47	-140.24	1,086.86	718.43	592.95	125.49	5.725					
3,500.00	3,475.74	3,464.74	3,464.74	8.50	120.81	7.60	-140.24	1,086.86	705.97	576.79	129.18	5.465					
3,600.00	3,574.95	3,563.95	3,563.95	8.70	124.32	7.74	-140.24	1,086.86	693.51	560.63	132.88	5.219					
3,700.00	3,674.16	3,663.16	3,663.16	8.91	127.83	7.88	-140.24	1,086.86	681.06	544.47	136.59	4.986					
3,800.00	3,773.36	3,762.36	3,762.36	9.13	131.35	8.03	-140.24	1,086.86	668.61	528.31	140.30	4.766					
3,900.00	3,872.57	3,861.57	3,861.57	9.35	134.86	8.19	-140.24	1,086.86	656.17	512.15	144.02	4.556					
4,000.00	3,971.78	3,960.78	3,960.78	9.57	138.38	8.34	-140.24	1,086.86	643.73	495.98	147.74	4.357					
4,100.00	4,070.98	4,059.98	4,059.98	9.80	141.89	8.51	-140.24	1,086.86	631.29	479.82	151.47	4.168					
4,200.00	4,170.19	4,159.19	4,159.19	10.04	145.41	8.68	-140.24	1,086.86	618.86	463.66	155.20	3.987					
4,300.00	4,269.40	4,258.40	4,258.40	10.28	148.92	8.86	-140.24	1,086.86	606.44	447.50	158.94	3.816					
4,400.00	4,368.61	4,357.61	4,357.61	10.52	152.43	9.05	-140.24	1,086.86	594.02	431.34	162.68	3.651					
4,500.00	4,467.81	4,456.81	4,456.81	10.77	155.95	9.24	-140.24	1,086.86	581.61	415.19	166.43	3.495					
4,600.00	4,567.02	4,556.02	4,556.02	11.02	159.46	9.45	-140.24	1,086.86	569.21	399.03	170.17	3.345					
4,700.00	4,666.23	4,655.23	4,655.23	11.27	162.98	9.66	-140.24	1,086.86	556.81	382.89	173.92	3.201					
4,800.00	4,765.43	4,754.43	4,754.43	11.52	166.49	9.88	-140.24	1,086.86	544.42	366.74	177.68	3.064					
4,900.00	4,864.64	4,853.64	4,853.64	11.78	170.01	10.11	-140.24	1,086.86	532.04	350.61	181.44	2.932					
5,000.00	4,963.85	4,952.85	4,952.85	12.04	173.52	10.36	-140.24	1,086.86	519.67	334.48	185.19	2.806					
5,100.00	5,063.06	5,052.06	5,052.06	12.31	177.03	10.61	-140.24	1,086.86	507.31	318.35	188.96	2.685					

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,151.26	5,151.26	12.57	180.55	10.88	-140.24	1,086.86	494.96	302.24	192.72	2.568	
5,300.00	5,261.47	5,250.47	5,250.47	12.84	184.06	11.16	-140.24	1,086.86	482.62	286.13	196.49	2.456	
5,400.00	5,360.68	5,349.68	5,349.68	13.11	187.58	11.46	-140.24	1,086.86	470.29	270.04	200.25	2.348	
5,500.00	5,459.88	5,448.88	5,448.88	13.38	191.09	11.77	-140.24	1,086.86	457.98	253.95	204.02	2.245	
5,600.00	5,559.09	5,548.09	5,548.09	13.65	194.61	12.10	-140.24	1,086.86	445.68	237.88	207.79	2.145	
5,700.00	5,658.30	5,647.30	5,647.30	13.93	198.12	12.45	-140.24	1,086.86	433.39	221.82	211.57	2.048	
5,800.00	5,757.50	5,746.50	5,746.50	14.20	201.64	12.81	-140.24	1,086.86	421.12	205.78	215.34	1.956	
5,900.00	5,856.71	5,845.71	5,845.71	14.48	205.15	13.20	-140.24	1,086.86	408.87	189.75	219.12	1.866	
6,000.00	5,955.92	5,944.92	5,944.92	14.76	208.67	13.62	-140.24	1,086.86	396.64	173.74	222.90	1.779	
6,100.00	6,055.13	6,044.13	6,044.13	15.04	212.18	14.06	-140.24	1,086.86	384.43	157.76	226.68	1.696	
6,200.00	6,154.33	6,143.33	6,143.33	15.32	215.70	14.53	-140.24	1,086.86	372.25	141.79	230.46	1.615	
6,300.00	6,253.54	6,242.54	6,242.54	15.61	219.21	15.03	-140.24	1,086.86	360.09	125.85	234.24	1.537	
6,400.00	6,352.75	6,341.75	6,341.75	15.89	222.73	15.57	-140.24	1,086.86	347.96	109.94	238.02	1.462	Level 3
6,500.00	6,451.95	6,440.95	6,440.95	16.17	226.24	16.12	-140.24	1,086.86	335.86	94.06	241.81	1.389	Level 3
6,582.13	6,533.87	6,522.87	6,522.87	16.34	229.14	-90.01	-140.24	1,086.86	330.92	86.04	244.88	1.351	Level 3, CC
6,600.00	6,551.74	6,540.74	6,540.74	16.37	229.78	-141.59	-140.24	1,086.86	331.15	85.61	245.54	1.349	Level 3, ES, SF
6,700.00	6,651.02	6,640.02	6,640.02	16.49	233.29	-156.66	-140.24	1,086.86	341.13	91.93	249.20	1.369	Level 3
6,800.00	6,747.36	6,736.36	6,736.36	16.57	236.71	-158.86	-140.24	1,086.86	365.76	113.05	252.71	1.447	Level 3
6,900.00	6,838.38	6,827.38	6,827.38	16.60	239.93	-160.24	-140.24	1,086.86	404.76	148.77	255.99	1.581	
7,000.00	6,921.84	6,910.84	6,910.84	16.62	242.89	-161.12	-140.24	1,086.86	457.46	198.49	258.98	1.766	
7,100.00	6,995.69	6,984.69	6,984.69	16.65	245.50	-161.35	-140.24	1,086.86	522.73	261.12	261.61	1.998	
7,200.00	7,058.11	7,047.11	7,047.11	16.73	247.72	-160.60	-140.24	1,086.86	599.01	335.18	263.83	2.270	
7,300.00	7,107.56	7,103.44	7,096.56	16.87	249.71	-158.18	-140.24	1,086.86	684.39	418.55	265.84	2.574	
7,400.00	7,142.82	7,131.82	7,131.82	17.11	250.72	-152.05	-140.24	1,086.86	776.70	509.85	266.85	2.911	
7,500.00	7,163.02	7,152.02	7,152.02	17.46	251.43	-133.95	-140.24	1,086.86	873.61	606.03	267.58	3.265	
7,600.00	7,168.04	7,157.04	7,157.04	17.92	251.61	-90.89	-140.24	1,086.86	972.67	704.90	267.77	3.633	
7,700.00	7,168.22	7,157.22	7,157.22	18.52	251.62	-90.99	-140.24	1,086.86	1,072.07	804.29	267.79	4.003	
7,800.00	7,168.40	7,157.40	7,157.40	19.24	251.62	-91.08	-140.24	1,086.86	1,171.58	903.77	267.81	4.375	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-132.45	-159.56	-174.41	236.39				
100.00	100.00	101.00	99.00	3.28	3.74	-132.45	-159.56	-174.41	236.39	228.57	7.82	30.232	
200.00	200.00	201.00	199.00	3.31	6.28	-132.45	-159.56	-174.41	236.39	226.02	10.37	22.790	
300.00	299.98	301.02	298.98	3.35	9.48	-135.33	-159.56	-174.41	237.63	224.01	13.62	17.448	
400.00	399.84	401.16	398.84	3.41	12.87	136.15	-159.56	-174.41	241.38	224.31	17.07	14.139	
500.00	499.45	501.55	498.45	3.50	16.33	137.45	-159.56	-174.41	247.74	227.12	20.63	12.011	
600.00	598.74	602.26	597.74	3.62	19.84	139.18	-159.56	-174.41	256.68	232.42	24.25	10.583	
700.00	697.94	703.06	696.94	3.76	23.37	140.94	-159.56	-174.41	266.34	238.43	27.92	9.540	
800.00	797.15	803.85	796.15	3.93	26.91	142.58	-159.56	-174.41	276.25	244.63	31.61	8.738	
900.00	896.36	904.64	895.36	4.12	30.46	144.10	-159.56	-174.41	286.36	251.02	35.33	8.104	
1,000.00	995.56	1,005.44	994.56	4.33	34.01	145.52	-159.56	-174.41	296.66	257.58	39.07	7.592	
1,100.00	1,094.77	1,106.23	1,093.77	4.56	37.57	146.85	-159.56	-174.41	307.13	264.30	42.83	7.171	
1,200.00	1,193.98	1,207.02	1,192.98	4.79	41.13	148.08	-159.56	-174.41	317.75	271.15	46.60	6.819	
1,300.00	1,293.19	1,307.81	1,292.19	5.04	44.69	149.24	-159.56	-174.41	328.50	278.13	50.38	6.521	
1,400.00	1,392.39	1,408.61	1,391.39	5.30	48.25	150.32	-159.56	-174.41	339.39	285.22	54.16	6.266	
1,500.00	1,491.60	1,509.40	1,490.60	5.56	51.81	151.34	-159.56	-174.41	350.38	292.42	57.96	6.045	
1,600.00	1,590.81	1,589.81	1,589.81	5.84	54.66	152.29	-159.56	-174.41	361.48	300.44	61.04	5.922	
1,700.00	1,690.01	1,689.01	1,689.01	6.12	58.17	153.19	-159.56	-174.41	372.67	307.87	64.80	5.751	
1,800.00	1,789.22	1,788.22	1,788.22	6.40	61.68	154.04	-159.56	-174.41	383.95	315.39	68.56	5.600	
1,900.00	1,888.43	1,887.43	1,887.43	6.55	65.19	154.83	-159.56	-174.41	395.30	323.31	71.99	5.491	
2,000.00	1,987.64	1,986.64	1,986.64	6.58	68.70	155.58	-159.56	-174.41	406.73	331.22	75.51	5.386	
2,100.00	2,086.84	2,085.84	2,085.84	6.63	72.21	156.29	-159.56	-174.41	418.22	339.17	79.05	5.291	
2,200.00	2,186.05	2,185.05	2,185.05	6.68	75.72	156.97	-159.56	-174.41	429.77	347.17	82.60	5.203	
2,300.00	2,285.26	2,284.26	2,284.26	6.75	79.23	157.60	-159.56	-174.41	441.38	355.21	86.17	5.122	
2,400.00	2,384.46	2,383.46	2,383.46	6.84	82.75	158.21	-159.56	-174.41	453.04	363.29	89.75	5.048	
2,500.00	2,483.67	2,482.67	2,482.67	6.94	86.26	158.78	-159.56	-174.41	464.74	371.40	93.34	4.979	
2,600.00	2,582.88	2,581.88	2,581.88	7.05	89.77	159.33	-159.56	-174.41	476.49	379.54	96.95	4.915	
2,700.00	2,682.09	2,681.09	2,681.09	7.17	93.28	159.85	-159.56	-174.41	488.28	387.71	100.57	4.855	
2,800.00	2,781.29	2,780.29	2,780.29	7.30	96.80	160.35	-159.56	-174.41	500.11	395.91	104.20	4.799	
2,900.00	2,880.50	2,879.50	2,879.50	7.45	100.31	160.82	-159.56	-174.41	511.97	404.13	107.84	4.747	
3,000.00	2,979.71	2,978.71	2,978.71	7.60	103.82	161.27	-159.56	-174.41	523.87	412.38	111.49	4.699	
3,100.00	3,078.91	3,077.91	3,077.91	7.76	107.34	161.70	-159.56	-174.41	535.80	420.64	115.16	4.653	
3,200.00	3,178.12	3,177.12	3,177.12	7.94	110.85	162.11	-159.56	-174.41	547.75	428.93	118.83	4.610	
3,300.00	3,277.33	3,276.33	3,276.33	8.12	114.36	162.51	-159.56	-174.41	559.74	437.23	122.51	4.569	
3,400.00	3,376.53	3,375.53	3,375.53	8.31	117.88	162.89	-159.56	-174.41	571.74	445.55	126.19	4.531	
3,500.00	3,475.74	3,474.74	3,474.74	8.50	121.39	163.25	-159.56	-174.41	583.77	453.89	129.89	4.494	
3,600.00	3,574.95	3,573.95	3,573.95	8.70	124.91	163.60	-159.56	-174.41	595.83	462.24	133.59	4.460	
3,700.00	3,674.16	3,673.16	3,673.16	8.91	128.42	163.93	-159.56	-174.41	607.90	470.60	137.30	4.428	
3,800.00	3,773.36	3,772.36	3,772.36	9.13	131.93	164.25	-159.56	-174.41	620.00	478.98	141.01	4.397	
3,900.00	3,872.57	3,871.57	3,871.57	9.35	135.45	164.56	-159.56	-174.41	632.11	487.38	144.73	4.367	
4,000.00	3,971.78	3,970.78	3,970.78	9.57	138.96	164.86	-159.56	-174.41	644.24	495.78	148.46	4.340	
4,100.00	4,070.98	4,069.98	4,069.98	9.80	142.48	165.15	-159.56	-174.41	656.38	504.20	152.19	4.313	
4,200.00	4,170.19	4,169.19	4,169.19	10.04	145.99	165.42	-159.56	-174.41	668.55	512.63	155.92	4.288	
4,300.00	4,269.40	4,268.40	4,268.40	10.28	149.50	165.69	-159.56	-174.41	680.72	521.06	159.66	4.264	
4,400.00	4,368.61	4,367.61	4,367.61	10.52	153.02	165.94	-159.56	-174.41	692.91	529.51	163.40	4.241	
4,500.00	4,467.81	4,466.81	4,466.81	10.77	156.53	166.19	-159.56	-174.41	705.12	537.97	167.15	4.219	
4,600.00	4,567.02	4,566.02	4,566.02	11.02	160.05	166.43	-159.56	-174.41	717.33	546.44	170.90	4.197	
4,700.00	4,666.23	4,665.23	4,665.23	11.27	163.56	166.66	-159.56	-174.41	729.56	554.91	174.65	4.177	
4,800.00	4,765.43	4,764.43	4,764.43	11.52	167.08	166.89	-159.56	-174.41	741.80	563.40	178.40	4.158	
4,900.00	4,864.64	4,863.64	4,863.64	11.78	170.59	167.10	-159.56	-174.41	754.05	571.89	182.16	4.139	
5,000.00	4,963.85	4,962.85	4,962.85	12.04	174.10	167.31	-159.56	-174.41	766.31	580.39	185.92	4.122	
5,100.00	5,063.06	5,062.06	5,062.06	12.31	177.62	167.52	-159.56	-174.41	778.58	588.90	189.69	4.105	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,161.26	5,161.26	12.57	181.13	167.71	-159.56	-174.41	790.86	597.41	193.45	4.088	
5,300.00	5,261.47	5,260.47	5,260.47	12.84	184.65	167.90	-159.56	-174.41	803.15	605.94	197.22	4.072	
5,400.00	5,360.68	5,359.68	5,359.68	13.11	188.16	168.09	-159.56	-174.41	815.45	614.46	200.99	4.057	
5,500.00	5,459.88	5,458.88	5,458.88	13.38	191.68	168.27	-159.56	-174.41	827.76	623.00	204.76	4.043	
5,600.00	5,559.09	5,558.09	5,558.09	13.65	195.19	168.44	-159.56	-174.41	840.07	631.54	208.53	4.029	
5,700.00	5,658.30	5,657.30	5,657.30	13.93	198.71	168.61	-159.56	-174.41	852.39	640.08	212.31	4.015	
5,800.00	5,757.50	5,756.50	5,756.50	14.20	202.22	168.78	-159.56	-174.41	864.72	648.64	216.08	4.002	
5,900.00	5,856.71	5,855.71	5,855.71	14.48	205.74	168.94	-159.56	-174.41	877.05	657.19	219.86	3.989	
6,000.00	5,955.92	5,954.92	5,954.92	14.76	209.25	169.09	-159.56	-174.41	889.39	665.76	223.64	3.977	
6,100.00	6,055.13	6,054.13	6,054.13	15.04	212.77	169.24	-159.56	-174.41	901.74	674.32	227.42	3.965	
6,200.00	6,154.33	6,153.33	6,153.33	15.32	216.28	169.39	-159.56	-174.41	914.09	682.89	231.20	3.954	
6,300.00	6,253.54	6,252.54	6,252.54	15.61	219.80	169.53	-159.56	-174.41	926.45	691.47	234.98	3.943	
6,400.00	6,352.75	6,351.75	6,351.75	15.89	223.31	169.67	-159.56	-174.41	938.82	700.05	238.77	3.932	
6,500.00	6,451.95	6,450.95	6,450.95	16.17	226.82	169.79	-159.56	-174.41	951.19	708.64	242.55	3.922	
6,600.00	6,551.74	6,550.74	6,550.74	16.37	230.36	12.23	-159.56	-174.41	955.73	709.44	246.28	3.881	
6,700.00	6,651.02	6,650.02	6,650.02	16.49	233.88	-2.43	-159.56	-174.41	944.67	694.73	249.94	3.780	
6,800.00	6,747.36	6,746.36	6,746.36	16.57	237.29	-4.15	-159.56	-174.41	918.28	664.83	253.46	3.623	
6,900.00	6,838.38	6,837.38	6,837.38	16.60	240.52	-5.32	-159.56	-174.41	877.23	620.49	256.75	3.417	
7,000.00	6,921.84	6,920.84	6,920.84	16.62	243.47	-6.69	-159.56	-174.41	822.55	562.80	259.75	3.167	
7,100.00	6,995.69	7,005.31	6,994.69	16.65	246.47	-8.70	-159.56	-174.41	755.60	492.83	262.76	2.876	
7,200.00	7,058.11	7,057.11	7,057.11	16.73	248.30	-12.03	-159.56	-174.41	678.09	413.47	264.62	2.563	
7,300.00	7,107.56	7,106.56	7,106.56	16.87	250.05	-18.18	-159.56	-174.41	592.00	325.62	266.39	2.222	
7,400.00	7,142.82	7,141.82	7,141.82	17.11	251.30	-31.14	-159.56	-174.41	499.62	231.95	267.67	1.867	
7,500.00	7,163.02	7,162.02	7,162.02	17.46	252.02	-59.50	-159.56	-174.41	403.48	135.04	268.44	1.503	
7,600.00	7,168.04	7,167.04	7,167.04	17.92	252.20	-89.64	-159.56	-174.41	306.58	37.83	268.75	1.141 Level 2	
7,700.00	7,168.22	7,167.22	7,167.22	18.52	252.20	-89.76	-159.56	-174.41	212.19	-56.92	269.11	0.788 Level 1	
7,800.00	7,168.40	7,167.40	7,167.40	19.24	252.21	-89.88	-159.56	-174.41	126.73	-143.62	270.35	0.469 Level 1	
7,894.83	7,168.57	7,167.57	7,167.57	20.04	252.21	-90.00	-159.56	-174.41	84.07	-188.75	272.82	0.308 Level 1, CC, ES, SF	
7,900.00	7,168.58	7,167.58	7,167.58	20.08	252.21	-90.01	-159.56	-174.41	84.23	-188.59	272.82	0.309 Level 1	
8,000.00	7,168.76	7,167.76	7,167.76	21.02	252.22	-90.13	-159.56	-174.41	134.65	-135.86	270.51	0.498 Level 1	
8,100.00	7,168.94	7,167.94	7,167.94	22.04	252.23	-90.25	-159.56	-174.41	221.73	-47.64	269.37	0.823 Level 1	
8,200.00	7,169.12	7,168.12	7,168.12	23.14	252.23	-90.37	-159.56	-174.41	316.54	47.53	269.01	1.177 Level 2	
8,300.00	7,169.29	7,168.29	7,168.29	24.31	252.24	-90.50	-159.56	-174.41	413.81	144.94	268.87	1.539	
8,400.00	7,169.47	7,168.47	7,168.47	25.53	252.25	-90.62	-159.56	-174.41	512.12	243.31	268.81	1.905	
8,500.00	7,169.65	7,168.65	7,168.65	26.80	252.25	-90.74	-159.56	-174.41	610.99	342.20	268.79	2.273	
8,600.00	7,169.83	7,168.83	7,168.83	28.12	252.26	-90.86	-159.56	-174.41	710.17	441.38	268.79	2.642	
8,700.00	7,170.01	7,169.01	7,169.01	29.46	252.26	-90.98	-159.56	-174.41	809.55	540.76	268.80	3.012	
8,800.00	7,170.19	7,169.19	7,169.19	30.84	252.27	-91.11	-159.56	-174.41	909.07	640.26	268.81	3.382	
8,900.00	7,170.37	7,169.37	7,169.37	32.25	252.28	-91.23	-159.56	-174.41	1,008.68	739.85	268.84	3.752	
9,000.00	7,170.55	7,169.55	7,169.55	33.68	252.28	-91.35	-159.56	-174.41	1,108.37	839.50	268.87	4.122	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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												<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	7,170.01	7,206.99	7,193.01	29.46	253.61	-89.94	-1,121.26	-1,525.74	1,152.44	871.51	280.92	4.102	
8,800.00	7,170.19	7,206.81	7,193.19	30.84	253.60	-89.95	-1,121.26	-1,525.74	1,105.44	822.60	282.85	3.908	
8,900.00	7,170.37	7,206.63	7,193.37	32.25	253.60	-89.96	-1,121.26	-1,525.74	1,065.79	780.93	284.86	3.741	
9,000.00	7,170.55	7,206.45	7,193.55	33.68	253.59	-89.97	-1,121.26	-1,525.74	1,034.31	747.42	286.89	3.605	
9,100.00	7,170.73	7,206.27	7,193.73	35.13	253.59	-89.98	-1,121.26	-1,525.74	1,011.78	722.92	288.86	3.503	
9,200.00	7,170.91	7,206.09	7,193.91	36.60	253.58	-89.99	-1,121.26	-1,525.74	998.79	708.12	290.67	3.436	
9,280.53	7,171.05	7,205.95	7,194.05	37.80	253.57	-90.00	-1,121.26	-1,525.74	995.54	703.59	291.95	3.410 CC	
9,300.00	7,171.09	7,205.91	7,194.09	38.09	253.57	-90.00	-1,121.26	-1,525.74	995.73	703.50	292.24	3.407 ES, SF	
9,400.00	7,171.27	7,205.73	7,194.27	39.59	253.57	-90.01	-1,121.26	-1,525.74	1,002.68	709.18	293.50	3.416	
9,500.00	7,171.45	7,205.55	7,194.45	41.10	253.56	-90.02	-1,121.26	-1,525.74	1,019.45	725.02	294.43	3.462	
9,600.00	7,171.63	7,205.37	7,194.63	42.62	253.55	-90.03	-1,121.26	-1,525.74	1,045.55	750.52	295.03	3.544	
9,700.00	7,171.80	7,205.20	7,194.80	44.17	253.55	-90.05	-1,121.26	-1,525.74	1,082.00	786.67	295.32	3.664	
9,800.00	7,171.98	7,205.02	7,194.98	45.71	253.54	-90.06	-1,121.26	-1,525.74	1,127.59	832.23	295.36	3.818	
9,900.00	7,172.16	7,204.84	7,195.16	47.27	253.53	-90.07	-1,121.26	-1,525.74	1,179.92	884.71	295.21	3.997	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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
<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	
8,500.00	7,169.65	7,175.65	7,175.65	26.80	252.50	89.27	19.01	-1,907.36	1,131.14	862.10	269.04	4.204	
8,600.00	7,169.83	7,175.83	7,175.83	28.12	252.51	89.34	19.01	-1,907.36	1,032.21	763.03	269.18	3.835	
8,700.00	7,170.01	7,176.01	7,176.01	29.46	252.51	89.40	19.01	-1,907.36	933.52	664.15	269.37	3.466	
8,800.00	7,170.19	7,176.19	7,176.19	30.84	252.52	89.47	19.01	-1,907.36	835.13	565.50	269.63	3.097	
8,900.00	7,170.37	7,176.37	7,176.37	32.25	252.53	89.53	19.01	-1,907.36	737.18	467.18	270.00	2.730	
9,000.00	7,170.55	7,176.55	7,176.55	33.68	252.53	89.60	19.01	-1,907.36	639.86	369.31	270.55	2.365	
9,100.00	7,170.73	7,176.73	7,176.73	35.13	252.54	89.66	19.01	-1,907.36	543.52	272.11	271.40	2.003	
9,200.00	7,170.91	7,176.91	7,176.91	36.60	252.54	89.73	19.01	-1,907.36	448.78	175.97	272.81	1.645	
9,300.00	7,171.09	7,177.09	7,177.09	38.09	252.55	89.79	19.01	-1,907.36	356.92	81.68	275.24	1.297	Level 3
9,400.00	7,171.27	7,177.27	7,177.27	39.59	252.56	89.86	19.01	-1,907.36	270.88	-8.75	279.63	0.969	Level 1
9,500.00	7,171.45	7,177.45	7,177.45	41.10	252.56	89.92	19.01	-1,907.36	198.41	-88.88	287.29	0.691	Level 1
9,600.00	7,171.63	7,177.63	7,177.63	42.62	252.57	89.99	19.01	-1,907.36	159.23	-136.26	295.49	0.539	Level 1
9,621.35	7,171.66	7,177.66	7,177.66	42.95	252.57	90.00	19.01	-1,907.36	157.87	-138.24	296.11	0.533	Level 1, CC, ES, SF
9,700.00	7,171.80	7,177.80	7,177.80	44.17	252.58	90.05	19.01	-1,907.36	175.38	-117.77	293.15	0.598	Level 1
9,800.00	7,171.98	7,177.98	7,177.98	45.71	252.58	90.11	19.01	-1,907.36	235.91	-49.33	285.24	0.827	Level 1
9,900.00	7,172.16	7,178.16	7,178.16	47.27	252.59	90.18	19.01	-1,907.36	317.09	37.41	279.68	1.134	Level 2
10,000.00	7,172.34	7,178.34	7,178.34	48.83	252.60	90.24	19.01	-1,907.36	406.75	130.30	276.44	1.471	Level 3
10,100.00	7,172.52	7,178.52	7,178.52	50.41	252.60	90.31	19.01	-1,907.36	500.34	225.81	274.52	1.823	
10,200.00	7,172.70	7,178.70	7,178.70	51.98	252.61	90.37	19.01	-1,907.36	596.01	322.68	273.34	2.181	
10,300.00	7,172.88	7,178.88	7,178.88	53.57	252.61	90.44	19.01	-1,907.36	692.91	420.34	272.57	2.542	
10,400.00	7,173.06	7,179.06	7,179.06	55.15	252.62	90.50	19.01	-1,907.36	790.58	518.52	272.06	2.906	
10,500.00	7,173.24	7,179.24	7,179.24	56.75	252.63	90.57	19.01	-1,907.36	888.77	617.06	271.71	3.271	
10,600.00	7,173.42	7,179.42	7,179.42	58.34	252.63	90.63	19.01	-1,907.36	987.32	715.85	271.47	3.637	
10,700.00	7,173.60	7,179.60	7,179.60	59.94	252.64	90.69	19.01	-1,907.36	1,086.14	814.83	271.31	4.003	
10,800.00	7,173.78	7,179.78	7,179.78	61.55	252.65	90.76	19.01	-1,907.36	1,185.15	913.96	271.20	4.370	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 29-6H6 - 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	
0.00	0.00	7.00	-7.00	3.28	3.28	-172.29	-1,165.02	-157.70	1,175.64				
100.00	100.00	107.00	93.00	3.28	3.85	-172.29	-1,165.02	-157.70	1,175.64	1,167.72	7.93	148.323	
200.00	200.00	207.00	193.00	3.31	6.46	-172.29	-1,165.02	-157.70	1,175.64	1,165.09	10.55	111.386	
300.00	299.98	307.02	292.98	3.35	9.68	95.29	-1,165.02	-157.70	1,175.80	1,161.98	13.82	85.088	
400.00	399.84	407.16	392.84	3.41	13.07	95.53	-1,165.02	-157.70	1,176.30	1,159.02	17.28	68.091	
500.00	499.45	507.55	492.45	3.50	16.54	95.94	-1,165.02	-157.70	1,177.17	1,156.34	20.83	56.508	
600.00	598.74	608.26	591.74	3.62	20.05	96.49	-1,165.02	-157.70	1,178.47	1,154.01	24.46	48.178	
700.00	697.94	709.06	690.94	3.76	23.58	97.10	-1,165.02	-157.70	1,179.97	1,151.83	28.14	41.936	
800.00	797.15	809.85	790.15	3.93	27.12	97.70	-1,165.02	-157.70	1,181.60	1,149.75	31.85	37.101	
900.00	896.36	889.36	889.36	4.12	29.92	98.29	-1,165.02	-157.70	1,183.36	1,148.53	34.84	33.969	
1,000.00	995.56	988.56	988.56	4.33	33.42	98.89	-1,165.02	-157.70	1,185.26	1,146.72	38.54	30.754	
1,100.00	1,094.77	1,087.77	1,087.77	4.56	36.92	99.49	-1,165.02	-157.70	1,187.28	1,145.01	42.26	28.092	
1,200.00	1,193.98	1,186.98	1,186.98	4.79	40.42	100.08	-1,165.02	-157.70	1,189.43	1,143.43	46.00	25.856	
1,300.00	1,293.19	1,286.19	1,286.19	5.04	43.92	100.67	-1,165.02	-157.70	1,191.71	1,141.96	49.75	23.952	
1,400.00	1,392.39	1,385.39	1,385.39	5.30	47.43	101.26	-1,165.02	-157.70	1,194.12	1,140.60	53.52	22.313	
1,500.00	1,491.60	1,484.60	1,484.60	5.56	50.94	101.84	-1,165.02	-157.70	1,196.65	1,139.37	57.29	20.888	
1,600.00	1,590.81	1,583.81	1,583.81	5.84	54.45	102.43	-1,165.02	-157.70	1,199.32	1,138.25	61.07	19.638	
7,500.00	7,163.02	7,156.02	7,156.02	17.46	251.80	-87.27	-1,165.02	-157.70	1,165.81	896.02	269.79	4.321	
7,600.00	7,168.04	7,161.04	7,161.04	17.92	251.98	-89.97	-1,165.02	-157.70	1,134.09	863.65	270.44	4.193	
7,700.00	7,168.22	7,161.22	7,161.22	18.52	251.99	-89.98	-1,165.02	-157.70	1,110.48	839.42	271.06	4.097	
7,800.00	7,168.40	7,161.40	7,161.40	19.24	252.00	-89.99	-1,165.02	-157.70	1,095.52	823.70	271.82	4.030	
7,900.00	7,168.58	7,161.58	7,161.58	20.08	252.00	-90.00	-1,165.02	-157.70	1,089.57	816.91	272.66	3.996	
7,915.02	7,168.60	7,161.60	7,161.60	20.22	252.00	-90.00	-1,165.02	-157.70	1,089.46	816.67	272.79	3.994 CC, ES, SF	
8,000.00	7,168.76	7,161.76	7,161.76	21.02	252.01	-90.01	-1,165.02	-157.70	1,092.77	819.23	273.54	3.995	
8,100.00	7,168.94	7,161.94	7,161.94	22.04	252.01	-90.02	-1,165.02	-157.70	1,105.06	830.63	274.43	4.027	
8,200.00	7,169.12	7,162.12	7,162.12	23.14	252.02	-90.03	-1,165.02	-157.70	1,126.12	850.86	275.27	4.091	
8,300.00	7,169.29	7,162.29	7,162.29	24.31	252.03	-90.04	-1,165.02	-157.70	1,155.49	879.45	276.03	4.186	
8,400.00	7,169.47	7,162.47	7,162.47	25.53	252.03	-90.05	-1,165.02	-157.70	1,192.54	915.83	276.71	4.310	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	13.72	13.72	3.28	3.28	-122.64	-629.13	-982.13	1,166.35				
100.00	100.00	105.66	105.66	3.28	3.28	-122.64	-629.33	-982.52	1,166.83	1,159.47	7.36	158.554	
200.00	200.00	205.54	205.53	3.31	3.32	-122.64	-629.80	-983.17	1,167.63	1,160.22	7.42	157.466	
300.00	299.98	303.97	303.96	3.35	3.38	144.87	-630.47	-983.79	1,169.95	1,162.43	7.52	155.574	
400.00	399.84	409.66	409.64	3.41	3.47	144.95	-631.22	-984.18	1,174.93	1,167.25	7.68	153.019	
500.00	499.45	506.11	506.09	3.50	3.58	145.06	-632.04	-984.37	1,182.70	1,174.83	7.88	150.154	
600.00	598.74	609.62	609.60	3.62	3.72	145.30	-632.87	-984.50	1,193.04	1,184.91	8.13	146.713	
7,700.00	7,168.22	7,236.86	7,235.86	18.52	18.70	-95.02	-684.44	-1,000.81	1,191.06	1,155.14	35.92	33.157	
7,800.00	7,168.40	7,232.84	7,231.85	19.24	18.69	-94.62	-684.52	-1,000.97	1,104.81	1,068.55	36.26	30.467	
7,900.00	7,168.58	7,228.92	7,227.93	20.08	18.69	-94.24	-684.59	-1,001.13	1,021.05	984.31	36.74	27.788	
8,000.00	7,168.76	7,225.10	7,224.11	21.02	18.69	-93.86	-684.66	-1,001.28	940.46	903.05	37.41	25.140	
8,100.00	7,168.94	7,221.36	7,220.39	22.04	18.69	-93.49	-684.74	-1,001.43	863.92	825.61	38.31	22.552	
8,200.00	7,169.12	7,217.72	7,216.75	23.14	18.68	-93.13	-684.81	-1,001.57	792.61	753.12	39.49	20.073	
8,300.00	7,169.29	7,217.49	7,216.52	24.31	18.68	-93.11	-684.76	-1,001.59	728.02	687.03	40.99	17.761	
8,400.00	7,169.47	7,213.28	7,212.31	25.53	18.68	-92.69	-684.87	-1,001.75	672.19	629.40	42.79	15.710	
8,500.00	7,169.65	7,209.12	7,208.16	26.80	18.68	-92.28	-684.98	-1,001.90	627.41	582.60	44.80	14.003	
8,600.00	7,169.83	7,205.01	7,204.04	28.12	18.67	-91.88	-685.09	-1,002.05	596.16	549.31	46.85	12.724	
8,700.00	7,170.01	7,200.94	7,199.98	29.46	18.67	-91.47	-685.19	-1,002.20	580.64	531.99	48.65	11.934	
8,741.43	7,170.09	7,199.26	7,198.31	30.03	18.67	-91.31	-685.23	-1,002.26	579.17	529.90	49.26	11.756 CC, ES	
8,800.00	7,170.19	7,196.91	7,195.95	30.84	18.66	-91.08	-685.29	-1,002.34	582.12	532.17	49.94	11.656 SF	
8,900.00	7,170.37	7,192.93	7,191.98	32.25	18.66	-90.68	-685.38	-1,002.49	600.45	549.86	50.59	11.869	
9,000.00	7,170.55	7,188.99	7,188.04	33.68	18.66	-90.29	-685.47	-1,002.63	634.19	583.56	50.63	12.525	
9,100.00	7,170.73	7,185.09	7,184.15	35.13	18.65	-89.91	-685.55	-1,002.77	681.05	630.81	50.24	13.556	
9,200.00	7,170.91	7,181.24	7,180.30	36.60	18.65	-89.53	-685.63	-1,002.91	738.53	688.94	49.59	14.892	
9,300.00	7,171.09	7,177.43	7,176.49	38.09	18.65	-89.15	-685.71	-1,003.04	804.37	755.53	48.83	16.472	
9,400.00	7,171.27	7,173.65	7,172.72	39.59	18.64	-88.78	-685.78	-1,003.17	876.67	828.61	48.06	18.241	
9,500.00	7,171.45	7,169.92	7,168.99	41.10	18.64	-88.41	-685.85	-1,003.30	953.98	906.66	47.32	20.158	
9,600.00	7,171.63	7,166.23	7,165.30	42.62	18.64	-88.04	-685.91	-1,003.43	1,035.17	988.52	46.65	22.190	
9,700.00	7,171.80	7,162.60	7,161.68	44.17	18.63	-87.56	-685.97	-1,003.56	1,120.34	1,074.27	46.07	24.320	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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) - UPV 29-2H6 - Noble SI Well - No Surveys													Offset Site Error: 0.00 usft	
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	98.76	-174.11	1,129.49	1,143.08					
100.00	100.00	76.00	76.00	3.28	3.55	98.76	-174.11	1,129.49	1,142.83	1,135.21	7.62	149.979		
200.00	200.00	176.00	176.00	3.31	5.54	98.76	-174.11	1,129.49	1,142.83	1,133.20	9.64	118.592		
300.00	299.98	275.98	275.98	3.35	8.65	6.28	-174.11	1,129.49	1,141.10	1,128.30	12.79	89.202		
400.00	399.84	375.84	375.84	3.41	12.00	6.32	-174.11	1,129.49	1,135.90	1,119.69	16.21	70.088		
500.00	499.45	475.45	475.45	3.50	15.43	6.38	-174.11	1,129.49	1,127.23	1,107.51	19.72	57.157		
600.00	598.74	574.74	574.74	3.62	18.88	6.47	-174.11	1,129.49	1,115.38	1,092.10	23.29	47.895		
700.00	697.94	673.94	673.94	3.76	22.35	6.54	-174.11	1,129.49	1,102.90	1,076.01	26.88	41.027		
800.00	797.15	773.15	773.15	3.93	25.83	6.62	-174.11	1,129.49	1,090.41	1,059.90	30.51	35.743		
900.00	896.36	872.36	872.36	4.12	29.32	6.69	-174.11	1,129.49	1,077.92	1,043.77	34.16	31.559		
1,000.00	995.56	971.56	971.56	4.33	32.82	6.77	-174.11	1,129.49	1,065.44	1,027.62	37.83	28.168		
1,100.00	1,094.77	1,070.77	1,070.77	4.56	36.32	6.85	-174.11	1,129.49	1,052.96	1,011.45	41.51	25.366		
1,200.00	1,193.98	1,169.98	1,169.98	4.79	39.82	6.94	-174.11	1,129.49	1,040.48	995.27	45.21	23.014		
1,300.00	1,293.19	1,269.19	1,269.19	5.04	43.32	7.02	-174.11	1,129.49	1,028.01	979.09	48.92	21.013		
1,400.00	1,392.39	1,368.39	1,368.39	5.30	46.83	7.11	-174.11	1,129.49	1,015.53	962.89	52.64	19.291		
1,500.00	1,491.60	1,467.60	1,467.60	5.56	50.34	7.20	-174.11	1,129.49	1,003.06	946.69	56.37	17.793		
1,600.00	1,590.81	1,566.81	1,566.81	5.84	53.84	7.29	-174.11	1,129.49	990.59	930.48	60.11	16.479		
1,700.00	1,690.01	1,666.01	1,666.01	6.12	57.35	7.38	-174.11	1,129.49	978.13	914.27	63.86	15.317		
1,800.00	1,789.22	1,765.22	1,765.22	6.40	60.86	7.48	-174.11	1,129.49	965.66	898.05	67.61	14.283		
1,900.00	1,888.43	1,864.43	1,864.43	6.55	64.37	7.58	-174.11	1,129.49	953.20	882.16	71.04	13.418		
2,000.00	1,987.64	1,963.64	1,963.64	6.58	67.88	7.68	-174.11	1,129.49	940.74	866.18	74.56	12.616		
2,100.00	2,086.84	2,062.84	2,062.84	6.63	71.40	7.78	-174.11	1,129.49	928.29	850.18	78.11	11.885		
2,200.00	2,186.05	2,162.05	2,162.05	6.68	74.91	7.89	-174.11	1,129.49	915.83	834.17	81.66	11.215		
2,300.00	2,285.26	2,261.26	2,261.26	6.75	78.42	8.00	-174.11	1,129.49	903.38	818.15	85.23	10.599		
2,400.00	2,384.46	2,360.46	2,360.46	6.84	81.93	8.11	-174.11	1,129.49	890.94	802.13	88.81	10.032		
2,500.00	2,483.67	2,459.67	2,459.67	6.94	85.44	8.22	-174.11	1,129.49	878.50	786.09	92.41	9.507		
2,600.00	2,582.88	2,558.88	2,558.88	7.05	88.96	8.34	-174.11	1,129.49	866.06	770.04	96.01	9.020		
2,700.00	2,682.09	2,658.09	2,658.09	7.17	92.47	8.46	-174.11	1,129.49	853.62	753.99	99.63	8.568		
2,800.00	2,781.29	2,757.29	2,757.29	7.30	95.98	8.59	-174.11	1,129.49	841.19	737.93	103.26	8.146		
2,900.00	2,880.50	2,856.50	2,856.50	7.45	99.50	8.72	-174.11	1,129.49	828.76	721.86	106.91	7.752		
3,000.00	2,979.71	2,955.71	2,955.71	7.60	103.01	8.85	-174.11	1,129.49	816.34	705.78	110.56	7.384		
3,100.00	3,078.91	3,054.91	3,054.91	7.76	106.52	8.99	-174.11	1,129.49	803.92	689.70	114.22	7.038		
3,200.00	3,178.12	3,154.12	3,154.12	7.94	110.04	9.13	-174.11	1,129.49	791.51	673.62	117.89	6.714		
3,300.00	3,277.33	3,253.33	3,253.33	8.12	113.55	9.28	-174.11	1,129.49	779.10	657.53	121.57	6.409		
3,400.00	3,376.53	3,352.53	3,352.53	8.31	117.06	9.43	-174.11	1,129.49	766.70	641.44	125.26	6.121		
3,500.00	3,475.74	3,451.74	3,451.74	8.50	120.58	9.59	-174.11	1,129.49	754.30	625.35	128.95	5.850		
3,600.00	3,574.95	3,550.95	3,550.95	8.70	124.09	9.75	-174.11	1,129.49	741.91	609.26	132.65	5.593		
3,700.00	3,674.16	3,650.16	3,650.16	8.91	127.60	9.92	-174.11	1,129.49	729.52	593.16	136.36	5.350		
3,800.00	3,773.36	3,749.36	3,749.36	9.13	131.12	10.09	-174.11	1,129.49	717.14	577.07	140.07	5.120		
3,900.00	3,872.57	3,848.57	3,848.57	9.35	134.63	10.27	-174.11	1,129.49	704.77	560.98	143.79	4.901		
4,000.00	3,971.78	3,947.78	3,947.78	9.57	138.15	10.45	-174.11	1,129.49	692.40	544.89	147.51	4.694		
4,100.00	4,070.98	4,046.98	4,046.98	9.80	141.66	10.65	-174.11	1,129.49	680.04	528.80	151.24	4.496		
4,200.00	4,170.19	4,146.19	4,146.19	10.04	145.17	10.85	-174.11	1,129.49	667.69	512.72	154.97	4.308		
4,300.00	4,269.40	4,245.40	4,245.40	10.28	148.69	11.05	-174.11	1,129.49	655.35	496.64	158.71	4.129		
4,400.00	4,368.61	4,344.61	4,344.61	10.52	152.20	11.27	-174.11	1,129.49	643.01	480.56	162.45	3.958		
4,500.00	4,467.81	4,443.81	4,443.81	10.77	155.72	11.49	-174.11	1,129.49	630.69	464.49	166.20	3.795		
4,600.00	4,567.02	4,543.02	4,543.02	11.02	159.23	11.72	-174.11	1,129.49	618.38	448.43	169.95	3.639		
4,700.00	4,666.23	4,642.23	4,642.23	11.27	162.75	11.96	-174.11	1,129.49	606.07	432.37	173.70	3.489		
4,800.00	4,765.43	4,741.43	4,741.43	11.52	166.26	12.21	-174.11	1,129.49	593.78	416.33	177.45	3.346		
4,900.00	4,864.64	4,840.64	4,840.64	11.78	169.78	12.48	-174.11	1,129.49	581.50	400.29	181.21	3.209		
5,000.00	4,963.85	4,939.85	4,939.85	12.04	173.29	12.75	-174.11	1,129.49	569.23	384.26	184.97	3.077		
5,100.00	5,063.06	5,039.06	5,039.06	12.31	176.80	13.04	-174.11	1,129.49	556.97	368.24	188.73	2.951		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							
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	5,162.26	5,138.26	5,138.26	12.57	180.32	13.33	-174.11	1,129.49	544.73	352.24	192.49	2.830	
5,300.00	5,261.47	5,237.47	5,237.47	12.84	183.83	13.64	-174.11	1,129.49	532.50	336.24	196.26	2.713	
5,400.00	5,360.68	5,336.68	5,336.68	13.11	187.35	13.97	-174.11	1,129.49	520.29	320.26	200.03	2.601	
5,500.00	5,459.88	5,435.88	5,435.88	13.38	190.86	14.31	-174.11	1,129.49	508.10	304.30	203.80	2.493	
5,600.00	5,559.09	5,535.09	5,535.09	13.65	194.38	14.67	-174.11	1,129.49	495.92	288.36	207.57	2.389	
5,700.00	5,658.30	5,634.30	5,634.30	13.93	197.89	15.05	-174.11	1,129.49	483.77	272.43	211.34	2.289	
5,800.00	5,757.50	5,733.50	5,733.50	14.20	201.41	15.45	-174.11	1,129.49	471.64	256.52	215.12	2.192	
5,900.00	5,856.71	5,832.71	5,832.71	14.48	204.92	15.86	-174.11	1,129.49	459.53	240.63	218.90	2.099	
6,000.00	5,955.92	5,931.92	5,931.92	14.76	208.44	16.30	-174.11	1,129.49	447.45	224.77	222.67	2.009	
6,100.00	6,055.13	6,031.13	6,031.13	15.04	211.95	16.77	-174.11	1,129.49	435.39	208.93	226.45	1.923	
6,200.00	6,154.33	6,130.33	6,130.33	15.32	215.47	17.26	-174.11	1,129.49	423.36	193.13	230.24	1.839	
6,300.00	6,253.54	6,229.54	6,229.54	15.61	218.98	17.77	-174.11	1,129.49	411.37	177.35	234.02	1.758	
6,400.00	6,352.75	6,328.75	6,328.75	15.89	222.50	18.32	-174.11	1,129.49	399.41	161.61	237.80	1.680	
6,500.00	6,451.95	6,427.95	6,427.95	16.17	226.01	18.89	-174.11	1,129.49	387.49	145.90	241.59	1.604	
6,582.49	6,534.24	6,510.24	6,510.24	16.34	228.93	-90.01	-174.11	1,129.49	382.60	137.92	244.67	1.564 CC	
6,600.00	6,551.74	6,527.74	6,527.74	16.37	229.55	-138.83	-174.11	1,129.49	382.82	137.49	245.33	1.560 ES, SF	
6,700.00	6,651.02	6,627.02	6,627.02	16.49	233.06	-153.82	-174.11	1,129.49	392.55	143.57	248.98	1.577	
6,800.00	6,747.36	6,723.36	6,723.36	16.57	236.48	-155.90	-174.11	1,129.49	416.68	164.20	252.48	1.650	
6,900.00	6,838.38	6,814.38	6,814.38	16.60	239.70	-157.13	-174.11	1,129.49	454.99	199.23	255.76	1.779	
7,000.00	6,921.84	6,902.16	6,897.84	16.62	242.81	-157.83	-174.11	1,129.49	506.89	247.99	258.89	1.958	
7,100.00	6,995.69	6,971.69	6,971.69	16.65	245.27	-157.83	-174.11	1,129.49	571.33	309.96	261.37	2.186	
7,200.00	7,058.11	7,034.11	7,034.11	16.73	247.49	-156.73	-174.11	1,129.49	646.83	383.24	263.59	2.454	
7,300.00	7,107.56	7,083.56	7,083.56	16.87	249.24	-153.70	-174.11	1,129.49	731.51	466.16	265.35	2.757	
7,400.00	7,142.82	7,118.82	7,118.82	17.11	250.49	-146.53	-174.11	1,129.49	823.22	556.61	266.61	3.088	
7,500.00	7,163.02	7,139.02	7,139.02	17.46	251.20	-127.50	-174.11	1,129.49	919.62	652.28	267.34	3.440	
7,600.00	7,168.04	7,144.04	7,144.04	17.92	251.38	-90.71	-174.11	1,129.49	1,018.25	750.72	267.54	3.806	
7,700.00	7,168.22	7,144.22	7,144.22	18.52	251.39	-90.78	-174.11	1,129.49	1,117.30	849.74	267.56	4.176	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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, 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	-90.42	-1.10	-149.89	149.90				
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.10	-149.89	149.90	142.37	7.53	19.909	
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.10	-149.89	149.90	142.32	7.57	19.790	
300.00	299.98	300.14	299.85	3.35	3.34	176.84	-1.82	-150.50	152.26	144.60	7.65	19.891	
400.00	399.84	400.33	399.66	3.41	3.40	176.63	-2.69	-151.23	158.22	150.44	7.78	20.340	
500.00	499.45	500.78	499.20	3.50	3.48	176.50	-3.56	-151.96	167.66	159.71	7.95	21.091	
600.00	598.74	601.58	598.39	3.62	3.58	176.45	-4.42	-152.68	180.30	172.14	8.16	22.083	
700.00	697.94	702.47	697.50	3.76	3.70	176.42	-5.28	-153.40	193.59	185.18	8.41	23.024	
800.00	797.15	803.35	796.61	3.93	3.84	176.40	-6.14	-154.12	206.87	198.18	8.69	23.815	
900.00	896.36	904.24	895.72	4.12	3.99	176.39	-7.00	-154.85	220.15	211.15	9.00	24.472	
1,000.00	995.56	1,005.13	994.82	4.33	4.15	176.37	-7.86	-155.57	233.43	224.10	9.33	25.010	
1,100.00	1,094.77	1,106.01	1,093.93	4.56	4.33	176.36	-8.72	-156.29	246.72	237.02	9.70	25.445	
1,200.00	1,193.98	1,206.90	1,193.04	4.79	4.51	176.35	-9.59	-157.02	260.00	249.92	10.08	25.793	
1,300.00	1,293.19	1,307.78	1,292.15	5.04	4.71	176.33	-10.45	-157.74	273.28	262.80	10.48	26.068	
1,400.00	1,392.39	1,408.67	1,391.25	5.30	4.91	176.32	-11.31	-158.46	286.56	275.66	10.90	26.283	
1,500.00	1,491.60	1,509.56	1,490.36	5.56	5.12	176.31	-12.17	-159.18	299.85	288.51	11.34	26.447	
1,600.00	1,590.81	1,589.56	1,589.47	5.84	5.29	176.31	-13.03	-159.91	313.13	301.39	11.74	26.672	
1,700.00	1,690.01	1,688.67	1,688.58	6.12	5.51	176.30	-13.89	-160.63	326.41	314.22	12.19	26.768	
1,800.00	1,789.22	1,787.78	1,787.68	6.40	5.73	176.29	-14.75	-161.35	339.70	327.04	12.66	26.836	
1,900.00	1,888.43	1,886.90	1,886.79	6.55	5.96	176.28	-15.61	-162.07	352.98	340.34	12.63	27.941	
2,000.00	1,987.64	1,986.01	1,985.90	6.58	6.19	176.28	-16.48	-162.80	366.26	353.38	12.88	28.440	
2,100.00	2,086.84	2,085.13	2,085.01	6.63	6.42	176.27	-17.34	-163.52	379.54	366.40	13.14	28.882	
2,200.00	2,186.05	2,184.24	2,184.11	6.68	6.66	176.27	-18.20	-164.24	392.83	379.40	13.42	29.269	
2,300.00	2,285.26	2,283.35	2,283.22	6.75	6.90	176.26	-19.06	-164.97	406.11	392.39	13.72	29.605	
2,400.00	2,384.46	2,382.47	2,382.33	6.84	7.14	176.26	-19.92	-165.69	419.39	405.36	14.03	29.893	
2,500.00	2,483.67	2,481.58	2,481.44	6.94	7.38	176.25	-20.78	-166.41	432.67	418.32	14.36	30.136	
2,600.00	2,582.88	2,580.70	2,580.54	7.05	7.63	176.25	-21.64	-167.13	445.96	431.26	14.70	30.340	
2,700.00	2,682.09	2,679.81	2,679.65	7.17	7.88	176.25	-22.51	-167.86	459.24	444.19	15.05	30.506	
2,800.00	2,781.29	2,778.92	2,778.76	7.30	8.13	176.24	-23.37	-168.58	472.52	457.10	15.42	30.639	
2,900.00	2,880.50	2,878.04	2,877.87	7.45	8.38	176.24	-24.23	-169.30	485.81	470.00	15.80	30.741	
3,000.00	2,979.71	2,977.15	2,976.97	7.60	8.63	176.23	-25.09	-170.02	499.09	482.89	16.19	30.818	
3,100.00	3,078.91	3,076.27	3,076.08	7.76	8.89	176.23	-25.95	-170.75	512.37	495.77	16.60	30.870	
3,200.00	3,178.12	3,175.38	3,175.19	7.94	9.14	176.23	-26.81	-171.47	525.65	508.64	17.01	30.902	
3,300.00	3,277.33	3,274.49	3,274.30	8.12	9.40	176.23	-27.67	-172.19	538.94	521.50	17.43	30.915	
3,400.00	3,376.53	3,373.61	3,373.40	8.31	9.65	176.22	-28.53	-172.92	552.22	534.36	17.86	30.913	
3,500.00	3,475.74	3,472.72	3,472.51	8.50	9.91	176.22	-29.40	-173.64	565.50	547.20	18.30	30.897	
3,600.00	3,574.95	3,571.84	3,571.62	8.70	10.17	176.22	-30.26	-174.36	578.78	560.04	18.75	30.869	
3,700.00	3,674.16	3,670.95	3,670.73	8.91	10.43	176.22	-31.12	-175.08	592.07	572.86	19.20	30.831	
3,800.00	3,773.36	3,770.06	3,769.83	9.13	10.69	176.21	-31.98	-175.81	605.35	585.69	19.66	30.784	
3,900.00	3,872.57	3,869.18	3,868.94	9.35	10.95	176.21	-32.84	-176.53	618.63	598.50	20.13	30.731	
4,000.00	3,971.78	3,968.29	3,968.05	9.57	11.21	176.21	-33.70	-177.25	631.92	611.31	20.60	30.671	
4,100.00	4,070.98	4,067.40	4,067.16	9.80	11.48	176.21	-34.56	-177.97	645.20	624.12	21.08	30.605	
4,200.00	4,170.19	4,166.52	4,166.26	10.04	11.74	176.21	-35.43	-178.70	658.48	636.92	21.56	30.536	
4,300.00	4,269.40	4,265.63	4,265.37	10.28	12.00	176.20	-36.29	-179.42	671.76	649.71	22.05	30.464	
4,400.00	4,368.61	4,364.75	4,364.48	10.52	12.27	176.20	-37.15	-180.14	685.05	662.50	22.54	30.388	
4,500.00	4,467.81	4,463.86	4,463.59	10.77	12.53	176.20	-38.01	-180.87	698.33	675.29	23.04	30.311	
4,600.00	4,567.02	4,562.97	4,562.69	11.02	12.79	176.20	-38.87	-181.59	711.61	688.07	23.54	30.232	
4,700.00	4,666.23	4,662.09	4,661.80	11.27	13.06	176.20	-39.73	-182.31	724.90	700.85	24.04	30.152	
4,800.00	4,765.43	4,761.20	4,760.91	11.52	13.33	176.20	-40.59	-183.03	738.18	713.63	24.55	30.072	
4,900.00	4,864.64	4,860.32	4,860.02	11.78	13.59	176.19	-41.45	-183.76	751.46	726.40	25.06	29.991	
5,000.00	4,963.85	4,959.43	4,959.13	12.04	13.86	176.19	-42.32	-184.48	764.74	739.18	25.57	29.909	
5,100.00	5,063.06	5,058.54	5,058.23	12.31	14.12	176.19	-43.18	-185.20	778.03	751.94	26.08	29.828	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 1C-27-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-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	5,162.26	5,157.66	5,157.34	12.57	14.39	176.19	-44.04	-185.93	791.31	764.71	26.60	29.747	
5,300.00	5,261.47	5,256.77	5,256.45	12.84	14.66	176.19	-44.90	-186.65	804.59	777.47	27.12	29.667	
5,400.00	5,360.68	5,355.89	5,355.56	13.11	14.92	176.19	-45.76	-187.37	817.88	790.23	27.64	29.587	
5,500.00	5,459.88	5,455.00	5,454.66	13.38	15.19	176.19	-46.62	-188.09	831.16	802.99	28.17	29.509	
5,600.00	5,559.09	5,554.11	5,553.77	13.65	15.46	176.19	-47.48	-188.82	844.44	815.75	28.69	29.430	
5,700.00	5,658.30	5,653.23	5,652.88	13.93	15.73	176.18	-48.35	-189.54	857.72	828.50	29.22	29.353	
5,800.00	5,757.50	5,752.34	5,751.99	14.20	16.00	176.18	-49.21	-190.26	871.01	841.26	29.75	29.277	
5,900.00	5,856.71	5,851.46	5,851.09	14.48	16.26	176.18	-50.07	-190.98	884.29	854.01	30.28	29.202	
6,000.00	5,955.92	5,950.57	5,950.20	14.76	16.53	176.18	-50.93	-191.71	897.57	866.76	30.81	29.128	
6,100.00	6,055.13	6,049.68	6,049.31	15.04	16.80	176.18	-51.79	-192.43	910.85	879.51	31.35	29.056	
6,200.00	6,154.33	6,148.80	6,148.42	15.32	17.07	176.18	-52.65	-193.15	924.14	892.25	31.88	28.984	
6,300.00	6,253.54	6,247.91	6,247.52	15.61	17.34	176.18	-53.51	-193.88	937.42	905.00	32.42	28.914	
6,400.00	6,352.75	6,347.02	6,346.63	15.89	17.61	176.18	-54.37	-194.60	950.70	917.74	32.96	28.844	
6,500.00	6,451.95	6,446.09	6,445.69	16.17	17.88	176.18	-55.23	-195.32	963.97	930.81	33.49	28.774	
6,600.00	6,551.14	6,545.17	6,544.77	16.45	18.15	176.18	-56.09	-196.04	977.24	943.82	34.02	28.704	
6,700.00	6,650.33	6,644.25	6,643.85	16.73	18.42	176.18	-56.95	-196.76	990.51	956.83	34.55	28.634	
6,800.00	6,749.52	6,743.33	6,742.93	17.01	18.69	176.18	-57.81	-197.48	1003.78	969.84	35.08	28.564	
6,900.00	6,848.71	6,842.41	6,842.01	17.29	18.96	176.18	-58.67	-198.20	1017.05	982.85	35.61	28.494	
7,000.00	6,947.90	6,941.50	6,941.10	17.57	19.23	176.18	-59.53	-198.92	1030.32	995.86	36.14	28.424	
7,100.00	7,047.09	7,040.59	7,040.19	17.85	19.50	176.18	-60.39	-199.64	1043.59	1008.87	36.67	28.354	
7,200.00	7,146.28	7,139.68	7,139.28	18.13	19.77	176.18	-61.25	-200.36	1056.86	1021.88	37.20	28.284	
7,300.00	7,245.47	7,238.77	7,238.37	18.41	20.04	176.18	-62.11	-201.08	1070.13	1034.89	37.73	28.214	
7,400.00	7,344.66	7,337.86	7,337.46	18.69	20.31	176.18	-62.97	-201.80	1083.40	1047.90	38.26	28.144	
7,500.00	7,443.85	7,436.95	7,436.55	18.97	20.58	176.18	-63.83	-202.52	1096.67	1060.91	38.79	28.074	
7,600.00	7,543.04	7,536.04	7,535.64	19.25	20.85	176.18	-64.69	-203.24	1109.94	1073.92	39.32	28.004	
7,700.00	7,642.23	7,635.13	7,634.73	19.53	21.12	176.18	-65.55	-203.96	1123.21	1086.93	39.85	27.934	
7,800.00	7,741.42	7,734.22	7,733.82	19.81	21.39	176.18	-66.41	-204.68	1136.48	1099.94	40.38	27.864	
7,900.00	7,840.61	7,833.41	7,833.01	20.09	21.66	176.18	-67.27	-205.40	1149.75	1112.95	40.91	27.794	
8,000.00	7,939.80	7,932.60	7,932.20	20.37	21.93	176.18	-68.13	-206.12	1163.02	1125.96	41.44	27.724	
8,100.00	8,038.99	8,031.79	8,031.39	20.65	22.20	176.18	-68.99	-206.84	1176.29	1138.97	41.97	27.654	
8,200.00	8,138.18	8,130.98	8,130.58	20.93	22.47	176.18	-69.85	-207.56	1189.56	1151.98	42.50	27.584	
8,300.00	8,237.37	8,229.97	8,229.57	21.21	22.74	176.18	-70.71	-208.28	1202.83	1164.99	43.03	27.514	
8,400.00	8,336.56	8,328.96	8,328.56	21.49	23.01	176.18	-71.57	-209.00	1216.10	1178.00	43.56	27.444	
8,500.00	8,435.75	8,427.95	8,427.55	21.77	23.28	176.18	-72.43	-209.72	1229.37	1191.01	44.09	27.374	
8,600.00	8,534.94	8,526.94	8,526.54	22.05	23.55	176.18	-73.29	-210.44	1242.64	1204.02	44.62	27.304	
8,700.00	8,634.13	8,625.93	8,625.53	22.33	23.82	176.18	-74.15	-211.16	1255.91	1217.03	45.15	27.234	
8,800.00	8,733.32	8,724.92	8,724.52	22.61	24.09	176.18	-75.01	-211.88	1269.18	1230.04	45.68	27.164	
8,900.00	8,832.51	8,823.91	8,823.51	22.89	24.36	176.18	-75.87	-212.60	1282.45	1243.05	46.21	27.094	
9,000.00	8,931.70	8,922.90	8,922.50	23.17	24.63	176.18	-76.73	-213.32	1295.72	1256.06	46.74	27.024	
9,100.00	9,030.89	9,021.89	9,021.49	23.45	24.90	176.18	-77.59	-214.04	1308.99	1269.07	47.27	26.954	
9,200.00	9,129.68	9,119.98	9,119.58	23.73	25.17	176.18	-78.45	-214.76	1322.26	1282.08	47.80	26.884	
9,300.00	9,228.47	9,218.47	9,218.07	24.01	25.44	176.18	-79.31	-215.48	1335.53	1295.09	48.33	26.814	
9,400.00	9,327.26	9,316.96	9,316.56	24.29	25.71	176.18	-80.17	-216.20	1348.80	1308.10	48.86	26.744	
9,500.00	9,426.05	9,415.45	9,415.05	24.57	25.98	176.18	-81.03	-216.92	1362.07	1321.11	49.39	26.674	
9,600.00	9,524.84	9,513.94	9,513.54	24.85	26.25	176.18	-81.89	-217.64	1375.34	1334.12	49.92	26.604	
9,700.00	9,623.63	9,612.43	9,612.03	25.13	26.52	176.18	-82.75	-218.36	1388.61	1347.13	50.45	26.534	
9,800.00	9,722.42	9,710.92	9,710.52	25.41	26.79	176.18	-83.61	-219.08	1401.88	1360.14	50.98	26.464	
9,900.00	9,821.21	9,809.41	9,809.01	25.69	27.06	176.18	-84.47	-219.80	1415.15	1373.15	51.51	26.394	
10,000.00	9,920.00	9,907.80	9,907.40	25.97	27.33	176.18	-85.33	-220.52	1428.42	1386.16	52.04	26.324	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	-97.89	-20.76	-149.89	151.32				
100.00	100.00	101.00	101.00	3.28	3.28	-97.89	-20.76	-149.89	151.32	143.79	7.53	20.099	
200.00	200.00	201.00	201.00	3.31	3.31	-97.89	-20.76	-149.89	151.32	143.75	7.57	19.979	
300.00	299.98	300.41	299.58	3.35	3.34	169.57	-21.28	-150.60	153.82	146.16	7.66	20.092	
400.00	399.84	400.60	399.39	3.41	3.40	169.71	-21.88	-151.43	159.87	152.09	7.78	20.546	
500.00	499.45	501.06	498.92	3.50	3.48	170.04	-22.48	-152.26	169.35	161.40	7.95	21.296	
600.00	598.74	601.88	598.10	3.62	3.59	170.51	-23.08	-153.09	182.00	173.83	8.17	22.280	
700.00	697.94	702.78	697.19	3.76	3.71	170.97	-23.68	-153.91	195.30	186.89	8.41	23.213	
800.00	797.15	803.68	796.29	3.93	3.84	171.37	-24.28	-154.74	208.61	199.92	8.69	23.997	
900.00	896.36	904.58	895.38	4.12	3.99	171.73	-24.88	-155.56	221.93	212.92	9.00	24.647	
1,000.00	995.56	1,005.48	994.48	4.33	4.16	172.04	-25.48	-156.39	235.25	225.91	9.34	25.180	
1,100.00	1,094.77	1,106.38	1,093.57	4.56	4.33	172.32	-26.08	-157.21	248.58	238.88	9.71	25.611	
1,200.00	1,193.98	1,207.28	1,192.67	4.79	4.52	172.57	-26.68	-158.04	261.92	251.83	10.09	25.956	
1,300.00	1,293.19	1,308.18	1,291.77	5.04	4.71	172.80	-27.28	-158.86	275.26	264.76	10.49	26.228	
1,400.00	1,392.39	1,409.08	1,390.86	5.30	4.92	173.01	-27.88	-159.69	288.60	277.69	10.92	26.440	
1,500.00	1,491.60	1,509.98	1,489.96	5.56	5.13	173.20	-28.48	-160.52	301.95	290.60	11.35	26.603	
1,600.00	1,590.81	1,589.12	1,589.05	5.84	5.30	173.37	-29.08	-161.34	315.30	303.55	11.75	26.831	
1,700.00	1,690.01	1,688.22	1,688.15	6.12	5.51	173.53	-29.68	-162.17	328.65	316.45	12.21	26.927	
1,800.00	1,789.22	1,787.33	1,787.24	6.40	5.74	173.67	-30.28	-162.99	342.01	329.34	12.67	26.995	
1,900.00	1,888.43	1,886.43	1,886.34	6.55	5.86	173.81	-30.88	-163.82	355.37	342.82	12.55	28.324	
2,000.00	1,987.64	1,985.53	1,985.43	6.58	5.89	173.93	-31.48	-164.64	368.73	356.14	12.59	29.291	
2,100.00	2,086.84	2,084.63	2,084.53	6.63	5.91	174.05	-32.08	-165.47	382.09	369.44	12.64	30.225	
2,200.00	2,186.05	2,183.73	2,183.62	6.68	5.95	174.16	-32.68	-166.30	395.45	382.73	12.72	31.086	
2,300.00	2,285.26	2,282.83	2,282.72	6.75	6.00	174.26	-33.28	-167.12	408.81	395.99	12.83	31.873	
2,400.00	2,384.46	2,381.93	2,381.81	6.84	6.06	174.35	-33.88	-167.95	422.18	409.22	12.96	32.582	
2,500.00	2,483.67	2,481.03	2,480.91	6.94	6.13	174.44	-34.48	-168.77	435.54	422.43	13.11	33.216	
2,600.00	2,582.88	2,580.13	2,580.00	7.05	6.22	174.53	-35.08	-169.60	448.91	435.62	13.29	33.775	
2,700.00	2,682.09	2,679.23	2,679.10	7.17	6.31	174.60	-35.68	-170.42	462.28	448.78	13.49	34.262	
2,800.00	2,781.29	2,778.33	2,778.19	7.30	6.41	174.68	-36.28	-171.25	475.65	461.93	13.72	34.679	
2,900.00	2,880.50	2,877.43	2,877.29	7.45	6.53	174.75	-36.88	-172.07	489.01	475.06	13.96	35.032	
3,000.00	2,979.71	2,976.53	2,976.39	7.60	6.65	174.82	-37.48	-172.90	502.38	488.16	14.22	35.325	
3,100.00	3,078.91	3,075.63	3,075.48	7.76	6.78	174.88	-38.08	-173.73	515.76	501.25	14.50	35.562	
3,200.00	3,178.12	3,174.73	3,174.58	7.94	6.93	174.94	-38.68	-174.55	529.13	514.33	14.80	35.749	
3,300.00	3,277.33	3,273.83	3,273.67	8.12	7.07	175.00	-39.28	-175.38	542.50	527.38	15.12	35.890	
3,400.00	3,376.53	3,372.93	3,372.77	8.31	7.23	175.05	-39.88	-176.20	555.87	540.43	15.45	35.990	
3,500.00	3,475.74	3,472.03	3,471.86	8.50	7.39	175.10	-40.48	-177.03	569.24	553.45	15.79	36.054	
3,600.00	3,574.95	3,571.14	3,570.96	8.70	7.56	175.15	-41.08	-177.85	582.62	566.47	16.15	36.085	
3,700.00	3,674.16	3,670.24	3,670.05	8.91	7.74	175.20	-41.68	-178.68	595.99	579.47	16.51	36.088	
3,800.00	3,773.36	3,769.34	3,769.15	9.13	7.92	175.24	-42.28	-179.50	609.36	592.47	16.90	36.067	
3,900.00	3,872.57	3,868.44	3,868.24	9.35	8.10	175.29	-42.88	-180.33	622.74	605.45	17.29	36.024	
4,000.00	3,971.78	3,967.54	3,967.34	9.57	8.29	175.33	-43.48	-181.16	636.11	618.42	17.69	35.962	
4,100.00	4,070.98	4,066.64	4,066.43	9.80	8.49	175.37	-44.08	-181.98	649.49	631.39	18.10	35.885	
4,200.00	4,170.19	4,165.74	4,165.53	10.04	8.69	175.41	-44.68	-182.81	662.86	644.34	18.52	35.795	
4,300.00	4,269.40	4,264.84	4,264.62	10.28	8.89	175.44	-45.28	-183.63	676.24	657.29	18.95	35.694	
4,400.00	4,368.61	4,363.94	4,363.72	10.52	9.10	175.48	-45.88	-184.46	689.61	670.23	19.38	35.583	
4,500.00	4,467.81	4,463.04	4,462.81	10.77	9.31	175.51	-46.48	-185.28	702.99	683.17	19.82	35.464	
4,600.00	4,567.02	4,562.14	4,561.91	11.02	9.52	175.54	-47.08	-186.11	716.37	696.09	20.27	35.340	
4,700.00	4,666.23	4,661.24	4,661.01	11.27	9.74	175.58	-47.68	-186.93	729.74	709.02	20.73	35.210	
4,800.00	4,765.43	4,760.34	4,760.10	11.52	9.96	175.61	-48.28	-187.76	743.12	721.93	21.19	35.076	
4,900.00	4,864.64	4,859.44	4,859.20	11.78	10.18	175.64	-48.88	-188.59	756.50	734.84	21.65	34.940	
5,000.00	4,963.85	4,958.54	4,958.29	12.04	10.40	175.66	-49.48	-189.41	769.87	747.75	22.12	34.802	
5,100.00	5,063.06	5,057.64	5,057.39	12.31	10.63	175.69	-50.08	-190.24	783.25	760.65	22.60	34.662	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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				
5,200.00	5,162.26	5,156.74	5,156.48	12.57	10.86	175.72	-50.68	-191.06	796.63	773.55	23.08	34.521				
5,300.00	5,261.47	5,255.84	5,255.58	12.84	11.09	175.74	-51.28	-191.89	810.00	786.44	23.56	34.380				
5,400.00	5,360.68	5,354.94	5,354.67	13.11	11.32	175.77	-51.88	-192.71	823.38	799.33	24.05	34.239				
5,500.00	5,459.88	5,454.05	5,453.77	13.38	11.56	175.79	-52.48	-193.54	836.76	812.22	24.54	34.099				
5,600.00	5,559.09	5,553.15	5,552.86	13.65	11.80	175.81	-53.08	-194.36	850.14	825.10	25.03	33.959				
5,700.00	5,658.30	5,652.25	5,651.96	13.93	12.03	175.84	-53.67	-195.19	863.52	837.98	25.53	33.821				
5,800.00	5,757.50	5,751.35	5,751.05	14.20	12.27	175.86	-54.27	-196.02	876.89	850.86	26.03	33.684				
5,900.00	5,856.71	5,850.45	5,850.15	14.48	12.51	175.88	-54.87	-196.84	890.27	863.74	26.54	33.549				
6,000.00	5,955.92	5,949.55	5,949.24	14.76	12.76	175.90	-55.47	-197.67	903.65	876.61	27.04	33.416				
6,100.00	6,055.13	6,048.65	6,048.34	15.04	13.00	175.92	-56.07	-198.49	917.03	889.48	27.55	33.284				
6,200.00	6,154.33	7,701.86	7,038.84	15.32	20.76	156.85	-78.67	730.40	884.74	857.55	27.19	32.537				
6,300.00	6,253.54	7,710.65	7,038.83	15.61	20.86	154.41	-78.90	742.90	785.66	758.18	27.49	28.584				
6,400.00	6,352.75	7,723.15	7,038.82	15.89	21.01	151.40	-79.12	755.41	686.63	658.82	27.80	24.695				
6,500.00	6,451.95	7,735.66	7,038.82	16.17	21.16	147.50	-79.34	767.91	587.65	559.52	28.13	20.888				
6,600.00	6,551.74	7,740.31	7,038.81	16.37	21.21	-90.79	-79.42	772.56	488.16	459.72	28.44	17.164				
6,700.00	6,651.02	7,729.31	7,038.82	16.49	21.08	-147.73	-79.23	761.56	389.23	360.55	28.68	13.571				
6,800.00	6,747.36	7,702.94	7,038.83	16.57	20.77	-156.83	-78.76	735.20	293.36	264.50	28.86	10.165				
6,900.00	6,838.38	7,661.84	7,038.86	16.60	20.32	-158.09	-78.03	694.11	203.04	174.00	29.04	6.992				
7,000.00	6,921.84	7,607.03	7,038.89	16.62	19.71	-153.94	-77.06	639.31	120.93	91.54	29.39	4.115				
7,100.00	6,995.69	7,539.86	7,038.93	16.65	19.02	-134.97	-75.87	572.14	51.58	20.28	31.31	1.648				
7,169.08	7,040.13	7,487.10	7,038.96	16.70	18.49	-84.10	-74.94	519.39	26.38	-9.28	35.66	0.740	Level 1, CC, ES, SF			
7,200.00	7,058.11	7,461.98	7,038.97	16.73	18.26	-54.65	-74.49	494.28	31.90	-0.98	32.88	0.970	Level 1			
7,300.00	7,107.56	7,378.05	7,038.53	16.87	17.50	-17.39	-73.00	410.37	72.75	43.75	28.99	2.509				
7,400.00	7,142.82	7,299.99	7,030.73	17.11	16.87	-8.26	-71.58	332.76	115.43	86.56	28.87	3.999				
7,500.00	7,163.02	7,224.96	7,014.35	17.46	16.33	-4.30	-70.18	259.60	155.93	126.71	29.22	5.337				
7,600.00	7,168.04	7,152.40	6,990.42	17.92	15.88	-2.18	-68.82	191.15	193.39	163.68	29.71	6.509				
7,700.00	7,168.22	7,085.10	6,961.40	18.52	15.53	-0.92	-67.56	130.48	236.69	206.40	30.29	7.815				
7,800.00	7,168.40	7,024.77	6,930.07	19.24	15.26	-0.08	-66.46	78.95	288.88	258.04	30.84	9.366				
7,900.00	7,168.58	6,971.28	6,898.32	20.08	15.07	0.47	-65.50	35.94	348.53	317.19	31.34	11.119				
8,000.00	7,168.76	6,924.19	6,867.46	21.02	14.94	0.82	-64.68	0.39	414.34	382.56	31.78	13.038				
8,100.00	7,168.94	6,882.82	6,838.26	22.04	14.84	1.06	-63.98	-28.88	485.22	453.07	32.15	15.093				
8,200.00	7,169.12	6,850.00	6,813.77	23.14	14.77	1.20	-63.44	-50.72	560.29	527.83	32.46	17.259				
8,300.00	7,169.29	6,814.55	6,786.09	24.31	14.70	1.32	-62.87	-72.86	638.75	606.03	32.72	19.523				
8,400.00	7,169.47	6,786.36	6,763.22	25.53	14.64	1.39	-62.44	-89.34	720.06	687.13	32.93	21.863				
8,500.00	7,169.65	6,750.00	6,732.70	26.80	14.56	1.46	-61.90	-109.08	803.91	770.77	33.14	24.260				
8,600.00	7,169.83	6,750.00	6,732.70	28.12	14.56	1.46	-61.90	-109.08	889.51	856.27	33.24	26.759				
8,700.00	7,170.01	6,719.37	6,706.14	29.46	14.50	1.50	-61.47	-124.33	976.64	943.24	33.40	29.241				
8,800.00	7,170.19	6,700.00	6,688.98	30.84	14.46	1.52	-61.20	-133.31	1,065.33	1,031.81	33.52	31.784				
8,900.00	7,170.37	6,685.60	6,676.05	32.25	14.43	1.53	-61.01	-139.64	1,155.20	1,121.59	33.61	34.370				

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							
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	-82.81	18.94	-150.17	151.36				
100.00	100.00	101.00	101.00	3.28	3.28	-82.81	18.94	-150.17	151.36	143.83	7.53	20.104	
200.00	200.00	201.00	201.00	3.31	3.31	-82.81	18.94	-150.17	151.36	143.79	7.57	19.984	CC, ES
300.00	299.98	300.81	299.17	3.35	3.35	-174.82	20.47	-150.70	153.83	146.17	7.66	20.077	
400.00	399.84	401.04	398.91	3.41	3.42	-174.14	22.94	-151.55	160.22	152.43	7.79	20.556	
500.00	499.45	501.54	498.37	3.50	3.51	-173.64	25.40	-152.39	170.10	162.13	7.97	21.336	
600.00	598.74	602.41	597.48	3.62	3.61	-173.31	27.85	-153.24	183.16	174.97	8.19	22.353	
700.00	697.94	703.35	696.49	3.76	3.74	-173.06	30.30	-154.08	196.87	188.43	8.44	23.318	
800.00	797.15	804.30	795.51	3.93	3.88	-172.85	32.76	-154.93	210.59	201.86	8.73	24.133	
900.00	896.36	905.25	894.53	4.12	4.04	-172.66	35.21	-155.77	224.30	215.26	9.04	24.814	
1,000.00	995.56	1,006.20	993.55	4.33	4.21	-172.50	37.66	-156.62	238.02	228.64	9.38	25.374	
1,100.00	1,094.77	1,107.14	1,092.57	4.56	4.39	-172.35	40.11	-157.46	251.74	241.99	9.75	25.832	
1,200.00	1,193.98	1,208.09	1,191.59	4.79	4.58	-172.22	42.56	-158.30	265.46	255.33	10.13	26.202	
1,300.00	1,293.19	1,290.96	1,290.61	5.04	4.74	-172.10	45.01	-159.15	279.18	268.68	10.50	26.589	
1,400.00	1,392.39	1,409.99	1,389.62	5.30	4.98	-171.99	47.47	-159.99	292.90	281.94	10.96	26.733	
1,500.00	1,491.60	1,489.07	1,488.64	5.56	5.15	-171.89	49.92	-160.84	306.62	295.28	11.35	27.026	
1,600.00	1,590.81	1,588.12	1,587.66	5.84	5.36	-171.80	52.37	-161.68	320.35	308.56	11.79	27.176	
1,700.00	1,690.01	1,687.17	1,686.68	6.12	5.58	-171.72	54.82	-162.52	334.07	321.83	12.24	27.290	
1,800.00	1,789.22	1,786.22	1,785.70	6.40	5.80	-171.64	57.27	-163.37	347.80	335.09	12.71	27.375	
1,900.00	1,888.43	1,885.28	1,884.72	6.55	5.93	-171.57	59.72	-164.21	361.53	348.94	12.58	28.730	
2,000.00	1,987.64	1,984.33	1,983.74	6.58	5.96	-171.50	62.18	-165.06	375.25	362.63	12.63	29.717	
2,100.00	2,086.84	2,083.38	2,082.75	6.63	5.99	-171.44	64.63	-165.90	388.98	376.30	12.68	30.674	
2,200.00	2,186.05	2,182.43	2,181.77	6.68	6.02	-171.39	67.08	-166.75	402.71	389.95	12.76	31.560	
2,300.00	2,285.26	2,281.49	2,280.79	6.75	6.07	-171.33	69.53	-167.59	416.44	403.57	12.87	32.370	
2,400.00	2,384.46	2,380.54	2,379.81	6.84	6.13	-171.28	71.98	-168.43	430.16	417.17	12.99	33.103	
2,500.00	2,483.67	2,479.59	2,478.83	6.94	6.20	-171.24	74.43	-169.28	443.89	430.74	13.15	33.760	
2,600.00	2,582.88	2,578.64	2,577.85	7.05	6.28	-171.19	76.89	-170.12	457.62	444.30	13.33	34.341	
2,700.00	2,682.09	2,677.70	2,676.87	7.17	6.38	-171.15	79.34	-170.97	471.35	457.83	13.53	34.850	
2,800.00	2,781.29	2,776.75	2,775.88	7.30	6.48	-171.11	81.79	-171.81	485.08	471.33	13.75	35.290	
2,900.00	2,880.50	2,875.80	2,874.90	7.45	6.59	-171.08	84.24	-172.65	498.81	484.82	13.99	35.664	
3,000.00	2,979.71	2,974.85	2,973.92	7.60	6.72	-171.04	86.69	-173.50	512.54	498.29	14.25	35.977	
3,100.00	3,078.91	3,073.91	3,072.94	7.76	6.85	-171.01	89.14	-174.34	526.27	511.74	14.52	36.233	
3,200.00	3,178.12	3,172.96	3,171.96	7.94	6.99	-170.98	91.59	-175.19	540.00	525.18	14.82	36.438	
3,300.00	3,277.33	3,272.01	3,270.98	8.12	7.13	-170.95	94.05	-176.03	553.73	538.60	15.13	36.596	
3,400.00	3,376.53	3,371.06	3,370.00	8.31	7.29	-170.92	96.50	-176.88	567.46	552.00	15.46	36.713	
3,500.00	3,475.74	3,470.12	3,469.01	8.50	7.45	-170.89	98.95	-177.72	581.19	565.39	15.80	36.791	
3,600.00	3,574.95	3,569.17	3,568.03	8.70	7.62	-170.87	101.40	-178.56	594.92	578.77	16.15	36.837	
3,700.00	3,674.16	3,668.22	3,667.05	8.91	7.79	-170.84	103.85	-179.41	608.65	592.14	16.52	36.853	
3,800.00	3,773.36	3,767.27	3,766.07	9.13	7.97	-170.82	106.30	-180.25	622.38	605.49	16.89	36.843	
3,900.00	3,872.57	3,866.33	3,865.09	9.35	8.15	-170.80	108.76	-181.10	636.11	618.83	17.28	36.812	
4,000.00	3,971.78	3,965.38	3,964.11	9.57	8.34	-170.78	111.21	-181.94	649.85	632.17	17.68	36.761	
4,100.00	4,070.98	4,064.43	4,063.13	9.80	8.54	-170.76	113.66	-182.78	663.58	645.49	18.08	36.693	
4,200.00	4,170.19	4,163.49	4,162.14	10.04	8.73	-170.74	116.11	-183.63	677.31	658.81	18.50	36.611	
4,300.00	4,269.40	4,262.54	4,261.16	10.28	8.94	-170.72	118.56	-184.47	691.04	672.12	18.92	36.518	
4,400.00	4,368.61	4,361.59	4,360.18	10.52	9.14	-170.70	121.01	-185.32	704.77	685.42	19.35	36.414	
4,500.00	4,467.81	4,460.64	4,459.20	10.77	9.35	-170.68	123.47	-186.16	718.50	698.71	19.79	36.302	
4,600.00	4,567.02	4,559.70	4,558.22	11.02	9.56	-170.67	125.92	-187.01	732.23	712.00	20.24	36.183	
4,700.00	4,666.23	4,658.75	4,657.24	11.27	9.78	-170.65	128.37	-187.85	745.96	725.28	20.69	36.059	
4,800.00	4,765.43	4,757.80	4,756.26	11.52	10.00	-170.63	130.82	-188.69	759.70	738.55	21.14	35.930	
4,900.00	4,864.64	4,856.85	4,855.27	11.78	10.22	-170.62	133.27	-189.54	773.43	751.82	21.61	35.798	
5,000.00	4,963.85	4,955.91	4,954.29	12.04	10.44	-170.60	135.72	-190.38	787.16	765.09	22.07	35.663	
5,100.00	5,063.06	5,054.96	5,053.31	12.31	10.67	-170.59	138.18	-191.23	800.89	778.35	22.54	35.526	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,154.01	5,152.33	12.57	10.90	-170.58	140.63	-192.07	814.62	791.60	23.02	35.388		
5,300.00	5,261.47	5,253.06	5,251.35	12.84	11.13	-170.56	143.08	-192.91	828.35	804.86	23.50	35.250		
5,400.00	5,360.68	5,352.12	5,350.37	13.11	11.36	-170.55	145.53	-193.76	842.09	818.10	23.98	35.112		
5,500.00	5,459.88	5,451.17	5,449.39	13.38	11.59	-170.54	147.98	-194.60	855.82	831.35	24.47	34.973		
5,600.00	5,559.09	5,550.22	5,548.40	13.65	11.83	-170.53	150.43	-195.45	869.55	844.59	24.96	34.836		
5,700.00	5,658.30	5,649.27	5,647.42	13.93	12.07	-170.51	152.89	-196.29	883.28	857.83	25.46	34.699		
5,800.00	5,757.50	5,748.33	5,746.44	14.20	12.30	-170.50	155.34	-197.13	897.01	871.06	25.95	34.564		
5,900.00	5,856.71	5,847.38	5,845.46	14.48	12.54	-170.49	157.79	-197.98	910.75	884.29	26.45	34.429		
6,000.00	5,955.92	5,946.43	5,944.48	14.76	12.79	-170.48	160.24	-198.82	924.48	897.52	26.96	34.297		
6,100.00	6,055.13	6,045.48	6,043.50	15.04	13.03	-170.47	162.69	-199.67	938.21	910.75	27.46	34.166		
6,200.00	6,154.33	6,144.54	6,142.52	15.32	13.27	-170.46	165.14	-200.51	951.94	923.97	27.97	34.036		
6,300.00	6,253.54	7,852.90	7,173.43	15.61	21.52	-119.23	186.15	746.00	944.54	916.30	28.24	33.449		
6,400.00	6,352.75	7,865.28	7,173.41	15.89	21.66	-116.67	186.09	758.38	848.44	819.76	28.68	29.587		
6,500.00	6,451.95	7,877.66	7,173.39	16.17	21.80	-113.94	186.03	770.76	753.15	723.98	29.18	25.815		
6,600.00	6,551.74	7,882.17	7,173.38	16.37	21.85	115.20	186.01	775.27	658.62	628.89	29.73	22.156		
6,700.00	6,651.02	7,871.03	7,173.40	16.49	21.72	118.44	186.06	764.12	566.62	536.31	30.31	18.692		
6,800.00	6,747.36	7,844.50	7,173.45	16.57	21.43	125.56	186.19	737.60	480.47	449.48	30.99	15.504		
6,900.00	6,838.38	7,803.26	7,173.52	16.60	20.96	127.51	186.39	696.35	403.72	371.91	31.81	12.693		
7,000.00	6,921.84	7,748.30	7,173.62	16.62	20.39	125.58	186.65	641.40	340.08	307.27	32.81	10.365		
7,100.00	6,995.69	7,680.98	7,173.74	16.65	19.71	120.55	186.97	574.08	292.83	258.97	33.86	8.649		
7,200.00	7,058.11	7,602.97	7,173.89	16.73	18.97	113.20	187.34	496.07	263.42	228.75	34.67	7.597		
7,300.00	7,107.56	7,513.07	7,173.44	16.87	18.20	104.47	187.76	406.18	249.78	214.76	35.02	7.133		
7,396.43	7,141.81	7,420.45	7,162.86	17.10	17.49	94.88	187.93	314.25	245.87	210.84	35.03	7.020 SF		
7,400.00	7,142.82	7,417.14	7,162.24	17.11	17.47	94.52	187.93	311.00	245.87	210.85	35.02	7.021		
7,500.00	7,163.02	7,327.56	7,138.98	17.46	16.86	84.78	187.76	224.57	250.16	215.31	34.85	7.178		
7,600.00	7,168.04	7,243.09	7,106.15	17.92	16.36	75.94	187.32	146.81	261.47	226.83	34.64	7.548		
7,700.00	7,168.22	7,167.20	7,068.11	18.52	15.99	68.21	186.69	81.19	281.76	247.28	34.48	8.171		
7,800.00	7,168.40	7,101.64	7,029.17	19.24	15.71	61.11	185.98	28.50	314.05	279.68	34.37	9.138		
7,900.00	7,168.58	7,045.57	6,991.70	20.08	15.50	55.11	185.25	-13.20	358.43	324.13	34.30	10.449		
8,000.00	7,168.76	7,000.00	6,958.65	21.02	15.35	50.45	184.58	-44.55	413.43	379.13	34.29	12.055		
8,100.00	7,168.94	6,956.94	6,925.44	22.04	15.23	46.32	183.89	-71.92	477.00	442.70	34.30	13.908		
8,200.00	7,169.12	6,921.97	6,897.15	23.14	15.13	43.19	183.29	-92.47	547.29	512.97	34.32	15.946		
8,300.00	7,169.29	6,900.00	6,878.82	24.31	15.07	41.33	182.89	-104.57	622.88	588.53	34.34	18.136		
8,400.00	7,169.47	6,865.70	6,849.39	25.53	14.98	38.61	182.25	-122.17	702.30	667.93	34.37	20.431		
8,500.00	7,169.65	6,850.00	6,835.62	26.80	14.94	37.43	181.94	-129.70	785.06	750.68	34.38	22.833		
8,600.00	7,169.83	6,822.90	6,811.41	28.12	14.88	35.51	181.40	-141.88	870.19	835.78	34.42	25.284		
8,700.00	7,170.01	6,800.00	6,790.58	29.46	14.82	33.97	180.93	-151.36	957.45	923.00	34.45	27.795		
8,800.00	7,170.19	6,800.00	6,790.58	30.84	14.82	33.97	180.93	-151.36	1,046.42	1,012.00	34.42	30.404		
8,900.00	7,170.37	6,775.49	6,767.91	32.25	14.77	32.43	180.41	-160.67	1,136.50	1,102.03	34.46	32.976		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
0.00	0.00	1.00	1.00	3.28	3.28	-105.26	-40.81	-149.61	155.08					
100.00	100.00	101.00	101.00	3.28	3.28	-105.26	-40.81	-149.61	155.08	147.55	7.53	20.598		
200.00	200.00	201.00	201.00	3.31	3.31	-105.26	-40.81	-149.61	155.08	147.51	7.57	20.475	CC, ES	
300.00	299.98	316.74	298.24	3.35	3.35	161.88	-42.44	-149.96	157.53	149.87	7.66	20.554		
400.00	399.84	401.99	397.92	3.41	3.40	161.24	-46.10	-150.74	164.25	156.47	7.78	21.112		
500.00	499.45	502.50	497.35	3.50	3.48	161.01	-49.75	-151.51	174.27	166.32	7.95	21.921		
600.00	598.74	603.36	596.42	3.62	3.58	161.14	-53.39	-152.29	187.33	179.16	8.17	22.936		
700.00	697.94	704.30	695.41	3.76	3.70	161.36	-57.03	-153.06	200.99	192.58	8.41	23.886		
800.00	797.15	805.24	794.40	3.93	3.84	161.54	-60.66	-153.83	214.66	205.96	8.70	24.678		
900.00	896.36	906.18	893.38	4.12	3.99	161.71	-64.30	-154.61	228.32	219.31	9.01	25.328		
1,000.00	995.56	1,007.12	992.37	4.33	4.16	161.86	-67.93	-155.38	241.99	232.63	9.36	25.853		
1,100.00	1,094.77	1,108.06	1,091.36	4.56	4.34	161.99	-71.57	-156.15	255.67	245.93	9.73	26.272		
1,200.00	1,193.98	1,209.00	1,190.35	4.79	4.53	162.11	-75.20	-156.92	269.34	259.21	10.12	26.602		
1,300.00	1,293.19	1,309.94	1,289.34	5.04	4.73	162.21	-78.84	-157.70	283.01	272.47	10.54	26.857		
1,400.00	1,392.39	1,389.12	1,388.33	5.30	4.90	162.31	-82.47	-158.47	296.69	285.76	10.92	27.163		
1,500.00	1,491.60	1,488.18	1,487.32	5.56	5.11	162.40	-86.11	-159.24	310.36	299.00	11.36	27.315		
1,600.00	1,590.81	1,587.24	1,586.31	5.84	5.33	162.48	-89.74	-160.02	324.04	312.22	11.82	27.425		
1,700.00	1,690.01	1,686.30	1,685.30	6.12	5.55	162.55	-93.38	-160.79	337.72	325.44	12.28	27.501		
1,800.00	1,789.22	1,785.36	1,784.29	6.40	5.78	162.62	-97.01	-161.56	351.39	338.64	12.75	27.550		
1,900.00	1,888.43	1,884.42	1,883.28	6.55	5.91	162.68	-100.65	-162.33	365.07	352.43	12.64	28.880		
2,000.00	1,987.64	1,983.48	1,982.27	6.58	5.94	162.74	-104.28	-163.11	378.75	366.06	12.69	29.850		
2,100.00	2,086.84	2,082.54	2,081.26	6.63	5.97	162.80	-107.92	-163.88	392.43	379.68	12.74	30.792		
2,200.00	2,186.05	2,181.60	2,180.25	6.68	6.01	162.85	-111.55	-164.65	406.10	393.28	12.83	31.659		
2,300.00	2,285.26	2,280.65	2,279.24	6.75	6.06	162.90	-115.19	-165.42	419.78	406.85	12.94	32.449		
2,400.00	2,384.46	2,379.71	2,378.23	6.84	6.12	162.94	-118.82	-166.20	433.46	420.39	13.07	33.160		
2,500.00	2,483.67	2,478.77	2,477.22	6.94	6.20	162.98	-122.46	-166.97	447.14	433.91	13.23	33.792		
2,600.00	2,582.88	2,577.83	2,576.21	7.05	6.29	163.02	-126.09	-167.74	460.82	447.41	13.42	34.349		
2,700.00	2,682.09	2,676.89	2,675.20	7.17	6.38	163.06	-129.73	-168.51	474.50	460.88	13.62	34.831		
2,800.00	2,781.29	2,775.95	2,774.19	7.30	6.49	163.10	-133.36	-169.29	488.18	474.33	13.85	35.244		
2,900.00	2,880.50	2,875.01	2,873.18	7.45	6.61	163.13	-137.00	-170.06	501.86	487.76	14.10	35.591		
3,000.00	2,979.71	2,974.07	2,972.17	7.60	6.74	163.16	-140.63	-170.83	515.54	501.17	14.37	35.877		
3,100.00	3,078.91	3,073.13	3,071.16	7.76	6.87	163.19	-144.27	-171.61	529.22	514.57	14.66	36.106		
3,200.00	3,178.12	3,172.19	3,170.15	7.94	7.02	163.22	-147.90	-172.38	542.90	527.94	14.96	36.285		
3,300.00	3,277.33	3,271.25	3,269.14	8.12	7.17	163.24	-151.54	-173.15	556.58	541.30	15.28	36.418		
3,400.00	3,376.53	3,370.31	3,368.13	8.31	7.33	163.27	-155.17	-173.92	570.27	554.65	15.62	36.509		
3,500.00	3,475.74	3,469.37	3,467.12	8.50	7.50	163.29	-158.81	-174.70	583.95	567.98	15.97	36.564		
3,600.00	3,574.95	3,568.43	3,566.11	8.70	7.67	163.32	-162.44	-175.47	597.63	581.29	16.33	36.587		
3,700.00	3,674.16	3,667.49	3,665.10	8.91	7.85	163.34	-166.08	-176.24	611.31	594.60	16.71	36.581		
3,800.00	3,773.36	3,766.55	3,764.09	9.13	8.04	163.36	-169.71	-177.01	624.99	607.89	17.10	36.551		
3,900.00	3,872.57	3,865.61	3,863.08	9.35	8.23	163.38	-173.35	-177.79	638.67	621.17	17.50	36.500		
4,000.00	3,971.78	3,964.67	3,962.07	9.57	8.43	163.40	-176.98	-178.56	652.35	634.45	17.91	36.431		
4,100.00	4,070.98	4,063.72	4,061.06	9.80	8.63	163.42	-180.62	-179.33	666.03	647.71	18.32	36.346		
4,200.00	4,170.19	4,162.78	4,160.04	10.04	8.83	163.44	-184.25	-180.10	679.72	660.96	18.75	36.248		
4,300.00	4,269.40	4,261.84	4,259.03	10.28	9.04	163.46	-187.89	-180.88	693.40	674.21	19.19	36.139		
4,400.00	4,368.61	4,360.90	4,358.02	10.52	9.25	163.47	-191.52	-181.65	707.08	687.45	19.63	36.022		
4,500.00	4,467.81	4,459.96	4,457.01	10.77	9.47	163.49	-195.16	-182.42	720.76	700.68	20.08	35.897		
4,600.00	4,567.02	4,559.02	4,556.00	11.02	9.69	163.50	-198.79	-183.20	734.44	713.91	20.54	35.765		
4,700.00	4,666.23	4,658.08	4,654.99	11.27	9.91	163.52	-202.43	-183.97	748.13	727.13	21.00	35.630		
4,800.00	4,765.43	4,757.14	4,753.98	11.52	10.13	163.53	-206.07	-184.74	761.81	740.34	21.47	35.490		
4,900.00	4,864.64	4,856.20	4,852.97	11.78	10.36	163.55	-209.70	-185.51	775.49	753.55	21.94	35.348		
5,000.00	4,963.85	4,955.26	4,951.96	12.04	10.59	163.56	-213.34	-186.29	789.17	766.75	22.42	35.204		
5,100.00	5,063.06	5,054.32	5,050.95	12.31	10.82	163.57	-216.97	-187.06	802.85	779.95	22.90	35.059		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,153.38	5,149.94	12.57	11.06	163.58	-220.61	-187.83	816.54	793.15	23.39	34.913		
5,300.00	5,261.47	5,252.44	5,248.93	12.84	11.29	163.60	-224.24	-188.60	830.22	806.34	23.88	34.767		
5,400.00	5,360.68	5,351.50	5,347.92	13.11	11.53	163.61	-227.88	-189.38	843.90	819.52	24.37	34.622		
5,500.00	5,459.88	5,450.56	5,446.91	13.38	11.77	163.62	-231.51	-190.15	857.58	832.71	24.87	34.477		
5,600.00	5,559.09	5,549.62	5,545.90	13.65	12.02	163.63	-235.15	-190.92	871.26	845.89	25.38	34.334		
5,700.00	5,658.30	5,648.68	5,644.89	13.93	12.26	163.64	-238.78	-191.70	884.95	859.06	25.88	34.192		
5,800.00	5,757.50	5,747.73	5,743.88	14.20	12.50	163.65	-242.42	-192.47	898.63	872.24	26.39	34.051		
5,900.00	5,856.71	5,846.79	5,842.87	14.48	12.75	163.66	-246.05	-193.24	912.31	885.41	26.90	33.912		
6,000.00	5,955.92	5,945.85	5,941.86	14.76	13.00	163.67	-249.69	-194.01	925.99	898.58	27.42	33.775		
6,100.00	6,055.13	6,044.91	6,040.85	15.04	13.25	163.68	-253.32	-194.79	939.68	911.74	27.93	33.640		
6,200.00	6,154.33	6,143.97	6,139.84	15.32	13.50	163.69	-256.96	-195.56	953.36	924.90	28.45	33.506		
6,300.00	6,253.54	6,243.03	6,238.83	15.61	13.75	163.70	-260.59	-196.33	967.04	938.07	28.97	33.375		
6,400.00	6,352.75	6,342.09	6,337.82	15.89	14.00	163.71	-264.23	-197.10	980.72	951.22	29.50	33.247		
6,500.00	6,451.95	6,441.11	6,436.82	16.17	14.25	163.72	-267.86	-197.87	994.40	964.39	30.03	33.119		
6,600.00	6,551.14	6,540.29	6,536.02	16.45	14.50	163.73	-271.49	-198.64	1,008.08	977.57	30.56	32.992		
6,700.00	6,650.33	6,639.47	6,635.22	16.73	14.75	163.74	-275.12	-199.41	1,021.76	990.75	31.09	32.865		
6,800.00	6,749.52	6,738.65	6,734.42	17.01	15.00	163.75	-278.75	-200.18	1,035.44	1,003.93	31.62	32.738		
6,900.00	6,848.71	6,837.83	6,833.62	17.29	15.25	163.76	-282.38	-200.95	1,049.12	1,017.11	32.15	32.611		
7,000.00	6,947.90	6,937.01	6,932.82	17.57	15.50	163.77	-286.01	-201.72	1,062.80	1,030.29	32.68	32.484		
7,100.00	7,047.09	7,036.19	7,032.02	17.85	15.75	163.78	-289.64	-202.49	1,076.48	1,043.47	33.21	32.357		
7,200.00	7,146.28	7,135.37	7,131.22	18.13	16.00	163.79	-293.27	-203.26	1,090.16	1,056.65	33.74	32.230		
7,300.00	7,245.47	7,234.55	7,230.42	18.41	16.25	163.80	-296.90	-204.03	1,103.84	1,069.83	34.27	32.103		
7,400.00	7,344.66	7,333.73	7,329.62	18.69	16.50	163.81	-300.53	-204.80	1,117.52	1,083.01	34.80	31.976		
7,500.00	7,443.85	7,432.91	7,428.82	18.97	16.75	163.82	-304.16	-205.57	1,131.20	1,096.19	35.33	31.849		
7,600.00	7,543.04	7,532.09	7,528.02	19.25	17.00	163.83	-307.79	-206.34	1,144.88	1,109.37	35.86	31.722		
7,700.00	7,642.23	7,631.27	7,627.22	19.53	17.25	163.84	-311.42	-207.11	1,158.56	1,122.55	36.39	31.595		
7,800.00	7,741.42	7,730.45	7,726.42	19.81	17.50	163.85	-315.05	-207.88	1,172.24	1,135.73	36.92	31.468		
7,900.00	7,840.61	7,829.63	7,825.62	20.09	17.75	163.86	-318.68	-208.65	1,185.92	1,148.91	37.45	31.341		
8,000.00	7,939.80	7,928.81	7,924.82	20.37	18.00	163.87	-322.31	-209.42	1,199.60	1,162.09	37.98	31.214		
8,100.00	8,038.99	8,028.00	8,024.02	20.65	18.25	163.88	-325.94	-210.19	1,213.28	1,175.27	38.51	31.087		
8,200.00	8,138.18	8,127.18	8,123.22	20.93	18.50	163.89	-329.57	-210.96	1,226.96	1,188.45	39.04	30.960		
8,300.00	8,237.37	8,226.36	8,222.42	21.21	18.75	163.90	-333.20	-211.73	1,240.64	1,201.63	39.57	30.833		
8,400.00	8,336.56	8,325.54	8,321.62	21.49	19.00	163.91	-336.83	-212.50	1,254.32	1,214.81	40.10	30.706		
8,500.00	8,435.75	8,424.73	8,420.82	21.77	19.25	163.92	-340.46	-213.27	1,268.00	1,227.99	40.63	30.579		
8,600.00	8,534.94	8,523.91	8,519.92	22.05	19.50	163.93	-344.09	-214.04	1,281.68	1,241.17	41.16	30.452		
8,700.00	8,634.13	8,623.09	8,619.12	22.33	19.75	163.94	-347.72	-214.81	1,295.36	1,254.35	41.69	30.325		
8,800.00	8,733.32	8,722.27	8,718.32	22.61	20.00	163.95	-351.35	-215.58	1,309.04	1,267.53	42.22	30.198		
8,900.00	8,832.51	8,821.45	8,817.52	22.89	20.25	163.96	-354.98	-216.35	1,322.72	1,280.71	42.75	30.071		
9,000.00	8,931.70	8,920.63	8,916.72	23.17	20.50	163.97	-358.61	-217.12	1,336.40	1,293.89	43.28	29.944		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-62.28	79.04	-150.45	169.95				
100.00	100.00	101.00	101.00	3.28	3.28	-62.28	79.04	-150.45	169.95	162.42	7.53	22.573	
200.00	200.00	201.00	201.00	3.31	3.31	-62.28	79.04	-150.45	169.95	162.38	7.57	22.438	CC, ES
300.00	299.98	297.76	297.74	3.35	3.35	-154.54	80.70	-150.61	172.47	164.81	7.66	22.515	
400.00	399.84	394.15	394.01	3.41	3.42	-153.86	85.59	-151.08	180.01	172.22	7.79	23.109	
500.00	499.45	507.22	492.36	3.50	3.52	-153.09	92.79	-151.77	191.95	183.97	7.98	24.049	
600.00	598.74	608.33	590.98	3.62	3.63	-152.82	100.07	-152.47	206.78	198.57	8.21	25.185	
700.00	697.94	709.53	689.52	3.76	3.76	-152.74	107.34	-153.17	222.18	213.71	8.47	26.238	
800.00	797.15	789.28	788.05	3.93	3.88	-152.67	114.61	-153.87	237.58	228.85	8.73	27.218	
900.00	896.36	888.09	886.59	4.12	4.04	-152.60	121.89	-154.57	252.98	243.94	9.05	27.961	
1,000.00	995.56	986.89	985.13	4.33	4.21	-152.55	129.16	-155.27	268.39	258.99	9.39	28.567	
1,100.00	1,094.77	1,085.70	1,083.66	4.56	4.40	-152.50	136.43	-155.97	283.79	274.02	9.77	29.056	
1,200.00	1,193.98	1,184.51	1,182.20	4.79	4.59	-152.45	143.70	-156.67	299.19	289.03	10.16	29.445	
1,300.00	1,293.19	1,283.31	1,280.73	5.04	4.80	-152.41	150.97	-157.37	314.60	304.02	10.57	29.751	
1,400.00	1,392.39	1,382.12	1,379.27	5.30	5.01	-152.37	158.24	-158.07	330.00	319.00	11.00	29.989	
1,500.00	1,491.60	1,480.92	1,477.81	5.56	5.23	-152.34	165.52	-158.77	345.41	333.96	11.45	30.169	
1,600.00	1,590.81	1,579.73	1,576.34	5.84	5.46	-152.31	172.79	-159.47	360.81	348.90	11.91	30.303	
1,700.00	1,690.01	1,678.54	1,674.88	6.12	5.69	-152.28	180.06	-160.17	376.21	363.84	12.38	30.399	
1,800.00	1,789.22	1,777.34	1,773.41	6.40	5.93	-152.26	187.33	-160.87	391.62	378.76	12.86	30.464	
1,900.00	1,888.43	1,876.15	1,871.95	6.55	6.17	-152.23	194.60	-161.57	407.02	394.18	12.85	31.687	
2,000.00	1,987.64	1,974.96	1,970.48	6.58	6.42	-152.21	201.87	-162.27	422.43	409.32	13.11	32.232	
2,100.00	2,086.84	2,073.76	2,069.02	6.63	6.67	-152.19	209.14	-162.98	437.83	424.45	13.38	32.715	
2,200.00	2,186.05	2,172.57	2,167.56	6.68	6.92	-152.17	216.42	-163.68	453.24	439.56	13.68	33.137	
2,300.00	2,285.26	2,271.37	2,266.09	6.75	7.17	-152.15	223.69	-164.38	468.64	454.65	13.99	33.504	
2,400.00	2,384.46	2,370.18	2,364.63	6.84	7.43	-152.13	230.96	-165.08	484.05	469.73	14.31	33.818	
2,500.00	2,483.67	2,468.99	2,463.16	6.94	7.69	-152.12	238.23	-165.78	499.45	484.80	14.65	34.084	
2,600.00	2,582.88	2,567.79	2,561.70	7.05	7.95	-152.10	245.50	-166.48	514.86	499.85	15.01	34.306	
2,700.00	2,682.09	2,666.60	2,660.24	7.17	8.21	-152.09	252.77	-167.18	530.26	514.89	15.38	34.488	
2,800.00	2,781.29	2,765.41	2,758.77	7.30	8.48	-152.08	260.05	-167.88	545.67	529.91	15.76	34.633	
2,900.00	2,880.50	2,864.21	2,857.31	7.45	8.74	-152.06	267.32	-168.58	561.07	544.92	16.15	34.747	
3,000.00	2,979.71	2,963.02	2,955.84	7.60	9.01	-152.05	274.59	-169.28	576.48	559.93	16.55	34.831	
3,100.00	3,078.91	3,061.82	3,054.38	7.76	9.28	-152.04	281.86	-169.98	591.88	574.92	16.96	34.890	
3,200.00	3,178.12	3,160.63	3,152.91	7.94	9.55	-152.03	289.13	-170.68	607.29	589.90	17.39	34.926	
3,300.00	3,277.33	3,259.44	3,251.45	8.12	9.82	-152.02	296.40	-171.38	622.69	604.87	17.82	34.943	
3,400.00	3,376.53	3,358.24	3,349.99	8.31	10.09	-152.01	303.67	-172.08	638.10	619.83	18.26	34.942	
3,500.00	3,475.74	3,457.05	3,448.52	8.50	10.36	-152.00	310.95	-172.78	653.50	634.79	18.71	34.927	
3,600.00	3,574.95	3,555.86	3,547.06	8.70	10.64	-151.99	318.22	-173.48	668.91	649.74	19.17	34.898	
3,700.00	3,674.16	3,654.66	3,645.59	8.91	10.91	-151.99	325.49	-174.18	684.31	664.68	19.63	34.859	
3,800.00	3,773.36	3,753.47	3,744.13	9.13	11.18	-151.98	332.76	-174.88	699.72	679.61	20.10	34.810	
3,900.00	3,872.57	3,852.27	3,842.67	9.35	11.46	-151.97	340.03	-175.58	715.12	694.54	20.58	34.753	
4,000.00	3,971.78	3,951.08	3,941.20	9.57	11.74	-151.96	347.30	-176.28	730.53	709.47	21.06	34.690	
4,100.00	4,070.98	4,049.89	4,039.74	9.80	12.01	-151.96	354.58	-176.98	745.93	724.38	21.55	34.621	
4,200.00	4,170.19	4,148.69	4,138.27	10.04	12.29	-151.95	361.85	-177.68	761.34	739.30	22.04	34.547	
4,300.00	4,269.40	4,247.50	4,236.81	10.28	12.57	-151.94	369.12	-178.38	776.74	754.21	22.53	34.470	
4,400.00	4,368.61	4,346.31	4,335.34	10.52	12.84	-151.94	376.39	-179.08	792.15	769.11	23.03	34.390	
4,500.00	4,467.81	4,445.11	4,433.88	10.77	13.12	-151.93	383.66	-179.78	807.55	784.01	23.54	34.307	
4,600.00	4,567.02	4,543.92	4,532.42	11.02	13.40	-151.92	390.93	-180.48	822.96	798.91	24.05	34.222	
4,700.00	4,666.23	4,642.72	4,630.95	11.27	13.68	-151.92	398.21	-181.18	838.36	813.80	24.56	34.137	
4,800.00	4,765.43	4,741.53	4,729.49	11.52	13.96	-151.91	405.48	-181.88	853.77	828.69	25.07	34.050	
4,900.00	4,864.64	4,840.34	4,828.02	11.78	14.24	-151.91	412.75	-182.58	869.17	843.58	25.59	33.963	
5,000.00	4,963.85	4,939.14	4,926.56	12.04	14.52	-151.90	420.02	-183.28	884.58	858.46	26.11	33.875	
5,100.00	5,063.06	5,037.95	5,025.10	12.31	14.80	-151.90	427.29	-183.98	899.98	873.35	26.64	33.788	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,136.76	5,123.63	12.57	15.08	-151.89	434.56	-184.68	915.39	888.22	27.16	33.701						
5,300.00	5,261.47	5,235.56	5,222.17	12.84	15.36	-151.89	441.83	-185.38	930.79	903.10	27.69	33.614						
5,400.00	5,360.68	5,334.37	5,320.70	13.11	15.64	-151.89	449.11	-186.08	946.20	917.98	28.22	33.528						
5,500.00	5,459.88	5,433.17	5,419.24	13.38	15.92	-151.88	456.38	-186.78	961.60	932.85	28.75	33.443						
5,600.00	5,559.09	5,531.98	5,517.77	13.65	16.21	-151.88	463.65	-187.48	977.01	947.72	29.29	33.358						
5,700.00	5,658.30	5,630.79	5,616.31	13.93	16.49	-151.87	470.92	-188.18	992.41	962.59	29.82	33.275						
5,800.00	5,757.50	5,729.59	5,714.85	14.20	16.77	-151.87	478.19	-188.88	1,007.82	977.45	30.36	33.192						
5,900.00	5,856.71	5,828.40	5,813.38	14.48	17.05	-151.87	485.46	-189.58	1,023.22	992.32	30.90	33.111						
6,000.00	5,955.92	5,927.21	5,911.92	14.76	17.34	-151.86	492.74	-190.28	1,038.63	1,007.18	31.44	33.031						
6,100.00	6,055.13	6,026.01	6,010.45	15.04	17.62	-151.86	500.01	-190.98	1,054.03	1,022.05	31.99	32.952						
6,200.00	6,154.33	6,124.82	6,108.99	15.32	17.90	-151.86	507.28	-191.68	1,069.44	1,036.91	32.53	32.874						
6,300.00	6,253.54	6,223.62	6,207.53	15.61	18.18	-151.85	514.55	-192.38	1,084.84	1,051.77	33.08	32.798						
6,400.00	6,352.75	6,322.43	6,306.06	15.89	18.47	-151.85	521.82	-193.08	1,100.25	1,066.63	33.62	32.722						
6,500.00	6,451.95	6,421.40	6,404.45	16.17	18.76	-102.36	529.38	771.45	1,105.27	1,071.89	33.38	33.110						
6,600.00	6,551.74	6,521.42	6,504.44	16.37	18.98	-102.36	536.93	775.97	1,105.27	1,071.89	33.38	33.110						
6,700.00	6,651.02	6,620.79	6,603.86	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
6,800.00	6,750.30	6,720.07	6,703.14	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
6,900.00	6,849.58	6,819.35	6,802.42	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,000.00	6,948.86	6,918.63	6,901.70	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,100.00	7,048.14	7,017.91	7,001.00	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,200.00	7,147.42	7,117.19	7,100.28	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,300.00	7,246.70	7,216.47	7,199.37	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,400.00	7,345.98	7,315.75	7,298.47	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,500.00	7,445.26	7,415.03	7,397.57	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,600.00	7,544.54	7,514.31	7,496.67	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,700.00	7,643.82	7,613.59	7,595.77	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,800.00	7,743.10	7,712.87	7,694.87	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
7,900.00	7,842.38	7,812.15	7,794.25	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,000.00	7,941.66	7,911.43	7,893.35	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,100.00	8,040.94	8,010.71	8,002.45	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,200.00	8,140.22	8,110.00	8,101.59	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,300.00	8,239.50	8,209.27	8,200.79	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,400.00	8,338.78	8,308.55	8,300.07	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,500.00	8,438.06	8,407.83	8,408.59	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,600.00	8,537.34	8,507.11	8,507.87	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,700.00	8,636.62	8,606.39	8,606.15	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,800.00	8,735.90	8,705.67	8,705.43	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
8,900.00	8,835.18	8,804.95	8,804.71	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,000.00	8,934.46	8,904.23	8,904.00	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,100.00	9,033.74	9,003.51	9,003.27	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,200.00	9,133.02	9,102.79	9,102.55	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,300.00	9,232.30	9,202.07	9,201.83	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,400.00	9,331.58	9,301.35	9,301.11	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,500.00	9,430.86	9,400.63	9,400.39	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,600.00	9,530.14	9,500.91	9,500.67	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,700.00	9,629.42	9,599.19	9,598.95	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,800.00	9,728.70	9,698.47	9,698.23	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
9,900.00	9,827.98	9,797.75	9,797.51	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,000.00	9,927.26	9,897.03	9,896.79	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,100.00	10,026.54	9,996.31	9,996.07	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,200.00	10,125.82	10,095.59	10,095.35	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,300.00	10,225.10	10,194.87	10,194.63	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,400.00	10,324.38	10,294.15	10,293.91	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,500.00	10,423.66	10,393.43	10,393.19	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,600.00	10,522.94	10,492.71	10,492.47	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,700.00	10,622.22	10,591.99	10,591.75	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,800.00	10,721.50	10,691.27	10,691.03	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
10,900.00	10,820.78	10,790.55	10,790.31	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,000.00	10,920.06	10,889.83	10,889.59	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,100.00	11,019.34	10,989.11	10,988.87	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,200.00	11,118.62	11,088.39	11,088.15	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,300.00	11,217.90	11,187.67	11,187.43	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,400.00	11,317.18	11,286.95	11,286.71	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,500.00	11,416.46	11,386.23	11,386.00	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,600.00	11,515.74	11,485.51	11,485.27	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,700.00	11,615.02	11,584.79	11,584.55	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,800.00	11,714.30	11,684.07	11,683.83	16.49	19.04	-102.36	539.37	775.97	1,025.43	990.91	34.52	29.706						
11,900.00	11,813.58	11,783.35																



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	-68.58	59.01	-150.45	161.61				
100.00	100.00	101.00	101.00	3.28	3.28	-68.58	59.01	-150.45	161.61	154.08	7.53	21.465	
200.00	200.00	201.00	201.00	3.31	3.31	-68.58	59.01	-150.45	161.61	154.03	7.57	21.336 CC, ES	
300.00	299.98	298.38	298.36	3.35	3.35	-160.74	60.69	-150.63	164.06	156.40	7.66	21.416	
400.00	399.84	395.38	395.23	3.41	3.42	-159.77	65.63	-151.14	171.41	163.61	7.79	22.000	
500.00	499.45	505.71	493.88	3.50	3.52	-158.66	72.72	-151.89	183.06	175.08	7.98	22.938	
600.00	598.74	606.81	592.52	3.62	3.63	-158.03	79.84	-152.64	197.75	189.54	8.21	24.090	
700.00	697.94	708.00	691.07	3.76	3.76	-157.61	86.95	-153.39	213.04	204.57	8.47	25.167	
800.00	797.15	809.19	789.63	3.93	3.91	-157.25	94.07	-154.13	228.34	219.58	8.76	26.074	
900.00	896.36	889.63	888.18	4.12	4.04	-156.94	101.18	-154.88	243.65	234.61	9.05	26.931	
1,000.00	995.56	988.44	986.73	4.33	4.21	-156.66	108.29	-155.63	258.97	249.58	9.39	27.570	
1,100.00	1,094.77	1,087.25	1,085.29	4.56	4.40	-156.41	115.40	-156.38	274.29	264.53	9.76	28.092	
1,200.00	1,193.98	1,186.06	1,183.84	4.79	4.59	-156.19	122.51	-157.12	289.62	279.46	10.16	28.515	
1,300.00	1,293.19	1,284.88	1,282.40	5.04	4.80	-155.99	129.62	-157.87	304.95	294.38	10.57	28.854	
1,400.00	1,392.39	1,383.69	1,380.95	5.30	5.01	-155.81	136.74	-158.62	320.29	309.29	11.00	29.124	
1,500.00	1,491.60	1,482.50	1,479.50	5.56	5.23	-155.65	143.85	-159.37	335.62	324.18	11.44	29.336	
1,600.00	1,590.81	1,581.31	1,578.06	5.84	5.46	-155.50	150.96	-160.11	350.96	339.07	11.90	29.500	
1,700.00	1,690.01	1,680.13	1,676.61	6.12	5.69	-155.36	158.07	-160.86	366.30	353.94	12.37	29.624	
1,800.00	1,789.22	1,778.94	1,775.16	6.40	5.93	-155.24	165.18	-161.61	381.65	368.81	12.84	29.716	
1,900.00	1,888.43	1,877.75	1,873.72	6.55	6.08	-155.12	172.29	-162.35	396.99	384.25	12.74	31.159	
2,000.00	1,987.64	1,976.56	1,972.27	6.58	6.12	-155.01	179.41	-163.10	412.34	399.54	12.80	32.251	
2,100.00	2,086.84	2,075.38	2,070.82	6.63	6.15	-154.91	186.52	-163.85	427.69	414.83	12.86	33.262	
2,200.00	2,186.05	2,174.19	2,169.38	6.68	6.19	-154.82	193.63	-164.60	443.04	430.09	12.94	34.231	
2,300.00	2,285.26	2,273.00	2,267.93	6.75	6.24	-154.73	200.74	-165.34	458.39	445.33	13.05	35.118	
2,400.00	2,384.46	2,371.81	2,366.48	6.84	6.30	-154.65	207.85	-166.09	473.74	460.55	13.19	35.923	
2,500.00	2,483.67	2,470.63	2,465.04	6.94	6.38	-154.58	214.96	-166.84	489.09	475.74	13.35	36.645	
2,600.00	2,582.88	2,569.44	2,563.59	7.05	6.46	-154.50	222.08	-167.59	504.44	490.91	13.53	37.286	
2,700.00	2,682.09	2,668.25	2,662.14	7.17	6.56	-154.44	229.19	-168.33	519.80	506.06	13.73	37.848	
2,800.00	2,781.29	2,767.07	2,760.70	7.30	6.67	-154.37	236.30	-169.08	535.15	521.19	13.96	38.336	
2,900.00	2,880.50	2,865.88	2,859.25	7.45	6.79	-154.32	243.41	-169.83	550.51	536.30	14.21	38.753	
3,000.00	2,979.71	2,964.69	2,957.80	7.60	6.91	-154.26	250.52	-170.58	565.86	551.39	14.47	39.104	
3,100.00	3,078.91	3,063.50	3,056.36	7.76	7.05	-154.21	257.63	-171.32	581.22	566.46	14.75	39.395	
3,200.00	3,178.12	3,162.32	3,154.91	7.94	7.19	-154.15	264.75	-172.07	596.57	581.52	15.05	39.629	
3,300.00	3,277.33	3,261.13	3,253.46	8.12	7.34	-154.11	271.86	-172.82	611.93	596.56	15.37	39.813	
3,400.00	3,376.53	3,359.94	3,352.02	8.31	7.50	-154.06	278.97	-173.57	627.29	611.59	15.70	39.952	
3,500.00	3,475.74	3,458.75	3,450.57	8.50	7.67	-154.02	286.08	-174.31	642.65	626.60	16.05	40.050	
3,600.00	3,574.95	3,557.57	3,549.12	8.70	7.84	-153.98	293.19	-175.06	658.00	641.60	16.40	40.112	
3,700.00	3,674.16	3,656.38	3,647.68	8.91	8.02	-153.94	300.30	-175.81	673.36	656.59	16.77	40.141	
3,800.00	3,773.36	3,755.19	3,746.23	9.13	8.20	-153.90	307.42	-176.56	688.72	671.56	17.16	40.143	
3,900.00	3,872.57	3,854.00	3,844.78	9.35	8.39	-153.86	314.53	-177.30	704.08	686.53	17.55	40.120	
4,000.00	3,971.78	3,952.82	3,943.34	9.57	8.58	-153.83	321.64	-178.05	719.44	701.49	17.95	40.077	
4,100.00	4,070.98	4,051.63	4,041.89	9.80	8.78	-153.79	328.75	-178.80	734.80	716.43	18.36	40.014	
4,200.00	4,170.19	4,150.44	4,140.45	10.04	8.99	-153.76	335.86	-179.55	750.16	731.37	18.78	39.937	
4,300.00	4,269.40	4,249.25	4,239.00	10.28	9.19	-153.73	342.97	-180.29	765.52	746.30	19.21	39.846	
4,400.00	4,368.61	4,348.07	4,337.55	10.52	9.40	-153.70	350.09	-181.04	780.88	761.23	19.65	39.743	
4,500.00	4,467.81	4,446.88	4,436.11	10.77	9.62	-153.67	357.20	-181.79	796.24	776.15	20.09	39.632	
4,600.00	4,567.02	4,545.69	4,534.66	11.02	9.83	-153.65	364.31	-182.54	811.60	791.06	20.54	39.512	
4,700.00	4,666.23	4,644.50	4,633.21	11.27	10.05	-153.62	371.42	-183.28	826.96	805.96	21.00	39.386	
4,800.00	4,765.43	4,743.32	4,731.77	11.52	10.28	-153.59	378.53	-184.03	842.32	820.86	21.46	39.255	
4,900.00	4,864.64	4,842.13	4,830.32	11.78	10.50	-153.57	385.65	-184.78	857.68	835.75	21.92	39.120	
5,000.00	4,963.85	4,940.94	4,928.87	12.04	10.73	-153.55	392.76	-185.53	873.04	850.64	22.40	38.982	
5,100.00	5,063.06	5,039.75	5,027.43	12.31	10.96	-153.52	399.87	-186.27	888.40	865.53	22.87	38.841	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 26N-27A-XR - Wellbore #1 - Design #1													<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 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	5,162.26	5,138.57	5,125.98	12.57	11.19	-153.50	406.98	-187.02	903.76	880.41	23.35	38.699		
5,300.00	5,261.47	5,237.38	5,224.53	12.84	11.43	-153.48	414.09	-187.77	919.12	895.29	23.84	38.556		
5,400.00	5,360.68	5,336.19	5,323.09	13.11	11.66	-153.46	421.20	-188.51	934.49	910.16	24.33	38.413		
5,500.00	5,459.88	5,435.00	5,421.64	13.38	11.90	-153.44	428.32	-189.26	949.85	925.03	24.82	38.269		
5,600.00	5,559.09	5,533.82	5,520.19	13.65	12.14	-153.42	435.43	-190.01	965.21	939.89	25.32	38.126		
5,700.00	5,658.30	5,632.63	5,618.75	13.93	12.39	-153.40	442.54	-190.76	980.57	954.75	25.82	37.984		
5,800.00	5,757.50	5,731.44	5,717.30	14.20	12.63	-153.39	449.65	-191.50	995.93	969.61	26.32	37.842		
5,900.00	5,856.71	5,830.25	5,815.85	14.48	12.87	-153.37	456.76	-192.25	1,011.29	984.47	26.82	37.702		
6,000.00	5,955.92	5,929.07	5,914.41	14.76	13.12	-153.35	463.87	-193.00	1,026.66	999.32	27.33	37.563		
6,100.00	6,055.13	6,027.88	6,012.96	15.04	13.37	-153.33	470.99	-193.75	1,042.02	1,014.18	27.84	37.426		
6,200.00	6,154.33	7,713.08	7,038.59	15.32	21.48	-103.08	543.27	733.11	1,054.03	1,024.30	29.73	35.454		
6,300.00	6,253.54	7,725.49	7,038.57	15.61	21.62	-101.90	543.25	745.52	972.70	942.10	30.60	31.792		
6,400.00	6,352.75	7,737.91	7,038.55	15.89	21.76	-100.71	543.22	757.94	894.98	863.38	31.60	28.322		
6,500.00	6,451.95	7,750.32	7,038.53	16.17	21.90	-99.51	543.20	770.35	821.92	789.15	32.77	25.084		
6,600.00	6,551.74	7,754.87	7,038.53	16.37	21.95	-111.42	543.19	774.90	754.72	720.72	34.00	22.200		
6,700.00	6,651.02	7,743.76	7,038.54	16.49	21.83	102.27	543.21	763.79	696.18	661.02	35.15	19.803		
6,800.00	6,747.36	7,717.27	7,038.58	16.57	21.53	103.14	543.26	737.30	649.47	613.35	36.12	17.983		
6,900.00	6,838.38	7,676.05	7,038.64	16.60	21.08	102.16	543.34	696.08	616.61	579.87	36.74	16.783		
7,000.00	6,921.84	7,621.12	7,038.72	16.62	20.50	99.23	543.45	641.15	597.83	560.90	36.93	16.188		
7,100.00	6,995.69	7,553.82	7,038.81	16.65	19.83	94.87	543.58	573.85	591.35	554.63	36.72	16.105 SF		
7,115.64	7,006.25	7,542.28	7,038.83	16.67	19.72	94.11	543.60	562.31	591.24	554.58	36.66	16.128		
7,200.00	7,058.11	7,475.82	7,038.92	16.73	19.09	89.85	543.73	495.85	593.83	557.60	36.23	16.390		
7,300.00	7,107.56	7,390.33	7,038.31	16.87	18.36	85.02	543.85	410.37	601.41	565.74	35.67	16.859		
7,400.00	7,142.82	7,307.78	7,029.17	17.11	17.71	80.56	543.34	328.39	611.57	576.34	35.23	17.361		
7,500.00	7,163.02	7,228.99	7,010.64	17.46	17.14	76.45	542.14	251.86	623.34	588.40	34.94	17.840		
7,600.00	7,168.04	7,153.25	6,984.08	17.92	16.66	72.94	540.36	181.01	635.94	601.12	34.82	18.262		
7,700.00	7,168.22	7,083.61	6,952.41	18.52	16.28	70.23	538.19	119.06	652.17	617.28	34.89	18.690		
7,800.00	7,168.40	7,021.81	6,918.81	19.24	15.98	67.43	535.86	67.28	674.44	639.34	35.11	19.211		
7,900.00	7,168.58	6,967.58	6,885.31	20.08	15.75	64.73	533.52	24.72	703.57	668.16	35.41	19.869		
8,000.00	7,168.76	6,920.26	6,853.22	21.02	15.58	62.24	531.27	-9.98	739.89	704.14	35.76	20.693		
8,100.00	7,168.94	6,879.04	6,823.24	22.04	15.44	59.99	529.16	-38.18	783.33	747.23	36.10	21.698		
8,200.00	7,169.12	6,850.00	6,801.06	23.14	15.35	58.39	527.59	-56.85	833.52	797.08	36.44	22.872		
8,300.00	7,169.29	6,811.67	6,770.52	24.31	15.25	56.25	525.43	-79.90	889.71	853.00	36.71	24.238		
8,400.00	7,169.47	6,784.09	6,747.72	25.53	15.19	54.72	523.81	-95.33	951.36	914.41	36.95	25.748		
8,500.00	7,169.65	6,750.00	6,718.65	26.80	15.11	52.83	521.75	-113.01	1,017.83	980.70	37.13	27.412		
8,600.00	7,169.83	6,750.00	6,718.65	28.12	15.11	52.83	521.75	-113.01	1,088.32	1,051.02	37.31	29.173		
8,700.00	7,170.01	6,719.05	6,691.48	29.46	15.04	51.14	519.82	-127.69	1,162.12	1,124.69	37.43	31.050		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	-75.45	38.97	-150.17	155.14				
100.00	100.00	101.00	101.00	3.28	3.28	-75.45	38.97	-150.17	155.14	147.62	7.53	20.606	
200.00	200.00	201.00	201.00	3.31	3.31	-75.45	38.97	-150.17	155.14	147.57	7.57	20.483	CC, ES
300.00	299.98	298.75	298.73	3.35	3.35	-167.51	40.65	-150.45	157.57	149.90	7.66	20.567	
400.00	399.84	402.32	397.56	3.41	3.42	-166.48	44.97	-151.17	164.53	156.73	7.80	21.104	
500.00	499.45	502.90	496.88	3.50	3.51	-165.73	49.50	-151.93	175.00	167.02	7.98	21.942	
600.00	598.74	603.83	595.84	3.62	3.62	-165.32	54.02	-152.69	188.59	180.39	8.20	23.000	
700.00	697.94	704.85	694.71	3.76	3.75	-165.05	58.53	-153.44	202.80	194.35	8.45	23.998	
800.00	797.15	805.87	793.59	3.93	3.89	-164.82	63.04	-154.20	217.02	208.29	8.74	24.840	
900.00	896.36	906.89	892.46	4.12	4.05	-164.61	67.56	-154.95	231.25	222.19	9.05	25.542	
1,000.00	995.56	1,007.91	991.34	4.33	4.22	-164.43	72.07	-155.71	245.47	236.07	9.40	26.119	
1,100.00	1,094.77	1,108.93	1,090.21	4.56	4.40	-164.27	76.58	-156.46	259.70	249.93	9.77	26.589	
1,200.00	1,193.98	1,190.05	1,189.08	4.79	4.56	-164.13	81.10	-157.22	273.93	263.81	10.12	27.071	
1,300.00	1,293.19	1,289.03	1,287.96	5.04	4.76	-164.00	85.61	-157.97	288.16	277.64	10.52	27.386	
1,400.00	1,392.39	1,388.01	1,386.83	5.30	4.96	-163.88	90.13	-158.73	302.39	291.45	10.94	27.636	
1,500.00	1,491.60	1,486.99	1,485.71	5.56	5.17	-163.77	94.64	-159.49	316.63	305.25	11.38	27.832	
1,600.00	1,590.81	1,585.97	1,584.58	5.84	5.39	-163.67	99.15	-160.24	330.86	319.04	11.82	27.984	
1,700.00	1,690.01	1,684.95	1,683.46	6.12	5.61	-163.58	103.67	-161.00	345.10	332.81	12.28	28.099	
1,800.00	1,789.22	1,783.93	1,782.33	6.40	5.84	-163.50	108.18	-161.75	359.33	346.58	12.75	28.184	
1,900.00	1,888.43	1,882.91	1,881.20	6.55	6.07	-163.42	112.69	-162.51	373.57	360.84	12.73	29.348	
2,000.00	1,987.64	1,981.89	1,980.08	6.58	6.30	-163.35	117.21	-163.26	387.81	374.83	12.98	29.878	
2,100.00	2,086.84	2,080.87	2,078.95	6.63	6.54	-163.29	121.72	-164.02	402.04	388.80	13.25	30.348	
2,200.00	2,186.05	2,179.85	2,177.83	6.68	6.78	-163.22	126.23	-164.77	416.28	402.75	13.53	30.762	
2,300.00	2,285.26	2,278.83	2,276.70	6.75	7.03	-163.17	130.75	-165.53	430.52	416.69	13.83	31.123	
2,400.00	2,384.46	2,377.81	2,375.58	6.84	7.28	-163.11	135.26	-166.28	444.76	430.61	14.15	31.434	
2,500.00	2,483.67	2,476.79	2,474.45	6.94	7.52	-163.06	139.77	-167.04	459.00	444.52	14.48	31.699	
2,600.00	2,582.88	2,575.77	2,573.33	7.05	7.77	-163.02	144.29	-167.79	473.24	458.41	14.82	31.922	
2,700.00	2,682.09	2,674.75	2,672.20	7.17	8.03	-162.97	148.80	-168.55	487.48	472.30	15.18	32.107	
2,800.00	2,781.29	2,773.73	2,771.07	7.30	8.28	-162.93	153.32	-169.30	501.72	486.17	15.55	32.256	
2,900.00	2,880.50	2,872.71	2,869.95	7.45	8.54	-162.89	157.83	-170.06	515.96	500.02	15.94	32.375	
3,000.00	2,979.71	2,971.69	2,968.82	7.60	8.79	-162.85	162.34	-170.81	530.20	513.87	16.33	32.465	
3,100.00	3,078.91	3,070.67	3,067.70	7.76	9.05	-162.82	166.86	-171.57	544.44	527.71	16.74	32.531	
3,200.00	3,178.12	3,169.65	3,166.57	7.94	9.31	-162.78	171.37	-172.33	558.69	541.53	17.15	32.575	
3,300.00	3,277.33	3,268.63	3,265.45	8.12	9.57	-162.75	175.88	-173.08	572.93	555.35	17.57	32.599	
3,400.00	3,376.53	3,367.61	3,364.32	8.31	9.83	-162.72	180.40	-173.84	587.17	569.16	18.01	32.607	
3,500.00	3,475.74	3,466.59	3,463.19	8.50	10.09	-162.69	184.91	-174.59	601.41	582.96	18.45	32.600	
3,600.00	3,574.95	3,565.57	3,562.07	8.70	10.36	-162.66	189.42	-175.35	615.65	596.76	18.90	32.581	
3,700.00	3,674.16	3,664.55	3,660.94	8.91	10.62	-162.64	193.94	-176.10	629.89	610.54	19.35	32.551	
3,800.00	3,773.36	3,763.53	3,759.82	9.13	10.88	-162.61	198.45	-176.86	644.14	624.32	19.81	32.511	
3,900.00	3,872.57	3,862.51	3,858.69	9.35	11.15	-162.59	202.96	-177.61	658.38	638.10	20.28	32.464	
4,000.00	3,971.78	3,961.49	3,957.57	9.57	11.41	-162.56	207.48	-178.37	672.62	651.87	20.75	32.409	
4,100.00	4,070.98	4,060.47	4,056.44	9.80	11.68	-162.54	211.99	-179.12	686.86	665.63	21.23	32.350	
4,200.00	4,170.19	4,159.45	4,155.31	10.04	11.95	-162.52	216.51	-179.88	701.11	679.39	21.72	32.285	
4,300.00	4,269.40	4,258.43	4,254.19	10.28	12.21	-162.50	221.02	-180.63	715.35	693.15	22.20	32.217	
4,400.00	4,368.61	4,357.41	4,353.06	10.52	12.48	-162.48	225.53	-181.39	729.59	706.90	22.70	32.146	
4,500.00	4,467.81	4,456.39	4,451.94	10.77	12.75	-162.46	230.05	-182.14	743.84	720.64	23.19	32.072	
4,600.00	4,567.02	4,555.38	4,550.81	11.02	13.02	-162.44	234.56	-182.90	758.08	734.39	23.69	31.996	
4,700.00	4,666.23	4,654.36	4,649.69	11.27	13.29	-162.42	239.07	-183.65	772.32	748.13	24.20	31.919	
4,800.00	4,765.43	4,753.34	4,748.56	11.52	13.56	-162.41	243.59	-184.41	786.57	761.86	24.70	31.841	
4,900.00	4,864.64	4,852.32	4,847.43	11.78	13.83	-162.39	248.10	-185.17	800.81	775.60	25.21	31.762	
5,000.00	4,963.85	4,951.30	4,946.31	12.04	14.09	-162.38	252.61	-185.92	815.05	789.33	25.73	31.683	
5,100.00	5,063.06	5,050.28	5,045.18	12.31	14.36	-162.36	257.13	-186.68	829.30	803.06	26.24	31.604	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 26N-27C-XR - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-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	5,162.26	5,149.26	5,144.06	12.57	14.64	-162.35	261.64	-187.43	843.54	816.78	26.76	31.525	
5,300.00	5,261.47	5,248.24	5,242.93	12.84	14.91	-162.33	266.15	-188.19	857.78	830.50	27.28	31.446	
5,400.00	5,360.68	5,347.22	5,341.81	13.11	15.18	-162.32	270.67	-188.94	872.03	844.23	27.80	31.367	
5,500.00	5,459.88	5,446.20	5,440.68	13.38	15.45	-162.30	275.18	-189.70	886.27	857.95	28.32	31.289	
5,600.00	5,559.09	5,545.18	5,539.56	13.65	15.72	-162.29	279.70	-190.45	900.51	871.66	28.85	31.212	
5,700.00	5,658.30	5,644.16	5,638.43	13.93	15.99	-162.28	284.21	-191.21	914.76	885.38	29.38	31.136	
5,800.00	5,757.50	5,743.14	5,737.30	14.20	16.26	-162.27	288.72	-191.96	929.00	899.09	29.91	31.060	
5,900.00	5,856.71	5,842.12	5,836.18	14.48	16.53	-162.26	293.24	-192.72	943.25	912.80	30.44	30.986	
6,000.00	5,955.92	5,941.10	5,935.05	14.76	16.81	-162.24	297.75	-193.47	957.49	926.52	30.97	30.913	
6,100.00	6,055.13	6,040.08	6,033.93	15.04	17.08	-162.23	302.26	-194.23	971.73	940.22	31.51	30.840	
6,200.00	6,154.33	6,139.06	6,132.80	15.32	17.35	-162.22	306.78	-194.98	985.98	953.93	32.04	30.769	
6,300.00	6,253.54	6,238.04	6,231.68	15.61	17.62	-162.21	311.29	-195.74	1,000.22	967.64	32.58	30.698	
6,400.00	6,352.75	7,934.86	7,243.45	15.89	27.40	-108.02	355.73	758.13	970.92	940.71	30.21	32.140	
6,500.00	6,451.95	7,947.25	7,243.42	16.17	27.45	-106.31	355.71	770.51	881.12	850.00	31.12	28.314	
6,600.00	6,551.74	7,951.76	7,243.42	16.37	27.46	113.15	355.70	775.03	793.23	761.03	32.20	24.637	
6,700.00	6,651.02	7,940.62	7,243.44	16.49	27.42	110.72	355.72	763.89	709.27	675.82	33.45	21.202	
6,800.00	6,747.36	7,914.10	7,243.48	16.57	27.32	116.24	355.77	737.37	632.46	597.56	34.90	18.120	
6,900.00	6,838.38	7,872.85	7,243.55	16.60	27.19	118.57	355.85	696.12	565.86	529.32	36.54	15.487	
7,000.00	6,921.84	7,817.89	7,243.65	16.62	27.03	118.18	355.95	641.16	511.97	473.73	38.25	13.385	
7,100.00	6,995.69	7,750.57	7,243.77	16.65	26.89	115.74	356.08	573.84	472.15	432.27	39.89	11.838	
7,200.00	7,058.11	7,672.55	7,243.90	16.73	26.44	111.95	356.23	495.82	446.06	405.00	41.07	10.862	
7,300.00	7,107.56	7,576.17	7,242.83	16.87	25.14	106.98	356.35	399.46	431.32	390.22	41.10	10.495	
7,400.00	7,142.82	7,466.64	7,226.86	17.11	23.40	100.65	355.82	291.24	421.96	381.52	40.44	10.435 SF	
7,500.00	7,163.02	7,367.09	7,196.46	17.46	22.10	94.35	354.61	196.55	417.38	377.44	39.95	10.449	
7,540.55	7,167.08	7,329.17	7,181.05	17.65	21.68	91.79	353.97	161.91	416.96	377.16	39.81	10.474	
7,600.00	7,168.04	7,275.39	7,155.73	17.92	21.16	88.18	352.90	114.50	417.85	378.22	39.63	10.545	
7,700.00	7,168.22	7,195.33	7,110.87	18.52	20.52	82.06	350.97	48.29	424.55	385.02	39.52	10.742	
7,800.00	7,168.40	7,128.28	7,067.15	19.24	20.12	76.27	349.07	-2.47	440.74	401.18	39.56	11.141	
7,900.00	7,168.58	7,072.47	7,026.85	20.08	19.84	71.16	347.30	-41.02	468.39	428.76	39.63	11.819	
8,000.00	7,168.76	7,025.95	6,990.80	21.02	19.65	66.82	345.71	-70.35	507.73	468.03	39.70	12.789	
8,100.00	7,168.94	6,986.98	6,959.01	22.04	19.51	63.20	344.30	-92.84	557.72	517.97	39.76	14.029	
8,200.00	7,169.12	6,950.00	6,927.63	23.14	19.42	59.82	342.90	-112.35	616.75	576.98	39.76	15.510	
8,300.00	7,169.29	6,926.10	6,906.77	24.31	19.37	57.69	341.97	-123.97	683.05	643.24	39.81	17.159	
8,400.00	7,169.47	6,900.00	6,883.50	25.53	19.32	55.41	340.93	-135.75	755.20	715.39	39.81	18.971	
8,500.00	7,169.65	6,881.30	6,866.55	26.80	19.28	53.82	340.17	-143.61	831.94	792.13	39.81	20.896	
8,600.00	7,169.83	6,863.17	6,849.90	28.12	19.24	52.31	339.42	-150.74	912.34	872.53	39.81	22.919	
8,700.00	7,170.01	6,850.00	6,837.68	29.46	19.21	51.24	338.87	-155.62	995.65	955.85	39.80	25.017	
8,800.00	7,170.19	6,833.17	6,821.92	30.84	19.17	49.90	338.16	-161.50	1,081.28	1,041.49	39.79	27.178	
8,900.00	7,170.37	6,820.64	6,810.10	32.25	19.15	48.93	337.63	-165.59	1,168.82	1,129.04	39.77	29.386	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.27	60.10	-0.28	60.10				
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	60.10	-0.28	60.10	52.57	7.53	7.983	
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	60.10	-0.28	60.10	52.53	7.57	7.935 CC, ES	
300.00	299.98	299.31	299.29	3.35	3.35	-92.85	60.67	1.35	60.75	53.09	7.66	7.932	
400.00	399.84	398.60	398.45	3.41	3.42	-93.10	62.38	6.21	62.71	54.92	7.79	8.054	
500.00	499.45	497.84	497.31	3.50	3.51	-93.47	65.23	14.32	65.96	58.00	7.96	8.283	
600.00	598.74	602.81	595.94	3.62	3.63	-93.83	69.17	25.56	70.46	62.26	8.21	8.588	
700.00	697.94	702.92	694.98	3.76	3.78	-93.99	73.47	37.78	75.31	66.82	8.50	8.863	
800.00	797.15	803.04	794.02	3.93	3.95	-94.12	77.76	50.00	80.16	71.33	8.84	9.072	
900.00	896.36	903.16	893.05	4.12	4.14	-94.24	82.05	62.22	85.02	75.80	9.22	9.225	
1,000.00	995.56	1,003.28	992.09	4.33	4.35	-94.34	86.34	74.44	89.87	80.24	9.63	9.331	
1,100.00	1,094.77	1,103.39	1,091.13	4.56	4.57	-94.44	90.63	86.66	94.72	84.64	10.08	9.400	
1,200.00	1,193.98	1,203.51	1,190.17	4.79	4.81	-94.52	94.92	98.88	99.57	89.02	10.55	9.440	
1,300.00	1,293.19	1,303.63	1,289.21	5.04	5.06	-94.60	99.21	111.09	104.42	93.38	11.04	9.457	
1,400.00	1,392.39	1,403.75	1,388.25	5.30	5.32	-94.67	103.50	123.31	109.27	97.72	11.56	9.457	
1,500.00	1,491.60	1,503.87	1,487.29	5.56	5.58	-94.73	107.79	135.53	114.13	102.04	12.09	9.443	
1,600.00	1,590.81	1,603.98	1,586.33	5.84	5.86	-94.79	112.09	147.75	118.98	106.35	12.63	9.420	
1,700.00	1,690.01	1,704.10	1,685.37	6.12	6.14	-94.85	116.38	159.97	123.83	110.64	13.19	9.390	
1,800.00	1,789.22	1,804.22	1,784.40	6.40	6.42	-94.90	120.67	172.19	128.68	114.93	13.76	9.355	
1,900.00	1,888.43	1,904.34	1,883.44	6.55	6.72	-94.94	124.96	184.41	133.54	119.72	13.82	9.665	
2,000.00	1,987.64	2,004.46	1,982.48	6.58	7.01	-94.99	129.25	196.63	138.39	124.25	14.14	9.787	
2,100.00	2,086.84	2,104.57	2,081.52	6.63	7.31	-95.03	133.54	208.85	143.24	128.76	14.48	9.892	
2,200.00	2,186.05	2,195.31	2,180.56	6.68	7.58	-95.06	137.83	221.07	148.10	133.29	14.81	10.000	
2,300.00	2,285.26	2,304.81	2,279.60	6.75	7.92	-95.10	142.12	233.29	152.95	137.74	15.21	10.054	
2,400.00	2,384.46	2,404.93	2,378.64	6.84	8.22	-95.13	146.41	245.51	157.80	142.20	15.60	10.114	
2,500.00	2,483.67	2,505.05	2,477.68	6.94	8.53	-95.16	150.71	257.73	162.65	146.65	16.01	10.160	
2,600.00	2,582.88	2,605.16	2,576.72	7.05	8.84	-95.19	155.00	269.94	167.51	151.08	16.43	10.196	
2,700.00	2,682.09	2,705.28	2,675.76	7.17	9.16	-95.22	159.29	282.16	172.36	155.50	16.86	10.222	
2,800.00	2,781.29	2,805.40	2,774.79	7.30	9.47	-95.25	163.58	294.38	177.21	159.91	17.31	10.239	
2,900.00	2,880.50	2,905.52	2,873.83	7.45	9.79	-95.27	167.87	306.60	182.07	164.30	17.77	10.248	
3,000.00	2,979.71	3,005.63	2,972.87	7.60	10.11	-95.30	172.16	318.82	186.92	168.69	18.24	10.250	
3,100.00	3,078.91	3,105.75	3,071.91	7.76	10.43	-95.32	176.45	331.04	191.77	173.06	18.72	10.246	
3,200.00	3,178.12	3,205.87	3,170.95	7.94	10.75	-95.34	180.74	343.26	196.63	177.42	19.21	10.238	
3,300.00	3,277.33	3,305.99	3,269.99	8.12	11.07	-95.36	185.03	355.48	201.48	181.78	19.71	10.225	
3,400.00	3,376.53	3,406.11	3,369.03	8.31	11.39	-95.38	189.32	367.70	206.33	186.12	20.21	10.208	
3,500.00	3,475.74	3,506.22	3,468.07	8.50	11.71	-95.40	193.62	379.92	211.19	190.46	20.73	10.188	
3,600.00	3,574.95	3,606.34	3,567.11	8.70	12.03	-95.42	197.91	392.14	216.04	194.79	21.25	10.165	
3,700.00	3,674.16	3,706.46	3,666.15	8.91	12.36	-95.43	202.20	404.36	220.90	199.11	21.78	10.140	
3,800.00	3,773.36	3,806.58	3,765.18	9.13	12.68	-95.45	206.49	416.58	225.75	203.43	22.32	10.114	
3,900.00	3,872.57	3,906.70	3,864.22	9.35	13.01	-95.46	210.78	428.79	230.60	207.74	22.86	10.086	
4,000.00	3,971.78	3,993.19	3,963.26	9.57	13.29	-95.48	215.07	441.01	235.46	212.09	23.37	10.076	
4,100.00	4,070.98	4,106.93	4,062.30	9.80	13.66	-95.49	219.36	453.23	240.31	216.34	23.97	10.027	
4,200.00	4,170.19	4,192.95	4,161.34	10.04	13.94	-95.51	223.65	465.45	245.16	220.68	24.48	10.015	
4,300.00	4,269.40	4,307.17	4,260.38	10.28	14.32	-95.52	227.94	477.67	250.02	224.93	25.09	9.965	
4,400.00	4,368.61	4,407.28	4,359.42	10.52	14.65	-95.53	232.24	489.89	254.87	229.21	25.66	9.934	
4,500.00	4,467.81	4,507.40	4,458.46	10.77	14.97	-95.54	236.53	502.11	259.72	233.50	26.23	9.903	
4,600.00	4,567.02	4,607.52	4,557.50	11.02	15.30	-95.56	240.82	514.33	264.58	237.77	26.80	9.871	
4,700.00	4,666.23	4,707.64	4,656.53	11.27	15.63	-95.57	245.11	526.55	269.43	242.05	27.38	9.840	
4,800.00	4,765.43	4,807.76	4,755.57	11.52	15.96	-95.58	249.40	538.77	274.28	246.32	27.96	9.809	
4,900.00	4,864.64	4,907.87	4,854.61	11.78	16.29	-95.59	253.69	550.99	279.14	250.59	28.55	9.778	
5,000.00	4,963.85	4,992.01	4,953.65	12.04	16.57	-95.60	257.98	563.21	283.99	254.91	29.08	9.765	
5,100.00	5,063.06	5,108.11	5,052.69	12.31	16.95	-95.61	262.27	575.43	288.85	259.12	29.73	9.717	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 30C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,162.26	5,208.23	5,151.73	12.57	17.28	-95.62	266.56	587.65	293.70	263.38	30.32	9.687		
5,300.00	5,261.47	5,291.65	5,250.77	12.84	17.56	-95.63	270.86	599.86	298.55	267.69	30.86	9.675		
5,400.00	5,360.68	5,408.46	5,349.81	13.11	17.95	-95.64	275.15	612.08	303.41	271.90	31.51	9.629		
5,500.00	5,459.88	5,508.58	5,448.85	13.38	18.28	-95.65	279.44	624.30	308.26	276.15	32.11	9.600		
5,600.00	5,559.09	5,608.70	5,547.89	13.65	18.61	-95.65	283.73	636.52	313.11	280.40	32.71	9.572		
5,700.00	5,658.30	5,708.82	5,646.92	13.93	18.94	-95.66	288.02	648.74	317.97	284.65	33.32	9.544		
5,800.00	5,757.50	5,808.93	5,745.96	14.20	19.27	-95.67	292.31	660.96	322.82	288.90	33.92	9.517		
5,900.00	5,856.71	5,909.05	5,845.00	14.48	19.61	-95.68	296.60	673.18	327.68	293.15	34.53	9.490		
6,000.00	5,955.92	6,009.17	5,944.04	14.76	19.94	-95.68	300.89	685.40	332.53	297.39	35.13	9.464		
6,100.00	6,055.13	6,109.29	6,043.08	15.04	20.27	-95.69	305.18	697.62	337.38	301.64	35.74	9.439		
6,200.00	6,154.33	6,209.41	6,142.12	15.32	20.60	-95.70	309.48	709.84	342.24	305.88	36.36	9.414		
6,300.00	6,253.54	6,309.52	6,241.16	15.61	20.94	-95.71	313.77	722.06	347.09	310.12	36.97	9.389		
6,400.00	6,352.75	6,409.64	6,340.20	15.89	21.27	-95.71	318.06	734.28	351.94	314.36	37.58	9.365		
6,500.00	6,451.95	6,509.76	6,439.24	16.17	21.60	-95.74	322.35	746.50	356.80	318.60	38.20	9.341		
6,600.00	6,551.74	6,589.72	6,537.88	16.37	21.87	107.38	326.62	758.67	361.57	322.91	38.66	9.353		
6,700.00	6,651.02	6,686.76	6,634.10	16.49	22.19	95.85	330.79	770.54	367.08	328.01	39.07	9.395		
6,800.00	6,747.36	6,784.55	6,731.50	16.57	22.43	98.62	335.03	776.91	375.38	336.07	39.31	9.550		
6,900.00	6,838.38	6,888.05	6,834.35	16.60	22.59	102.05	339.54	767.47	386.66	347.27	39.39	9.817		
7,000.00	6,921.84	6,998.02	6,940.42	16.62	22.73	105.39	344.24	739.33	400.29	360.93	39.36	10.170		
7,100.00	6,995.69	7,115.37	7,046.45	16.65	22.87	108.39	348.99	689.68	415.33	376.08	39.25	10.582		
7,200.00	7,058.11	7,240.73	7,147.61	16.73	23.10	110.92	353.60	616.12	430.63	391.48	39.15	11.000		
7,300.00	7,107.56	7,374.27	7,237.32	16.87	23.56	112.86	357.77	517.62	444.91	405.62	39.29	11.325		
7,400.00	7,142.82	7,515.26	7,307.59	17.11	24.47	114.09	361.14	395.77	456.91	416.92	39.99	11.425		
7,500.00	7,163.02	7,661.89	7,350.45	17.46	25.99	114.53	363.37	255.90	465.58	424.03	41.54	11.207		
7,600.00	7,168.04	7,800.45	7,361.08	17.92	27.71	114.25	364.19	118.88	470.36	426.76	43.60	10.789		
7,700.00	7,168.22	7,900.52	7,361.38	18.52	27.76	114.07	364.46	18.96	474.00	429.75	44.25	10.713		
7,800.00	7,168.40	8,000.60	7,361.69	19.24	27.91	113.89	364.72	-80.96	477.65	432.55	45.11	10.589		
7,900.00	7,168.58	8,100.68	7,362.00	20.08	28.16	113.72	364.99	-180.89	481.31	435.15	46.16	10.427		
8,000.00	7,168.76	8,200.76	7,362.30	21.02	28.51	113.54	365.26	-280.81	484.97	437.57	47.40	10.231		
8,100.00	7,168.94	8,300.83	7,362.61	22.04	28.95	113.37	365.53	-380.73	488.63	439.82	48.81	10.012		
8,200.00	7,169.12	8,400.91	7,362.92	23.14	29.48	113.20	365.80	-480.65	492.30	441.93	50.37	9.774		
8,300.00	7,169.29	8,500.99	7,363.22	24.31	30.09	113.04	366.07	-580.57	495.97	443.90	52.07	9.525		
8,400.00	7,169.47	8,601.07	7,363.53	25.53	30.78	112.87	366.34	-680.49	499.65	445.74	53.90	9.269		
8,500.00	7,169.65	8,701.14	7,363.84	26.80	31.55	112.71	366.61	-780.42	503.33	447.48	55.85	9.012		
8,600.00	7,169.83	8,801.22	7,364.14	28.12	32.38	112.56	366.88	-880.34	507.01	449.10	57.91	8.755		
8,700.00	7,170.01	8,901.30	7,364.45	29.46	33.28	112.40	367.15	-980.26	510.70	450.64	60.06	8.503		
8,800.00	7,170.19	9,001.38	7,364.76	30.84	34.24	112.25	367.41	-1,080.18	514.39	452.09	62.30	8.256		
8,900.00	7,170.37	9,101.46	7,365.07	32.25	35.24	112.09	367.68	-1,180.10	518.09	453.46	64.62	8.017		
9,000.00	7,170.55	9,201.53	7,365.37	33.68	36.30	111.94	367.95	-1,280.02	521.79	454.77	67.02	7.786		
9,100.00	7,170.73	9,301.61	7,365.68	35.13	37.41	111.80	368.22	-1,379.94	525.49	456.02	69.47	7.564		
9,200.00	7,170.91	9,401.69	7,365.99	36.60	38.55	111.65	368.49	-1,479.87	529.19	457.20	71.99	7.351		
9,300.00	7,171.09	9,501.77	7,366.29	38.09	39.73	111.51	368.76	-1,579.79	532.90	458.34	74.56	7.147		
9,400.00	7,171.27	9,601.84	7,366.60	39.59	40.95	111.37	369.03	-1,679.71	536.62	459.43	77.18	6.953		
9,500.00	7,171.45	9,701.92	7,366.91	41.10	42.19	111.23	369.30	-1,779.63	540.33	460.49	79.85	6.767		
9,600.00	7,171.63	9,802.00	7,367.21	42.62	43.47	111.09	369.57	-1,879.55	544.05	461.50	82.55	6.590		
9,700.00	7,171.80	9,902.03	7,367.52	44.17	44.77	111.00	369.84	-1,979.52	546.05	460.77	85.28	6.403		
9,800.00	7,171.98	10,002.03	7,367.83	45.71	46.10	111.00	370.11	-2,079.52	546.54	458.53	88.01	6.210		
9,900.00	7,172.16	10,102.03	7,368.13	47.27	47.44	110.99	370.37	-2,179.52	547.04	456.27	90.77	6.027		
10,000.00	7,172.34	10,202.03	7,368.44	48.83	48.81	110.99	370.64	-2,279.52	547.53	453.97	93.56	5.852		
10,100.00	7,172.52	10,302.03	7,368.75	50.41	50.19	110.98	370.91	-2,379.52	548.02	451.65	96.37	5.687		
10,200.00	7,172.70	10,402.03	7,369.06	51.98	51.60	110.98	371.18	-2,479.51	548.51	449.31	99.21	5.529		
10,300.00	7,172.88	10,502.03	7,369.36	53.57	53.01	110.97	371.45	-2,579.51	549.01	446.95	102.06	5.379		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 30C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,173.06	10,602.03	7,369.67	55.15	54.45	110.97	371.72	-2,679.51	549.50	444.57	104.93	5.237		
10,500.00	7,173.24	10,702.04	7,369.98	56.75	55.89	110.96	371.99	-2,779.51	549.99	442.17	107.83	5.101		
10,600.00	7,173.42	10,797.96	7,370.28	58.34	57.29	110.96	372.26	-2,879.51	550.49	439.81	110.68	4.974		
10,700.00	7,173.60	10,902.04	7,370.59	59.94	58.82	110.95	372.53	-2,979.50	550.98	437.32	113.66	4.848		
10,800.00	7,173.78	11,002.04	7,370.90	61.55	60.30	110.94	372.80	-3,079.50	551.47	434.88	116.59	4.730		
10,900.00	7,173.95	11,102.04	7,371.20	63.16	61.79	110.94	373.07	-3,179.50	551.96	432.43	119.54	4.617		
11,000.00	7,174.13	11,202.04	7,371.51	64.77	63.29	110.93	373.34	-3,279.50	552.46	429.96	122.50	4.510		
11,100.00	7,174.31	11,302.04	7,371.82	66.38	64.80	110.93	373.61	-3,379.50	552.95	427.48	125.47	4.407		
11,200.00	7,174.49	11,402.04	7,372.13	68.00	66.31	110.92	373.87	-3,479.49	553.44	424.99	128.45	4.309		
11,300.00	7,174.67	11,502.05	7,372.43	69.62	67.83	110.92	374.14	-3,579.49	553.94	422.49	131.44	4.214		
11,400.00	7,174.85	11,602.05	7,372.74	71.24	69.36	110.91	374.41	-3,679.49	554.43	419.99	134.44	4.124		
11,500.00	7,175.03	11,702.05	7,373.05	72.87	70.90	110.91	374.68	-3,779.49	554.92	417.47	137.45	4.037		
11,600.00	7,175.21	11,802.05	7,373.35	74.50	72.44	110.90	374.95	-3,879.49	555.42	414.95	140.47	3.954		
11,700.00	7,175.39	11,902.05	7,373.66	76.12	73.99	110.90	375.22	-3,979.48	555.91	412.42	143.49	3.874		
11,800.00	7,175.57	12,002.05	7,373.97	77.75	75.54	110.89	375.49	-4,079.48	556.40	409.88	146.52	3.797		
11,900.00	7,175.75	12,102.05	7,374.28	79.39	77.10	110.89	375.76	-4,179.48	556.89	407.34	149.56	3.724		
12,000.00	7,175.93	12,202.05	7,374.58	81.02	78.66	110.88	376.03	-4,279.48	557.39	404.79	152.60	3.653		
12,100.00	7,176.11	12,302.06	7,374.89	82.66	80.23	110.88	376.30	-4,379.47	557.88	402.23	155.65	3.584		
12,200.00	7,176.28	12,402.06	7,375.20	84.29	81.80	110.87	376.57	-4,479.47	558.37	399.67	158.70	3.518		
12,300.00	7,176.46	12,502.06	7,375.50	85.93	83.37	110.86	376.84	-4,579.47	558.87	397.10	161.76	3.455		
12,400.00	7,176.64	12,602.06	7,375.81	87.57	84.95	110.86	377.10	-4,679.47	559.36	394.53	164.83	3.394		
12,500.00	7,176.82	12,702.06	7,376.12	89.21	86.54	110.85	377.37	-4,779.47	559.85	391.96	167.90	3.334		
12,600.00	7,177.00	12,802.06	7,376.42	90.85	88.12	110.85	377.64	-4,879.46	560.35	389.38	170.97	3.277		
12,700.00	7,177.18	12,902.06	7,376.73	92.49	89.71	110.84	377.91	-4,979.46	560.84	386.79	174.05	3.222		
12,800.00	7,177.36	13,002.06	7,377.04	94.14	91.30	110.84	378.18	-5,079.46	561.33	384.20	177.13	3.169		
12,900.00	7,177.54	13,102.07	7,377.35	95.78	92.90	110.83	378.45	-5,179.46	561.82	381.61	180.21	3.118		
13,000.00	7,177.72	13,202.07	7,377.65	97.43	94.49	110.83	378.72	-5,279.46	562.32	379.02	183.30	3.068		
13,100.00	7,177.90	13,302.07	7,377.96	99.07	96.09	110.82	378.99	-5,379.45	562.81	376.42	186.39	3.019		
13,200.00	7,178.08	13,402.07	7,378.27	100.72	97.70	110.82	379.26	-5,479.45	563.30	373.81	189.49	2.973		
13,300.00	7,178.26	13,502.07	7,378.57	102.37	99.30	110.81	379.53	-5,579.45	563.80	371.21	192.59	2.927		
13,400.00	7,178.43	13,602.07	7,378.88	104.02	100.91	110.81	379.80	-5,679.45	564.29	368.60	195.69	2.884		
13,500.00	7,178.61	13,702.07	7,379.19	105.67	102.52	110.80	380.07	-5,779.45	564.78	365.99	198.79	2.841		
13,600.00	7,178.79	13,802.07	7,379.50	107.32	104.13	110.80	380.34	-5,879.44	565.28	363.38	201.90	2.800		
13,700.00	7,178.97	13,902.08	7,379.80	108.97	105.74	110.79	380.60	-5,979.44	565.77	360.76	205.01	2.760		
13,800.00	7,179.15	14,002.08	7,380.11	110.62	107.35	110.79	380.87	-6,079.44	566.26	358.14	208.12	2.721		
13,900.00	7,179.33	14,102.08	7,380.42	112.27	108.97	110.78	381.14	-6,179.44	566.76	355.52	211.23	2.683		
14,000.00	7,179.51	14,202.08	7,380.72	113.92	110.59	110.78	381.41	-6,279.44	567.25	352.90	214.35	2.646		
14,100.00	7,179.69	14,302.08	7,381.03	115.58	112.21	110.77	381.68	-6,379.43	567.74	350.27	217.47	2.611		
14,200.00	7,179.87	14,402.08	7,381.34	117.23	113.83	110.77	381.95	-6,479.43	568.24	347.65	220.59	2.576		
14,300.00	7,180.05	14,502.08	7,381.64	118.88	115.45	110.76	382.22	-6,579.43	568.73	345.02	223.71	2.542		
14,400.00	7,180.23	14,602.08	7,381.95	120.54	117.07	110.76	382.49	-6,679.43	569.22	342.39	226.84	2.509		
14,500.00	7,180.41	14,702.08	7,382.26	122.19	118.70	110.75	382.76	-6,779.43	569.71	339.75	229.96	2.477		
14,600.00	7,180.58	14,802.09	7,382.57	123.85	120.33	110.75	383.03	-6,879.42	570.21	337.12	233.09	2.446		
14,700.00	7,180.76	14,902.09	7,382.87	125.50	121.95	110.74	383.30	-6,979.42	570.70	334.48	236.22	2.416		
14,800.00	7,180.94	15,002.09	7,383.18	127.16	123.58	110.74	383.57	-7,079.42	571.19	331.84	239.35	2.386		
14,900.00	7,181.12	15,102.09	7,383.49	128.82	125.21	110.73	383.84	-7,179.42	571.69	329.20	242.48	2.358		
15,000.00	7,181.30	15,202.09	7,383.79	130.47	126.84	110.73	384.10	-7,279.42	572.18	326.56	245.62	2.330		
15,100.00	7,181.48	15,302.09	7,384.10	132.13	128.47	110.72	384.37	-7,379.41	572.67	323.92	248.75	2.302		
15,200.00	7,181.66	15,402.09	7,384.41	133.79	130.11	110.72	384.64	-7,479.41	573.17	321.27	251.89	2.275		
15,300.00	7,181.84	15,502.09	7,384.72	135.45	131.74	110.71	384.91	-7,579.41	573.66	318.63	255.03	2.249		
15,389.78	7,182.00	15,587.69	7,384.99	136.94	133.14	110.71	385.15	-7,669.19	574.10	316.32	257.78	2.227 SF		



# Hewlett-Packard

## Anticollision Report

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<b>Project:</b>	WELD COUNTY (NAD83, TRUE NORTH)	<b>TVD Reference:</b>	RKB = 4' @ 4908.00usft (RIG)
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<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	SANFORD 4N-30B-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		
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	40.07	-0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.07	-0.28	40.07	32.54	7.53	5.322		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.290	CC, ES	
300.00	299.98	299.58	299.56	3.35	3.35	-93.01	40.60	1.37	40.68	33.02	7.66	5.312		
400.00	399.84	399.13	398.97	3.41	3.42	-93.31	42.21	6.30	42.52	34.74	7.79	5.462		
500.00	499.45	498.64	498.10	3.50	3.51	-93.77	44.87	14.51	45.59	37.63	7.96	5.725		
600.00	598.74	598.13	596.85	3.62	3.63	-94.05	48.60	25.97	49.86	41.67	8.20	6.082		
700.00	697.94	701.99	695.82	3.76	3.78	-93.60	52.77	38.80	54.58	46.08	8.50	6.422		
800.00	797.15	802.10	794.80	3.93	3.95	-93.23	56.93	51.63	59.29	50.45	8.84	6.708		
900.00	896.36	902.21	893.77	4.12	4.14	-92.90	61.10	64.45	64.01	54.79	9.22	6.941		
1,000.00	995.56	1,002.32	992.74	4.33	4.35	-92.63	65.27	77.28	68.73	59.09	9.64	7.130		
1,100.00	1,094.77	1,102.43	1,091.72	4.56	4.58	-92.38	69.44	90.11	73.45	63.36	10.09	7.280		
1,200.00	1,193.98	1,202.55	1,190.69	4.79	4.82	-92.17	73.60	102.94	78.17	67.60	10.56	7.399		
1,300.00	1,293.19	1,302.66	1,289.66	5.04	5.08	-91.98	77.77	115.76	82.89	71.83	11.06	7.493		
1,400.00	1,392.39	1,402.77	1,388.64	5.30	5.34	-91.81	81.94	128.59	87.61	76.03	11.58	7.565		
1,500.00	1,491.60	1,502.88	1,487.61	5.56	5.61	-91.66	86.11	141.42	92.34	80.22	12.12	7.621		
1,600.00	1,590.81	1,602.99	1,586.58	5.84	5.89	-91.53	90.28	154.24	97.06	84.40	12.67	7.663		
1,700.00	1,690.01	1,703.10	1,685.56	6.12	6.18	-91.40	94.44	167.07	101.79	88.56	13.23	7.695		
1,800.00	1,789.22	1,803.22	1,784.53	6.40	6.47	-91.29	98.61	179.90	106.51	92.71	13.80	7.720		
1,900.00	1,888.43	1,903.33	1,883.50	6.55	6.62	-91.19	102.78	192.73	111.24	97.52	13.72	8.108		
2,000.00	1,987.64	2,003.44	1,982.48	6.58	6.65	-91.09	106.95	205.55	115.96	102.18	13.78	8.416		
2,100.00	2,086.84	2,103.55	2,081.45	6.63	6.69	-91.00	111.11	218.38	120.69	106.82	13.87	8.704		
2,200.00	2,186.05	2,203.66	2,180.42	6.68	6.75	-90.92	115.28	231.21	125.41	111.43	13.98	8.970		
2,300.00	2,285.26	2,303.78	2,279.40	6.75	6.83	-90.85	119.45	244.03	130.14	116.02	14.13	9.213		
2,400.00	2,384.46	2,403.89	2,378.37	6.84	6.92	-90.78	123.62	256.86	134.87	120.57	14.30	9.434		
2,500.00	2,483.67	2,504.00	2,477.34	6.94	7.02	-90.71	127.79	269.69	139.59	125.10	14.49	9.632		
2,600.00	2,582.88	2,604.11	2,576.32	7.05	7.13	-90.65	131.95	282.52	144.32	129.61	14.72	9.808		
2,700.00	2,682.09	2,704.22	2,675.29	7.17	7.25	-90.60	136.12	295.34	149.05	134.09	14.96	9.963		
2,800.00	2,781.29	2,804.34	2,774.26	7.30	7.39	-90.54	140.29	308.17	153.78	138.55	15.23	10.098		
2,900.00	2,880.50	2,904.45	2,873.24	7.45	7.54	-90.49	144.46	321.00	158.50	142.99	15.52	10.214		
3,000.00	2,979.71	3,004.56	2,972.21	7.60	7.69	-90.44	148.63	333.82	163.23	147.40	15.83	10.313		
3,100.00	3,078.91	3,104.67	3,071.18	7.76	7.86	-90.40	152.79	346.65	167.96	151.80	16.16	10.396		
3,200.00	3,178.12	3,204.78	3,170.16	7.94	8.03	-90.36	156.96	359.48	172.69	156.18	16.50	10.464		
3,300.00	3,277.33	3,304.90	3,269.13	8.12	8.22	-90.32	161.13	372.31	177.42	160.55	16.87	10.519		
3,400.00	3,376.53	3,405.01	3,368.10	8.31	8.41	-90.28	165.30	385.13	182.14	164.90	17.24	10.562		
3,500.00	3,475.74	3,505.12	3,467.08	8.50	8.60	-90.24	169.46	397.96	186.87	169.23	17.64	10.595		
3,600.00	3,574.95	3,605.23	3,566.05	8.70	8.81	-90.21	173.63	410.79	191.60	173.56	18.04	10.618		
3,700.00	3,674.16	3,705.34	3,665.02	8.91	9.02	-90.18	177.80	423.61	196.33	177.86	18.46	10.633		
3,800.00	3,773.36	3,805.45	3,764.00	9.13	9.24	-90.15	181.97	436.44	201.06	182.16	18.90	10.641		
3,900.00	3,872.57	3,905.57	3,862.97	9.35	9.46	-90.12	186.14	449.27	205.79	186.45	19.34	10.642		
4,000.00	3,971.78	4,005.68	3,961.94	9.57	9.69	-90.09	190.30	462.10	210.51	190.72	19.79	10.638		
4,100.00	4,070.98	4,105.79	4,060.92	9.80	9.92	-90.06	194.47	474.92	215.24	194.99	20.25	10.629		
4,200.00	4,170.19	4,205.90	4,159.89	10.04	10.16	-90.04	198.64	487.75	219.97	199.25	20.72	10.616		
4,300.00	4,269.40	4,306.01	4,258.86	10.28	10.40	-90.01	202.81	500.58	224.70	203.50	21.20	10.599		
4,400.00	4,368.61	4,406.13	4,357.84	10.52	10.64	-89.99	206.97	513.40	229.43	207.74	21.69	10.579		
4,500.00	4,467.81	4,506.24	4,456.81	10.77	10.89	-89.96	211.14	526.23	234.16	211.98	22.18	10.557		
4,600.00	4,567.02	4,593.65	4,555.78	11.02	11.11	-89.94	215.31	539.06	238.89	216.24	22.65	10.548		
4,700.00	4,666.23	4,706.46	4,654.76	11.27	11.40	-89.92	219.48	551.89	243.61	220.43	23.19	10.507		
4,800.00	4,765.43	4,806.57	4,753.73	11.52	11.65	-89.90	223.65	564.71	248.34	224.64	23.70	10.479		
4,900.00	4,864.64	4,906.69	4,852.70	11.78	11.91	-89.88	227.81	577.54	253.07	228.86	24.22	10.450		
5,000.00	4,963.85	4,993.20	4,951.68	12.04	12.14	-89.86	231.98	590.37	257.80	233.10	24.70	10.436		
5,100.00	5,063.06	5,106.91	5,050.65	12.31	12.44	-89.84	236.15	603.19	262.53	237.26	25.27	10.390		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,207.02	5,149.62	12.57	12.71	-89.83	240.32	616.02	267.26	241.46	25.80	10.359		
5,300.00	5,261.47	5,307.13	5,248.60	12.84	12.98	-89.81	244.48	628.85	271.99	245.65	26.34	10.328		
5,400.00	5,360.68	5,407.25	5,347.57	13.11	13.25	-89.79	248.65	641.68	276.72	249.84	26.88	10.296		
5,500.00	5,459.88	5,507.36	5,446.54	13.38	13.52	-89.78	252.82	654.50	281.45	254.03	27.42	10.264		
5,600.00	5,559.09	5,607.47	5,545.52	13.65	13.80	-89.76	256.99	667.33	286.17	258.21	27.97	10.232		
5,700.00	5,658.30	5,707.58	5,644.49	13.93	14.08	-89.75	261.16	680.16	290.90	262.39	28.52	10.201		
5,800.00	5,757.50	5,807.69	5,743.46	14.20	14.35	-89.73	265.32	692.98	295.63	266.56	29.07	10.169		
5,900.00	5,856.71	5,907.80	5,842.44	14.48	14.63	-89.72	269.49	705.81	300.36	270.73	29.63	10.138		
6,000.00	5,955.92	6,007.92	5,941.41	14.76	14.92	-89.71	273.66	718.64	305.09	274.90	30.19	10.106		
6,100.00	6,055.13	6,108.03	6,040.38	15.04	15.20	-89.69	277.83	731.47	309.82	279.07	30.75	10.075		
6,200.00	6,154.33	6,208.14	6,139.36	15.32	15.48	-89.68	281.99	744.29	314.55	283.23	31.31	10.045		
6,300.00	6,253.54	6,291.75	6,238.33	15.61	15.72	-89.67	286.16	757.12	319.28	287.44	31.83	10.029		
6,400.00	6,352.75	6,392.21	6,337.95	15.89	15.99	-89.76	290.36	769.42	323.98	291.59	32.39	10.002		
6,500.00	6,451.95	6,492.60	6,438.14	16.17	16.17	-91.91	294.60	770.05	328.44	295.60	32.84	10.001		
6,600.00	6,551.74	6,589.25	6,533.54	16.37	16.28	106.66	298.66	755.76	334.00	300.88	33.12	10.083		
6,700.00	6,651.02	6,683.23	6,623.21	16.49	16.35	88.54	302.51	728.17	341.15	307.88	33.26	10.256		
6,800.00	6,747.36	6,774.87	6,705.82	16.57	16.38	83.87	306.08	688.84	349.49	316.20	33.30	10.497		
6,900.00	6,838.38	6,864.52	6,780.36	16.60	16.40	80.40	309.32	639.27	358.59	325.33	33.26	10.782		
7,000.00	6,921.84	6,952.49	6,846.04	16.62	16.43	77.55	312.21	580.92	368.00	334.79	33.21	11.081		
7,100.00	6,995.69	7,039.09	6,902.24	16.65	16.50	75.19	314.70	515.18	377.27	344.05	33.22	11.357		
7,200.00	7,058.11	7,124.60	6,948.50	16.73	16.62	73.30	316.79	443.36	386.02	352.66	33.36	11.572		
7,300.00	7,107.56	7,209.29	6,984.42	16.87	16.81	71.84	318.45	366.76	393.91	360.23	33.67	11.698		
7,400.00	7,142.82	7,293.40	7,009.74	17.11	17.08	70.81	319.66	286.62	400.67	366.46	34.21	11.712		
7,500.00	7,163.02	7,377.18	7,024.26	17.46	17.44	70.19	320.42	204.17	406.10	371.12	34.97	11.611		
7,600.00	7,168.04	7,464.20	7,028.09	17.92	17.88	70.04	320.74	117.29	410.09	374.15	35.94	11.412		
7,700.00	7,168.22	7,564.12	7,028.51	18.52	18.51	70.25	320.93	17.37	413.64	376.49	37.15	11.133		
7,800.00	7,168.40	7,664.05	7,028.93	19.24	19.26	70.46	321.13	-82.55	417.20	378.60	38.60	10.809		
7,900.00	7,168.58	7,763.97	7,029.36	20.08	20.12	70.67	321.33	-182.48	420.76	380.51	40.25	10.454		
8,000.00	7,168.76	7,863.90	7,029.78	21.02	21.07	70.87	321.52	-282.40	424.33	382.24	42.09	10.081		
8,100.00	7,168.94	7,963.82	7,030.20	22.04	22.11	71.07	321.72	-382.33	427.91	383.81	44.10	9.704		
8,200.00	7,169.12	8,063.75	7,030.62	23.14	23.23	71.27	321.91	-482.25	431.49	385.24	46.25	9.330		
8,300.00	7,169.29	8,163.67	7,031.04	24.31	24.40	71.46	322.11	-582.17	435.07	386.55	48.52	8.967		
8,400.00	7,169.47	8,263.60	7,031.47	25.53	25.63	71.65	322.30	-682.10	438.66	387.76	50.90	8.618		
8,500.00	7,169.65	8,363.52	7,031.89	26.80	26.91	71.84	322.50	-782.02	442.25	388.87	53.38	8.285		
8,600.00	7,169.83	8,463.45	7,032.31	28.12	28.23	72.03	322.69	-881.95	445.85	389.91	55.94	7.970		
8,700.00	7,170.01	8,563.37	7,032.73	29.46	29.59	72.21	322.89	-981.87	449.46	390.88	58.57	7.673		
8,800.00	7,170.19	8,663.30	7,033.16	30.84	30.97	72.39	323.09	-1,081.79	453.06	391.79	61.27	7.395		
8,900.00	7,170.37	8,763.22	7,033.58	32.25	32.38	72.56	323.28	-1,181.72	456.68	392.66	64.02	7.133		
9,000.00	7,170.55	8,863.15	7,034.00	33.68	33.82	72.74	323.48	-1,281.64	460.29	393.47	66.82	6.888		
9,100.00	7,170.73	8,963.07	7,034.42	35.13	35.28	72.91	323.67	-1,381.57	463.91	394.25	69.66	6.659		
9,200.00	7,170.91	9,063.00	7,034.84	36.60	36.75	73.07	323.87	-1,481.49	467.54	394.99	72.55	6.445		
9,300.00	7,171.09	9,162.92	7,035.27	38.09	38.24	73.24	324.06	-1,581.41	471.16	395.70	75.46	6.243		
9,400.00	7,171.27	9,262.85	7,035.69	39.59	39.75	73.40	324.26	-1,681.34	474.80	396.38	78.41	6.055		
9,500.00	7,171.45	9,362.77	7,036.11	41.10	41.26	73.56	324.45	-1,781.26	478.43	397.04	81.39	5.878		
9,600.00	7,171.63	9,462.70	7,036.53	42.62	42.79	73.72	324.65	-1,881.18	482.07	397.68	84.39	5.712		
9,700.00	7,171.80	9,562.67	7,036.96	44.17	44.33	73.82	324.85	-1,981.16	483.94	396.54	87.41	5.537		
9,800.00	7,171.98	9,662.67	7,037.38	45.71	45.88	73.86	325.04	-2,081.16	484.26	393.83	90.43	5.355		
9,900.00	7,172.16	9,762.67	7,037.80	47.27	47.44	73.90	325.24	-2,181.15	484.59	391.11	93.47	5.184		
10,000.00	7,172.34	9,862.67	7,038.22	48.83	49.01	73.94	325.43	-2,281.15	484.91	388.38	96.53	5.023		
10,100.00	7,172.52	9,962.67	7,038.65	50.41	50.58	73.98	325.63	-2,381.15	485.23	385.63	99.60	4.872		
10,200.00	7,172.70	10,062.67	7,039.07	51.98	52.16	74.03	325.82	-2,481.15	485.55	382.87	102.68	4.729		
10,300.00	7,172.88	10,162.67	7,039.49	53.57	53.74	74.07	326.02	-2,581.14	485.88	380.10	105.78	4.593		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
10,400.00	7,173.06	10,262.67	7,039.91	55.15	55.33	74.11	326.22	-2,681.14	486.20	377.31	108.89	4.465		
10,500.00	7,173.24	10,362.66	7,040.33	56.75	56.93	74.15	326.41	-2,781.14	486.52	374.52	112.00	4.344		
10,600.00	7,173.42	10,462.66	7,040.76	58.34	58.52	74.19	326.61	-2,881.14	486.85	371.72	115.13	4.229		
10,700.00	7,173.60	10,562.66	7,041.18	59.94	60.13	74.23	326.80	-2,981.14	487.17	368.90	118.27	4.119		
10,800.00	7,173.78	10,662.66	7,041.60	61.55	61.73	74.27	327.00	-3,081.13	487.49	366.08	121.41	4.015		
10,900.00	7,173.95	10,762.66	7,042.02	63.16	63.34	74.31	327.19	-3,181.13	487.82	363.26	124.56	3.916		
11,000.00	7,174.13	10,862.66	7,042.45	64.77	64.95	74.35	327.39	-3,281.13	488.14	360.42	127.72	3.822		
11,100.00	7,174.31	10,962.66	7,042.87	66.38	66.57	74.39	327.59	-3,381.13	488.47	357.58	130.89	3.732		
11,200.00	7,174.49	11,062.66	7,043.29	68.00	68.19	74.43	327.78	-3,481.12	488.79	354.74	134.06	3.646		
11,300.00	7,174.67	11,162.66	7,043.71	69.62	69.81	74.47	327.98	-3,581.12	489.12	351.88	137.23	3.564		
11,400.00	7,174.85	11,262.65	7,044.14	71.24	71.43	74.51	328.17	-3,681.12	489.44	349.03	140.42	3.486		
11,500.00	7,175.03	11,362.65	7,044.56	72.87	73.06	74.55	328.37	-3,781.12	489.77	346.17	143.60	3.411		
11,600.00	7,175.21	11,462.65	7,044.98	74.50	74.69	74.59	328.56	-3,881.12	490.10	343.30	146.80	3.339		
11,700.00	7,175.39	11,562.65	7,045.40	76.12	76.31	74.63	328.76	-3,981.11	490.42	340.43	149.99	3.270		
11,800.00	7,175.57	11,662.65	7,045.83	77.75	77.95	74.67	328.95	-4,081.11	490.75	337.55	153.20	3.203		
11,900.00	7,175.75	11,762.65	7,046.25	79.39	79.58	74.71	329.15	-4,181.11	491.08	334.67	156.40	3.140		
12,000.00	7,175.93	11,862.65	7,046.67	81.02	81.21	74.75	329.35	-4,281.11	491.40	331.79	159.61	3.079		
12,100.00	7,176.11	11,962.65	7,047.09	82.66	82.85	74.79	329.54	-4,381.11	491.73	328.90	162.83	3.020		
12,200.00	7,176.28	12,062.65	7,047.52	84.29	84.49	74.83	329.74	-4,481.10	492.06	326.01	166.04	2.963		
12,300.00	7,176.46	12,162.64	7,047.94	85.93	86.12	74.87	329.93	-4,581.10	492.38	323.12	169.26	2.909		
12,400.00	7,176.64	12,262.64	7,048.36	87.57	87.76	74.91	330.13	-4,681.10	492.71	320.23	172.49	2.857		
12,500.00	7,176.82	12,362.64	7,048.78	89.21	89.41	74.95	330.32	-4,781.10	493.04	317.33	175.71	2.806		
12,600.00	7,177.00	12,462.64	7,049.21	90.85	91.05	74.99	330.52	-4,881.09	493.37	314.43	178.94	2.757		
12,700.00	7,177.18	12,562.64	7,049.63	92.49	92.69	75.03	330.72	-4,981.09	493.70	311.52	182.18	2.710		
12,800.00	7,177.36	12,662.64	7,050.05	94.14	94.34	75.07	330.91	-5,081.09	494.03	308.62	185.41	2.664		
12,900.00	7,177.54	12,762.64	7,050.47	95.78	95.98	75.11	331.11	-5,181.09	494.36	305.71	188.65	2.621		
13,000.00	7,177.72	12,862.64	7,050.90	97.43	97.63	75.15	331.30	-5,281.09	494.69	302.80	191.89	2.578		
13,100.00	7,177.90	12,962.64	7,051.32	99.07	99.27	75.18	331.50	-5,381.08	495.01	299.88	195.13	2.537		
13,200.00	7,178.08	13,062.63	7,051.74	100.72	100.92	75.22	331.69	-5,481.08	495.34	296.97	198.38	2.497		
13,300.00	7,178.26	13,162.63	7,052.16	102.37	102.57	75.26	331.89	-5,581.08	495.67	294.05	201.62	2.458		
13,400.00	7,178.43	13,262.63	7,052.59	104.02	104.22	75.30	332.09	-5,681.08	496.00	291.13	204.87	2.421		
13,500.00	7,178.61	13,362.63	7,053.01	105.67	105.87	75.34	332.28	-5,781.07	496.34	288.21	208.13	2.385		
13,600.00	7,178.79	13,462.63	7,053.43	107.32	107.52	75.38	332.48	-5,881.07	496.67	285.29	211.38	2.350		
13,700.00	7,178.97	13,562.63	7,053.85	108.97	109.17	75.42	332.67	-5,981.07	497.00	282.36	214.64	2.316		
13,800.00	7,179.15	13,662.63	7,054.28	110.62	110.82	75.46	332.87	-6,081.07	497.33	279.43	217.89	2.282		
13,900.00	7,179.33	13,762.63	7,054.70	112.27	112.48	75.50	333.06	-6,181.07	497.66	276.51	221.15	2.250		
14,000.00	7,179.51	13,862.63	7,055.12	113.92	114.13	75.54	333.26	-6,281.06	497.99	273.58	224.41	2.219		
14,100.00	7,179.69	13,962.62	7,055.54	115.58	115.78	75.57	333.46	-6,381.06	498.32	270.65	227.68	2.189		
14,200.00	7,179.87	14,062.62	7,055.97	117.23	117.44	75.61	333.65	-6,481.06	498.66	267.71	230.94	2.159		
14,300.00	7,180.05	14,162.62	7,056.39	118.88	119.09	75.65	333.85	-6,581.06	498.99	264.78	234.21	2.131		
14,400.00	7,180.23	14,262.62	7,056.81	120.54	120.75	75.69	334.04	-6,681.05	499.32	261.84	237.48	2.103		
14,500.00	7,180.41	14,362.62	7,057.23	122.19	122.40	75.73	334.24	-6,781.05	499.65	258.91	240.75	2.075		
14,600.00	7,180.58	14,462.62	7,057.66	123.85	124.06	75.77	334.43	-6,881.05	499.99	255.97	244.02	2.049		
14,700.00	7,180.76	14,562.62	7,058.08	125.50	125.71	75.81	334.63	-6,981.05	500.32	253.03	247.29	2.023		
14,800.00	7,180.94	14,662.62	7,058.50	127.16	127.37	75.84	334.83	-7,081.05	500.65	250.09	250.56	1.998		
14,900.00	7,181.12	14,762.62	7,058.92	128.82	129.03	75.88	335.02	-7,181.04	500.99	247.15	253.84	1.974		
15,000.00	7,181.30	14,862.61	7,059.35	130.47	130.69	75.92	335.22	-7,281.04	501.32	244.20	257.12	1.950		
15,100.00	7,181.48	14,962.61	7,059.77	132.13	132.34	75.96	335.41	-7,381.04	501.65	241.26	260.39	1.927		
15,200.00	7,181.66	15,062.61	7,060.19	133.79	134.00	76.00	335.61	-7,481.04	501.99	238.31	263.67	1.904		
15,300.00	7,181.84	15,162.61	7,060.61	135.45	135.66	76.04	335.80	-7,581.03	502.32	235.37	266.95	1.882		
15,389.78	7,182.00	15,252.39	7,060.99	136.94	137.15	76.07	335.98	-7,670.82	502.62	232.72	269.90	1.862 SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	80.14	-0.56	80.14				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.14	-0.56	80.14	72.61	7.53	10.645	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.14	-0.56	80.14	72.57	7.57	10.581	CC, ES
300.00	299.98	298.67	298.65	3.35	3.35	-93.04	80.96	0.93	81.05	73.39	7.66	10.583	
400.00	399.84	397.30	397.14	3.41	3.42	-93.45	83.42	5.39	83.79	76.00	7.78	10.763	
500.00	499.45	495.82	495.30	3.50	3.51	-94.06	87.52	12.80	88.34	80.38	7.96	11.098	
600.00	598.74	594.20	592.95	3.62	3.62	-94.71	93.23	23.15	94.71	86.52	8.19	11.563	
700.00	697.94	706.41	691.32	3.76	3.79	-94.51	100.14	35.67	102.20	93.70	8.50	12.023	
800.00	797.15	806.69	789.98	3.93	3.96	-94.30	107.11	48.30	109.74	100.89	8.84	12.408	
900.00	896.36	906.98	888.65	4.12	4.16	-94.11	114.08	60.93	117.27	108.04	9.23	12.708	
1,000.00	995.56	1,007.26	987.31	4.33	4.38	-93.94	121.06	73.56	124.80	115.15	9.65	12.935	
1,100.00	1,094.77	1,107.55	1,085.98	4.56	4.62	-93.80	128.03	86.20	132.34	122.24	10.10	13.103	
1,200.00	1,193.98	1,207.83	1,184.64	4.79	4.87	-93.67	135.00	98.83	139.87	129.29	10.58	13.222	
1,300.00	1,293.19	1,308.12	1,283.31	5.04	5.13	-93.55	141.98	111.46	147.41	136.33	11.08	13.305	
1,400.00	1,392.39	1,408.40	1,381.98	5.30	5.40	-93.45	148.95	124.09	154.94	143.34	11.60	13.357	
1,500.00	1,491.60	1,508.69	1,480.64	5.56	5.68	-93.35	155.92	136.72	162.48	150.34	12.14	13.386	
1,600.00	1,590.81	1,608.97	1,579.31	5.84	5.96	-93.26	162.90	149.36	170.02	157.33	12.69	13.398	
1,700.00	1,690.01	1,709.26	1,677.97	6.12	6.26	-93.18	169.87	161.99	177.55	164.30	13.25	13.395	
1,800.00	1,789.22	1,809.54	1,776.64	6.40	6.54	-93.11	176.84	174.62	185.09	171.27	13.82	13.396	
1,900.00	1,888.43	1,909.82	1,875.30	6.55	6.69	-93.04	183.82	187.25	192.63	178.90	13.73	14.026	
2,000.00	1,987.64	1,989.89	1,973.97	6.58	6.72	-92.98	190.79	199.88	200.17	186.38	13.79	14.520	
2,100.00	2,086.84	2,089.61	2,072.64	6.63	6.77	-92.92	197.76	212.52	207.71	193.83	13.87	14.974	
2,200.00	2,186.05	2,189.32	2,171.30	6.68	6.83	-92.87	204.74	225.15	215.24	201.26	13.99	15.390	
2,300.00	2,285.26	2,289.04	2,269.97	6.75	6.90	-92.82	211.71	237.78	222.78	208.66	14.13	15.769	
2,400.00	2,384.46	2,388.75	2,368.63	6.84	6.99	-92.77	218.68	250.41	230.32	216.03	14.30	16.109	
2,500.00	2,483.67	2,488.47	2,467.30	6.94	7.09	-92.73	225.66	263.05	237.86	223.37	14.49	16.412	
2,600.00	2,582.88	2,588.18	2,565.96	7.05	7.20	-92.69	232.63	275.68	245.40	230.69	14.71	16.679	
2,700.00	2,682.09	2,687.90	2,664.63	7.17	7.33	-92.65	239.60	288.31	252.94	237.98	14.96	16.910	
2,800.00	2,781.29	2,787.61	2,763.30	7.30	7.46	-92.61	246.58	300.94	260.48	245.26	15.23	17.109	
2,900.00	2,880.50	2,887.33	2,861.96	7.45	7.61	-92.58	253.55	313.57	268.02	252.51	15.51	17.276	
3,000.00	2,979.71	2,987.04	2,960.63	7.60	7.77	-92.55	260.52	326.21	275.56	259.74	15.82	17.415	
3,100.00	3,078.91	3,086.76	3,059.29	7.76	7.93	-92.51	267.50	338.84	283.10	266.95	16.15	17.529	
3,200.00	3,178.12	3,186.47	3,157.96	7.94	8.11	-92.49	274.47	351.47	290.64	274.14	16.50	17.618	
3,300.00	3,277.33	3,286.19	3,256.63	8.12	8.29	-92.46	281.44	364.10	298.18	281.32	16.86	17.686	
3,400.00	3,376.53	3,385.90	3,355.29	8.31	8.49	-92.43	288.42	376.73	305.72	288.48	17.24	17.736	
3,500.00	3,475.74	3,485.62	3,453.96	8.50	8.69	-92.41	295.39	389.37	313.26	295.63	17.63	17.768	
3,600.00	3,574.95	3,585.33	3,552.62	8.70	8.89	-92.38	302.36	402.00	320.80	302.76	18.04	17.786	
3,700.00	3,674.16	3,685.05	3,651.29	8.91	9.10	-92.36	309.34	414.63	328.34	309.88	18.46	17.790	
3,800.00	3,773.36	3,784.76	3,749.95	9.13	9.32	-92.34	316.31	427.26	335.88	316.99	18.89	17.783	
3,900.00	3,872.57	3,884.48	3,848.62	9.35	9.55	-92.32	323.28	439.89	343.42	324.09	19.33	17.767	
4,000.00	3,971.78	3,984.20	3,947.29	9.57	9.78	-92.30	330.26	452.53	350.96	331.18	19.78	17.741	
4,100.00	4,070.98	4,083.91	4,045.95	9.80	10.01	-92.28	337.23	465.16	358.50	338.26	20.24	17.709	
4,200.00	4,170.19	4,183.63	4,144.62	10.04	10.25	-92.26	344.20	477.79	366.04	345.33	20.71	17.671	
4,300.00	4,269.40	4,283.34	4,243.28	10.28	10.49	-92.24	351.18	490.42	373.58	352.39	21.19	17.627	
4,400.00	4,368.61	4,383.06	4,341.95	10.52	10.74	-92.22	358.15	503.05	381.12	359.44	21.68	17.579	
4,500.00	4,467.81	4,482.77	4,440.61	10.77	10.99	-92.21	365.12	515.69	388.66	366.49	22.17	17.527	
4,600.00	4,567.02	4,582.49	4,539.28	11.02	11.24	-92.19	372.10	528.32	396.20	373.53	22.68	17.473	
4,700.00	4,666.23	4,682.20	4,637.95	11.27	11.50	-92.18	379.07	540.95	403.74	380.56	23.18	17.416	
4,800.00	4,765.43	4,781.92	4,736.61	11.52	11.75	-92.16	386.04	553.58	411.28	387.59	23.70	17.357	
4,900.00	4,864.64	4,881.63	4,835.28	11.78	12.02	-92.15	393.02	566.21	418.83	394.61	24.21	17.297	
5,000.00	4,963.85	4,981.35	4,933.94	12.04	12.28	-92.14	399.99	578.85	426.37	401.63	24.74	17.236	
5,100.00	5,063.06	5,081.06	5,032.61	12.31	12.55	-92.12	406.96	591.48	433.91	408.64	25.27	17.174	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,180.78	5,131.28	12.57	12.82	-92.11	413.94	604.11	441.45	415.65	25.80	17.112		
5,300.00	5,261.47	5,280.49	5,229.94	12.84	13.09	-92.10	420.91	616.74	448.99	422.65	26.34	17.049		
5,400.00	5,360.68	5,380.21	5,328.61	13.11	13.36	-92.09	427.88	629.37	456.53	429.65	26.88	16.986		
5,500.00	5,459.88	5,479.92	5,427.27	13.38	13.64	-92.07	434.85	642.01	464.07	436.65	27.42	16.924		
5,600.00	5,559.09	5,579.64	5,525.94	13.65	13.92	-92.06	441.83	654.64	471.61	443.64	27.97	16.862		
5,700.00	5,658.30	5,679.35	5,624.60	13.93	14.19	-92.05	448.80	667.27	479.15	450.63	28.52	16.800		
5,800.00	5,757.50	5,779.07	5,723.27	14.20	14.47	-92.04	455.77	679.90	486.69	457.62	29.08	16.739		
5,900.00	5,856.71	5,878.78	5,821.94	14.48	14.76	-92.03	462.75	692.53	494.23	464.60	29.63	16.679		
6,000.00	5,955.92	5,978.50	5,920.60	14.76	15.04	-92.02	469.72	705.17	501.77	471.58	30.19	16.619		
6,100.00	6,055.13	6,078.22	6,019.27	15.04	15.32	-92.01	476.69	717.80	509.31	478.56	30.76	16.560		
6,200.00	6,154.33	6,177.93	6,117.93	15.32	15.61	-92.00	483.67	730.43	516.86	485.53	31.32	16.502		
6,300.00	6,253.54	6,277.65	6,216.60	15.61	15.90	-92.00	490.64	743.06	524.40	492.51	31.89	16.444		
6,400.00	6,352.75	6,377.36	6,315.26	15.89	16.19	-91.99	497.61	755.69	531.94	499.48	32.46	16.388		
6,500.00	6,451.95	6,477.08	6,413.93	16.17	16.47	-92.00	504.59	768.33	539.48	506.45	33.03	16.333		
6,600.00	6,551.74	6,576.83	6,512.90	16.37	16.73	110.14	511.59	778.09	547.38	513.91	33.48	16.351		
6,700.00	6,651.02	6,677.41	6,613.02	16.49	16.89	95.46	518.69	773.34	555.91	522.15	33.76	16.467		
6,800.00	6,747.36	6,778.99	6,712.09	16.57	17.00	93.89	525.75	752.58	564.85	530.91	33.94	16.641		
6,900.00	6,838.38	6,881.56	6,807.51	16.60	17.07	93.14	532.58	715.87	573.98	539.93	34.05	16.857		
7,000.00	6,921.84	6,985.12	6,896.63	16.62	17.10	92.59	538.98	663.73	583.06	548.95	34.12	17.091		
7,100.00	6,995.69	7,089.64	6,976.82	16.65	17.12	92.10	544.78	597.14	591.85	557.65	34.20	17.307		
7,200.00	7,058.11	7,195.03	7,045.59	16.73	17.17	91.64	549.78	517.60	600.11	565.75	34.36	17.464		
7,300.00	7,107.56	7,301.17	7,100.69	16.87	17.30	91.19	553.84	427.11	607.62	572.94	34.68	17.520		
7,400.00	7,142.82	7,407.91	7,140.21	17.11	17.56	90.75	556.81	328.13	614.19	578.98	35.21	17.442		
7,500.00	7,163.02	7,515.07	7,162.75	17.46	17.96	90.32	558.58	223.52	619.64	583.66	35.98	17.224		
7,600.00	7,168.04	7,620.56	7,168.04	17.92	18.49	90.00	559.13	118.25	623.86	586.91	36.95	16.882		
7,700.00	7,168.22	7,720.49	7,168.22	18.52	19.11	90.00	559.31	18.33	627.71	589.55	38.16	16.449		
7,800.00	7,168.40	7,820.41	7,168.40	19.24	19.85	90.00	559.49	-81.60	631.56	591.94	39.62	15.942		
7,900.00	7,168.58	7,920.34	7,168.58	20.08	20.70	90.00	559.67	-181.52	635.41	594.12	41.29	15.388		
8,000.00	7,168.76	8,020.26	7,168.76	21.02	21.64	90.00	559.85	-281.45	639.26	596.09	43.17	14.809		
8,100.00	7,168.94	8,120.19	7,168.94	22.04	22.66	90.00	560.03	-381.38	643.11	597.90	45.21	14.225		
8,200.00	7,169.12	8,220.12	7,169.12	23.14	23.76	90.00	560.21	-481.30	646.95	599.55	47.40	13.648		
8,300.00	7,169.29	8,320.04	7,169.30	24.31	24.92	90.00	560.39	-581.23	650.80	601.08	49.73	13.088		
8,400.00	7,169.47	8,419.97	7,169.48	25.53	26.13	90.00	560.57	-681.15	654.65	602.49	52.16	12.551		
8,500.00	7,169.65	8,519.89	7,169.65	26.80	27.40	90.00	560.75	-781.08	658.50	603.81	54.69	12.041		
8,600.00	7,169.83	8,619.82	7,169.83	28.12	28.70	90.00	560.93	-881.00	662.35	605.05	57.30	11.559		
8,700.00	7,170.01	8,719.75	7,170.01	29.46	30.04	90.00	561.11	-980.93	666.20	606.21	59.99	11.106		
8,800.00	7,170.19	8,819.67	7,170.19	30.84	31.41	90.00	561.29	-1,080.85	670.05	607.31	62.74	10.680		
8,900.00	7,170.37	8,919.60	7,170.37	32.25	32.81	90.00	561.47	-1,180.78	673.89	608.35	65.54	10.282		
9,000.00	7,170.55	9,019.52	7,170.55	33.68	34.23	90.00	561.65	-1,280.71	677.74	609.35	68.39	9.910		
9,100.00	7,170.73	9,119.45	7,170.73	35.13	35.67	90.00	561.83	-1,380.63	681.59	610.30	71.29	9.561		
9,200.00	7,170.91	9,219.38	7,170.91	36.60	37.13	90.00	562.01	-1,480.56	685.44	611.22	74.22	9.235		
9,300.00	7,171.09	9,319.30	7,171.09	38.09	38.61	90.00	562.19	-1,580.48	689.29	612.10	77.18	8.930		
9,400.00	7,171.27	9,419.23	7,171.27	39.59	40.11	90.00	562.37	-1,680.41	693.14	612.96	80.18	8.645		
9,500.00	7,171.45	9,519.15	7,171.44	41.10	41.61	90.00	562.55	-1,780.33	696.98	613.79	83.20	8.377		
9,600.00	7,171.63	9,619.08	7,171.62	42.62	43.13	90.00	562.73	-1,880.26	700.83	614.59	86.24	8.126		
9,700.00	7,171.80	9,719.05	7,171.80	44.17	44.67	90.00	562.90	-1,980.23	702.84	613.52	89.32	7.869		
9,800.00	7,171.98	9,819.05	7,171.98	45.71	46.21	90.00	563.08	-2,080.23	703.23	610.82	92.41	7.610		
9,900.00	7,172.16	9,919.05	7,172.16	47.27	47.76	90.00	563.26	-2,180.23	703.62	608.10	95.52	7.366		
10,000.00	7,172.34	10,019.05	7,172.34	48.83	49.31	90.00	563.44	-2,280.23	704.00	605.36	98.64	7.137		
10,100.00	7,172.52	10,119.05	7,172.52	50.41	50.88	90.00	563.62	-2,380.23	704.39	602.62	101.78	6.921		
10,200.00	7,172.70	10,219.05	7,172.70	51.98	52.45	90.00	563.80	-2,480.23	704.78	599.85	104.93	6.717		
10,300.00	7,172.88	10,319.05	7,172.88	53.57	54.03	90.00	563.98	-2,580.23	705.17	597.08	108.09	6.524		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 Depth (usft)	Vertical Depth (usft)	Measured Depth Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,173.06	10,419.05	7,173.06	55.15	55.61	90.00	564.16	-2,680.23	705.56	594.30	111.26	6.341		
10,500.00	7,173.24	10,519.05	7,173.24	56.75	57.20	90.00	564.34	-2,780.23	705.95	591.50	114.45	6.168		
10,600.00	7,173.42	10,619.05	7,173.41	58.34	58.79	90.00	564.52	-2,880.22	706.34	588.70	117.64	6.004		
10,700.00	7,173.60	10,719.05	7,173.59	59.94	60.39	90.00	564.70	-2,980.22	706.73	585.89	120.84	5.849		
10,800.00	7,173.78	10,819.05	7,173.77	61.55	61.99	90.00	564.88	-3,080.22	707.12	583.07	124.05	5.700		
10,900.00	7,173.95	10,919.05	7,173.95	63.16	63.59	90.00	565.06	-3,180.22	707.51	580.25	127.26	5.560		
11,000.00	7,174.13	11,019.04	7,174.13	64.77	65.20	90.00	565.24	-3,280.22	707.90	577.42	130.48	5.425		
11,100.00	7,174.31	11,119.04	7,174.31	66.38	66.81	90.00	565.42	-3,380.22	708.29	574.58	133.71	5.297		
11,200.00	7,174.49	11,219.04	7,174.49	68.00	68.43	90.00	565.60	-3,480.22	708.68	571.74	136.94	5.175		
11,300.00	7,174.67	11,319.04	7,174.67	69.62	70.04	90.00	565.78	-3,580.22	709.07	568.89	140.18	5.058		
11,400.00	7,174.85	11,419.04	7,174.85	71.24	71.66	90.00	565.96	-3,680.22	709.46	566.04	143.42	4.947		
11,500.00	7,175.03	11,519.04	7,175.03	72.87	73.29	90.00	566.14	-3,780.21	709.85	563.18	146.67	4.840		
11,600.00	7,175.21	11,619.04	7,175.21	74.50	74.91	90.00	566.32	-3,880.21	710.24	560.32	149.92	4.737		
11,700.00	7,175.39	11,719.04	7,175.39	76.12	76.53	90.00	566.50	-3,980.21	710.63	557.45	153.18	4.639		
11,800.00	7,175.57	11,819.04	7,175.56	77.75	78.16	90.00	566.68	-4,080.21	711.01	554.58	156.44	4.545		
11,900.00	7,175.75	11,919.04	7,175.74	79.39	79.79	90.00	566.86	-4,180.21	711.40	551.71	159.70	4.455		
12,000.00	7,175.93	12,019.04	7,175.92	81.02	81.42	90.00	567.04	-4,280.21	711.79	548.83	162.96	4.368		
12,100.00	7,176.11	12,119.04	7,176.10	82.66	83.06	90.00	567.22	-4,380.21	712.18	545.95	166.23	4.284		
12,200.00	7,176.28	12,219.04	7,176.28	84.29	84.69	90.00	567.40	-4,480.21	712.57	543.07	169.50	4.204		
12,300.00	7,176.46	12,319.03	7,176.46	85.93	86.33	90.00	567.58	-4,580.21	712.96	540.18	172.78	4.126		
12,400.00	7,176.64	12,419.03	7,176.64	87.57	87.96	90.00	567.76	-4,680.21	713.35	537.29	176.06	4.052		
12,500.00	7,176.82	12,519.03	7,176.82	89.21	89.60	90.00	567.94	-4,780.20	713.74	534.40	179.34	3.980		
12,600.00	7,177.00	12,619.03	7,177.00	90.85	91.24	90.00	568.12	-4,880.20	714.13	531.51	182.62	3.911		
12,700.00	7,177.18	12,719.03	7,177.18	92.49	92.88	90.00	568.30	-4,980.20	714.52	528.62	185.90	3.844		
12,800.00	7,177.36	12,819.03	7,177.36	94.14	94.53	90.00	568.48	-5,080.20	714.91	525.72	189.19	3.779		
12,900.00	7,177.54	12,919.03	7,177.54	95.78	96.17	90.00	568.66	-5,180.20	715.30	522.82	192.48	3.716		
13,000.00	7,177.72	13,019.03	7,177.71	97.43	97.81	90.00	568.84	-5,280.20	715.69	519.92	195.77	3.656		
13,100.00	7,177.90	13,119.03	7,177.89	99.07	99.46	90.00	569.02	-5,380.20	716.08	517.02	199.06	3.597		
13,200.00	7,178.08	13,219.03	7,178.07	100.72	101.10	90.00	569.20	-5,480.20	716.47	514.11	202.35	3.541		
13,300.00	7,178.26	13,319.03	7,178.25	102.37	102.75	90.00	569.38	-5,580.20	716.86	511.21	205.65	3.486		
13,400.00	7,178.43	13,419.03	7,178.43	104.02	104.40	90.00	569.56	-5,680.19	717.25	508.30	208.94	3.433		
13,500.00	7,178.61	13,519.03	7,178.61	105.67	106.04	90.00	569.74	-5,780.19	717.64	505.39	212.24	3.381		
13,600.00	7,178.79	13,619.02	7,178.79	107.32	107.69	90.00	569.92	-5,880.19	718.02	502.48	215.54	3.331		
13,700.00	7,178.97	13,719.02	7,178.97	108.97	109.34	90.00	570.10	-5,980.19	718.41	499.57	218.84	3.283		
13,800.00	7,179.15	13,819.02	7,179.15	110.62	110.99	90.00	570.28	-6,080.19	718.80	496.66	222.15	3.236		
13,900.00	7,179.33	13,919.02	7,179.33	112.27	112.64	90.00	570.46	-6,180.19	719.19	493.74	225.45	3.190		
14,000.00	7,179.51	14,019.02	7,179.51	113.92	114.30	90.00	570.64	-6,280.19	719.58	490.83	228.75	3.146		
14,100.00	7,179.69	14,119.02	7,179.68	115.58	115.95	90.00	570.82	-6,380.19	719.97	487.91	232.06	3.103		
14,200.00	7,179.87	14,219.02	7,179.86	117.23	117.60	90.00	570.99	-6,480.19	720.36	485.00	235.37	3.061		
14,300.00	7,180.05	14,319.02	7,180.04	118.88	119.25	90.00	571.17	-6,580.18	720.75	482.08	238.67	3.020		
14,400.00	7,180.23	14,419.02	7,180.22	120.54	120.91	90.00	571.35	-6,680.18	721.14	479.16	241.98	2.980		
14,500.00	7,180.41	14,519.02	7,180.40	122.19	122.56	90.00	571.53	-6,780.18	721.53	476.24	245.29	2.942		
14,600.00	7,180.58	14,619.02	7,180.58	123.85	124.22	90.00	571.71	-6,880.18	721.92	473.32	248.60	2.904		
14,700.00	7,180.76	14,719.02	7,180.76	125.50	125.87	90.00	571.89	-6,980.18	722.31	470.39	251.91	2.867		
14,800.00	7,180.94	14,819.02	7,180.94	127.16	127.53	90.00	572.07	-7,080.18	722.70	467.47	255.23	2.832		
14,900.00	7,181.12	14,919.01	7,181.12	128.82	129.18	90.00	572.25	-7,180.18	723.09	464.55	258.54	2.797		
15,000.00	7,181.30	15,019.01	7,181.30	130.47	130.84	90.00	572.43	-7,280.18	723.48	461.62	261.85	2.763		
15,100.00	7,181.48	15,119.01	7,181.48	132.13	132.50	90.00	572.61	-7,380.18	723.87	458.70	265.17	2.730		
15,200.00	7,181.66	15,219.01	7,181.66	133.79	134.15	90.00	572.79	-7,480.17	724.26	455.77	268.48	2.698		
15,300.00	7,181.84	15,319.01	7,181.83	135.45	135.81	90.00	572.97	-7,580.17	724.65	452.85	271.80	2.666		
15,389.78	7,182.00	15,408.80	7,182.00	136.94	137.30	90.00	573.13	-7,669.96	725.00	450.22	274.78	2.638 SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	179.60	-80.15	0.56	80.15					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-80.15	0.56	80.15	72.62	7.53	10.646		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-80.15	0.56	80.15	72.58	7.57	10.583	CC, ES	
300.00	299.98	298.23	298.21	3.35	3.35	87.38	-81.22	1.86	81.16	73.50	7.66	10.602		
400.00	399.84	396.40	396.24	3.41	3.41	88.16	-84.41	5.76	84.19	76.42	7.77	10.832		
500.00	499.45	494.43	493.91	3.50	3.49	89.33	-89.72	12.25	89.28	81.34	7.94	11.246		
600.00	598.74	592.26	591.03	3.62	3.60	90.66	-97.13	21.31	96.44	88.28	8.16	11.819		
700.00	697.94	709.57	688.06	3.76	3.78	90.79	-106.58	32.86	105.55	97.08	8.47	12.464		
800.00	797.15	789.96	786.30	3.93	3.93	90.55	-116.71	45.22	115.16	106.39	8.77	13.126		
900.00	896.36	889.50	884.55	4.12	4.14	90.35	-126.83	57.59	124.78	115.63	9.15	13.633		
1,000.00	995.56	989.04	982.79	4.33	4.37	90.17	-136.95	69.96	134.40	124.83	9.57	14.045		
1,100.00	1,094.77	1,088.57	1,081.04	4.56	4.63	90.02	-147.08	82.33	144.01	133.99	10.02	14.375		
1,200.00	1,193.98	1,188.11	1,179.28	4.79	4.89	89.89	-157.20	94.69	153.63	143.14	10.50	14.638		
1,300.00	1,293.19	1,287.64	1,277.52	5.04	5.18	89.77	-167.32	107.06	163.25	152.26	11.00	14.846		
1,400.00	1,392.39	1,387.18	1,375.77	5.30	5.47	89.67	-177.45	119.43	172.87	161.35	11.52	15.010		
1,500.00	1,491.60	1,486.71	1,474.01	5.56	5.77	89.58	-187.57	131.80	182.49	170.44	12.06	15.137		
1,600.00	1,590.81	1,586.25	1,572.26	5.84	6.09	89.49	-197.69	144.17	192.11	179.50	12.61	15.235		
1,700.00	1,690.01	1,685.79	1,670.50	6.12	6.40	89.42	-207.81	156.53	201.74	188.56	13.18	15.310		
1,800.00	1,789.22	1,785.32	1,768.75	6.40	6.73	89.35	-217.94	168.90	211.36	197.60	13.75	15.366		
1,900.00	1,888.43	1,884.86	1,866.99	6.55	6.93	89.29	-228.06	181.27	220.98	207.27	13.71	16.123		
2,000.00	1,987.64	1,984.39	1,965.23	6.58	6.99	89.23	-238.18	193.64	230.60	216.82	13.78	16.730		
2,100.00	2,086.84	2,083.93	2,063.48	6.63	7.04	89.18	-248.31	206.01	240.22	226.36	13.87	17.322		
2,200.00	2,186.05	2,183.46	2,161.72	6.68	7.11	89.13	-258.43	218.37	249.85	235.86	13.98	17.868		
2,300.00	2,285.26	2,283.00	2,259.97	6.75	7.19	89.08	-268.55	230.74	259.47	245.34	14.13	18.368		
2,400.00	2,384.46	2,382.54	2,358.21	6.84	7.28	89.04	-278.68	243.11	269.09	254.80	14.30	18.822		
2,500.00	2,483.67	2,482.07	2,456.45	6.94	7.39	89.00	-288.80	255.48	278.72	264.22	14.49	19.230		
2,600.00	2,582.88	2,581.61	2,554.70	7.05	7.52	88.97	-298.92	267.84	288.34	273.62	14.72	19.593		
2,700.00	2,682.09	2,681.14	2,652.94	7.17	7.66	88.93	-309.04	280.21	297.96	283.00	14.96	19.913		
2,800.00	2,781.29	2,780.68	2,751.19	7.30	7.81	88.90	-319.17	292.58	307.59	292.35	15.23	20.192		
2,900.00	2,880.50	2,880.21	2,849.43	7.45	7.97	88.87	-329.29	304.95	317.21	301.68	15.53	20.432		
3,000.00	2,979.71	2,979.75	2,947.68	7.60	8.14	88.84	-339.41	317.32	326.83	311.00	15.84	20.636		
3,100.00	3,078.91	3,079.29	3,045.92	7.76	8.32	88.81	-349.54	329.68	336.46	320.29	16.17	20.808		
3,200.00	3,178.12	3,178.82	3,144.16	7.94	8.52	88.79	-359.66	342.05	346.08	329.56	16.52	20.950		
3,300.00	3,277.33	3,278.36	3,242.41	8.12	8.72	88.77	-369.78	354.42	355.70	338.82	16.89	21.065		
3,400.00	3,376.53	3,377.89	3,340.65	8.31	8.93	88.74	-379.91	366.79	365.33	348.06	17.27	21.155		
3,500.00	3,475.74	3,477.43	3,438.90	8.50	9.14	88.72	-390.03	379.16	374.95	357.29	17.67	21.224		
3,600.00	3,574.95	3,576.96	3,537.14	8.70	9.37	88.70	-400.15	391.52	384.58	366.50	18.08	21.274		
3,700.00	3,674.16	3,676.50	3,635.39	8.91	9.60	88.68	-410.27	403.89	394.20	375.70	18.50	21.306		
3,800.00	3,773.36	3,776.04	3,733.63	9.13	9.84	88.66	-420.40	416.26	403.82	384.89	18.94	21.324		
3,900.00	3,872.57	3,875.57	3,831.87	9.35	10.08	88.65	-430.52	428.63	413.45	394.06	19.38	21.329		
4,000.00	3,971.78	3,975.11	3,930.12	9.57	10.33	88.63	-440.64	441.00	423.07	403.23	19.84	21.322		
4,100.00	4,070.98	4,074.64	4,028.36	9.80	10.58	88.61	-450.77	453.36	432.70	412.39	20.31	21.306		
4,200.00	4,170.19	4,174.18	4,126.61	10.04	10.84	88.60	-460.89	465.73	442.32	421.54	20.78	21.281		
4,300.00	4,269.40	4,273.71	4,224.85	10.28	11.10	88.58	-471.01	478.10	451.94	430.68	21.27	21.249		
4,400.00	4,368.61	4,373.25	4,323.09	10.52	11.37	88.57	-481.14	490.47	461.57	439.81	21.76	21.211		
4,500.00	4,467.81	4,472.79	4,421.34	10.77	11.64	88.56	-491.26	502.83	471.19	448.93	22.26	21.168		
4,600.00	4,567.02	4,572.32	4,519.58	11.02	11.91	88.54	-501.38	515.20	480.82	458.05	22.77	21.120		
4,700.00	4,666.23	4,671.86	4,617.83	11.27	12.19	88.53	-511.50	527.57	490.44	467.16	23.28	21.069		
4,800.00	4,765.43	4,771.39	4,716.07	11.52	12.47	88.52	-521.63	539.94	500.07	476.27	23.80	21.015		
4,900.00	4,864.64	4,870.93	4,814.32	11.78	12.75	88.51	-531.75	552.31	509.69	485.37	24.32	20.958		
5,000.00	4,963.85	4,970.46	4,912.56	12.04	13.04	88.50	-541.87	564.67	519.32	494.47	24.85	20.899		
5,100.00	5,063.06	5,070.00	5,010.80	12.31	13.33	88.49	-552.00	577.04	528.94	503.56	25.38	20.839		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,169.54	5,109.05	12.57	13.62	88.48	-562.12	589.41	538.56	512.64	25.92	20.778		
5,300.00	5,261.47	5,269.07	5,207.29	12.84	13.91	88.47	-572.24	601.78	548.19	521.73	26.46	20.716		
5,400.00	5,360.68	5,368.61	5,305.54	13.11	14.20	88.46	-582.37	614.15	557.81	530.80	27.01	20.653		
5,500.00	5,459.88	5,468.14	5,403.78	13.38	14.50	88.45	-592.49	626.51	567.44	539.88	27.56	20.590		
5,600.00	5,559.09	5,567.68	5,502.02	13.65	14.80	88.44	-602.61	638.88	577.06	548.95	28.11	20.527		
5,700.00	5,658.30	5,667.21	5,600.27	13.93	15.10	88.43	-612.73	651.25	586.69	558.02	28.67	20.464		
5,800.00	5,757.50	5,766.75	5,698.51	14.20	15.40	88.42	-622.86	663.62	596.31	567.08	29.23	20.402		
5,900.00	5,856.71	5,866.29	5,796.76	14.48	15.70	88.41	-632.98	675.99	605.94	576.14	29.79	20.339		
6,000.00	5,955.92	5,965.82	5,895.00	14.76	16.01	88.41	-643.10	688.35	615.56	585.20	30.36	20.277		
6,100.00	6,055.13	6,065.36	5,993.25	15.04	16.32	88.40	-653.23	700.72	625.19	594.26	30.93	20.216		
6,200.00	6,154.33	6,164.89	6,091.49	15.32	16.62	88.39	-663.35	713.09	634.81	603.31	31.50	20.155		
6,300.00	6,253.54	6,264.43	6,189.73	15.61	16.93	88.38	-673.47	725.46	644.43	612.37	32.07	20.095		
6,400.00	6,352.75	6,363.96	6,287.98	15.89	17.24	88.38	-683.60	737.82	654.06	621.41	32.64	20.036		
6,500.00	6,451.95	6,463.50	6,386.22	16.17	17.55	88.36	-693.72	750.19	663.68	630.46	33.22	19.978		
6,600.00	6,551.74	6,562.27	6,483.78	16.37	17.84	-69.12	-703.77	761.84	672.91	639.24	33.67	19.987		
6,700.00	6,651.02	6,660.74	6,581.63	16.49	18.01	-83.85	-713.81	762.12	681.55	647.62	33.93	20.089		
6,800.00	6,747.36	6,761.05	6,680.16	16.57	18.14	-85.47	-723.86	746.81	689.49	655.40	34.08	20.231		
6,900.00	6,838.38	6,863.32	6,776.87	16.60	18.22	-86.29	-733.68	715.41	696.53	662.37	34.15	20.394		
7,000.00	6,921.84	6,967.58	6,869.04	16.62	18.26	-86.91	-742.97	667.82	702.47	668.29	34.18	20.552		
7,100.00	6,995.69	7,073.82	6,953.74	16.65	18.27	-87.47	-751.44	604.45	707.14	672.92	34.22	20.667		
7,200.00	7,058.11	7,181.93	7,027.95	16.73	18.26	-88.02	-758.78	526.37	710.37	676.04	34.33	20.690		
7,300.00	7,107.56	7,291.68	7,088.78	16.87	18.24	-88.56	-764.71	435.37	712.04	677.43	34.61	20.571		
7,400.00	7,142.82	7,402.79	7,133.62	17.11	18.23	-89.09	-768.95	333.95	712.05	676.93	35.12	20.275		
7,500.00	7,163.02	7,514.86	7,160.41	17.46	18.30	-89.60	-771.32	225.30	710.36	674.47	35.89	19.794		
7,600.00	7,168.04	7,625.76	7,168.02	17.92	18.54	-89.99	-771.72	114.79	707.00	670.11	36.89	19.167		
7,700.00	7,168.22	7,725.68	7,168.19	18.52	19.01	-89.99	-771.39	14.87	703.00	664.92	38.07	18.464		
7,800.00	7,168.40	7,825.60	7,168.35	19.24	19.69	-89.99	-771.06	-85.05	699.00	659.49	39.51	17.694		
7,900.00	7,168.58	7,925.52	7,168.52	20.08	20.50	-89.99	-770.73	-184.97	695.00	653.84	41.16	16.884		
8,000.00	7,168.76	8,025.44	7,168.68	21.02	21.43	-89.99	-770.40	-284.88	691.00	647.98	43.02	16.063		
8,100.00	7,168.94	8,125.36	7,168.85	22.04	22.45	-89.99	-770.07	-384.80	687.00	641.95	45.05	15.251		
8,200.00	7,169.12	8,225.28	7,169.02	23.14	23.54	-89.99	-769.74	-484.72	683.00	635.77	47.22	14.463		
8,300.00	7,169.29	8,325.20	7,169.18	24.31	24.70	-89.99	-769.41	-584.64	679.00	629.47	49.53	13.708		
8,400.00	7,169.47	8,425.12	7,169.35	25.53	25.91	-89.99	-769.08	-684.56	675.00	623.04	51.96	12.992		
8,500.00	7,169.65	8,525.04	7,169.52	26.80	27.17	-89.98	-768.75	-784.48	671.00	616.52	54.48	12.317		
8,600.00	7,169.83	8,624.96	7,169.68	28.12	28.47	-89.98	-768.42	-884.40	667.00	609.92	57.08	11.685		
8,700.00	7,170.01	8,724.88	7,169.85	29.46	29.81	-89.98	-768.09	-984.32	663.00	603.24	59.76	11.094		
8,800.00	7,170.19	8,824.80	7,170.02	30.84	31.18	-89.98	-767.76	-1,084.24	659.00	596.50	62.50	10.543		
8,900.00	7,170.37	8,924.72	7,170.18	32.25	32.58	-89.98	-767.43	-1,184.16	655.00	589.70	65.30	10.030		
9,000.00	7,170.55	9,024.64	7,170.35	33.68	34.00	-89.98	-767.09	-1,284.08	651.00	582.86	68.15	9.553		
9,100.00	7,170.73	9,124.56	7,170.52	35.13	35.44	-89.98	-766.76	-1,384.00	647.01	575.97	71.04	9.108		
9,200.00	7,170.91	9,224.48	7,170.68	36.60	36.90	-89.98	-766.43	-1,483.92	643.01	569.04	73.97	8.693		
9,300.00	7,171.09	9,324.40	7,170.85	38.09	38.38	-89.97	-766.10	-1,583.84	639.01	562.08	76.93	8.306		
9,400.00	7,171.27	9,424.32	7,171.02	39.59	39.87	-89.97	-765.77	-1,683.76	635.01	555.09	79.92	7.945		
9,500.00	7,171.45	9,524.24	7,171.18	41.10	41.38	-89.97	-765.44	-1,783.67	631.01	548.07	82.94	7.608		
9,600.00	7,171.63	9,624.16	7,171.35	42.62	42.90	-89.97	-765.11	-1,883.59	627.01	541.03	85.98	7.292		
9,700.00	7,171.80	9,724.14	7,171.52	44.17	44.43	-89.97	-764.78	-1,983.56	624.85	535.80	89.05	7.017		
9,800.00	7,171.98	9,824.13	7,171.68	45.71	45.97	-89.97	-764.45	-2,083.56	624.31	532.17	92.14	6.776		
9,900.00	7,172.16	9,924.13	7,171.85	47.27	47.51	-89.97	-764.12	-2,183.56	623.77	528.53	95.25	6.549		
10,000.00	7,172.34	10,024.13	7,172.02	48.83	49.07	-89.97	-763.79	-2,283.56	623.23	524.86	98.37	6.336		
10,100.00	7,172.52	10,124.13	7,172.18	50.41	50.64	-89.97	-763.46	-2,383.56	622.69	521.19	101.51	6.135		
10,200.00	7,172.70	10,224.13	7,172.35	51.98	52.21	-89.97	-763.13	-2,483.55	622.15	517.50	104.66	5.945		
10,300.00	7,172.88	10,324.13	7,172.52	53.57	53.78	-89.97	-762.80	-2,583.55	621.61	513.80	107.82	5.765		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	7,173.06	10,424.13	7,172.68	55.15	55.36	-89.96	-762.47	-2,683.55	621.07	510.08	110.99	5.596		
10,500.00	7,173.24	10,524.12	7,172.85	56.75	56.95	-89.96	-762.14	-2,783.55	620.53	506.36	114.17	5.435		
10,600.00	7,173.42	10,624.12	7,173.02	58.34	58.54	-89.96	-761.80	-2,883.55	619.99	502.63	117.36	5.283		
10,700.00	7,173.60	10,724.12	7,173.19	59.94	60.14	-89.96	-761.47	-2,983.54	619.45	498.89	120.56	5.138		
10,800.00	7,173.78	10,824.12	7,173.35	61.55	61.74	-89.96	-761.14	-3,083.54	618.91	495.14	123.77	5.001		
10,900.00	7,173.95	10,924.12	7,173.52	63.16	63.34	-89.96	-760.81	-3,183.54	618.37	491.39	126.98	4.870		
11,000.00	7,174.13	11,024.12	7,173.69	64.77	64.95	-89.96	-760.48	-3,283.54	617.83	487.63	130.20	4.745		
11,100.00	7,174.31	11,124.12	7,173.85	66.38	66.56	-89.96	-760.15	-3,383.53	617.29	483.86	133.43	4.626		
11,200.00	7,174.49	11,224.11	7,174.02	68.00	68.17	-89.96	-759.82	-3,483.53	616.75	480.09	136.66	4.513		
11,300.00	7,174.67	11,324.11	7,174.19	69.62	69.79	-89.95	-759.49	-3,583.53	616.21	476.31	139.90	4.405		
11,400.00	7,174.85	11,424.11	7,174.35	71.24	71.41	-89.95	-759.16	-3,683.53	615.67	472.53	143.14	4.301		
11,500.00	7,175.03	11,524.11	7,174.52	72.87	73.03	-89.95	-758.83	-3,783.53	615.13	468.74	146.39	4.202		
11,600.00	7,175.21	11,624.11	7,174.69	74.50	74.65	-89.95	-758.50	-3,883.52	614.59	464.95	149.64	4.107		
11,700.00	7,175.39	11,724.11	7,174.85	76.12	76.28	-89.95	-758.17	-3,983.52	614.05	461.16	152.89	4.016		
11,800.00	7,175.57	11,824.11	7,175.02	77.75	77.91	-89.95	-757.84	-4,083.52	613.51	457.36	156.15	3.929		
11,900.00	7,175.75	11,924.10	7,175.19	79.39	79.54	-89.95	-757.51	-4,183.52	612.97	453.55	159.41	3.845		
12,000.00	7,175.93	12,024.10	7,175.35	81.02	81.17	-89.95	-757.17	-4,283.52	612.43	449.75	162.68	3.765		
12,100.00	7,176.11	12,124.10	7,175.52	82.66	82.80	-89.94	-756.84	-4,383.51	611.89	445.94	165.95	3.687		
12,200.00	7,176.28	12,224.10	7,175.69	84.29	84.43	-89.94	-756.51	-4,483.51	611.34	442.13	169.22	3.613		
12,300.00	7,176.46	12,324.10	7,175.85	85.93	86.07	-89.94	-756.18	-4,583.51	610.80	438.31	172.49	3.541		
12,400.00	7,176.64	12,424.10	7,176.02	87.57	87.70	-89.94	-755.85	-4,683.51	610.26	434.49	175.77	3.472		
12,500.00	7,176.82	12,524.10	7,176.19	89.21	89.34	-89.94	-755.52	-4,783.50	609.72	430.67	179.05	3.405		
12,600.00	7,177.00	12,624.09	7,176.35	90.85	90.98	-89.94	-755.19	-4,883.50	609.18	426.85	182.33	3.341		
12,700.00	7,177.18	12,724.09	7,176.52	92.49	92.62	-89.94	-754.86	-4,983.50	608.64	423.03	185.62	3.279		
12,800.00	7,177.36	12,824.09	7,176.69	94.14	94.26	-89.94	-754.53	-5,083.50	608.10	419.20	188.90	3.219		
12,900.00	7,177.54	12,924.09	7,176.85	95.78	95.91	-89.93	-754.20	-5,183.50	607.56	415.37	192.19	3.161		
13,000.00	7,177.72	13,024.09	7,177.02	97.43	97.55	-89.93	-753.87	-5,283.49	607.02	411.54	195.48	3.105		
13,100.00	7,177.90	13,124.09	7,177.19	99.07	99.19	-89.93	-753.54	-5,383.49	606.48	407.71	198.77	3.051		
13,200.00	7,178.08	13,224.09	7,177.35	100.72	100.84	-89.93	-753.21	-5,483.49	605.94	403.88	202.06	2.999		
13,300.00	7,178.26	13,324.08	7,177.52	102.37	102.49	-89.93	-752.88	-5,583.49	605.40	400.04	205.36	2.948		
13,400.00	7,178.43	13,424.08	7,177.69	104.02	104.13	-89.93	-752.54	-5,683.49	604.86	396.20	208.66	2.899		
13,500.00	7,178.61	13,524.08	7,177.85	105.67	105.78	-89.93	-752.21	-5,783.48	604.32	392.37	211.95	2.851		
13,600.00	7,178.79	13,624.08	7,178.02	107.32	107.43	-89.93	-751.88	-5,883.48	603.78	388.53	215.25	2.805		
13,700.00	7,178.97	13,724.08	7,178.19	108.97	109.08	-89.92	-751.55	-5,983.48	603.24	384.68	218.55	2.760		
13,800.00	7,179.15	13,824.08	7,178.35	110.62	110.73	-89.92	-751.22	-6,083.48	602.70	380.84	221.86	2.717		
13,900.00	7,179.33	13,924.08	7,178.52	112.27	112.38	-89.92	-750.89	-6,183.47	602.16	377.00	225.16	2.674		
14,000.00	7,179.51	14,024.07	7,178.69	113.92	114.03	-89.92	-750.56	-6,283.47	601.62	373.15	228.46	2.633		
14,100.00	7,179.69	14,124.07	7,178.85	115.58	115.68	-89.92	-750.23	-6,383.47	601.08	369.31	231.77	2.593		
14,200.00	7,179.87	14,224.07	7,179.02	117.23	117.34	-89.92	-749.90	-6,483.47	600.54	365.46	235.08	2.555		
14,300.00	7,180.05	14,324.07	7,179.19	118.88	118.99	-89.92	-749.57	-6,583.47	600.00	361.61	238.39	2.517		
14,400.00	7,180.23	14,424.07	7,179.35	120.54	120.64	-89.92	-749.24	-6,683.46	599.46	357.76	241.69	2.480		
14,500.00	7,180.41	14,524.07	7,179.52	122.19	122.30	-89.91	-748.91	-6,783.46	598.92	353.91	245.00	2.445		
14,600.00	7,180.58	14,624.06	7,179.69	123.85	123.95	-89.91	-748.58	-6,883.46	598.38	350.06	248.31	2.410		
14,700.00	7,180.76	14,724.06	7,179.86	125.50	125.61	-89.91	-748.25	-6,983.46	597.84	346.21	251.63	2.376		
14,800.00	7,180.94	14,824.06	7,180.02	127.16	127.26	-89.91	-747.91	-7,083.46	597.29	342.36	254.94	2.343		
14,900.00	7,181.12	14,924.06	7,180.19	128.82	128.92	-89.91	-747.58	-7,183.45	596.75	338.50	258.25	2.311		
15,000.00	7,181.30	15,024.06	7,180.36	130.47	130.57	-89.91	-747.25	-7,283.45	596.21	334.65	261.56	2.279		
15,100.00	7,181.48	15,124.06	7,180.52	132.13	132.23	-89.91	-746.92	-7,383.45	595.67	330.79	264.88	2.249		
15,200.00	7,181.66	15,224.06	7,180.69	133.79	133.89	-89.91	-746.59	-7,483.45	595.13	326.94	268.19	2.219		
15,300.00	7,181.84	15,324.05	7,180.86	135.45	135.54	-89.90	-746.26	-7,583.44	594.59	323.08	271.51	2.190		
15,389.78	7,182.00	15,410.68	7,181.00	136.94	136.98	-89.90	-745.97	-7,670.07	594.12	319.65	274.46	2.165 SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	179.47	-60.11	0.56	60.12					
100.00	100.00	100.00	100.00	3.28	3.28	179.47	-60.11	0.56	60.12	52.59	7.53	7.985		
200.00	200.00	200.00	200.00	3.31	3.31	179.47	-60.11	0.56	60.12	52.54	7.57	7.937	CC, ES	
300.00	299.98	298.95	298.93	3.35	3.35	87.19	-60.96	2.04	60.89	53.23	7.66	7.953		
400.00	399.84	397.86	397.71	3.41	3.41	87.80	-63.49	6.50	63.22	55.44	7.78	8.130		
500.00	499.45	496.70	496.17	3.50	3.49	88.73	-67.70	13.90	67.11	59.17	7.95	8.446		
600.00	598.74	595.43	594.17	3.62	3.61	89.69	-73.57	24.25	72.59	64.41	8.17	8.880		
700.00	697.94	704.91	692.83	3.76	3.77	89.68	-80.53	36.50	79.03	70.55	8.48	9.323		
800.00	797.15	805.12	791.62	3.93	3.95	89.67	-87.51	48.78	85.48	76.66	8.82	9.696		
900.00	896.36	905.33	890.40	4.12	4.15	89.65	-94.49	61.07	91.93	82.73	9.20	9.996		
1,000.00	995.56	1,005.54	989.19	4.33	4.38	89.64	-101.47	73.36	98.38	88.76	9.61	10.233		
1,100.00	1,094.77	1,105.75	1,087.98	4.56	4.62	89.62	-108.45	85.64	104.83	94.77	10.06	10.417		
1,200.00	1,193.98	1,205.95	1,186.76	4.79	4.87	89.61	-115.43	97.93	111.28	100.74	10.54	10.558		
1,300.00	1,293.19	1,306.16	1,285.55	5.04	5.14	89.60	-122.41	110.21	117.73	106.69	11.04	10.665		
1,400.00	1,392.39	1,393.63	1,384.34	5.30	5.38	89.59	-129.38	122.50	124.18	112.66	11.52	10.776		
1,500.00	1,491.60	1,506.58	1,483.12	5.56	5.70	89.59	-136.36	134.78	130.63	118.54	12.09	10.801		
1,600.00	1,590.81	1,606.79	1,581.91	5.84	6.00	89.58	-143.34	147.07	137.08	124.44	12.65	10.840		
1,700.00	1,690.01	1,707.00	1,680.69	6.12	6.30	89.57	-150.32	159.36	143.53	130.32	13.21	10.866		
1,800.00	1,789.22	1,792.80	1,779.48	6.40	6.56	89.57	-157.30	171.64	149.98	136.24	13.74	10.914		
1,900.00	1,888.43	1,892.59	1,878.27	6.55	6.73	89.56	-164.28	183.93	156.43	142.75	13.68	11.435		
2,000.00	1,987.64	2,007.62	1,977.05	6.58	6.78	89.56	-171.26	196.21	162.88	149.13	13.75	11.844		
2,100.00	2,086.84	2,107.83	2,075.84	6.63	6.83	89.55	-178.24	208.50	169.33	155.49	13.84	12.234		
2,200.00	2,186.05	2,208.04	2,174.63	6.68	6.90	89.55	-185.22	220.78	175.78	161.83	13.96	12.594		
2,300.00	2,285.26	2,291.75	2,273.41	6.75	6.96	89.54	-192.20	233.07	182.23	168.14	14.09	12.933		
2,400.00	2,384.46	2,408.45	2,372.20	6.84	7.07	89.54	-199.18	245.36	188.68	174.41	14.28	13.217		
2,500.00	2,483.67	2,508.66	2,470.99	6.94	7.18	89.54	-206.16	257.64	195.14	180.66	14.47	13.481		
2,600.00	2,582.88	2,591.13	2,569.77	7.05	7.27	89.53	-213.14	269.93	201.59	186.91	14.68	13.734		
2,700.00	2,682.09	2,709.08	2,668.56	7.17	7.43	89.53	-220.12	282.21	208.04	193.09	14.95	13.919		
2,800.00	2,781.29	2,809.29	2,767.34	7.30	7.57	89.53	-227.09	294.50	214.49	199.27	15.22	14.095		
2,900.00	2,880.50	2,890.50	2,866.13	7.45	7.70	89.52	-234.07	306.78	220.94	205.46	15.48	14.273		
3,000.00	2,979.71	3,009.70	2,964.92	7.60	7.89	89.52	-241.05	319.07	227.39	211.57	15.82	14.373		
3,100.00	3,078.91	3,109.91	3,063.70	7.76	8.07	89.52	-248.03	331.36	233.84	217.69	16.15	14.477		
3,200.00	3,178.12	3,189.88	3,162.49	7.94	8.22	89.52	-255.01	343.64	240.29	223.82	16.46	14.594		
3,300.00	3,277.33	3,289.67	3,261.28	8.12	8.41	89.52	-261.99	355.93	246.74	229.91	16.83	14.663		
3,400.00	3,376.53	3,389.46	3,360.06	8.31	8.61	89.51	-268.97	368.21	253.19	235.98	17.21	14.715		
3,500.00	3,475.74	3,489.26	3,458.85	8.50	8.81	89.51	-275.95	380.50	259.64	242.04	17.60	14.752		
3,600.00	3,574.95	3,589.05	3,557.64	8.70	9.03	89.51	-282.93	392.78	266.09	248.08	18.01	14.777		
3,700.00	3,674.16	3,688.84	3,656.42	8.91	9.25	89.51	-289.91	405.07	272.54	254.11	18.43	14.790		
3,800.00	3,773.36	3,788.63	3,755.21	9.13	9.47	89.51	-296.89	417.36	278.99	260.13	18.86	14.794		
3,900.00	3,872.57	3,888.42	3,853.99	9.35	9.70	89.50	-303.87	429.64	285.44	266.14	19.30	14.789		
4,000.00	3,971.78	3,988.21	3,952.78	9.57	9.94	89.50	-310.85	441.93	291.89	272.14	19.75	14.776		
4,100.00	4,070.98	4,088.01	4,051.57	9.80	10.18	89.50	-317.83	454.21	298.34	278.13	20.22	14.758		
4,200.00	4,170.19	4,187.80	4,150.35	10.04	10.43	89.50	-324.80	466.50	304.79	284.11	20.69	14.733		
4,300.00	4,269.40	4,287.59	4,249.14	10.28	10.68	89.50	-331.78	478.78	311.24	290.08	21.17	14.704		
4,400.00	4,368.61	4,387.38	4,347.93	10.52	10.93	89.50	-338.76	491.07	317.69	296.04	21.65	14.672		
4,500.00	4,467.81	4,487.17	4,446.71	10.77	11.19	89.50	-345.74	503.36	324.14	302.00	22.15	14.635		
4,600.00	4,567.02	4,586.96	4,545.50	11.02	11.45	89.50	-352.72	515.64	330.60	307.95	22.65	14.597		
4,700.00	4,666.23	4,686.76	4,644.29	11.27	11.72	89.49	-359.70	527.93	337.05	313.89	23.16	14.555		
4,800.00	4,765.43	4,786.55	4,743.07	11.52	11.99	89.49	-366.68	540.21	343.50	319.83	23.67	14.512		
4,900.00	4,864.64	4,886.34	4,841.86	11.78	12.26	89.49	-373.66	552.50	349.95	325.76	24.19	14.468		
5,000.00	4,963.85	4,986.13	4,940.64	12.04	12.53	89.49	-380.64	564.78	356.40	331.69	24.71	14.423		
5,100.00	5,063.06	5,085.92	5,039.43	12.31	12.81	89.49	-387.62	577.07	362.85	337.61	25.24	14.376		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,185.71	5,138.22	12.57	13.08	89.49	-394.60	589.36	369.30	343.53	25.77	14.329		
5,300.00	5,261.47	5,285.51	5,237.00	12.84	13.36	89.49	-401.58	601.64	375.75	349.44	26.31	14.282		
5,400.00	5,360.68	5,385.30	5,335.79	13.11	13.65	89.49	-408.56	613.93	382.20	355.35	26.85	14.234		
5,500.00	5,459.88	5,485.09	5,434.58	13.38	13.93	89.49	-415.54	626.21	388.65	361.25	27.40	14.187		
5,600.00	5,559.09	5,584.88	5,533.36	13.65	14.22	89.49	-422.51	638.50	395.10	367.16	27.94	14.139		
5,700.00	5,658.30	5,684.67	5,632.15	13.93	14.50	89.49	-429.49	650.79	401.55	373.06	28.49	14.092		
5,800.00	5,757.50	5,784.47	5,730.93	14.20	14.79	89.48	-436.47	663.07	408.00	378.95	29.05	14.045		
5,900.00	5,856.71	5,884.26	5,829.72	14.48	15.08	89.48	-443.45	675.36	414.45	384.84	29.61	13.999		
6,000.00	5,955.92	5,984.05	5,928.51	14.76	15.38	89.48	-450.43	687.64	420.90	390.74	30.17	13.952		
6,100.00	6,055.13	6,083.84	6,027.29	15.04	15.67	89.48	-457.41	699.93	427.35	396.62	30.73	13.907		
6,200.00	6,154.33	6,183.63	6,126.08	15.32	15.96	89.48	-464.39	712.21	433.80	402.51	31.29	13.862		
6,300.00	6,253.54	6,283.42	6,224.87	15.61	16.26	89.48	-471.37	724.50	440.25	408.39	31.86	13.817		
6,400.00	6,352.75	6,383.22	6,323.65	15.89	16.56	89.48	-478.35	736.79	446.70	414.27	32.43	13.773		
6,500.00	6,451.95	6,483.01	6,422.44	16.17	16.85	89.46	-485.33	749.07	453.15	420.15	33.00	13.730		
6,600.00	6,551.74	6,582.42	6,520.85	16.37	17.15	-68.67	-492.28	761.31	459.08	425.63	33.46	13.722		
6,700.00	6,651.02	6,680.57	6,618.49	16.49	17.35	-84.81	-499.17	767.16	464.53	430.83	33.70	13.785		
6,800.00	6,747.36	6,781.28	6,718.39	16.57	17.48	-87.81	-506.18	757.54	469.83	436.00	33.83	13.887		
6,900.00	6,838.38	6,884.92	6,818.28	16.60	17.57	-89.94	-513.17	731.29	474.82	440.94	33.88	14.014		
7,000.00	6,921.84	6,991.62	6,915.30	16.62	17.62	-91.79	-519.92	687.69	479.31	445.43	33.88	14.149		
7,100.00	6,995.69	7,101.42	7,006.11	16.65	17.63	-93.47	-526.20	626.53	483.06	449.19	33.87	14.263		
7,200.00	7,058.11	7,214.23	7,087.08	16.73	17.64	-95.00	-531.75	548.40	485.84	451.90	33.93	14.317		
7,300.00	7,107.56	7,329.75	7,154.44	16.87	17.65	-96.34	-536.31	454.85	487.40	453.23	34.17	14.265		
7,400.00	7,142.82	7,447.55	7,204.63	17.11	17.73	-97.48	-539.65	348.51	487.54	452.89	34.65	14.071		
7,500.00	7,163.02	7,566.98	7,234.71	17.46	17.94	-98.39	-541.55	233.13	486.12	450.69	35.43	13.720		
7,600.00	7,168.04	7,684.36	7,243.00	17.92	18.33	-98.93	-541.91	116.20	483.03	446.58	36.46	13.250		
7,700.00	7,168.22	7,784.29	7,242.98	18.52	18.87	-98.98	-541.72	16.27	479.19	441.57	37.62	12.737		
7,800.00	7,168.40	7,884.21	7,242.95	19.24	19.56	-99.03	-541.53	-83.65	475.34	436.31	39.03	12.179		
7,900.00	7,168.58	7,984.14	7,242.92	20.08	20.38	-99.08	-541.34	-183.58	471.50	430.84	40.66	11.595		
8,000.00	7,168.76	8,084.06	7,242.90	21.02	21.30	-99.12	-541.15	-283.50	467.66	425.16	42.50	11.005		
8,100.00	7,168.94	8,183.99	7,242.87	22.04	22.32	-99.18	-540.96	-383.43	463.81	419.31	44.50	10.423		
8,200.00	7,169.12	8,283.91	7,242.85	23.14	23.41	-99.23	-540.76	-483.35	459.97	413.32	46.65	9.859		
8,300.00	7,169.29	8,383.84	7,242.82	24.31	24.57	-99.28	-540.57	-583.28	456.13	407.19	48.94	9.321		
8,400.00	7,169.47	8,483.76	7,242.80	25.53	25.78	-99.33	-540.38	-683.20	452.29	400.95	51.33	8.811		
8,500.00	7,169.65	8,583.69	7,242.77	26.80	27.04	-99.39	-540.19	-783.13	448.44	394.62	53.83	8.331		
8,600.00	7,169.83	8,683.61	7,242.74	28.12	28.35	-99.44	-540.00	-883.05	444.60	388.20	56.40	7.883		
8,700.00	7,170.01	8,783.54	7,242.72	29.46	29.69	-99.50	-539.81	-982.98	440.76	381.71	59.05	7.464		
8,800.00	7,170.19	8,883.46	7,242.69	30.84	31.06	-99.55	-539.62	-1,082.90	436.92	375.16	61.76	7.074		
8,900.00	7,170.37	8,983.39	7,242.67	32.25	32.46	-99.61	-539.43	-1,182.83	433.08	368.55	64.53	6.711		
9,000.00	7,170.55	9,083.31	7,242.64	33.68	33.89	-99.67	-539.24	-1,282.75	429.24	361.90	67.35	6.374		
9,100.00	7,170.73	9,183.24	7,242.62	35.13	35.33	-99.73	-539.05	-1,382.68	425.40	355.20	70.20	6.060		
9,200.00	7,170.91	9,283.16	7,242.59	36.60	36.80	-99.79	-538.86	-1,482.60	421.56	348.47	73.09	5.767		
9,300.00	7,171.09	9,383.09	7,242.56	38.09	38.28	-99.86	-538.66	-1,582.53	417.73	341.70	76.02	5.495		
9,400.00	7,171.27	9,483.02	7,242.54	39.59	39.77	-99.92	-538.47	-1,682.45	413.89	334.91	78.97	5.241		
9,500.00	7,171.45	9,582.94	7,242.51	41.10	41.28	-99.98	-538.28	-1,782.38	410.05	328.10	81.95	5.003		
9,600.00	7,171.63	9,682.87	7,242.49	42.62	42.80	-100.05	-538.09	-1,882.30	406.22	321.26	84.96	4.782		
9,700.00	7,171.80	9,782.84	7,242.46	44.17	44.34	-100.07	-537.90	-1,982.28	404.19	316.20	87.99	4.593		
9,800.00	7,171.98	9,882.84	7,242.44	45.71	45.88	-100.05	-537.71	-2,082.28	403.76	312.71	91.06	4.434		
9,900.00	7,172.16	9,982.84	7,242.41	47.27	47.43	-100.03	-537.52	-2,182.27	403.33	309.20	94.14	4.285		
10,000.00	7,172.34	10,082.84	7,242.38	48.83	48.99	-100.01	-537.33	-2,282.27	402.90	305.67	97.23	4.144		
10,100.00	7,172.52	10,182.84	7,242.36	50.41	50.56	-99.99	-537.14	-2,382.27	402.47	302.13	100.34	4.011		
10,200.00	7,172.70	10,282.84	7,242.33	51.98	52.13	-99.97	-536.95	-2,482.27	402.04	298.58	103.47	3.886		
10,300.00	7,172.88	10,382.83	7,242.31	53.57	53.71	-99.95	-536.75	-2,582.27	401.61	295.01	106.60	3.767		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	7,173.06	10,482.83	7,242.28	55.15	55.29	-99.94	-536.56	-2,682.27	401.18	291.43	109.75	3.655		
10,500.00	7,173.24	10,582.83	7,242.26	56.75	56.88	-99.92	-536.37	-2,782.27	400.75	287.85	112.91	3.549		
10,600.00	7,173.42	10,682.83	7,242.23	58.34	58.48	-99.90	-536.18	-2,882.27	400.32	284.25	116.07	3.449		
10,700.00	7,173.60	10,782.83	7,242.20	59.94	60.07	-99.88	-535.99	-2,982.26	399.89	280.65	119.25	3.354		
10,800.00	7,173.78	10,882.83	7,242.18	61.55	61.68	-99.86	-535.80	-3,082.26	399.46	277.04	122.43	3.263		
10,900.00	7,173.95	10,982.83	7,242.15	63.16	63.28	-99.84	-535.61	-3,182.26	399.03	273.42	125.62	3.177		
11,000.00	7,174.13	11,082.83	7,242.13	64.77	64.89	-99.82	-535.42	-3,282.26	398.60	269.79	128.81	3.094		
11,100.00	7,174.31	11,182.83	7,242.10	66.38	66.50	-99.80	-535.23	-3,382.26	398.17	266.16	132.02	3.016		
11,200.00	7,174.49	11,282.83	7,242.08	68.00	68.12	-99.78	-535.03	-3,482.26	397.74	262.52	135.22	2.941		
11,300.00	7,174.67	11,382.82	7,242.05	69.62	69.74	-99.76	-534.84	-3,582.26	397.31	258.88	138.44	2.870		
11,400.00	7,174.85	11,482.82	7,242.03	71.24	71.36	-99.74	-534.65	-3,682.26	396.88	255.23	141.66	2.802		
11,500.00	7,175.03	11,582.82	7,242.00	72.87	72.98	-99.72	-534.46	-3,782.25	396.46	251.57	144.88	2.736		
11,600.00	7,175.21	11,682.82	7,241.97	74.50	74.60	-99.71	-534.27	-3,882.25	396.03	247.92	148.11	2.674		
11,700.00	7,175.39	11,782.82	7,241.95	76.12	76.23	-99.69	-534.08	-3,982.25	395.60	244.26	151.34	2.614		
11,800.00	7,175.57	11,882.82	7,241.92	77.75	77.86	-99.67	-533.89	-4,082.25	395.17	240.59	154.58	2.556		
11,900.00	7,175.75	11,982.82	7,241.90	79.39	79.49	-99.65	-533.70	-4,182.25	394.74	236.92	157.82	2.501		
12,000.00	7,175.93	12,082.82	7,241.87	81.02	81.12	-99.63	-533.51	-4,282.25	394.31	233.25	161.06	2.448		
12,100.00	7,176.11	12,182.82	7,241.85	82.66	82.75	-99.61	-533.32	-4,382.25	393.88	229.57	164.31	2.397		
12,200.00	7,176.28	12,282.82	7,241.82	84.29	84.39	-99.59	-533.12	-4,482.25	393.45	225.89	167.56	2.348		
12,300.00	7,176.46	12,382.81	7,241.79	85.93	86.02	-99.57	-532.93	-4,582.25	393.02	222.21	170.81	2.301		
12,400.00	7,176.64	12,482.81	7,241.77	87.57	87.66	-99.55	-532.74	-4,682.24	392.59	218.52	174.07	2.255		
12,500.00	7,176.82	12,582.81	7,241.74	89.21	89.30	-99.53	-532.55	-4,782.24	392.16	214.84	177.33	2.212		
12,600.00	7,177.00	12,682.81	7,241.72	90.85	90.94	-99.51	-532.36	-4,882.24	391.73	211.15	180.59	2.169		
12,700.00	7,177.18	12,782.81	7,241.69	92.49	92.58	-99.49	-532.17	-4,982.24	391.30	207.45	183.85	2.128		
12,800.00	7,177.36	12,882.81	7,241.67	94.14	94.23	-99.47	-531.98	-5,082.24	390.87	203.76	187.12	2.089		
12,900.00	7,177.54	12,982.81	7,241.64	95.78	95.87	-99.45	-531.79	-5,182.24	390.45	200.06	190.39	2.051		
13,000.00	7,177.72	13,082.81	7,241.61	97.43	97.51	-99.43	-531.60	-5,282.24	390.02	196.36	193.66	2.014		
13,100.00	7,177.90	13,182.81	7,241.59	99.07	99.16	-99.41	-531.40	-5,382.24	389.59	192.66	196.93	1.978		
13,200.00	7,178.08	13,282.81	7,241.56	100.72	100.80	-99.39	-531.21	-5,482.23	389.16	188.96	200.20	1.944		
13,300.00	7,178.26	13,382.80	7,241.54	102.37	102.45	-99.37	-531.02	-5,582.23	388.73	185.25	203.48	1.910		
13,400.00	7,178.43	13,482.80	7,241.51	104.02	104.10	-99.35	-530.83	-5,682.23	388.30	181.55	206.76	1.878		
13,500.00	7,178.61	13,582.80	7,241.49	105.67	105.75	-99.33	-530.64	-5,782.23	387.87	177.84	210.04	1.847		
13,600.00	7,178.79	13,682.80	7,241.46	107.32	107.40	-99.31	-530.45	-5,882.23	387.44	174.13	213.32	1.816		
13,700.00	7,178.97	13,782.80	7,241.43	108.97	109.05	-99.29	-530.26	-5,982.23	387.02	170.42	216.60	1.787		
13,800.00	7,179.15	13,882.80	7,241.41	110.62	110.70	-99.27	-530.07	-6,082.23	386.59	166.70	219.88	1.758		
13,900.00	7,179.33	13,982.80	7,241.38	112.27	112.35	-99.25	-529.88	-6,182.23	386.16	162.99	223.17	1.730		
14,000.00	7,179.51	14,082.80	7,241.36	113.92	114.00	-99.23	-529.69	-6,282.22	385.73	159.27	226.46	1.703		
14,100.00	7,179.69	14,182.80	7,241.33	115.58	115.65	-99.21	-529.49	-6,382.22	385.30	155.56	229.75	1.677		
14,200.00	7,179.87	14,282.79	7,241.31	117.23	117.31	-99.19	-529.30	-6,482.22	384.87	151.84	233.04	1.652		
14,300.00	7,180.05	14,382.79	7,241.28	118.88	118.96	-99.16	-529.11	-6,582.22	384.45	148.12	236.33	1.627		
14,400.00	7,180.23	14,482.79	7,241.25	120.54	120.61	-99.14	-528.92	-6,682.22	384.02	144.40	239.62	1.603		
14,500.00	7,180.41	14,582.79	7,241.23	122.19	122.27	-99.12	-528.73	-6,782.22	383.59	140.68	242.91	1.579		
14,600.00	7,180.58	14,682.79	7,241.20	123.85	123.92	-99.10	-528.54	-6,882.22	383.16	136.95	246.21	1.556		
14,700.00	7,180.76	14,782.79	7,241.18	125.50	125.58	-99.08	-528.35	-6,982.22	382.73	133.23	249.50	1.534		
14,800.00	7,180.94	14,882.79	7,241.15	127.16	127.23	-99.06	-528.16	-7,082.22	382.30	129.50	252.80	1.512		
14,900.00	7,181.12	14,982.79	7,241.13	128.82	128.89	-99.04	-527.97	-7,182.21	381.88	125.78	256.10	1.491	Level 3	
15,000.00	7,181.30	15,082.79	7,241.10	130.47	130.55	-99.02	-527.77	-7,282.21	381.45	122.05	259.40	1.471	Level 3	
15,100.00	7,181.48	15,182.79	7,241.07	132.13	132.20	-99.00	-527.58	-7,382.21	381.02	118.32	262.70	1.450	Level 3	
15,200.00	7,181.66	15,282.78	7,241.05	133.79	133.86	-98.98	-527.39	-7,482.21	380.59	114.59	266.00	1.431	Level 3	
15,300.00	7,181.84	15,382.78	7,241.02	135.45	135.52	-98.96	-527.20	-7,582.21	380.17	110.86	269.30	1.412	Level 3	
15,389.78	7,182.00	15,472.57	7,241.00	136.94	137.01	-98.94	-527.03	-7,671.99	379.78	107.52	272.27	1.395	Level 3, SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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-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	179.65	-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		
255.00	255.00	255.00	255.00	3.33	3.33	87.31	-179.96	1.11	179.94	172.32	7.62	23.624	CC, ES	
300.00	299.98	297.32	297.32	3.35	3.35	87.62	-180.31	1.29	180.26	172.60	7.66	23.543	SF	
400.00	399.84	391.88	391.82	3.41	3.40	88.67	-183.11	2.68	183.03	175.26	7.77	23.563		
500.00	499.45	486.19	485.93	3.50	3.47	90.18	-188.67	5.46	188.75	180.83	7.92	23.829		
600.00	598.74	580.12	579.39	3.62	3.57	92.02	-196.96	9.59	197.54	189.41	8.12	24.321		
700.00	697.94	673.66	672.12	3.76	3.69	93.51	-207.95	15.07	209.31	200.94	8.37	25.012		
800.00	797.15	766.68	763.88	3.93	3.85	94.39	-221.55	21.85	223.89	215.23	8.66	25.860		
900.00	896.36	858.98	854.41	4.12	4.04	94.75	-237.67	29.89	241.15	232.16	8.99	26.835		
1,000.00	995.56	950.39	943.43	4.33	4.28	94.69	-256.20	39.13	261.01	251.66	9.35	27.911		
1,100.00	1,094.77	1,040.72	1,030.72	4.56	4.55	94.30	-277.00	49.50	283.43	273.68	9.75	29.079		
1,200.00	1,193.98	1,136.65	1,122.90	4.79	4.88	93.74	-300.75	61.34	307.49	297.27	10.22	30.090		
1,300.00	1,293.19	1,233.66	1,216.12	5.04	5.25	93.25	-324.80	73.33	331.61	320.88	10.73	30.907		
1,400.00	1,392.39	1,330.67	1,309.34	5.30	5.64	92.83	-348.85	85.32	355.74	344.47	11.27	31.570		
1,500.00	1,491.60	1,427.69	1,402.55	5.56	6.05	92.46	-372.90	97.31	379.89	368.07	11.82	32.145		
1,600.00	1,590.81	1,524.70	1,495.77	5.84	6.47	92.14	-396.94	109.30	404.05	391.65	12.40	32.594		
1,700.00	1,690.01	1,621.71	1,588.99	6.12	6.91	91.85	-420.99	121.29	428.22	415.23	12.99	32.970		
1,800.00	1,789.22	1,718.73	1,682.21	6.40	7.36	91.59	-445.04	133.28	452.40	438.81	13.59	33.282		
1,900.00	1,888.43	1,815.74	1,775.43	6.55	7.78	91.36	-469.09	145.27	476.59	462.75	13.84	34.426		
2,000.00	1,987.64	1,912.75	1,868.64	6.58	8.01	91.16	-493.13	157.26	500.79	486.93	13.86	36.132		
2,100.00	2,086.84	2,009.77	1,961.86	6.63	8.08	90.97	-517.18	169.25	524.99	511.05	13.94	37.670		
2,200.00	2,186.05	2,106.78	2,055.08	6.68	8.18	90.79	-541.23	181.24	549.20	535.15	14.05	39.097		
2,300.00	2,285.26	2,203.79	2,148.30	6.75	8.29	90.64	-565.28	193.23	573.41	559.22	14.19	40.409		
2,400.00	2,384.46	2,300.81	2,241.51	6.84	8.42	90.49	-589.32	205.22	597.62	583.26	14.36	41.604		
2,500.00	2,483.67	2,402.18	2,334.73	6.94	8.58	90.36	-613.37	217.20	621.84	607.26	14.58	42.663		
2,600.00	2,582.88	2,505.17	2,427.95	7.05	8.76	90.23	-637.42	229.19	646.06	631.24	14.82	43.594		
2,700.00	2,682.09	2,608.15	2,521.17	7.17	8.97	90.12	-661.47	241.18	670.28	655.19	15.09	44.409		
2,800.00	2,781.29	2,688.86	2,614.39	7.30	9.14	90.01	-685.51	253.17	694.51	679.15	15.36	45.226		
2,900.00	2,880.50	2,785.87	2,707.60	7.45	9.36	89.91	-709.56	265.16	718.74	703.07	15.67	45.868		
3,000.00	2,979.71	2,882.89	2,800.82	7.60	9.59	89.82	-733.61	277.15	742.97	726.96	16.01	46.418		
3,100.00	3,078.91	2,979.90	2,894.04	7.76	9.83	89.73	-757.66	289.14	767.20	750.83	16.36	46.883		
3,200.00	3,178.12	3,076.91	2,987.26	7.94	10.09	89.65	-781.70	301.13	791.43	774.69	16.74	47.272		
3,300.00	3,277.33	3,173.93	3,080.47	8.12	10.36	89.57	-805.75	313.12	815.67	798.53	17.14	47.591		
3,400.00	3,376.53	3,270.94	3,173.69	8.31	10.64	89.50	-829.80	325.11	839.90	822.35	17.55	47.849		
3,500.00	3,475.74	3,367.95	3,266.91	8.50	10.93	89.43	-853.85	337.10	864.14	846.15	17.98	48.051		
3,600.00	3,574.95	3,464.97	3,360.13	8.70	11.23	89.37	-877.89	349.09	888.38	869.95	18.43	48.205		
3,700.00	3,674.16	3,561.98	3,453.35	8.91	11.53	89.30	-901.94	361.08	912.62	893.73	18.89	48.316		
3,800.00	3,773.36	3,658.99	3,546.56	9.13	11.85	89.25	-925.99	373.07	936.86	917.49	19.36	48.390		
3,900.00	3,872.57	3,756.01	3,639.78	9.35	12.17	89.19	-950.04	385.06	961.10	941.25	19.84	48.431		
4,000.00	3,971.78	3,853.02	3,733.00	9.57	12.50	89.14	-974.08	397.05	985.34	965.00	20.34	48.443		
4,100.00	4,070.98	3,950.03	3,826.22	9.80	12.83	89.09	-998.13	409.04	1,009.58	988.73	20.85	48.431		
4,200.00	4,170.19	4,047.05	3,919.43	10.04	13.17	89.04	-1,022.18	421.03	1,033.82	1,012.46	21.36	48.399		
4,300.00	4,269.40	4,144.06	4,012.65	10.28	13.51	89.00	-1,046.23	433.02	1,058.07	1,036.18	21.88	48.348		
4,400.00	4,368.61	4,241.07	4,105.87	10.52	13.86	88.95	-1,070.27	445.01	1,082.31	1,059.90	22.42	48.282		
4,500.00	4,467.81	4,338.09	4,199.09	10.77	14.21	88.91	-1,094.32	457.00	1,106.56	1,083.60	22.96	48.203		
4,600.00	4,567.02	4,435.10	4,292.31	11.02	14.57	88.87	-1,118.37	468.99	1,130.80	1,107.30	23.50	48.113		
4,700.00	4,666.23	4,532.11	4,385.52	11.27	14.93	88.83	-1,142.42	480.98	1,155.05	1,130.99	24.06	48.015		
4,800.00	4,765.43	4,629.13	4,478.74	11.52	15.29	88.80	-1,166.46	492.97	1,179.29	1,154.68	24.62	47.908		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	179.60	-159.93	1.11	159.93					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-159.93	1.11	159.93	152.40	7.53	21.243		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-159.93	1.11	159.93	152.36	7.57	21.116 CC, ES		
300.00	299.98	295.33	295.31	3.35	3.34	87.39	-161.31	1.90	161.30	153.65	7.65	21.079 SF		
400.00	399.84	390.51	390.37	3.41	3.40	88.22	-165.43	4.25	165.42	157.66	7.76	21.307		
500.00	499.45	485.39	484.92	3.50	3.48	89.51	-172.27	8.14	172.37	164.45	7.92	21.766		
600.00	598.74	579.84	578.73	3.62	3.58	91.13	-181.78	13.55	182.22	174.10	8.12	22.431		
700.00	697.94	673.85	671.69	3.76	3.72	92.35	-193.91	20.46	194.94	186.56	8.38	23.273		
800.00	797.15	767.25	763.55	3.93	3.89	92.91	-208.58	28.81	210.36	201.68	8.67	24.254		
900.00	896.36	859.86	854.04	4.12	4.10	92.95	-225.68	38.54	228.38	219.37	9.01	25.343		
1,000.00	995.56	954.01	945.40	4.33	4.36	92.59	-245.46	49.80	248.78	239.38	9.40	26.463		
1,100.00	1,094.77	1,051.79	1,040.14	4.56	4.67	92.20	-266.47	61.76	269.67	259.82	9.85	27.367		
1,200.00	1,193.98	1,149.57	1,134.88	4.79	5.00	91.87	-287.49	73.73	290.57	280.23	10.34	28.105		
1,300.00	1,293.19	1,247.35	1,229.63	5.04	5.36	91.58	-308.51	85.69	311.48	300.63	10.85	28.703		
1,400.00	1,392.39	1,345.13	1,324.37	5.30	5.74	91.33	-329.53	97.66	332.39	321.01	11.39	29.187		
1,500.00	1,491.60	1,442.91	1,419.11	5.56	6.13	91.11	-350.55	109.62	353.31	341.37	11.94	29.587		
1,600.00	1,590.81	1,540.69	1,513.85	5.84	6.53	90.91	-371.56	121.58	374.24	361.72	12.51	29.904		
1,700.00	1,690.01	1,638.47	1,608.59	6.12	6.94	90.74	-392.58	133.55	395.17	382.06	13.10	30.161		
1,800.00	1,789.22	1,736.25	1,703.33	6.40	7.36	90.58	-413.60	145.51	416.10	402.40	13.70	30.369		
1,900.00	1,888.43	1,834.02	1,798.07	6.55	7.72	90.43	-434.62	157.48	437.03	423.11	13.92	31.404		
2,000.00	1,987.64	1,931.80	1,892.81	6.58	7.90	90.30	-455.63	169.44	457.97	444.07	13.90	32.945		
2,100.00	2,086.84	2,029.58	1,987.55	6.63	7.97	90.19	-476.65	181.40	478.90	464.92	13.98	34.255		
2,200.00	2,186.05	2,127.36	2,082.29	6.68	8.05	90.08	-497.67	193.37	499.84	485.75	14.09	35.469		
2,300.00	2,285.26	2,225.14	2,177.03	6.75	8.16	89.98	-518.69	205.33	520.79	506.55	14.24	36.583		
2,400.00	2,384.46	2,322.92	2,271.77	6.84	8.28	89.89	-539.71	217.30	541.73	527.32	14.41	37.597		
2,500.00	2,483.67	2,420.70	2,366.51	6.94	8.42	89.80	-560.72	229.26	562.67	548.06	14.61	38.508		
2,600.00	2,582.88	2,518.48	2,461.26	7.05	8.58	89.72	-581.74	241.22	583.62	568.78	14.84	39.321		
2,700.00	2,682.09	2,616.26	2,556.00	7.17	8.75	89.65	-602.76	253.19	604.56	589.46	15.10	40.039		
2,800.00	2,781.29	2,714.03	2,650.74	7.30	8.94	89.58	-623.78	265.15	625.51	610.13	15.38	40.666		
2,900.00	2,880.50	2,811.81	2,745.48	7.45	9.14	89.51	-644.79	277.12	646.46	630.77	15.69	41.208		
3,000.00	2,979.71	2,909.59	2,840.22	7.60	9.36	89.45	-665.81	289.08	667.41	651.39	16.02	41.673		
3,100.00	3,078.91	3,007.37	2,934.96	7.76	9.59	89.40	-686.83	301.04	688.36	671.99	16.37	42.061		
3,200.00	3,178.12	3,105.15	3,029.70	7.94	9.82	89.34	-707.85	313.01	709.31	692.57	16.73	42.386		
3,300.00	3,277.33	3,202.93	3,124.44	8.12	10.07	89.29	-728.86	324.97	730.26	713.13	17.12	42.651		
3,400.00	3,376.53	3,300.71	3,219.18	8.31	10.33	89.25	-749.88	336.94	751.21	733.68	17.53	42.863		
3,500.00	3,475.74	3,401.51	3,313.92	8.50	10.61	89.20	-770.90	348.90	772.16	754.21	17.95	43.010		
3,600.00	3,574.95	3,503.74	3,408.66	8.70	10.90	89.16	-791.92	360.86	793.11	774.71	18.40	43.106		
3,700.00	3,674.16	3,605.96	3,503.40	8.91	11.20	89.12	-812.94	372.83	814.06	795.20	18.86	43.165		
3,800.00	3,773.36	3,708.18	3,598.14	9.13	11.50	89.08	-833.95	384.79	835.02	815.68	19.33	43.192		
3,900.00	3,872.57	3,789.60	3,692.89	9.35	11.75	89.04	-854.97	396.76	855.97	836.21	19.76	43.312		
4,000.00	3,971.78	3,887.38	3,787.63	9.57	12.06	89.01	-875.99	408.72	876.92	856.67	20.25	43.312		
4,100.00	4,070.98	3,985.16	3,882.37	9.80	12.37	88.98	-897.01	420.68	897.88	877.13	20.74	43.291		
4,200.00	4,170.19	4,082.94	3,977.11	10.04	12.68	88.94	-918.02	432.65	918.83	897.59	21.24	43.252		
4,300.00	4,269.40	4,180.72	4,071.85	10.28	13.00	88.91	-939.04	444.61	939.78	918.03	21.76	43.198		
4,400.00	4,368.61	4,278.50	4,166.59	10.52	13.33	88.89	-960.06	456.58	960.74	938.46	22.28	43.130		
4,500.00	4,467.81	4,376.27	4,261.33	10.77	13.66	88.86	-981.08	468.54	981.69	958.89	22.80	43.051		
4,600.00	4,567.02	4,474.05	4,356.07	11.02	13.99	88.83	-1,002.10	480.50	1,002.65	979.31	23.34	42.963		
4,700.00	4,666.23	4,571.83	4,450.81	11.27	14.33	88.81	-1,023.11	492.47	1,023.60	999.72	23.88	42.867		
4,800.00	4,765.43	4,669.61	4,545.55	11.52	14.67	88.78	-1,044.13	504.43	1,044.56	1,020.13	24.43	42.765		
4,900.00	4,864.64	4,767.39	4,640.29	11.78	15.01	88.76	-1,065.15	516.40	1,065.51	1,040.53	24.98	42.657		
5,000.00	4,963.85	4,865.17	4,735.03	12.04	15.35	88.74	-1,086.17	528.36	1,086.47	1,060.93	25.54	42.545		
5,100.00	5,063.06	4,962.95	4,829.78	12.31	15.70	88.71	-1,107.18	540.32	1,107.42	1,081.32	26.10	42.430		

Hewlett-Packard  
Anticollision Report

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

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,162.26	5,060.73	4,924.52	12.57	16.06	88.69	-1,128.20	552.29	1,128.38	1,101.71	26.67	42.312	
5,300.00	5,261.47	5,158.50	5,019.26	12.84	16.41	88.67	-1,149.22	564.25	1,149.33	1,122.09	27.24	42.193	
5,400.00	5,360.68	5,256.28	5,114.00	13.11	16.77	88.65	-1,170.24	576.22	1,170.29	1,142.47	27.82	42.072	
5,500.00	5,459.88	5,354.06	5,208.74	13.38	17.12	88.64	-1,191.25	588.18	1,191.25	1,162.85	28.40	41.950	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-137.21	-161.02	-149.06	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-137.21	-161.02	-149.06	219.42	211.89	7.53	29.144	
200.00	200.00	201.00	201.00	3.31	3.31	-137.21	-161.02	-149.06	219.42	211.85	7.57	28.970	CC, ES, SF
300.00	299.98	295.34	295.33	3.35	3.34	130.31	-162.61	-149.14	221.84	214.19	7.65	28.987	
400.00	399.84	389.42	389.28	3.41	3.40	130.39	-167.27	-149.37	229.03	221.26	7.77	29.481	
500.00	499.45	482.85	482.40	3.50	3.47	130.51	-174.96	-149.75	240.96	233.03	7.93	30.386	
600.00	598.74	575.38	574.31	3.62	3.57	130.71	-185.55	-150.28	257.42	249.28	8.14	31.623	
700.00	697.94	667.05	664.98	3.76	3.70	130.69	-198.96	-150.95	276.70	268.31	8.39	32.996	
800.00	797.15	757.76	754.24	3.93	3.86	130.31	-215.08	-151.75	298.33	289.66	8.67	34.402	
900.00	896.36	849.62	844.10	4.12	4.06	129.64	-234.13	-152.70	322.23	313.23	9.00	35.789	
1,000.00	995.56	946.49	938.70	4.33	4.30	128.95	-254.94	-153.73	346.75	337.35	9.40	36.900	
1,100.00	1,094.77	1,043.36	1,033.30	4.56	4.57	128.36	-275.75	-154.77	371.31	361.49	9.82	37.793	
1,200.00	1,193.98	1,140.23	1,127.90	4.79	4.86	127.83	-296.56	-155.81	395.91	385.62	10.28	38.503	
1,300.00	1,293.19	1,237.10	1,222.51	5.04	5.17	127.37	-317.36	-156.84	420.53	409.76	10.77	39.062	
1,400.00	1,392.39	1,333.96	1,317.11	5.30	5.50	126.96	-338.17	-157.88	445.17	433.90	11.27	39.498	
1,500.00	1,491.60	1,430.83	1,411.71	5.56	5.84	126.59	-358.98	-158.91	469.84	458.04	11.79	39.841	
1,600.00	1,590.81	1,527.70	1,506.31	5.84	6.18	126.26	-379.79	-159.95	494.52	482.18	12.33	40.099	
1,700.00	1,690.01	1,624.57	1,600.91	6.12	6.54	125.96	-400.60	-160.99	519.21	506.33	12.89	40.294	
1,800.00	1,789.22	1,721.44	1,695.51	6.40	6.91	125.69	-421.41	-162.02	543.92	530.47	13.45	40.438	
1,900.00	1,888.43	1,818.31	1,790.12	6.55	7.24	125.44	-442.21	-163.06	568.64	554.97	13.67	41.610	
2,000.00	1,987.64	1,915.18	1,884.72	6.58	7.43	125.21	-463.02	-164.09	593.36	579.70	13.66	43.437	
2,100.00	2,086.84	2,012.05	1,979.32	6.63	7.48	125.00	-483.83	-165.13	618.10	604.37	13.73	45.015	
2,200.00	2,186.05	2,108.92	2,073.92	6.68	7.55	124.81	-504.64	-166.17	642.84	629.01	13.83	46.474	
2,300.00	2,285.26	2,205.78	2,168.52	6.75	7.64	124.63	-525.45	-167.20	667.59	653.62	13.96	47.808	
2,400.00	2,384.46	2,302.65	2,263.13	6.84	7.74	124.46	-546.26	-168.24	692.34	678.22	14.12	49.016	
2,500.00	2,483.67	2,400.48	2,357.73	6.94	7.87	124.31	-567.07	-169.27	717.10	702.78	14.31	50.095	
2,600.00	2,582.88	2,503.61	2,452.33	7.05	8.01	124.16	-587.87	-170.31	741.86	727.32	14.54	51.025	
2,700.00	2,682.09	2,606.74	2,546.93	7.17	8.18	124.03	-608.68	-171.35	766.63	751.84	14.79	51.830	
2,800.00	2,781.29	2,709.87	2,641.53	7.30	8.36	123.90	-629.49	-172.38	791.40	776.33	15.07	52.517	
2,900.00	2,880.50	2,787.00	2,736.14	7.45	8.50	123.78	-650.30	-173.42	816.18	800.85	15.33	53.242	
3,000.00	2,979.71	2,883.87	2,830.74	7.60	8.69	123.67	-671.11	-174.45	840.96	825.31	15.64	53.765	
3,100.00	3,078.91	2,980.73	2,925.34	7.76	8.89	123.56	-691.92	-175.49	865.74	849.76	15.97	54.198	
3,200.00	3,178.12	3,077.60	3,019.94	7.94	9.11	123.46	-712.72	-176.53	890.52	874.19	16.33	54.549	
3,300.00	3,277.33	3,174.47	3,114.54	8.12	9.33	123.37	-733.53	-177.56	915.31	898.61	16.69	54.827	
3,400.00	3,376.53	3,271.34	3,209.14	8.31	9.56	123.28	-754.34	-178.60	940.09	923.01	17.08	55.039	
3,500.00	3,475.74	3,368.21	3,303.75	8.50	9.80	123.19	-775.15	-179.63	964.88	947.40	17.48	55.192	
3,600.00	3,574.95	3,465.08	3,398.35	8.70	10.05	123.11	-795.96	-180.67	989.68	971.78	17.90	55.294	
3,700.00	3,674.16	3,561.95	3,492.95	8.91	10.31	123.03	-816.77	-181.71	1,014.47	996.14	18.33	55.351	
3,800.00	3,773.36	3,658.82	3,587.55	9.13	10.57	122.96	-837.57	-182.74	1,039.27	1,020.50	18.77	55.368	
3,900.00	3,872.57	3,755.69	3,682.15	9.35	10.84	122.89	-858.38	-183.78	1,064.06	1,044.84	19.22	55.350	
4,000.00	3,971.78	3,852.55	3,776.76	9.57	11.12	122.83	-879.19	-184.81	1,088.86	1,069.17	19.69	55.303	
4,100.00	4,070.98	3,949.42	3,871.36	9.80	11.40	122.76	-900.00	-185.85	1,113.66	1,093.50	20.16	55.231	
4,200.00	4,170.19	4,046.29	3,965.96	10.04	11.68	122.70	-920.81	-186.89	1,138.46	1,117.81	20.65	55.137	
4,300.00	4,269.40	4,143.16	4,060.56	10.28	11.97	122.64	-941.62	-187.92	1,163.26	1,142.12	21.14	55.025	
4,400.00	4,368.61	4,240.03	4,155.16	10.52	12.27	122.59	-962.43	-188.96	1,188.07	1,166.43	21.64	54.898	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	1.00	1.00	3.28	3.28	-140.59	-181.06	-148.78	234.35					
100.00	100.00	101.00	101.00	3.28	3.28	-140.59	-181.06	-148.78	234.35	226.82	7.53	31.126		
200.00	200.00	201.00	201.00	3.31	3.31	-140.59	-181.06	-148.78	234.35	226.77	7.57	30.940 CC, ES		
300.00	299.98	294.75	294.73	3.35	3.34	126.96	-182.63	-148.85	236.73	229.08	7.65	30.934 SF		
400.00	399.84	388.24	388.11	3.41	3.40	127.11	-187.24	-149.04	243.82	236.05	7.77	31.390		
500.00	499.45	481.11	480.66	3.50	3.47	127.35	-194.83	-149.37	255.59	247.66	7.93	32.242		
600.00	598.74	573.09	572.04	3.62	3.57	127.69	-205.30	-149.82	271.84	263.70	8.14	33.414		
700.00	697.94	664.23	662.20	3.76	3.69	127.86	-218.56	-150.38	290.96	282.58	8.38	34.725		
800.00	797.15	754.43	750.98	3.93	3.85	127.67	-234.50	-151.07	312.51	303.85	8.66	36.076		
900.00	896.36	843.54	838.14	4.12	4.05	127.21	-252.97	-151.86	336.46	327.48	8.98	37.454		
1,000.00	995.56	931.39	923.47	4.33	4.27	126.53	-273.83	-152.75	362.82	353.48	9.34	38.861		
1,100.00	1,094.77	1,026.17	1,015.09	4.56	4.56	125.74	-298.08	-153.79	390.69	380.93	9.76	40.017		
1,200.00	1,193.98	1,122.06	1,107.78	4.79	4.87	125.04	-322.64	-154.84	418.64	408.41	10.23	40.931		
1,300.00	1,293.19	1,217.96	1,200.47	5.04	5.21	124.42	-347.19	-155.89	446.64	435.92	10.72	41.662		
1,400.00	1,392.39	1,313.86	1,293.17	5.30	5.57	123.88	-371.75	-156.94	474.69	463.45	11.24	42.242		
1,500.00	1,491.60	1,409.75	1,385.86	5.56	5.94	123.40	-396.30	-157.99	502.76	490.99	11.77	42.710		
1,600.00	1,590.81	1,505.65	1,478.55	5.84	6.33	122.97	-420.86	-159.04	530.87	518.55	12.32	43.074		
1,700.00	1,690.01	1,601.54	1,571.25	6.12	6.72	122.59	-445.41	-160.09	559.00	546.11	12.89	43.359		
1,800.00	1,789.22	1,697.44	1,663.94	6.40	7.13	122.24	-469.96	-161.14	587.16	573.68	13.47	43.582		
1,900.00	1,888.43	1,806.66	1,756.63	6.55	7.58	121.92	-494.52	-162.19	615.33	601.56	13.77	44.697		
2,000.00	1,987.64	1,889.23	1,849.33	6.58	7.78	121.63	-519.07	-163.24	643.52	629.75	13.77	46.739		
2,100.00	2,086.84	1,985.13	1,942.02	6.63	7.86	121.36	-543.63	-164.29	671.72	657.86	13.86	48.481		
2,200.00	2,186.05	2,081.03	2,034.71	6.68	7.94	121.12	-568.18	-165.34	699.93	685.98	13.96	50.151		
2,300.00	2,285.26	2,176.92	2,127.41	6.75	8.04	120.89	-592.74	-166.40	728.16	714.07	14.09	51.682		
2,400.00	2,384.46	2,272.82	2,220.10	6.84	8.16	120.69	-617.29	-167.45	756.39	742.14	14.25	53.071		
2,500.00	2,483.67	2,368.72	2,312.79	6.94	8.29	120.49	-641.85	-168.50	784.63	770.19	14.45	54.318		
2,600.00	2,582.88	2,464.61	2,405.49	7.05	8.44	120.31	-666.40	-169.55	812.88	798.22	14.67	55.425		
2,700.00	2,682.09	2,560.51	2,498.18	7.17	8.61	120.14	-690.96	-170.60	841.14	826.23	14.91	56.399		
2,800.00	2,781.29	2,656.40	2,590.88	7.30	8.79	119.99	-715.51	-171.65	869.40	854.22	15.19	57.244		
2,900.00	2,880.50	2,752.30	2,683.57	7.45	8.99	119.84	-740.07	-172.70	897.67	882.19	15.49	57.970		
3,000.00	2,979.71	2,848.20	2,776.26	7.60	9.20	119.70	-764.62	-173.75	925.95	910.14	15.81	58.584		
3,100.00	3,078.91	2,944.09	2,868.96	7.76	9.42	119.57	-789.18	-174.80	954.23	938.08	16.15	59.096		
3,200.00	3,178.12	3,039.99	2,961.65	7.94	9.66	119.45	-813.73	-175.85	982.51	966.00	16.51	59.516		
3,300.00	3,277.33	3,135.89	3,054.34	8.12	9.90	119.33	-838.29	-176.90	1,010.80	993.91	16.89	59.851		
3,400.00	3,376.53	3,231.78	3,147.04	8.31	10.16	119.22	-862.84	-177.95	1,039.09	1,021.80	17.29	60.112		
3,500.00	3,475.74	3,327.68	3,239.73	8.50	10.42	119.12	-887.40	-179.00	1,067.38	1,049.68	17.70	60.306		
3,600.00	3,574.95	3,423.58	3,332.42	8.70	10.69	119.02	-911.95	-180.06	1,095.68	1,077.55	18.13	60.442		
3,700.00	3,674.16	3,519.47	3,425.12	8.91	10.97	118.93	-936.51	-181.11	1,123.98	1,105.41	18.57	60.526		
3,800.00	3,773.36	3,615.37	3,517.81	9.13	11.26	118.84	-961.06	-182.16	1,152.28	1,133.26	19.03	60.565		
3,900.00	3,872.57	3,711.26	3,610.50	9.35	11.56	118.76	-985.61	-183.21	1,180.59	1,161.09	19.49	60.565		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	-112.13	-60.84	-149.61	161.51				
100.00	100.00	101.00	101.00	3.28	3.28	-112.13	-60.84	-149.61	161.51	153.98	7.53	21.452	
200.00	200.00	201.00	201.00	3.31	3.31	-112.13	-60.84	-149.61	161.51	153.94	7.57	21.324 CC, ES	
300.00	299.98	298.23	298.21	3.35	3.34	155.08	-62.51	-149.82	163.94	156.29	7.65	21.417	
400.00	399.84	395.12	394.97	3.41	3.40	154.29	-67.43	-150.43	171.22	163.45	7.78	22.021	
500.00	499.45	505.58	494.04	3.50	3.49	153.52	-74.17	-151.27	182.52	174.56	7.96	22.939	
600.00	598.74	606.59	592.80	3.62	3.60	153.29	-80.88	-152.11	196.70	188.52	8.18	24.043	
700.00	697.94	707.68	691.47	3.76	3.72	153.23	-87.59	-152.95	211.45	203.01	8.44	25.061	
800.00	797.15	808.78	790.15	3.93	3.87	153.19	-94.30	-153.78	226.20	217.46	8.73	25.904	
900.00	896.36	909.87	888.82	4.12	4.04	153.14	-101.01	-154.62	240.95	231.88	9.06	26.591	
1,000.00	995.56	989.04	987.49	4.33	4.18	153.10	-107.72	-155.45	255.69	246.31	9.38	27.256	
1,100.00	1,094.77	1,087.94	1,086.17	4.56	4.36	153.07	-114.43	-156.29	270.45	260.68	9.76	27.708	
1,200.00	1,193.98	1,186.85	1,184.84	4.79	4.56	153.04	-121.14	-157.12	285.20	275.03	10.16	28.062	
1,300.00	1,293.19	1,285.75	1,283.52	5.04	4.77	153.01	-127.85	-157.96	299.95	289.36	10.59	28.335	
1,400.00	1,392.39	1,384.66	1,382.19	5.30	4.99	152.99	-134.56	-158.80	314.70	303.67	11.03	28.540	
1,500.00	1,491.60	1,483.57	1,480.87	5.56	5.21	152.97	-141.27	-159.63	329.45	317.96	11.48	28.692	
1,600.00	1,590.81	1,582.47	1,579.54	5.84	5.45	152.95	-147.98	-160.47	344.20	332.24	11.95	28.799	
1,700.00	1,690.01	1,681.38	1,678.22	6.12	5.68	152.93	-154.69	-161.30	358.95	346.51	12.43	28.870	
1,800.00	1,789.22	1,780.28	1,776.89	6.40	5.93	152.91	-161.40	-162.14	373.70	360.77	12.93	28.912	
1,900.00	1,888.43	1,879.19	1,875.57	6.55	6.08	152.89	-168.11	-162.98	388.45	375.62	12.83	30.279	
2,000.00	1,987.64	1,978.10	1,974.24	6.58	6.12	152.88	-174.82	-163.81	403.20	390.31	12.89	31.285	
2,100.00	2,086.84	2,077.00	2,072.92	6.63	6.15	152.86	-181.53	-164.65	417.95	405.00	12.95	32.277	
2,200.00	2,186.05	2,175.91	2,171.59	6.68	6.19	152.85	-188.24	-165.48	432.70	419.66	13.04	33.190	
2,300.00	2,285.26	2,274.81	2,270.27	6.75	6.25	152.84	-194.95	-166.32	447.45	434.30	13.15	34.021	
2,400.00	2,384.46	2,373.72	2,368.94	6.84	6.31	152.83	-201.66	-167.15	462.20	448.91	13.29	34.770	
2,500.00	2,483.67	2,472.63	2,467.62	6.94	6.39	152.82	-208.37	-167.99	476.95	463.49	13.46	35.436	
2,600.00	2,582.88	2,571.53	2,566.29	7.05	6.49	152.81	-215.08	-168.83	491.70	478.05	13.65	36.022	
2,700.00	2,682.09	2,670.44	2,664.96	7.17	6.59	152.80	-221.79	-169.66	506.45	492.59	13.86	36.530	
2,800.00	2,781.29	2,769.34	2,763.64	7.30	6.70	152.79	-228.50	-170.50	521.20	507.10	14.10	36.965	
2,900.00	2,880.50	2,868.25	2,862.31	7.45	6.83	152.78	-235.21	-171.33	535.95	521.60	14.36	37.331	
3,000.00	2,979.71	2,967.16	2,960.99	7.60	6.96	152.77	-241.92	-172.17	550.70	536.07	14.63	37.633	
3,100.00	3,078.91	3,066.06	3,059.66	7.76	7.11	152.77	-248.63	-173.00	565.45	550.53	14.93	37.876	
3,200.00	3,178.12	3,164.97	3,158.34	7.94	7.26	152.76	-255.34	-173.84	580.21	564.96	15.24	38.066	
3,300.00	3,277.33	3,263.87	3,257.01	8.12	7.42	152.75	-262.05	-174.68	594.96	579.38	15.57	38.208	
3,400.00	3,376.53	3,362.78	3,355.69	8.31	7.59	152.75	-268.76	-175.51	609.71	593.79	15.92	38.307	
3,500.00	3,475.74	3,461.69	3,454.36	8.50	7.76	152.74	-275.47	-176.35	624.46	608.18	16.28	38.367	
3,600.00	3,574.95	3,560.59	3,553.04	8.70	7.94	152.73	-282.18	-177.18	639.21	622.56	16.65	38.394	
3,700.00	3,674.16	3,659.50	3,651.71	8.91	8.13	152.73	-288.89	-178.02	653.96	636.92	17.03	38.392	
3,800.00	3,773.36	3,758.41	3,750.39	9.13	8.33	152.72	-295.59	-178.86	668.71	651.28	17.43	38.364	
3,900.00	3,872.57	3,857.31	3,849.06	9.35	8.52	152.72	-302.30	-179.69	683.46	665.62	17.84	38.313	
4,000.00	3,971.78	3,956.22	3,947.74	9.57	8.73	152.71	-309.01	-180.53	698.21	679.95	18.26	38.244	
4,100.00	4,070.98	4,055.12	4,046.41	9.80	8.94	152.71	-315.72	-181.36	712.96	694.28	18.68	38.159	
4,200.00	4,170.19	4,154.03	4,145.08	10.04	9.15	152.70	-322.43	-182.20	727.71	708.59	19.12	38.060	
4,300.00	4,269.40	4,252.94	4,243.76	10.28	9.37	152.70	-329.14	-183.03	742.46	722.90	19.56	37.949	
4,400.00	4,368.61	4,351.84	4,342.43	10.52	9.59	152.70	-335.85	-183.87	757.21	737.20	20.02	37.829	
4,500.00	4,467.81	4,450.75	4,441.11	10.77	9.81	152.69	-342.56	-184.71	771.96	751.49	20.48	37.701	
4,600.00	4,567.02	4,549.65	4,539.78	11.02	10.04	152.69	-349.27	-185.54	786.72	765.77	20.94	37.567	
4,700.00	4,666.23	4,648.56	4,638.46	11.27	10.27	152.68	-355.98	-186.38	801.47	780.05	21.41	37.428	
4,800.00	4,765.43	4,747.47	4,737.13	11.52	10.50	152.68	-362.69	-187.21	816.22	794.33	21.89	37.285	
4,900.00	4,864.64	4,846.37	4,835.81	11.78	10.74	152.68	-369.40	-188.05	830.97	808.59	22.37	37.139	
5,000.00	4,963.85	4,945.28	4,934.48	12.04	10.98	152.67	-376.11	-188.88	845.72	822.86	22.86	36.992	
5,100.00	5,063.06	5,044.18	5,033.16	12.31	11.22	152.67	-382.82	-189.72	860.47	837.11	23.36	36.843	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,143.09	5,131.83	12.57	11.46	152.67	-389.53	-190.56	875.22	851.37	23.85	36.693	
5,300.00	5,261.47	5,242.00	5,230.51	12.84	11.71	152.66	-396.24	-191.39	889.97	865.62	24.35	36.543	
5,400.00	5,360.68	5,340.90	5,329.18	13.11	11.95	152.66	-402.95	-192.23	904.72	879.86	24.86	36.393	
5,500.00	5,459.88	5,439.81	5,427.86	13.38	12.20	152.66	-409.66	-193.06	919.47	894.10	25.37	36.244	
5,600.00	5,559.09	5,538.71	5,526.53	13.65	12.45	152.66	-416.37	-193.90	934.22	908.34	25.88	36.097	
5,700.00	5,658.30	5,637.62	5,625.21	13.93	12.71	152.65	-423.08	-194.74	948.97	922.58	26.40	35.950	
5,800.00	5,757.50	5,736.53	5,723.88	14.20	12.96	152.65	-429.79	-195.57	963.72	936.81	26.92	35.805	
5,900.00	5,856.71	5,835.43	5,822.55	14.48	13.22	152.65	-436.50	-196.41	978.48	951.04	27.44	35.662	
6,000.00	5,955.92	5,934.34	5,921.23	14.76	13.47	152.65	-443.21	-197.24	993.23	965.26	27.96	35.520	
6,100.00	6,055.13	6,033.25	6,019.90	15.04	13.73	152.64	-449.92	-198.08	1,007.98	979.49	28.49	35.381	
6,200.00	6,154.33	6,132.15	6,118.58	15.32	13.99	152.64	-456.63	-198.91	1,022.73	993.71	29.02	35.244	
6,300.00	6,253.54	6,231.06	6,217.25	15.61	14.25	152.64	-463.34	-199.75	1,037.48	1,007.93	29.55	35.109	
6,400.00	6,352.75	7,872.02	7,169.10	15.89	21.59	99.17	-523.18	758.05	951.36	920.93	30.43	31.263	
6,500.00	6,451.95	7,884.60	7,169.10	16.17	21.73	97.70	-523.12	770.63	867.50	836.21	31.29	27.724	
6,600.00	6,551.74	7,889.32	7,169.10	16.37	21.79	-72.84	-523.09	775.35	786.60	754.38	32.22	24.413	
6,700.00	6,651.02	7,878.37	7,169.10	16.49	21.67	-96.65	-523.15	764.40	710.55	677.40	33.15	21.436	
6,800.00	6,747.36	7,852.04	7,169.09	16.57	21.37	-103.39	-523.28	738.07	642.47	608.44	34.03	18.880	
6,900.00	6,838.38	7,810.96	7,169.08	16.60	20.92	-105.92	-523.49	696.99	585.06	550.28	34.77	16.824	
7,000.00	6,921.84	7,756.15	7,169.06	16.62	20.34	-105.59	-523.76	642.18	540.11	504.81	35.30	15.299	
7,100.00	6,995.69	7,688.96	7,169.04	16.65	19.66	-103.23	-524.10	574.99	507.98	472.46	35.52	14.300	
7,200.00	7,058.11	7,611.05	7,169.02	16.73	18.93	-99.65	-524.49	497.08	487.30	451.85	35.45	13.744	
7,300.00	7,107.56	7,520.29	7,168.38	16.87	18.16	-95.47	-524.91	406.34	475.25	440.07	35.18	13.508	
7,400.00	7,142.82	7,421.14	7,156.35	17.11	17.44	-90.62	-524.59	308.02	467.58	432.69	34.88	13.404	
7,500.00	7,163.02	7,329.18	7,131.71	17.46	16.90	-85.80	-523.36	219.51	463.48	428.79	34.68	13.363	
7,560.53	7,168.33	7,276.60	7,111.99	17.74	16.68	-82.87	-522.27	170.80	462.77	428.13	34.64	13.360 SF	
7,600.00	7,168.04	7,242.97	7,097.29	17.92	16.58	-81.08	-521.42	140.57	462.89	428.27	34.62	13.372	
7,700.00	7,168.22	7,166.06	7,057.86	18.52	16.39	-76.18	-519.08	74.64	467.77	433.05	34.72	13.472	
7,800.00	7,168.40	7,100.00	7,017.86	19.24	16.26	-71.33	-516.62	22.15	481.24	446.29	34.95	13.767	
7,900.00	7,168.58	7,044.08	6,979.91	20.08	16.15	-66.91	-514.25	-18.83	505.08	469.82	35.26	14.324	
8,000.00	7,168.76	7,000.00	6,947.56	21.02	16.06	-63.30	-512.20	-48.69	539.81	504.22	35.59	15.167	
8,100.00	7,168.94	6,950.00	6,908.48	22.04	15.96	-59.18	-509.70	-79.75	584.85	549.01	35.84	16.319	
8,200.00	7,169.12	6,921.73	6,885.34	23.14	15.90	-56.87	-508.21	-95.92	638.87	602.77	36.10	17.699	
8,300.00	7,169.29	6,900.00	6,867.08	24.31	15.86	-55.12	-507.03	-107.64	700.65	664.35	36.29	19.305	
8,400.00	7,169.47	6,866.53	6,838.21	25.53	15.78	-52.47	-505.15	-124.45	768.51	732.10	36.41	21.106	
8,500.00	7,169.65	6,850.00	6,823.63	26.80	15.75	-51.19	-504.20	-132.19	841.56	805.05	36.51	23.050	
8,600.00	7,169.83	6,824.71	6,800.96	28.12	15.70	-49.28	-502.72	-143.28	918.61	882.04	36.57	25.117	
8,700.00	7,170.01	6,800.00	6,778.39	29.46	15.64	-47.46	-501.24	-153.24	999.06	962.44	36.62	27.281	
8,800.00	7,170.19	6,800.00	6,778.39	30.84	15.64	-47.46	-501.24	-153.24	1,082.14	1,045.50	36.64	29.535	
8,900.00	7,170.37	6,778.55	6,758.51	32.25	15.60	-45.93	-499.92	-161.17	1,167.34	1,130.67	36.67	31.836	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							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	-118.44	-80.88	-149.34	169.83					
100.00	100.00	101.00	101.00	3.28	3.28	-118.44	-80.88	-149.34	169.83	162.30	7.53	22.557		
200.00	200.00	201.00	201.00	3.31	3.31	-118.44	-80.88	-149.34	169.83	162.26	7.57	22.422	CC, ES	
300.00	299.98	297.68	297.66	3.35	3.34	148.86	-82.54	-149.50	172.30	164.64	7.65	22.509		
400.00	399.84	394.04	393.89	3.41	3.40	148.33	-87.42	-149.99	179.65	171.88	7.77	23.108		
500.00	499.45	508.87	490.66	3.50	3.50	147.57	-95.33	-150.79	191.74	183.78	7.96	24.088		
600.00	598.74	589.97	589.11	3.62	3.58	147.26	-103.99	-151.66	206.90	198.74	8.17	25.339		
700.00	697.94	688.73	687.49	3.76	3.71	147.17	-112.64	-152.53	222.60	214.18	8.42	26.436		
800.00	797.15	787.49	785.86	3.93	3.86	147.09	-121.28	-153.40	238.30	229.59	8.72	27.344		
900.00	896.36	886.25	884.24	4.12	4.02	147.02	-129.93	-154.27	254.00	244.96	9.05	28.082		
1,000.00	995.56	985.01	982.62	4.33	4.21	146.96	-138.58	-155.15	269.70	260.30	9.41	28.673		
1,100.00	1,094.77	1,083.77	1,080.99	4.56	4.40	146.91	-147.23	-156.02	285.41	275.61	9.79	29.140		
1,200.00	1,193.98	1,182.53	1,179.37	4.79	4.61	146.86	-155.88	-156.89	301.11	290.90	10.21	29.501		
1,300.00	1,293.19	1,281.29	1,277.74	5.04	4.83	146.81	-164.53	-157.76	316.81	306.17	10.64	29.776		
1,400.00	1,392.39	1,380.05	1,376.12	5.30	5.06	146.77	-173.18	-158.63	332.51	321.42	11.09	29.980		
1,500.00	1,491.60	1,478.81	1,474.50	5.56	5.29	146.74	-181.83	-159.50	348.21	336.66	11.56	30.128		
1,600.00	1,590.81	1,577.57	1,572.87	5.84	5.54	146.70	-190.48	-160.37	363.92	351.88	12.04	30.228		
1,700.00	1,690.01	1,676.32	1,671.25	6.12	5.79	146.67	-199.13	-161.24	379.62	367.09	12.53	30.292		
1,800.00	1,789.22	1,775.08	1,769.62	6.40	6.04	146.65	-207.78	-162.11	395.32	382.29	13.04	30.326		
1,900.00	1,888.43	1,873.84	1,868.00	6.55	6.21	146.62	-216.43	-162.99	411.02	398.07	12.95	31.730		
2,000.00	1,987.64	1,972.60	1,966.37	6.58	6.26	146.60	-225.08	-163.86	426.73	413.70	13.02	32.768		
2,100.00	2,086.84	2,071.36	2,064.75	6.63	6.29	146.57	-233.73	-164.73	442.43	429.34	13.09	33.808		
2,200.00	2,186.05	2,170.12	2,163.13	6.68	6.34	146.55	-242.38	-165.60	458.13	444.95	13.18	34.765		
2,300.00	2,285.26	2,268.88	2,261.50	6.75	6.40	146.53	-251.03	-166.47	473.84	460.54	13.30	35.636		
2,400.00	2,384.46	2,367.64	2,359.88	6.84	6.47	146.52	-259.68	-167.34	489.54	476.10	13.44	36.420		
2,500.00	2,483.67	2,466.40	2,458.25	6.94	6.55	146.50	-268.33	-168.21	505.24	491.63	13.61	37.118		
2,600.00	2,582.88	2,565.16	2,556.63	7.05	6.65	146.48	-276.98	-169.08	520.95	507.14	13.81	37.731		
2,700.00	2,682.09	2,663.92	2,655.01	7.17	6.76	146.47	-285.63	-169.95	536.65	522.62	14.03	38.263		
2,800.00	2,781.29	2,762.68	2,753.38	7.30	6.88	146.45	-294.28	-170.82	552.35	538.09	14.27	38.718		
2,900.00	2,880.50	2,861.44	2,851.76	7.45	7.01	146.44	-302.93	-171.70	568.05	553.53	14.53	39.101		
3,000.00	2,979.71	2,960.20	2,950.13	7.60	7.15	146.43	-311.57	-172.57	583.76	568.95	14.81	39.417		
3,100.00	3,078.91	3,058.95	3,048.51	7.76	7.30	146.42	-320.22	-173.44	599.46	584.35	15.11	39.672		
3,200.00	3,178.12	3,157.71	3,146.89	7.94	7.45	146.40	-328.87	-174.31	615.16	599.74	15.43	39.871		
3,300.00	3,277.33	3,256.47	3,245.26	8.12	7.62	146.39	-337.52	-175.18	630.87	615.10	15.76	40.020		
3,400.00	3,376.53	3,355.23	3,343.64	8.31	7.79	146.38	-346.17	-176.05	646.57	630.46	16.11	40.123		
3,500.00	3,475.74	3,453.99	3,442.01	8.50	7.98	146.37	-354.82	-176.92	662.27	645.79	16.48	40.187		
3,600.00	3,574.95	3,552.75	3,540.39	8.70	8.16	146.36	-363.47	-177.79	677.98	661.12	16.86	40.216		
3,700.00	3,674.16	3,651.51	3,638.77	8.91	8.36	146.36	-372.12	-178.66	693.68	676.43	17.25	40.214		
3,800.00	3,773.36	3,750.27	3,737.14	9.13	8.56	146.35	-380.77	-179.53	709.38	691.73	17.65	40.186		
3,900.00	3,872.57	3,849.03	3,835.52	9.35	8.76	146.34	-389.42	-180.41	725.09	707.02	18.07	40.134		
4,000.00	3,971.78	3,947.79	3,933.89	9.57	8.97	146.33	-398.07	-181.28	740.79	722.30	18.49	40.063		
4,100.00	4,070.98	4,046.55	4,032.27	9.80	9.19	146.32	-406.72	-182.15	756.49	737.57	18.92	39.975		
4,200.00	4,170.19	4,145.31	4,130.65	10.04	9.41	146.32	-415.37	-183.02	772.20	752.83	19.37	39.872		
4,300.00	4,269.40	4,244.07	4,229.02	10.28	9.63	146.31	-424.02	-183.89	787.90	768.08	19.82	39.758		
4,400.00	4,368.61	4,342.82	4,327.40	10.52	9.86	146.30	-432.67	-184.76	803.60	783.33	20.28	39.633		
4,500.00	4,467.81	4,441.58	4,425.77	10.77	10.09	146.30	-441.32	-185.63	819.31	798.57	20.74	39.501		
4,600.00	4,567.02	4,540.34	4,524.15	11.02	10.33	146.29	-449.97	-186.50	835.01	813.80	21.21	39.362		
4,700.00	4,666.23	4,639.10	4,622.52	11.27	10.56	146.28	-458.62	-187.37	850.72	829.02	21.69	39.217		
4,800.00	4,765.43	4,737.86	4,720.90	11.52	10.80	146.28	-467.27	-188.24	866.42	844.24	22.18	39.069		
4,900.00	4,864.64	4,836.62	4,819.28	11.78	11.05	146.27	-475.92	-189.12	882.12	859.46	22.67	38.918		
5,000.00	4,963.85	4,935.38	4,917.65	12.04	11.29	146.27	-484.57	-189.99	897.83	874.66	23.16	38.764		
5,100.00	5,063.06	5,034.14	5,016.03	12.31	11.54	146.26	-493.22	-190.86	913.53	889.87	23.66	38.610		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							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	5,162.26	5,132.90	5,114.40	12.57	11.79	146.26	-501.86	-191.73	929.23	905.07	24.16	38.454						
5,300.00	5,261.47	5,231.66	5,212.78	12.84	12.05	146.25	-510.51	-192.60	944.94	920.26	24.67	38.299						
5,400.00	5,360.68	5,330.42	5,311.16	13.11	12.30	146.25	-519.16	-193.47	960.64	935.46	25.19	38.143						
5,500.00	5,459.88	5,429.18	5,409.53	13.38	12.56	146.24	-527.81	-194.34	976.34	950.64	25.70	37.989						
5,600.00	5,559.09	5,527.94	5,507.91	13.65	12.81	146.24	-536.46	-195.21	992.05	965.83	26.22	37.835						
5,700.00	5,658.30	5,626.70	5,606.28	13.93	13.07	146.23	-545.11	-196.08	1,007.75	981.01	26.74	37.683						
5,800.00	5,757.50	5,725.45	5,704.66	14.20	13.34	146.23	-553.76	-196.95	1,023.45	996.19	27.27	37.532						
5,900.00	5,856.71	5,824.21	5,803.04	14.48	13.60	146.23	-562.41	-197.83	1,039.16	1,011.36	27.80	37.383						
6,000.00	5,955.92	5,922.97	5,901.41	14.76	13.86	146.22	-571.06	-198.70	1,054.86	1,026.53	28.33	37.237						
6,100.00	6,055.13	6,021.73	5,999.79	15.04	14.13	146.22	-579.71	-199.57	1,070.57	1,041.70	28.86	37.092						
6,200.00	6,154.33	6,120.49	6,098.16	15.32	14.39	146.22	-588.36	-200.44	1,086.27	1,056.87	29.40	36.949						
6,300.00	6,253.54	6,219.25	6,196.54	15.61	14.66	146.21	-597.01	-201.31	1,101.97	1,072.03	29.94	36.809						
6,400.00	6,352.75	7,937.39	7,234.55	15.89	21.93	97.94	-702.72	744.07	1,106.56	1,075.15	31.41	35.228						
6,500.00	6,451.95	7,950.12	7,234.57	16.17	22.07	96.83	-702.92	756.80	1,029.13	996.81	32.32	31.840						
6,600.00	6,551.74	7,955.00	7,234.58	16.37	22.13	-71.13	-702.99	761.67	955.02	921.77	33.25	28.723						
6,700.00	6,651.02	7,944.22	7,234.56	16.49	22.01	-93.44	-702.83	750.90	885.66	851.57	34.10	25.976						
6,800.00	6,747.36	7,918.07	7,234.52	16.57	21.72	-99.77	-702.43	724.75	823.57	788.76	34.81	23.659						
6,900.00	6,838.38	7,877.17	7,234.45	16.60	21.28	-102.73	-701.80	683.86	770.67	735.33	35.34	21.808						
7,000.00	6,921.84	7,822.55	7,234.35	16.62	20.72	-103.44	-700.97	629.24	728.02	692.39	35.63	20.433						
7,100.00	6,995.69	7,755.54	7,234.23	16.65	20.07	-102.57	-699.94	562.24	695.58	659.90	35.68	19.493						
7,200.00	7,058.11	7,677.79	7,234.10	16.73	19.37	-100.76	-698.75	484.50	672.25	636.72	35.53	18.919						
7,300.00	7,107.56	7,578.62	7,232.38	16.87	18.58	-98.08	-697.10	385.39	655.85	620.62	35.24	18.612						
7,400.00	7,142.82	7,464.23	7,214.11	17.11	17.86	-94.40	-693.79	272.67	641.80	606.83	34.97	18.353						
7,500.00	7,163.02	7,361.69	7,180.88	17.46	17.43	-90.79	-689.40	175.88	629.94	595.07	34.87	18.068						
7,600.00	7,168.04	7,268.28	7,137.49	17.92	17.18	-87.07	-684.33	93.40	620.85	585.93	34.92	17.780						
7,700.00	7,168.22	7,187.74	7,090.76	18.52	17.01	-82.68	-679.22	28.07	615.94	580.77	35.17	17.515						
7,724.98	7,168.26	7,169.87	7,079.30	18.70	16.97	-81.60	-678.01	14.42	615.70	580.44	35.27	17.458						
7,800.00	7,168.40	7,121.11	7,046.13	19.24	16.87	-78.48	-674.55	-21.14	618.04	582.46	35.58	17.372 SF						
7,900.00	7,168.58	7,066.19	7,005.66	20.08	16.76	-74.71	-670.43	-58.00	629.34	593.25	36.09	17.440						
8,000.00	7,168.76	7,020.79	6,969.90	21.02	16.66	-71.44	-666.86	-85.74	651.00	614.38	36.62	17.778						
8,100.00	7,168.94	6,982.98	6,938.68	22.04	16.58	-68.65	-663.79	-106.83	683.17	646.04	37.13	18.398						
8,200.00	7,169.12	6,950.00	6,910.47	23.14	16.51	-66.19	-661.05	-123.68	725.24	687.67	37.57	19.305						
8,300.00	7,169.29	6,924.28	6,887.89	24.31	16.45	-64.27	-658.88	-135.79	776.12	738.20	37.92	20.467						
8,400.00	7,169.47	6,900.00	6,866.13	25.53	16.40	-62.47	-656.80	-146.38	834.58	796.40	38.18	21.858						
8,500.00	7,169.65	6,881.33	6,849.15	26.80	16.36	-61.09	-655.19	-153.94	899.39	861.01	38.37	23.438						
8,600.00	7,169.83	6,864.01	6,833.19	28.12	16.32	-59.82	-653.69	-160.51	969.45	930.95	38.50	25.179						
8,700.00	7,170.01	6,850.00	6,820.15	29.46	16.29	-58.80	-652.47	-165.51	1,043.83	1,005.25	38.59	27.051						
8,800.00	7,170.19	6,835.40	6,806.46	30.84	16.25	-57.75	-651.19	-170.40	1,121.77	1,083.14	38.64	29.033						

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
0.00	0.00	0.00	0.00	3.28	3.28	179.20	-20.04	0.28	20.04					
100.00	100.00	100.00	100.00	3.28	3.28	179.20	-20.04	0.28	20.04	12.51	7.53	2.662		
200.00	200.00	200.00	200.00	3.31	3.31	179.20	-20.04	0.28	20.04	12.47	7.57	2.646	CC, ES	
300.00	299.98	299.77	299.75	3.35	3.35	86.96	-20.58	1.93	20.51	12.85	7.66	2.678		
400.00	399.84	399.53	399.37	3.41	3.41	87.67	-22.21	6.88	21.91	14.13	7.78	2.816		
500.00	499.45	499.26	498.71	3.50	3.50	88.66	-24.92	15.11	24.25	16.30	7.96	3.048		
600.00	598.74	600.96	597.77	3.62	3.62	89.61	-28.65	26.46	27.48	19.29	8.19	3.355		
700.00	697.94	701.02	696.90	3.76	3.76	90.21	-32.62	38.55	30.93	22.45	8.48	3.647		
800.00	797.15	801.08	796.02	3.93	3.93	90.68	-36.60	50.65	34.38	25.56	8.82	3.898		
900.00	896.36	901.14	895.15	4.12	4.13	91.07	-40.58	62.75	37.83	28.63	9.20	4.113		
1,000.00	995.56	1,001.20	994.28	4.33	4.34	91.39	-44.56	74.84	41.29	31.67	9.61	4.295		
1,100.00	1,094.77	1,101.26	1,093.40	4.56	4.56	91.66	-48.53	86.94	44.74	34.68	10.06	4.448		
1,200.00	1,193.98	1,201.32	1,192.53	4.79	4.80	91.90	-52.51	99.04	48.20	37.66	10.53	4.577		
1,300.00	1,293.19	1,301.38	1,291.65	5.04	5.06	92.10	-56.49	111.13	51.65	40.63	11.03	4.684		
1,400.00	1,392.39	1,401.44	1,390.78	5.30	5.32	92.28	-60.46	123.23	55.11	43.57	11.54	4.775		
1,500.00	1,491.60	1,501.50	1,489.90	5.56	5.59	92.43	-64.44	135.33	58.57	46.49	12.07	4.851		
1,600.00	1,590.81	1,598.44	1,589.03	5.84	5.86	92.57	-68.42	147.42	62.02	49.41	12.61	4.918		
1,700.00	1,690.01	1,701.62	1,688.15	6.12	6.15	92.70	-72.40	159.52	65.48	52.30	13.18	4.968		
1,800.00	1,789.22	1,801.68	1,787.28	6.40	6.44	92.81	-76.37	171.61	68.94	55.19	13.75	5.014		
1,900.00	1,888.43	1,901.74	1,886.41	6.55	6.59	92.91	-80.35	183.71	72.40	58.72	13.67	5.295		
2,000.00	1,987.64	2,001.80	1,985.53	6.58	6.62	93.00	-84.33	195.81	75.86	62.12	13.73	5.525		
2,100.00	2,086.84	2,101.86	2,084.66	6.63	6.66	93.09	-88.30	207.90	79.31	65.50	13.82	5.740		
2,200.00	2,186.05	2,201.92	2,183.78	6.68	6.72	93.16	-92.28	220.00	82.77	68.84	13.93	5.941		
2,300.00	2,285.26	2,301.98	2,282.91	6.75	6.80	93.23	-96.26	232.10	86.23	72.15	14.08	6.126		
2,400.00	2,384.46	2,402.04	2,382.03	6.84	6.88	93.30	-100.24	244.19	89.69	75.44	14.25	6.295		
2,500.00	2,483.67	2,502.10	2,481.16	6.94	6.98	93.36	-104.21	256.29	93.15	78.71	14.44	6.449		
2,600.00	2,582.88	2,602.16	2,580.29	7.05	7.10	93.42	-108.19	268.39	96.61	81.94	14.66	6.588		
2,700.00	2,682.09	2,702.22	2,679.41	7.17	7.22	93.47	-112.17	280.48	100.07	85.16	14.91	6.712		
2,800.00	2,781.29	2,802.28	2,778.54	7.30	7.36	93.52	-116.14	292.58	103.53	88.35	15.18	6.821		
2,900.00	2,880.50	2,902.34	2,877.66	7.45	7.50	93.56	-120.12	304.68	106.99	91.52	15.47	6.918		
3,000.00	2,979.71	3,002.40	2,976.79	7.60	7.66	93.60	-124.10	316.77	110.45	94.67	15.77	7.001		
3,100.00	3,078.91	3,102.46	3,075.91	7.76	7.83	93.64	-128.07	328.87	113.91	97.80	16.10	7.074		
3,200.00	3,178.12	3,202.52	3,175.04	7.94	8.00	93.68	-132.05	340.96	117.37	100.92	16.45	7.135		
3,300.00	3,277.33	3,297.42	3,274.16	8.12	8.18	93.72	-136.03	353.06	120.83	104.03	16.80	7.192		
3,400.00	3,376.53	3,397.36	3,373.29	8.31	8.37	93.75	-140.01	365.16	124.29	107.11	17.18	7.235		
3,500.00	3,475.74	3,502.70	3,472.42	8.50	8.58	93.78	-143.98	377.25	127.75	110.17	17.58	7.266		
3,600.00	3,574.95	3,602.76	3,571.54	8.70	8.78	93.81	-147.96	389.35	131.21	113.22	17.99	7.295		
3,700.00	3,674.16	3,702.82	3,670.67	8.91	8.99	93.84	-151.94	401.45	134.67	116.26	18.40	7.317		
3,800.00	3,773.36	3,802.88	3,769.79	9.13	9.21	93.87	-155.91	413.54	138.13	119.29	18.83	7.334		
3,900.00	3,872.57	3,902.94	3,868.92	9.35	9.44	93.89	-159.89	425.64	141.59	122.31	19.27	7.346		
4,000.00	3,971.78	4,003.00	3,968.04	9.57	9.67	93.92	-163.87	437.74	145.05	125.32	19.73	7.353		
4,100.00	4,070.98	4,103.06	4,067.17	9.80	9.90	93.94	-167.85	449.83	148.51	128.32	20.19	7.357		
4,200.00	4,170.19	4,203.12	4,166.29	10.04	10.14	93.97	-171.82	461.93	151.97	131.31	20.66	7.357		
4,300.00	4,269.40	4,303.18	4,265.42	10.28	10.38	93.99	-175.80	474.02	155.43	134.29	21.13	7.355		
4,400.00	4,368.61	4,403.24	4,364.55	10.52	10.63	94.01	-179.78	486.12	158.89	137.27	21.62	7.350		
4,500.00	4,467.81	4,503.30	4,463.67	10.77	10.88	94.03	-183.75	498.22	162.35	140.23	22.11	7.342		
4,600.00	4,567.02	4,603.36	4,562.80	11.02	11.13	94.05	-187.73	510.31	165.81	143.20	22.61	7.333		
4,700.00	4,666.23	4,703.42	4,661.92	11.27	11.38	94.06	-191.71	522.41	169.27	146.15	23.11	7.323		
4,800.00	4,765.43	4,803.48	4,761.05	11.52	11.64	94.08	-195.69	534.51	172.73	149.10	23.63	7.311		
4,900.00	4,864.64	4,903.54	4,860.17	11.78	11.91	94.10	-199.66	546.60	176.19	152.04	24.14	7.298		
5,000.00	4,963.85	5,003.60	4,959.30	12.04	12.17	94.11	-203.64	558.70	179.65	154.98	24.66	7.284		
5,100.00	5,063.06	5,103.66	5,058.43	12.31	12.44	94.13	-207.62	570.80	183.11	157.92	25.19	7.269		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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
5,200.00	5,162.26	5,203.72	5,157.55	12.57	12.71	94.14	-211.59	582.89	186.57	160.85	25.72	7.254	
5,300.00	5,261.47	5,303.78	5,256.68	12.84	12.98	94.16	-215.57	594.99	190.03	163.77	26.26	7.238	
5,400.00	5,360.68	5,403.84	5,355.80	13.11	13.25	94.17	-219.55	607.09	193.49	166.69	26.79	7.221	
5,500.00	5,459.88	5,503.90	5,454.93	13.38	13.53	94.18	-223.53	619.18	196.95	169.61	27.34	7.204	
5,600.00	5,559.09	5,603.96	5,554.05	13.65	13.80	94.20	-227.50	631.28	200.41	172.52	27.88	7.187	
5,700.00	5,658.30	5,704.02	5,653.18	13.93	14.08	94.21	-231.48	643.37	203.87	175.44	28.43	7.170	
5,800.00	5,757.50	5,804.08	5,752.30	14.20	14.36	94.22	-235.46	655.47	207.33	178.34	28.98	7.153	
5,900.00	5,856.71	5,904.14	5,851.43	14.48	14.64	94.23	-239.43	667.57	210.79	181.25	29.54	7.136	
6,000.00	5,955.92	6,004.20	5,950.56	14.76	14.93	94.24	-243.41	679.66	214.25	184.15	30.10	7.118	
6,100.00	6,055.13	6,104.26	6,049.68	15.04	15.21	94.25	-247.39	691.76	217.71	187.05	30.66	7.101	
6,200.00	6,154.33	6,204.32	6,148.81	15.32	15.50	94.27	-251.37	703.86	221.17	189.95	31.22	7.084	
6,300.00	6,253.54	6,295.62	6,247.93	15.61	15.76	94.28	-255.34	715.95	224.63	192.87	31.76	7.072	
6,400.00	6,352.75	6,404.44	6,347.06	15.89	16.07	94.29	-259.32	728.05	228.09	195.74	32.35	7.050	
6,500.00	6,451.95	6,504.50	6,446.18	16.17	16.36	94.28	-263.30	740.15	231.55	198.63	32.92	7.033	
6,600.00	6,551.74	6,604.93	6,544.94	16.37	16.65	-65.09	-267.26	752.20	233.90	200.53	33.37	7.010	
6,700.00	6,651.02	6,692.28	6,641.35	16.49	16.90	-84.95	-271.13	763.96	235.53	201.94	33.59	7.012	
6,800.00	6,747.36	6,789.75	6,738.49	16.57	17.11	-93.45	-275.01	769.71	239.84	206.22	33.62	7.134	
6,900.00	6,838.38	6,892.65	6,840.71	16.60	17.24	-100.87	-279.06	759.70	247.58	214.07	33.50	7.389	
7,000.00	6,921.84	7,001.80	6,945.86	16.62	17.33	-107.57	-283.18	731.24	258.06	224.79	33.26	7.758	
7,100.00	6,995.69	7,118.01	7,050.72	16.65	17.37	-113.54	-287.23	681.69	270.16	237.26	32.90	8.211	
7,200.00	7,058.11	7,241.88	7,150.60	16.73	17.40	-118.69	-291.04	608.86	282.49	249.99	32.50	8.692	
7,300.00	7,107.56	7,373.51	7,239.19	16.87	17.44	-122.99	-294.33	511.86	293.50	261.28	32.22	9.108	
7,400.00	7,142.82	7,512.27	7,308.92	17.11	17.56	-126.36	-296.82	392.24	301.70	269.38	32.33	9.333	
7,500.00	7,163.02	7,656.50	7,352.23	17.46	17.87	-128.75	-298.22	255.00	305.81	272.80	33.00	9.266	
7,600.00	7,168.04	7,795.42	7,364.02	17.92	18.41	-130.01	-298.35	116.83	304.94	270.79	34.15	8.929	
7,700.00	7,168.22	7,904.65	7,364.15	18.52	19.03	-130.48	-298.12	16.91	301.93	266.81	35.11	8.599	
7,800.00	7,168.40	7,995.27	7,364.28	19.24	19.66	-130.96	-297.88	-83.01	298.93	262.77	36.16	8.266	
7,900.00	7,168.58	8,104.81	7,364.40	20.08	20.56	-131.44	-297.65	-182.94	295.96	258.47	37.49	7.894	
8,000.00	7,168.76	8,204.88	7,364.53	21.02	21.49	-131.94	-297.42	-282.86	293.01	254.11	38.90	7.533	
8,100.00	7,168.94	8,304.96	7,364.66	22.04	22.51	-132.45	-297.18	-382.78	290.08	249.66	40.43	7.175	
8,200.00	7,169.12	8,405.03	7,364.79	23.14	23.60	-132.97	-296.95	-482.71	287.18	245.12	42.06	6.828	
8,300.00	7,169.29	8,505.11	7,364.92	24.31	24.76	-133.50	-296.71	-582.63	284.30	240.53	43.77	6.495	
8,400.00	7,169.47	8,605.19	7,365.04	25.53	25.98	-134.04	-296.48	-682.55	281.44	235.89	45.55	6.179	
8,500.00	7,169.65	8,705.26	7,365.17	26.80	27.24	-134.59	-296.24	-782.48	278.61	231.23	47.39	5.879	
8,600.00	7,169.83	8,805.34	7,365.30	28.12	28.55	-135.15	-296.01	-882.40	275.81	226.54	49.27	5.598	
8,700.00	7,170.01	8,905.42	7,365.43	29.46	29.89	-135.72	-295.77	-982.32	273.03	221.86	51.18	5.335	
8,800.00	7,170.19	9,005.49	7,365.56	30.84	31.26	-136.31	-295.54	-1,082.25	270.28	217.18	53.11	5.089	
8,900.00	7,170.37	9,105.57	7,365.68	32.25	32.67	-136.90	-295.30	-1,182.17	267.56	212.51	55.06	4.860	
9,000.00	7,170.55	9,205.64	7,365.81	33.68	34.09	-137.51	-295.07	-1,282.10	264.87	207.86	57.01	4.646	
9,100.00	7,170.73	9,305.72	7,365.94	35.13	35.54	-138.13	-294.83	-1,382.02	262.21	203.24	58.97	4.446	
9,200.00	7,170.91	9,405.80	7,366.07	36.60	37.01	-138.77	-294.60	-1,481.94	259.59	198.66	60.92	4.261	
9,300.00	7,171.09	9,505.87	7,366.20	38.09	38.49	-139.41	-294.36	-1,581.87	256.99	194.12	62.87	4.088	
9,400.00	7,171.27	9,605.95	7,366.32	39.59	39.99	-140.07	-294.13	-1,681.79	254.43	189.63	64.80	3.926	
9,500.00	7,171.45	9,706.03	7,366.45	41.10	41.50	-140.75	-293.89	-1,781.71	251.90	185.19	66.71	3.776	
9,600.00	7,171.63	9,806.10	7,366.58	42.62	43.03	-141.43	-293.66	-1,881.64	249.41	180.80	68.60	3.636	
9,700.00	7,171.80	9,906.13	7,366.71	44.17	44.56	-141.78	-293.42	-1,981.61	248.09	177.42	70.66	3.511	
9,800.00	7,171.98	10,006.13	7,366.84	45.71	46.10	-141.85	-293.19	-2,081.61	247.77	174.88	72.89	3.399	
9,900.00	7,172.16	10,106.13	7,366.96	47.27	47.65	-141.93	-292.95	-2,181.61	247.46	172.32	75.13	3.294	
10,000.00	7,172.34	10,206.13	7,367.09	48.83	49.21	-142.00	-292.71	-2,281.60	247.14	169.75	77.39	3.194	
10,100.00	7,172.52	10,306.13	7,367.22	50.41	50.78	-142.07	-292.48	-2,381.60	246.83	167.18	79.65	3.099	
10,200.00	7,172.70	10,406.13	7,367.35	51.98	52.35	-142.15	-292.24	-2,481.60	246.51	164.60	81.92	3.009	
10,300.00	7,172.88	10,506.13	7,367.48	53.57	53.93	-142.22	-292.01	-2,581.60	246.20	162.01	84.20	2.924	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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
10,400.00	7,173.06	10,606.13	7,367.61	55.15	55.52	-142.30	-291.77	-2,681.60	245.89	159.41	86.48	2.843	
10,500.00	7,173.24	10,706.14	7,367.73	56.75	57.11	-142.37	-291.54	-2,781.60	245.58	156.81	88.77	2.767	
10,600.00	7,173.42	10,806.14	7,367.86	58.34	58.70	-142.45	-291.30	-2,881.60	245.26	154.21	91.06	2.694	
10,700.00	7,173.60	10,906.14	7,367.99	59.94	60.30	-142.52	-291.07	-2,981.60	244.95	151.60	93.35	2.624	
10,800.00	7,173.78	11,006.14	7,368.12	61.55	61.90	-142.60	-290.83	-3,081.59	244.64	148.99	95.65	2.558	
10,900.00	7,173.95	11,106.14	7,368.25	63.16	63.51	-142.67	-290.60	-3,181.59	244.33	146.38	97.95	2.494	
11,000.00	7,174.13	11,206.14	7,368.37	64.77	65.12	-142.75	-290.36	-3,281.59	244.02	143.76	100.26	2.434	
11,100.00	7,174.31	11,306.14	7,368.50	66.38	66.73	-142.83	-290.13	-3,381.59	243.71	141.15	102.56	2.376	
11,200.00	7,174.49	11,406.14	7,368.63	68.00	68.34	-142.90	-289.89	-3,481.59	243.40	138.53	104.87	2.321	
11,300.00	7,174.67	11,506.14	7,368.76	69.62	69.96	-142.98	-289.66	-3,581.59	243.09	135.92	107.18	2.268	
11,400.00	7,174.85	11,606.15	7,368.89	71.24	71.58	-143.05	-289.42	-3,681.59	242.79	133.30	109.49	2.218	
11,500.00	7,175.03	11,706.15	7,369.02	72.87	73.20	-143.13	-289.19	-3,781.58	242.48	130.68	111.79	2.169	
11,600.00	7,175.21	11,806.15	7,369.14	74.50	74.83	-143.21	-288.95	-3,881.58	242.17	128.07	114.10	2.122	
11,700.00	7,175.39	11,906.15	7,369.27	76.12	76.46	-143.29	-288.72	-3,981.58	241.86	125.45	116.41	2.078	
11,800.00	7,175.57	12,006.15	7,369.40	77.75	78.08	-143.36	-288.48	-4,081.58	241.56	122.84	118.72	2.035	
11,900.00	7,175.75	12,106.15	7,369.53	79.39	79.72	-143.44	-288.25	-4,181.58	241.25	120.23	121.02	1.993	
12,000.00	7,175.93	12,206.15	7,369.66	81.02	81.35	-143.52	-288.01	-4,281.58	240.94	117.62	123.33	1.954	
12,100.00	7,176.11	12,306.15	7,369.78	82.66	82.98	-143.60	-287.78	-4,381.58	240.64	115.01	125.63	1.915	
12,200.00	7,176.28	12,406.15	7,369.91	84.29	84.62	-143.67	-287.54	-4,481.57	240.33	112.40	127.93	1.879	
12,300.00	7,176.46	12,506.15	7,370.04	85.93	86.25	-143.75	-287.31	-4,581.57	240.03	109.80	130.23	1.843	
12,400.00	7,176.64	12,606.16	7,370.17	87.57	87.89	-143.83	-287.07	-4,681.57	239.73	107.20	132.53	1.809	
12,500.00	7,176.82	12,706.16	7,370.30	89.21	89.53	-143.91	-286.84	-4,781.57	239.42	104.60	134.83	1.776	
12,600.00	7,177.00	12,806.16	7,370.43	90.85	91.17	-143.99	-286.60	-4,881.57	239.12	102.00	137.12	1.744	
12,700.00	7,177.18	12,906.16	7,370.55	92.49	92.81	-144.07	-286.37	-4,981.57	238.82	99.41	139.41	1.713	
12,800.00	7,177.36	13,006.16	7,370.68	94.14	94.45	-144.15	-286.13	-5,081.57	238.52	96.82	141.70	1.683	
12,900.00	7,177.54	13,106.16	7,370.81	95.78	96.10	-144.23	-285.90	-5,181.57	238.21	94.23	143.99	1.654	
13,000.00	7,177.72	13,193.84	7,370.94	97.43	97.54	-144.31	-285.66	-5,281.56	237.91	91.79	146.12	1.628	
13,100.00	7,177.90	13,306.16	7,371.07	99.07	99.39	-144.39	-285.42	-5,381.56	237.61	89.06	148.55	1.600	
13,200.00	7,178.08	13,406.16	7,371.19	100.72	101.03	-144.47	-285.19	-5,481.56	237.31	86.48	150.83	1.573	
13,300.00	7,178.26	13,506.16	7,371.32	102.37	102.68	-144.55	-284.95	-5,581.56	237.01	83.91	153.10	1.548	
13,400.00	7,178.43	13,606.17	7,371.45	104.02	104.33	-144.63	-284.72	-5,681.56	236.71	81.34	155.38	1.523	
13,500.00	7,178.61	13,706.17	7,371.58	105.67	105.98	-144.71	-284.48	-5,781.56	236.41	78.77	157.64	1.500 Level 3	
13,600.00	7,178.79	13,806.17	7,371.71	107.32	107.63	-144.79	-284.25	-5,881.56	236.11	76.20	159.91	1.477 Level 3	
13,700.00	7,178.97	13,906.17	7,371.83	108.97	109.28	-144.87	-284.01	-5,981.55	235.82	73.64	162.17	1.454 Level 3	
13,800.00	7,179.15	14,006.17	7,371.96	110.62	110.93	-144.95	-283.78	-6,081.55	235.52	71.09	164.43	1.432 Level 3	
13,900.00	7,179.33	14,106.17	7,372.09	112.27	112.58	-145.03	-283.54	-6,181.55	235.22	68.54	166.69	1.411 Level 3	
14,000.00	7,179.51	14,206.17	7,372.22	113.92	114.23	-145.11	-283.31	-6,281.55	234.93	65.99	168.94	1.391 Level 3	
14,100.00	7,179.69	14,306.17	7,372.35	115.58	115.88	-145.20	-283.07	-6,381.55	234.63	63.44	171.19	1.371 Level 3	
14,200.00	7,179.87	14,406.17	7,372.48	117.23	117.54	-145.28	-282.84	-6,481.55	234.33	60.90	173.43	1.351 Level 3	
14,300.00	7,180.05	14,506.17	7,372.60	118.88	119.19	-145.36	-282.60	-6,581.55	234.04	58.37	175.67	1.332 Level 3	
14,400.00	7,180.23	14,606.18	7,372.73	120.54	120.85	-145.44	-282.37	-6,681.55	233.74	55.84	177.91	1.314 Level 3	
14,500.00	7,180.41	14,693.82	7,372.86	122.19	122.30	-145.53	-282.13	-6,781.54	233.45	53.46	179.99	1.297 Level 3	
14,600.00	7,180.58	14,806.18	7,372.99	123.85	124.16	-145.61	-281.90	-6,881.54	233.16	50.79	182.37	1.278 Level 3	
14,700.00	7,180.76	14,893.82	7,373.12	125.50	125.61	-145.69	-281.66	-6,981.54	232.86	48.42	184.45	1.262 Level 3	
14,800.00	7,180.94	15,006.18	7,373.24	127.16	127.47	-145.78	-281.43	-7,081.54	232.57	45.76	186.81	1.245 Level 2	
14,900.00	7,181.12	15,106.18	7,373.37	128.82	129.12	-145.86	-281.19	-7,181.54	232.28	43.25	189.03	1.229 Level 2	
15,000.00	7,181.30	15,206.18	7,373.50	130.47	130.78	-145.94	-280.96	-7,281.54	231.99	40.74	191.24	1.213 Level 2	
15,100.00	7,181.48	15,306.18	7,373.63	132.13	132.44	-146.03	-280.72	-7,381.54	231.70	38.24	193.45	1.198 Level 2	
15,200.00	7,181.66	15,406.18	7,373.76	133.79	134.09	-146.11	-280.49	-7,481.53	231.41	35.75	195.66	1.183 Level 2	
15,300.00	7,181.84	15,493.82	7,373.89	135.45	135.55	-146.20	-280.25	-7,581.53	231.12	33.40	197.71	1.169 Level 2	
15,389.78	7,182.00	15,583.60	7,374.00	136.94	137.04	-146.27	-280.04	-7,671.32	230.86	31.17	199.68	1.156 Level 2, SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-40.07	0.28	40.07					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-40.07	0.28	40.07	32.54	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-40.07	0.28	40.07	32.50	7.57	5.291	CC	
300.00	299.98	299.51	299.49	3.35	3.35	87.25	-40.66	1.90	40.59	32.93	7.66	5.301		
400.00	399.84	399.01	398.85	3.41	3.41	87.68	-42.44	6.77	42.14	34.36	7.78	5.417		
500.00	499.45	498.47	497.93	3.50	3.50	88.33	-45.39	14.88	44.73	36.78	7.95	5.624		
600.00	598.74	602.07	596.65	3.62	3.62	88.85	-49.51	26.20	48.37	40.18	8.19	5.905		
700.00	697.94	702.15	695.64	3.76	3.77	88.51	-54.14	38.94	52.46	43.97	8.48	6.184		
800.00	797.15	802.24	794.64	3.93	3.94	88.23	-58.78	51.68	56.55	47.73	8.82	6.411		
900.00	896.36	902.32	893.63	4.12	4.14	87.98	-63.42	64.42	60.64	51.44	9.20	6.590		
1,000.00	995.56	1,002.41	992.62	4.33	4.36	87.76	-68.06	77.17	64.73	55.11	9.62	6.731		
1,100.00	1,094.77	1,097.51	1,091.61	4.56	4.58	87.57	-72.70	89.91	68.82	58.77	10.05	6.846		
1,200.00	1,193.98	1,202.57	1,190.60	4.79	4.84	87.40	-77.33	102.65	72.92	62.38	10.54	6.919		
1,300.00	1,293.19	1,302.66	1,289.59	5.04	5.10	87.25	-81.97	115.39	77.01	65.98	11.03	6.979		
1,400.00	1,392.39	1,402.74	1,388.58	5.30	5.37	87.11	-86.61	128.14	81.11	69.56	11.55	7.021		
1,500.00	1,491.60	1,497.17	1,487.58	5.56	5.63	86.99	-91.25	140.88	85.20	73.13	12.07	7.060		
1,600.00	1,590.81	1,602.91	1,586.57	5.84	5.93	86.88	-95.88	153.62	89.30	76.67	12.63	7.069		
1,700.00	1,690.01	1,703.00	1,685.56	6.12	6.22	86.78	-100.52	166.36	93.40	80.20	13.19	7.079		
1,800.00	1,789.22	1,803.08	1,784.55	6.40	6.52	86.68	-105.16	179.11	97.49	83.73	13.76	7.085		
1,900.00	1,888.43	1,903.16	1,883.54	6.55	6.68	86.60	-109.80	191.85	101.59	87.91	13.68	7.425		
2,000.00	1,987.64	2,003.25	1,982.53	6.58	6.71	86.52	-114.44	204.59	105.69	91.95	13.74	7.692		
2,100.00	2,086.84	2,103.33	2,081.53	6.63	6.75	86.44	-119.07	217.33	109.78	95.96	13.83	7.940		
2,200.00	2,186.05	2,203.42	2,180.52	6.68	6.81	86.38	-123.71	230.07	113.88	99.94	13.94	8.168		
2,300.00	2,285.26	2,303.50	2,279.51	6.75	6.89	86.31	-128.35	242.82	117.98	103.89	14.09	8.376		
2,400.00	2,384.46	2,403.58	2,378.50	6.84	6.98	86.25	-132.99	255.56	122.08	107.82	14.26	8.564		
2,500.00	2,483.67	2,503.67	2,477.49	6.94	7.08	86.20	-137.62	268.30	126.17	111.72	14.45	8.731		
2,600.00	2,582.88	2,603.75	2,576.48	7.05	7.20	86.15	-142.26	281.04	130.27	115.60	14.67	8.879		
2,700.00	2,682.09	2,703.84	2,675.47	7.17	7.33	86.10	-146.90	293.79	134.37	119.45	14.92	9.008		
2,800.00	2,781.29	2,803.92	2,774.47	7.30	7.47	86.05	-151.54	306.53	138.47	123.28	15.18	9.119		
2,900.00	2,880.50	2,904.00	2,873.46	7.45	7.62	86.01	-156.18	319.27	142.57	127.09	15.47	9.214		
3,000.00	2,979.71	3,004.09	2,972.45	7.60	7.78	85.97	-160.81	332.01	146.66	130.88	15.78	9.293		
3,100.00	3,078.91	3,104.17	3,071.44	7.76	7.95	85.93	-165.45	344.76	150.76	134.65	16.11	9.359		
3,200.00	3,178.12	3,204.26	3,170.43	7.94	8.13	85.89	-170.09	357.50	154.86	138.41	16.45	9.411		
3,300.00	3,277.33	3,304.34	3,269.42	8.12	8.32	85.86	-174.73	370.24	158.96	142.14	16.82	9.452		
3,400.00	3,376.53	3,404.42	3,368.41	8.31	8.52	85.83	-179.37	382.98	163.06	145.86	17.19	9.483		
3,500.00	3,475.74	3,504.51	3,467.41	8.50	8.72	85.80	-184.00	395.73	167.16	149.57	17.59	9.505		
3,600.00	3,574.95	3,604.59	3,566.40	8.70	8.93	85.77	-188.64	408.47	171.26	153.26	17.99	9.518		
3,700.00	3,674.16	3,704.68	3,665.39	8.91	9.15	85.74	-193.28	421.21	175.35	156.94	18.41	9.525		
3,800.00	3,773.36	3,804.76	3,764.38	9.13	9.37	85.71	-197.92	433.95	179.45	160.61	18.84	9.525		
3,900.00	3,872.57	3,904.84	3,863.37	9.35	9.60	85.68	-202.55	446.70	183.55	164.27	19.28	9.520		
4,000.00	3,971.78	4,004.93	3,962.36	9.57	9.83	85.66	-207.19	459.44	187.65	167.92	19.73	9.510		
4,100.00	4,070.98	4,105.01	4,061.35	9.80	10.07	85.64	-211.83	472.18	191.75	171.56	20.19	9.496		
4,200.00	4,170.19	4,205.10	4,160.35	10.04	10.31	85.61	-216.47	484.92	195.85	175.19	20.66	9.479		
4,300.00	4,269.40	4,305.18	4,259.34	10.28	10.56	85.59	-221.11	497.66	199.95	178.81	21.14	9.459		
4,400.00	4,368.61	4,405.27	4,358.33	10.52	10.81	85.57	-225.74	510.41	204.05	182.42	21.62	9.437		
4,500.00	4,467.81	4,505.35	4,457.32	10.77	11.07	85.55	-230.38	523.15	208.14	186.03	22.11	9.412		
4,600.00	4,567.02	4,594.57	4,556.31	11.02	11.30	85.53	-235.02	535.89	212.24	189.66	22.59	9.397		
4,700.00	4,666.23	4,705.52	4,655.30	11.27	11.59	85.51	-239.66	548.63	216.34	193.22	23.12	9.358		
4,800.00	4,765.43	4,805.60	4,754.30	11.52	11.85	85.50	-244.30	561.38	220.44	196.81	23.63	9.329		
4,900.00	4,864.64	4,905.69	4,853.29	11.78	12.12	85.48	-248.93	574.12	224.54	200.40	24.15	9.300		
5,000.00	4,963.85	5,005.77	4,952.28	12.04	12.39	85.46	-253.57	586.86	228.64	203.97	24.67	9.269		
5,100.00	5,063.06	5,105.85	5,051.27	12.31	12.66	85.45	-258.21	599.60	232.74	207.55	25.19	9.239		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,205.94	5,150.26	12.57	12.93	85.43	-262.85	612.35	236.84	211.12	25.72	9.207		
5,300.00	5,261.47	5,306.02	5,249.25	12.84	13.21	85.41	-267.48	625.09	240.94	214.68	26.26	9.176		
5,400.00	5,360.68	5,406.11	5,348.24	13.11	13.49	85.40	-272.12	637.83	245.04	218.24	26.80	9.145		
5,500.00	5,459.88	5,506.19	5,447.24	13.38	13.77	85.39	-276.76	650.57	249.14	221.80	27.34	9.113		
5,600.00	5,559.09	5,606.27	5,546.23	13.65	14.05	85.37	-281.40	663.32	253.23	225.35	27.88	9.082		
5,700.00	5,658.30	5,693.64	5,645.22	13.93	14.30	85.36	-286.04	676.06	257.33	228.94	28.40	9.062		
5,800.00	5,757.50	5,806.44	5,744.21	14.20	14.62	85.35	-290.67	688.80	261.43	232.45	28.98	9.020		
5,900.00	5,856.71	5,906.53	5,843.20	14.48	14.91	85.34	-295.31	701.54	265.53	235.99	29.54	8.989		
6,000.00	5,955.92	6,006.61	5,942.19	14.76	15.19	85.32	-299.95	714.28	269.63	239.53	30.10	8.959		
6,100.00	6,055.13	6,106.69	6,041.18	15.04	15.48	85.31	-304.59	727.03	273.73	243.07	30.66	8.929		
6,200.00	6,154.33	6,206.78	6,140.18	15.32	15.77	85.30	-309.23	739.77	277.83	246.61	31.22	8.899		
6,300.00	6,253.54	6,306.86	6,239.17	15.61	16.06	85.29	-313.86	752.51	281.93	250.14	31.78	8.870		
6,400.00	6,352.75	6,393.17	6,338.28	15.89	16.31	85.29	-318.51	765.23	286.03	253.72	32.31	8.853		
6,500.00	6,451.95	6,493.71	6,438.54	16.17	16.49	87.06	-323.18	768.96	289.94	257.11	32.83	8.831		
6,600.00	6,551.74	6,591.22	6,535.17	16.37	16.61	-67.11	-327.64	757.46	294.13	260.91	33.23	8.853		
6,700.00	6,651.02	6,686.44	6,626.76	16.49	16.68	-78.40	-331.83	732.11	298.53	265.08	33.45	8.925		
6,800.00	6,747.36	6,779.62	6,711.77	16.57	16.71	-76.80	-335.68	694.34	302.90	269.36	33.54	9.031		
6,900.00	6,838.38	6,871.03	6,788.94	16.60	16.72	-74.66	-339.14	645.63	306.96	273.43	33.53	9.156		
7,000.00	6,921.84	6,960.91	6,857.27	16.62	16.73	-72.62	-342.16	587.43	310.47	277.01	33.46	9.279		
7,100.00	6,995.69	7,049.50	6,915.96	16.65	16.76	-70.84	-344.71	521.20	313.17	279.77	33.40	9.376		
7,200.00	7,058.11	7,137.06	6,964.38	16.73	16.81	-69.39	-346.77	448.37	314.88	281.45	33.43	9.419		
7,300.00	7,107.56	7,223.79	7,002.08	16.87	16.92	-68.29	-348.31	370.35	315.43	281.81	33.61	9.385		
7,400.00	7,142.82	7,309.93	7,028.69	17.11	17.11	-67.56	-349.33	288.50	314.69	280.69	34.00	9.256		
7,500.00	7,163.02	7,395.69	7,043.99	17.46	17.39	-67.21	-349.82	204.18	312.62	278.00	34.62	9.030		
7,600.00	7,168.04	7,483.67	7,048.00	17.92	17.77	-67.14	-349.77	116.35	309.28	273.80	35.48	8.717		
7,700.00	7,168.22	7,583.59	7,048.01	18.52	18.36	-66.83	-349.50	16.43	305.72	269.09	36.64	8.345		
7,800.00	7,168.40	7,683.51	7,048.02	19.24	19.08	-66.50	-349.23	-83.49	302.17	264.17	38.01	7.950		
7,900.00	7,168.58	7,783.44	7,048.04	20.08	19.93	-66.17	-348.96	-183.42	298.63	259.06	39.58	7.546		
8,000.00	7,168.76	7,883.36	7,048.05	21.02	20.88	-65.84	-348.69	-283.34	295.10	253.79	41.31	7.143		
8,100.00	7,168.94	7,983.28	7,048.06	22.04	21.91	-65.49	-348.42	-383.26	291.58	248.39	43.20	6.750		
8,200.00	7,169.12	8,083.20	7,048.08	23.14	23.03	-65.13	-348.16	-483.18	288.08	242.87	45.21	6.372		
8,300.00	7,169.29	8,183.13	7,048.09	24.31	24.20	-64.77	-347.89	-583.10	284.58	237.26	47.32	6.014		
8,400.00	7,169.47	8,283.05	7,048.10	25.53	25.44	-64.40	-347.62	-683.03	281.09	231.57	49.52	5.676		
8,500.00	7,169.65	8,382.97	7,048.11	26.80	26.72	-64.02	-347.35	-782.95	277.62	225.82	51.80	5.359		
8,600.00	7,169.83	8,482.89	7,048.13	28.12	28.04	-63.62	-347.08	-882.87	274.16	220.02	54.14	5.064		
8,700.00	7,170.01	8,582.82	7,048.14	29.46	29.40	-63.22	-346.81	-982.79	270.71	214.18	56.53	4.789		
8,800.00	7,170.19	8,682.74	7,048.15	30.84	30.79	-62.81	-346.55	-1,082.71	267.28	208.32	58.96	4.533		
8,900.00	7,170.37	8,782.66	7,048.17	32.25	32.20	-62.39	-346.28	-1,182.64	263.86	202.44	61.42	4.296		
9,000.00	7,170.55	8,882.58	7,048.18	33.68	33.64	-61.95	-346.01	-1,282.56	260.45	196.55	63.91	4.076		
9,100.00	7,170.73	8,982.50	7,048.19	35.13	35.10	-61.51	-345.74	-1,382.48	257.06	190.65	66.41	3.871		
9,200.00	7,170.91	9,082.43	7,048.20	36.60	36.58	-61.05	-345.47	-1,482.40	253.69	184.76	68.93	3.681		
9,300.00	7,171.09	9,182.35	7,048.22	38.09	38.07	-60.58	-345.20	-1,582.32	250.33	178.88	71.45	3.504		
9,400.00	7,171.27	9,282.27	7,048.23	39.59	39.58	-60.10	-344.94	-1,682.25	246.99	173.02	73.98	3.339		
9,500.00	7,171.45	9,382.19	7,048.24	41.10	41.10	-59.61	-344.67	-1,782.17	243.67	167.17	76.50	3.185		
9,600.00	7,171.63	9,482.12	7,048.26	42.62	42.63	-59.10	-344.40	-1,882.09	240.37	161.35	79.02	3.042		
9,700.00	7,171.80	9,582.09	7,048.27	44.17	44.17	-58.83	-344.13	-1,982.06	238.66	157.03	81.63	2.924		
9,800.00	7,171.98	9,682.09	7,048.28	45.71	45.72	-58.73	-343.86	-2,082.06	238.34	153.99	84.35	2.826		
9,900.00	7,172.16	9,782.09	7,048.29	47.27	47.28	-58.64	-343.59	-2,182.06	238.02	150.94	87.07	2.734		
10,000.00	7,172.34	9,882.09	7,048.31	48.83	48.85	-58.54	-343.33	-2,282.06	237.70	147.89	89.81	2.647		
10,100.00	7,172.52	9,982.08	7,048.32	50.41	50.42	-58.45	-343.06	-2,382.06	237.37	144.82	92.55	2.565		
10,200.00	7,172.70	10,082.08	7,048.33	51.98	52.00	-58.36	-342.79	-2,482.05	237.05	141.75	95.31	2.487		
10,300.00	7,172.88	10,182.08	7,048.35	53.57	53.59	-58.26	-342.52	-2,582.05	236.73	138.67	98.06	2.414		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	7,173.06	10,282.08	7,048.36	55.15	55.18	-58.17	-342.25	-2,682.05	236.42	135.59	100.83	2.345	
10,500.00	7,173.24	10,382.08	7,048.37	56.75	56.77	-58.07	-341.98	-2,782.05	236.10	132.50	103.60	2.279	
10,600.00	7,173.42	10,482.08	7,048.38	58.34	58.37	-57.97	-341.71	-2,882.05	235.78	129.41	106.37	2.217	
10,700.00	7,173.60	10,582.08	7,048.40	59.94	59.97	-57.88	-341.45	-2,982.05	235.46	126.32	109.15	2.157	
10,800.00	7,173.78	10,682.08	7,048.41	61.55	61.58	-57.78	-341.18	-3,082.04	235.15	123.22	111.93	2.101	
10,900.00	7,173.95	10,782.07	7,048.42	63.16	63.19	-57.69	-340.91	-3,182.04	234.83	120.12	114.71	2.047	
11,000.00	7,174.13	10,882.07	7,048.44	64.77	64.80	-57.59	-340.64	-3,282.04	234.52	117.03	117.49	1.996	
11,100.00	7,174.31	10,982.07	7,048.45	66.38	66.42	-57.49	-340.37	-3,382.04	234.20	113.93	120.28	1.947	
11,200.00	7,174.49	11,082.07	7,048.46	68.00	68.04	-57.39	-340.10	-3,482.04	233.89	110.83	123.06	1.901	
11,300.00	7,174.67	11,182.07	7,048.47	69.62	69.66	-57.30	-339.83	-3,582.04	233.58	107.73	125.85	1.856	
11,400.00	7,174.85	11,282.07	7,048.49	71.24	71.29	-57.20	-339.57	-3,682.03	233.26	104.63	128.63	1.813	
11,500.00	7,175.03	11,382.07	7,048.50	72.87	72.91	-57.10	-339.30	-3,782.03	232.95	101.54	131.42	1.773	
11,600.00	7,175.21	11,482.06	7,048.51	74.50	74.54	-57.00	-339.03	-3,882.03	232.64	98.44	134.20	1.734	
11,700.00	7,175.39	11,582.06	7,048.53	76.12	76.17	-56.90	-338.76	-3,982.03	232.33	95.35	136.98	1.696	
11,800.00	7,175.57	11,682.06	7,048.54	77.75	77.80	-56.80	-338.49	-4,082.03	232.02	92.26	139.77	1.660	
11,900.00	7,175.75	11,782.06	7,048.55	79.39	79.44	-56.71	-338.22	-4,182.03	231.71	89.17	142.55	1.626	
12,000.00	7,175.93	11,882.06	7,048.56	81.02	81.07	-56.61	-337.96	-4,282.02	231.41	86.08	145.32	1.592	
12,100.00	7,176.11	11,982.06	7,048.58	82.66	82.71	-56.51	-337.69	-4,382.02	231.10	83.00	148.10	1.560	
12,200.00	7,176.28	12,082.06	7,048.59	84.29	84.34	-56.41	-337.42	-4,482.02	230.79	79.91	150.88	1.530	
12,300.00	7,176.46	12,182.06	7,048.60	85.93	85.98	-56.31	-337.15	-4,582.02	230.49	76.84	153.65	1.500	
12,400.00	7,176.64	12,282.05	7,048.62	87.57	87.62	-56.21	-336.88	-4,682.02	230.18	73.76	156.42	1.472 Level 3	
12,500.00	7,176.82	12,382.05	7,048.63	89.21	89.27	-56.11	-336.61	-4,782.02	229.88	70.69	159.19	1.444 Level 3	
12,600.00	7,177.00	12,482.05	7,048.64	90.85	90.91	-56.00	-336.34	-4,882.01	229.57	67.62	161.95	1.418 Level 3	
12,700.00	7,177.18	12,582.05	7,048.65	92.49	92.55	-55.90	-336.08	-4,982.01	229.27	64.56	164.71	1.392 Level 3	
12,800.00	7,177.36	12,682.05	7,048.67	94.14	94.20	-55.80	-335.81	-5,082.01	228.97	61.49	167.47	1.367 Level 3	
12,900.00	7,177.54	12,782.05	7,048.68	95.78	95.84	-55.70	-335.54	-5,182.01	228.67	58.44	170.23	1.343 Level 3	
13,000.00	7,177.72	12,882.05	7,048.69	97.43	97.49	-55.60	-335.27	-5,282.01	228.36	55.38	172.98	1.320 Level 3	
13,100.00	7,177.90	12,982.05	7,048.71	99.07	99.14	-55.49	-335.00	-5,382.01	228.06	52.34	175.73	1.298 Level 3	
13,200.00	7,178.08	13,082.04	7,048.72	100.72	100.78	-55.39	-334.73	-5,482.00	227.76	49.29	178.47	1.276 Level 3	
13,300.00	7,178.26	13,182.04	7,048.73	102.37	102.43	-55.29	-334.46	-5,582.00	227.47	46.25	181.21	1.255 Level 3	
13,400.00	7,178.43	13,282.04	7,048.74	104.02	104.08	-55.19	-334.20	-5,682.00	227.17	43.22	183.95	1.235 Level 2	
13,500.00	7,178.61	13,382.04	7,048.76	105.67	105.73	-55.08	-333.93	-5,782.00	226.87	40.18	186.69	1.215 Level 2	
13,600.00	7,178.79	13,482.04	7,048.77	107.32	107.38	-54.98	-333.66	-5,882.00	226.57	37.16	189.42	1.196 Level 2	
13,700.00	7,178.97	13,582.04	7,048.78	108.97	109.04	-54.88	-333.39	-5,982.00	226.28	34.14	192.14	1.178 Level 2	
13,800.00	7,179.15	13,682.04	7,048.80	110.62	110.69	-54.77	-333.12	-6,081.99	225.98	31.12	194.86	1.160 Level 2	
13,900.00	7,179.33	13,782.04	7,048.81	112.27	112.34	-54.67	-332.85	-6,181.99	225.69	28.11	197.58	1.142 Level 2	
14,000.00	7,179.51	13,882.03	7,048.82	113.92	114.00	-54.56	-332.59	-6,281.99	225.40	25.10	200.29	1.125 Level 2	
14,100.00	7,179.69	13,982.03	7,048.83	115.58	115.65	-54.46	-332.32	-6,381.99	225.10	22.10	203.00	1.109 Level 2	
14,200.00	7,179.87	14,082.03	7,048.85	117.23	117.30	-54.35	-332.05	-6,481.99	224.81	19.11	205.71	1.093 Level 2	
14,300.00	7,180.05	14,182.03	7,048.86	118.88	118.96	-54.25	-331.78	-6,581.99	224.52	16.11	208.40	1.077 Level 2	
14,400.00	7,180.23	14,282.03	7,048.87	120.54	120.61	-54.14	-331.51	-6,681.98	224.23	13.13	211.10	1.062 Level 2	
14,500.00	7,180.41	14,382.03	7,048.89	122.19	122.27	-54.03	-331.24	-6,781.98	223.94	10.15	213.79	1.047 Level 2	
14,600.00	7,180.58	14,482.03	7,048.90	123.85	123.93	-53.93	-330.97	-6,881.98	223.65	7.18	216.47	1.033 Level 2	
14,700.00	7,180.76	14,582.03	7,048.91	125.50	125.58	-53.82	-330.71	-6,981.98	223.36	4.21	219.15	1.019 Level 2	
14,800.00	7,180.94	14,682.02	7,048.92	127.16	127.24	-53.71	-330.44	-7,081.98	223.07	1.25	221.83	1.006 Level 2	
14,900.00	7,181.12	14,782.02	7,048.94	128.82	128.90	-53.61	-330.17	-7,181.98	222.79	-1.71	224.50	0.992 Level 1	
15,000.00	7,181.30	14,882.02	7,048.95	130.47	130.56	-53.50	-329.90	-7,281.97	222.50	-4.66	227.16	0.979 Level 1	
15,100.00	7,181.48	14,982.02	7,048.96	132.13	132.21	-53.39	-329.63	-7,381.97	222.22	-7.61	229.82	0.967 Level 1	
15,200.00	7,181.66	15,082.02	7,048.98	133.79	133.87	-53.28	-329.36	-7,481.97	221.93	-10.55	232.48	0.955 Level 1	
15,300.00	7,181.84	15,182.02	7,048.99	135.45	135.53	-53.17	-329.09	-7,581.97	221.65	-13.48	235.13	0.943 Level 1	
15,389.78	7,182.00	15,271.80	7,049.00	136.94	137.02	-53.08	-328.85	-7,671.75	221.40	-16.10	237.50	0.932 Level 1, ES, SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
0.00	0.00	0.00	0.00	3.28	3.28	0.00	20.03	0.00	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	0.00	20.03	0.00	20.03	12.50	7.53	2.660		
200.00	200.00	200.00	200.00	3.31	3.31	0.00	20.03	0.00	20.03	12.45	7.57	2.644	CC, ES	
300.00	299.98	299.87	299.85	3.35	3.35	-92.58	20.35	1.71	20.42	12.77	7.66	2.667		
400.00	399.84	399.73	399.57	3.41	3.41	-92.79	21.31	6.84	21.61	13.83	7.79	2.776		
500.00	499.45	499.57	499.03	3.50	3.51	-93.10	22.91	15.38	23.60	15.63	7.96	2.963		
600.00	598.74	600.55	598.18	3.62	3.63	-93.41	25.10	27.09	26.31	18.11	8.20	3.208		
700.00	697.94	700.60	697.35	3.76	3.77	-93.65	27.42	39.47	29.18	20.69	8.49	3.436		
800.00	797.15	799.36	796.51	3.93	3.94	-93.84	29.73	51.85	32.05	23.22	8.83	3.630		
900.00	896.36	900.68	895.67	4.12	4.13	-94.00	32.05	64.24	34.92	25.71	9.21	3.792		
1,000.00	995.56	1,000.72	994.83	4.33	4.33	-94.14	34.37	76.62	37.79	28.17	9.62	3.927		
1,100.00	1,094.77	1,100.76	1,093.99	4.56	4.56	-94.26	36.68	89.00	40.66	30.59	10.07	4.039		
1,200.00	1,193.98	1,200.80	1,193.15	4.79	4.79	-94.36	39.00	101.38	43.53	32.99	10.54	4.131		
1,300.00	1,293.19	1,300.84	1,292.32	5.04	5.04	-94.45	41.32	113.77	46.40	35.37	11.03	4.206		
1,400.00	1,392.39	1,400.88	1,391.48	5.30	5.30	-94.53	43.64	126.15	49.27	37.73	11.54	4.268		
1,500.00	1,491.60	1,500.93	1,490.64	5.56	5.56	-94.60	45.95	138.53	52.14	40.07	12.07	4.319		
1,600.00	1,590.81	1,600.97	1,589.80	5.84	5.83	-94.66	48.27	150.91	55.01	42.40	12.62	4.360		
1,700.00	1,690.01	1,701.01	1,688.96	6.12	6.11	-94.72	50.59	163.30	57.88	44.71	13.17	4.394		
1,800.00	1,789.22	1,801.05	1,788.13	6.40	6.39	-94.77	52.91	175.68	60.75	47.02	13.74	4.422		
1,900.00	1,888.43	1,901.09	1,887.29	6.55	6.54	-94.82	55.22	188.06	63.62	49.96	13.66	4.657		
2,000.00	1,987.64	2,001.13	1,986.45	6.58	6.57	-94.86	57.54	200.44	66.49	52.78	13.72	4.847		
2,100.00	2,086.84	2,101.17	2,085.61	6.63	6.62	-94.90	59.86	212.83	69.37	55.56	13.80	5.025		
2,200.00	2,186.05	2,201.21	2,184.77	6.68	6.67	-94.93	62.17	225.21	72.24	58.32	13.92	5.190		
2,300.00	2,285.26	2,301.26	2,283.93	6.75	6.74	-94.97	64.49	237.59	75.11	61.05	14.06	5.342		
2,400.00	2,384.46	2,401.30	2,383.10	6.84	6.83	-95.00	66.81	249.97	77.98	63.75	14.23	5.480		
2,500.00	2,483.67	2,501.34	2,482.26	6.94	6.92	-95.03	69.13	262.36	80.85	66.43	14.42	5.606		
2,600.00	2,582.88	2,601.38	2,581.42	7.05	7.03	-95.05	71.44	274.74	83.72	69.08	14.64	5.718		
2,700.00	2,682.09	2,701.42	2,680.58	7.17	7.16	-95.08	73.76	287.12	86.59	71.71	14.88	5.818		
2,800.00	2,781.29	2,801.46	2,779.74	7.30	7.29	-95.10	76.08	299.50	89.46	74.31	15.15	5.906		
2,900.00	2,880.50	2,901.50	2,878.91	7.45	7.43	-95.12	78.40	311.89	92.33	76.90	15.43	5.982		
3,000.00	2,979.71	3,001.54	2,978.07	7.60	7.58	-95.14	80.71	324.27	95.20	79.46	15.74	6.048		
3,100.00	3,078.91	3,101.59	3,077.23	7.76	7.75	-95.16	83.03	336.65	98.07	82.01	16.07	6.105		
3,200.00	3,178.12	3,201.63	3,176.39	7.94	7.92	-95.18	85.35	349.03	100.95	84.54	16.41	6.152		
3,300.00	3,277.33	3,301.67	3,275.55	8.12	8.10	-95.20	87.67	361.42	103.82	87.05	16.77	6.192		
3,400.00	3,376.53	3,401.71	3,374.71	8.31	8.28	-95.22	89.98	373.80	106.69	89.55	17.14	6.224		
3,500.00	3,475.74	3,501.75	3,473.88	8.50	8.48	-95.23	92.30	386.18	109.56	92.03	17.53	6.250		
3,600.00	3,574.95	3,601.79	3,573.04	8.70	8.68	-95.25	94.62	398.56	112.43	94.50	17.93	6.270		
3,700.00	3,674.16	3,701.83	3,672.20	8.91	8.89	-95.26	96.93	410.94	115.30	96.95	18.35	6.285		
3,800.00	3,773.36	3,801.87	3,771.36	9.13	9.10	-95.27	99.25	423.33	118.17	99.40	18.77	6.295		
3,900.00	3,872.57	3,901.92	3,870.52	9.35	9.32	-95.29	101.57	435.71	121.04	101.83	19.21	6.301		
4,000.00	3,971.78	4,001.96	3,969.69	9.57	9.54	-95.30	103.89	448.09	123.91	104.26	19.66	6.304		
4,100.00	4,070.98	4,102.00	4,068.85	9.80	9.77	-95.31	106.20	460.47	126.78	106.67	20.11	6.304		
4,200.00	4,170.19	4,202.04	4,168.01	10.04	10.00	-95.32	108.52	472.86	129.66	109.08	20.58	6.301		
4,300.00	4,269.40	4,302.08	4,267.17	10.28	10.24	-95.33	110.84	485.24	132.53	111.47	21.05	6.295		
4,400.00	4,368.61	4,402.12	4,366.33	10.52	10.48	-95.34	113.16	497.62	135.40	113.86	21.53	6.288		
4,500.00	4,467.81	4,502.16	4,465.49	10.77	10.73	-95.35	115.47	510.00	138.27	116.25	22.02	6.279		
4,600.00	4,567.02	4,602.20	4,564.66	11.02	10.97	-95.36	117.79	522.39	141.14	118.62	22.52	6.268		
4,700.00	4,666.23	4,702.25	4,663.82	11.27	11.23	-95.37	120.11	534.77	144.01	120.99	23.02	6.256		
4,800.00	4,765.43	4,802.29	4,762.98	11.52	11.48	-95.38	122.42	547.15	146.88	123.36	23.52	6.244		
4,900.00	4,864.64	4,902.33	4,862.14	11.78	11.74	-95.39	124.74	559.53	149.75	125.72	24.04	6.230		
5,000.00	4,963.85	5,002.37	4,961.30	12.04	11.99	-95.39	127.06	571.92	152.62	128.07	24.55	6.216		
5,100.00	5,063.06	5,102.41	5,060.47	12.31	12.26	-95.40	129.38	584.30	155.49	130.42	25.08	6.201		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,202.45	5,159.63	12.57	12.52	-95.41	131.69	596.68	158.37	132.76	25.60	6.185		
5,300.00	5,261.47	5,302.49	5,258.79	12.84	12.79	-95.42	134.01	609.06	161.24	135.10	26.13	6.170		
5,400.00	5,360.68	5,402.53	5,357.95	13.11	13.05	-95.42	136.33	621.45	164.11	137.44	26.67	6.154		
5,500.00	5,459.88	5,502.58	5,457.11	13.38	13.32	-95.43	138.65	633.83	166.98	139.77	27.21	6.137		
5,600.00	5,559.09	5,602.62	5,556.27	13.65	13.59	-95.44	140.96	646.21	169.85	142.10	27.75	6.121		
5,700.00	5,658.30	5,702.66	5,655.44	13.93	13.87	-95.44	143.28	658.59	172.72	144.43	28.29	6.104		
5,800.00	5,757.50	5,797.30	5,754.60	14.20	14.13	-95.45	145.60	670.98	175.59	146.76	28.83	6.091		
5,900.00	5,856.71	5,902.74	5,853.76	14.48	14.42	-95.45	147.92	683.36	178.46	149.07	29.39	6.071		
6,000.00	5,955.92	6,002.78	5,952.92	14.76	14.70	-95.46	150.23	695.74	181.33	151.39	29.95	6.055		
6,100.00	6,055.13	6,102.82	6,052.08	15.04	14.97	-95.46	152.55	708.12	184.20	153.70	30.50	6.039		
6,200.00	6,154.33	6,202.86	6,151.24	15.32	15.25	-95.47	154.87	720.51	187.08	156.01	31.06	6.023		
6,300.00	6,253.54	6,302.90	6,250.41	15.61	15.54	-95.47	157.18	732.89	189.95	158.32	31.62	6.006		
6,400.00	6,352.75	6,402.95	6,349.57	15.89	15.82	-95.48	159.50	745.27	192.82	160.63	32.19	5.991		
6,500.00	6,451.95	6,497.01	6,448.73	16.17	16.08	-95.50	161.82	757.65	195.69	162.95	32.74	5.978		
6,600.00	6,551.74	6,596.48	6,547.42	16.37	16.36	108.76	164.13	769.80	198.59	165.35	33.24	5.975		
6,700.00	6,651.02	6,696.00	6,646.79	16.49	16.53	97.60	166.46	772.07	202.56	168.98	33.57	6.034		
6,800.00	6,747.36	6,797.64	6,747.37	16.57	16.66	99.39	168.85	758.39	207.84	174.06	33.77	6.154		
6,900.00	6,838.38	6,901.50	6,846.55	16.60	16.73	101.71	171.23	728.07	214.20	180.34	33.86	6.326		
7,000.00	6,921.84	7,007.61	6,941.42	16.62	16.77	103.87	173.53	680.88	221.30	187.45	33.85	6.538		
7,100.00	6,995.69	7,115.93	7,028.83	16.65	16.80	105.66	175.69	617.14	228.78	194.98	33.80	6.769		
7,200.00	7,058.11	7,226.35	7,105.50	16.73	16.87	107.03	177.61	537.91	236.23	202.45	33.78	6.992		
7,300.00	7,107.56	7,338.61	7,168.25	16.87	17.01	107.94	179.22	445.00	243.28	209.36	33.92	7.173		
7,400.00	7,142.82	7,452.40	7,214.22	17.11	17.27	108.38	180.46	341.09	249.59	215.30	34.29	7.280		
7,500.00	7,163.02	7,567.25	7,241.15	17.46	17.69	108.37	181.25	229.61	254.88	219.92	34.96	7.290		
7,600.00	7,168.04	7,679.66	7,248.01	17.92	18.22	108.00	181.58	117.53	258.97	223.05	35.91	7.211		
7,700.00	7,168.22	7,779.58	7,248.06	18.52	18.83	107.72	181.73	17.61	262.56	225.47	37.09	7.079		
7,800.00	7,168.40	7,879.51	7,248.12	19.24	19.55	107.44	181.87	-82.32	266.16	227.66	38.50	6.914		
7,900.00	7,168.58	7,979.44	7,248.17	20.08	20.39	107.17	182.02	-182.25	269.77	229.64	40.12	6.723		
8,000.00	7,168.76	8,079.37	7,248.22	21.02	21.32	106.91	182.17	-282.17	273.38	231.43	41.94	6.518		
8,100.00	7,168.94	8,179.29	7,248.27	22.04	22.34	106.66	182.32	-382.10	276.99	233.06	43.93	6.305		
8,200.00	7,169.12	8,279.22	7,248.32	23.14	23.44	106.41	182.46	-482.03	280.62	234.55	46.07	6.091		
8,300.00	7,169.29	8,379.15	7,248.37	24.31	24.60	106.17	182.61	-581.95	284.24	235.91	48.34	5.880		
8,400.00	7,169.47	8,479.07	7,248.42	25.53	25.81	105.93	182.76	-681.88	287.88	237.16	50.72	5.676		
8,500.00	7,169.65	8,579.00	7,248.47	26.80	27.08	105.70	182.91	-781.81	291.51	238.32	53.20	5.480		
8,600.00	7,169.83	8,678.93	7,248.52	28.12	28.38	105.48	183.05	-881.73	295.16	239.39	55.76	5.293		
8,700.00	7,170.01	8,778.86	7,248.58	29.46	29.73	105.26	183.20	-981.66	298.80	240.40	58.40	5.117		
8,800.00	7,170.19	8,878.78	7,248.63	30.84	31.10	105.04	183.35	-1,081.59	302.45	241.35	61.10	4.950		
8,900.00	7,170.37	8,978.71	7,248.68	32.25	32.50	104.84	183.50	-1,181.52	306.11	242.24	63.86	4.793		
9,000.00	7,170.55	9,078.64	7,248.73	33.68	33.93	104.63	183.64	-1,281.44	309.77	243.09	66.67	4.646		
9,100.00	7,170.73	9,178.56	7,248.78	35.13	35.38	104.43	183.79	-1,381.37	313.43	243.90	69.53	4.508		
9,200.00	7,170.91	9,278.49	7,248.83	36.60	36.85	104.24	183.94	-1,481.30	317.09	244.67	72.43	4.378		
9,300.00	7,171.09	9,378.42	7,248.88	38.09	38.33	104.05	184.09	-1,581.22	320.76	245.41	75.36	4.257		
9,400.00	7,171.27	9,478.34	7,248.93	39.59	39.83	103.86	184.23	-1,681.15	324.44	246.12	78.32	4.143		
9,500.00	7,171.45	9,578.27	7,248.99	41.10	41.34	103.68	184.38	-1,781.08	328.11	246.80	81.31	4.035		
9,600.00	7,171.63	9,678.20	7,249.04	42.62	42.86	103.50	184.53	-1,881.00	331.79	247.47	84.32	3.935		
9,700.00	7,171.80	9,778.17	7,249.09	44.17	44.40	103.39	184.67	-1,980.98	333.68	246.32	87.35	3.820		
9,800.00	7,171.98	9,878.17	7,249.14	45.71	45.94	103.36	184.82	-2,080.98	334.00	243.61	90.39	3.695		
9,900.00	7,172.16	9,978.17	7,249.19	47.27	47.50	103.32	184.97	-2,180.98	334.31	240.88	93.44	3.578		
10,000.00	7,172.34	10,078.17	7,249.24	48.83	49.06	103.29	185.12	-2,280.98	334.63	238.13	96.50	3.468		
10,100.00	7,172.52	10,178.17	7,249.29	50.41	50.63	103.25	185.26	-2,380.98	334.95	235.36	99.59	3.363		
10,200.00	7,172.70	10,278.17	7,249.34	51.98	52.20	103.22	185.41	-2,480.98	335.27	232.59	102.68	3.265		
10,300.00	7,172.88	10,378.17	7,249.39	53.57	53.78	103.18	185.56	-2,580.97	335.59	229.80	105.79	3.172		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	7,173.06	10,478.17	7,249.45	55.15	55.37	103.14	185.71	-2,680.97	335.91	227.00	108.90	3.084		
10,500.00	7,173.24	10,578.17	7,249.50	56.75	56.96	103.11	185.85	-2,780.97	336.23	224.19	112.03	3.001		
10,600.00	7,173.42	10,678.17	7,249.55	58.34	58.55	103.07	186.00	-2,880.97	336.54	221.37	115.17	2.922		
10,700.00	7,173.60	10,778.17	7,249.60	59.94	60.15	103.04	186.15	-2,980.97	336.86	218.55	118.32	2.847		
10,800.00	7,173.78	10,878.17	7,249.65	61.55	61.76	103.00	186.30	-3,080.97	337.18	215.71	121.47	2.776		
10,900.00	7,173.95	10,978.17	7,249.70	63.16	63.36	102.97	186.44	-3,180.97	337.50	212.87	124.63	2.708		
11,000.00	7,174.13	11,078.16	7,249.75	64.77	64.97	102.94	186.59	-3,280.97	337.82	210.02	127.80	2.643		
11,100.00	7,174.31	11,178.16	7,249.80	66.38	66.59	102.90	186.74	-3,380.97	338.14	207.16	130.98	2.582		
11,200.00	7,174.49	11,278.16	7,249.86	68.00	68.20	102.87	186.89	-3,480.97	338.46	204.30	134.16	2.523		
11,300.00	7,174.67	11,378.16	7,249.91	69.62	69.82	102.83	187.03	-3,580.97	338.78	201.44	137.34	2.467		
11,400.00	7,174.85	11,478.16	7,249.96	71.24	71.44	102.80	187.18	-3,680.97	339.10	198.56	140.54	2.413		
11,500.00	7,175.03	11,578.16	7,250.01	72.87	73.07	102.76	187.33	-3,780.96	339.42	195.69	143.73	2.361		
11,600.00	7,175.21	11,678.16	7,250.06	74.50	74.69	102.73	187.48	-3,880.96	339.74	192.80	146.94	2.312		
11,700.00	7,175.39	11,778.16	7,250.11	76.12	76.32	102.69	187.62	-3,980.96	340.06	189.92	150.14	2.265		
11,800.00	7,175.57	11,878.16	7,250.16	77.75	77.95	102.66	187.77	-4,080.96	340.38	187.03	153.35	2.220		
11,900.00	7,175.75	11,978.16	7,250.21	79.39	79.58	102.63	187.92	-4,180.96	340.70	184.13	156.57	2.176		
12,000.00	7,175.93	12,078.16	7,250.26	81.02	81.21	102.59	188.07	-4,280.96	341.02	181.23	159.79	2.134		
12,100.00	7,176.11	12,178.16	7,250.32	82.66	82.85	102.56	188.21	-4,380.96	341.34	178.33	163.01	2.094		
12,200.00	7,176.28	12,278.16	7,250.37	84.29	84.48	102.52	188.36	-4,480.96	341.66	175.43	166.24	2.055		
12,300.00	7,176.46	12,378.16	7,250.42	85.93	86.12	102.49	188.51	-4,580.96	341.98	172.52	169.47	2.018		
12,400.00	7,176.64	12,478.15	7,250.47	87.57	87.76	102.46	188.66	-4,680.96	342.30	169.61	172.70	1.982		
12,500.00	7,176.82	12,578.15	7,250.52	89.21	89.40	102.42	188.80	-4,780.96	342.63	166.69	175.93	1.947		
12,600.00	7,177.00	12,678.15	7,250.57	90.85	91.04	102.39	188.95	-4,880.96	342.95	163.78	179.17	1.914		
12,700.00	7,177.18	12,778.15	7,250.62	92.49	92.68	102.35	189.10	-4,980.95	343.27	160.86	182.41	1.882		
12,800.00	7,177.36	12,878.15	7,250.67	94.14	94.33	102.32	189.25	-5,080.95	343.59	157.93	185.66	1.851		
12,900.00	7,177.54	12,978.15	7,250.73	95.78	95.97	102.29	189.39	-5,180.95	343.91	155.01	188.90	1.821		
13,000.00	7,177.72	13,078.15	7,250.78	97.43	97.61	102.25	189.54	-5,280.95	344.23	152.08	192.15	1.791		
13,100.00	7,177.90	13,178.15	7,250.83	99.07	99.26	102.22	189.69	-5,380.95	344.56	149.15	195.40	1.763		
13,200.00	7,178.08	13,278.15	7,250.88	100.72	100.91	102.19	189.84	-5,480.95	344.88	146.22	198.65	1.736		
13,300.00	7,178.26	13,378.15	7,250.93	102.37	102.56	102.15	189.98	-5,580.95	345.20	143.29	201.91	1.710		
13,400.00	7,178.43	13,478.15	7,250.98	104.02	104.20	102.12	190.13	-5,680.95	345.52	140.36	205.17	1.684		
13,500.00	7,178.61	13,578.15	7,251.03	105.67	105.85	102.09	190.28	-5,780.95	345.84	137.42	208.42	1.659		
13,600.00	7,178.79	13,678.15	7,251.08	107.32	107.50	102.05	190.43	-5,880.95	346.17	134.48	211.69	1.635		
13,700.00	7,178.97	13,778.15	7,251.13	108.97	109.15	102.02	190.57	-5,980.95	346.49	131.54	214.95	1.612		
13,800.00	7,179.15	13,878.14	7,251.19	110.62	110.80	101.99	190.72	-6,080.95	346.81	128.60	218.21	1.589		
13,900.00	7,179.33	13,978.14	7,251.24	112.27	112.46	101.96	190.87	-6,180.94	347.14	125.66	221.48	1.567		
14,000.00	7,179.51	14,078.14	7,251.29	113.92	114.11	101.92	191.02	-6,280.94	347.46	122.71	224.75	1.546		
14,100.00	7,179.69	14,178.14	7,251.34	115.58	115.76	101.89	191.16	-6,380.94	347.78	119.77	228.02	1.525		
14,200.00	7,179.87	14,278.14	7,251.39	117.23	117.41	101.86	191.31	-6,480.94	348.10	116.82	231.29	1.505		
14,300.00	7,180.05	14,378.14	7,251.44	118.88	119.07	101.82	191.46	-6,580.94	348.43	113.87	234.56	1.485 Level 3		
14,400.00	7,180.23	14,478.14	7,251.49	120.54	120.72	101.79	191.61	-6,680.94	348.75	110.92	237.83	1.466 Level 3		
14,500.00	7,180.41	14,578.14	7,251.54	122.19	122.38	101.76	191.75	-6,780.94	349.07	107.97	241.11	1.448 Level 3		
14,600.00	7,180.58	14,678.14	7,251.60	123.85	124.03	101.73	191.90	-6,880.94	349.40	105.01	244.38	1.430 Level 3		
14,700.00	7,180.76	14,778.14	7,251.65	125.50	125.69	101.69	192.05	-6,980.94	349.72	102.06	247.66	1.412 Level 3		
14,800.00	7,180.94	14,878.14	7,251.70	127.16	127.35	101.66	192.20	-7,080.94	350.05	99.10	250.94	1.395 Level 3		
14,900.00	7,181.12	14,978.14	7,251.75	128.82	129.00	101.63	192.34	-7,180.94	350.37	96.15	254.22	1.378 Level 3		
15,000.00	7,181.30	15,078.14	7,251.80	130.47	130.66	101.60	192.49	-7,280.93	350.69	93.19	257.50	1.362 Level 3		
15,100.00	7,181.48	15,178.14	7,251.85	132.13	132.32	101.57	192.64	-7,380.93	351.02	90.23	260.79	1.346 Level 3		
15,200.00	7,181.66	15,278.13	7,251.90	133.79	133.97	101.53	192.79	-7,480.93	351.34	87.27	264.07	1.330 Level 3		
15,300.00	7,181.84	15,378.13	7,251.95	135.45	135.63	101.50	192.93	-7,580.93	351.67	84.31	267.36	1.315 Level 3		
15,389.78	7,182.00	15,467.92	7,252.00	136.94	137.12	101.47	193.07	-7,670.72	351.96	81.65	270.31	1.302 Level 3, SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	179.60	-119.86	0.84	119.86				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-119.86	0.84	119.86	112.34	7.53	15.921	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-119.86	0.84	119.86	112.29	7.57	15.826	CC, ES
300.00	299.98	296.69	296.67	3.35	3.34	87.42	-121.18	1.80	121.15	113.50	7.65	15.830	
400.00	399.84	393.26	393.11	3.41	3.40	88.34	-125.13	4.68	125.02	117.26	7.77	16.097	
500.00	499.45	489.58	489.09	3.50	3.48	89.75	-131.68	9.45	131.55	123.62	7.93	16.597	
600.00	598.74	585.54	584.38	3.62	3.59	91.45	-140.79	16.10	140.79	132.66	8.14	17.303	
700.00	697.94	681.12	678.86	3.76	3.73	92.46	-152.43	24.58	152.67	144.28	8.40	18.180	
800.00	797.15	776.12	772.25	3.93	3.91	92.59	-166.51	34.85	167.04	158.34	8.71	19.189	
900.00	896.36	874.23	868.29	4.12	4.13	92.26	-182.69	46.65	182.97	173.89	9.08	20.157	
1,000.00	995.56	972.95	964.92	4.33	4.39	91.98	-199.01	58.55	198.93	189.44	9.49	20.952	
1,100.00	1,094.77	1,071.66	1,061.55	4.56	4.68	91.74	-215.32	70.44	214.89	204.95	9.95	21.605	
1,200.00	1,193.98	1,170.37	1,158.17	4.79	4.98	91.53	-231.63	82.34	230.86	220.43	10.43	22.138	
1,300.00	1,293.19	1,269.09	1,254.80	5.04	5.30	91.35	-247.94	94.23	246.83	235.89	10.94	22.572	
1,400.00	1,392.39	1,367.80	1,351.43	5.30	5.64	91.19	-264.25	106.12	262.80	251.33	11.46	22.924	
1,500.00	1,491.60	1,466.52	1,448.06	5.56	5.98	91.05	-280.56	118.02	278.77	266.76	12.01	23.210	
1,600.00	1,590.81	1,565.23	1,544.69	5.84	6.34	90.92	-296.87	129.91	294.74	282.17	12.57	23.440	
1,700.00	1,690.01	1,663.94	1,641.31	6.12	6.71	90.81	-313.18	141.81	310.72	297.57	13.15	23.627	
1,800.00	1,789.22	1,762.66	1,737.94	6.40	7.08	90.71	-329.49	153.70	326.69	312.95	13.74	23.777	
1,900.00	1,888.43	1,861.37	1,834.57	6.55	7.35	90.61	-345.80	165.59	342.67	328.94	13.73	24.955	
2,000.00	1,987.64	1,960.09	1,931.20	6.58	7.46	90.53	-362.11	177.49	358.65	344.80	13.84	25.907	
2,100.00	2,086.84	2,058.80	2,027.82	6.63	7.52	90.45	-378.42	189.38	374.63	360.70	13.93	26.900	
2,200.00	2,186.05	2,157.51	2,124.45	6.68	7.60	90.38	-394.73	201.28	390.61	376.56	14.04	27.820	
2,300.00	2,285.26	2,256.23	2,221.08	6.75	7.69	90.32	-411.04	213.17	406.58	392.40	14.18	28.665	
2,400.00	2,384.46	2,354.94	2,317.71	6.84	7.80	90.26	-427.35	225.06	422.56	408.21	14.36	29.434	
2,500.00	2,483.67	2,453.66	2,414.34	6.94	7.93	90.20	-443.66	236.96	438.54	423.99	14.56	30.127	
2,600.00	2,582.88	2,552.37	2,510.96	7.05	8.07	90.15	-459.98	248.85	454.53	439.74	14.78	30.745	
2,700.00	2,682.09	2,651.08	2,607.59	7.17	8.23	90.10	-476.29	260.74	470.51	455.47	15.04	31.293	
2,800.00	2,781.29	2,749.80	2,704.22	7.30	8.40	90.06	-492.60	272.64	486.49	471.18	15.31	31.772	
2,900.00	2,880.50	2,848.51	2,800.85	7.45	8.58	90.01	-508.91	284.53	502.47	486.86	15.61	32.187	
3,000.00	2,979.71	2,947.23	2,897.48	7.60	8.77	89.98	-525.22	296.43	518.45	502.52	15.93	32.543	
3,100.00	3,078.91	3,045.94	2,994.10	7.76	8.98	89.94	-541.53	308.32	534.43	518.16	16.27	32.845	
3,200.00	3,178.12	3,144.65	3,090.73	7.94	9.19	89.90	-557.84	320.21	550.42	533.79	16.63	33.096	
3,300.00	3,277.33	3,243.37	3,187.36	8.12	9.42	89.87	-574.15	332.11	566.40	549.39	17.01	33.303	
3,400.00	3,376.53	3,342.08	3,283.99	8.31	9.65	89.84	-590.46	344.00	582.38	564.98	17.40	33.469	
3,500.00	3,475.74	3,440.80	3,380.62	8.50	9.89	89.81	-606.77	355.90	598.36	580.56	17.81	33.599	
3,600.00	3,574.95	3,539.51	3,477.24	8.70	10.14	89.78	-623.08	367.79	614.35	596.12	18.23	33.697	
3,700.00	3,674.16	3,638.22	3,573.87	8.91	10.40	89.75	-639.39	379.68	630.33	611.66	18.67	33.767	
3,800.00	3,773.36	3,736.94	3,670.50	9.13	10.67	89.73	-655.70	391.58	646.31	627.20	19.12	33.811	
3,900.00	3,872.57	3,835.65	3,767.13	9.35	10.94	89.70	-672.01	403.47	662.30	642.72	19.57	33.834	
4,000.00	3,971.78	3,934.37	3,863.76	9.57	11.21	89.68	-688.32	415.37	678.28	658.24	20.04	33.838	
4,100.00	4,070.98	4,033.08	3,960.38	9.80	11.49	89.66	-704.63	427.26	694.26	673.74	20.52	33.826	
4,200.00	4,170.19	4,131.79	4,057.01	10.04	11.78	89.64	-720.94	439.15	710.25	689.23	21.01	33.799	
4,300.00	4,269.40	4,230.51	4,153.64	10.28	12.07	89.62	-737.26	451.05	726.23	704.72	21.51	33.761	
4,400.00	4,368.61	4,329.22	4,250.27	10.52	12.37	89.60	-753.57	462.94	742.22	720.20	22.02	33.711	
4,500.00	4,467.81	4,427.94	4,346.90	10.77	12.67	89.58	-769.88	474.83	758.20	735.67	22.53	33.654	
4,600.00	4,567.02	4,526.65	4,443.52	11.02	12.97	89.56	-786.19	486.73	774.18	751.13	23.05	33.588	
4,700.00	4,666.23	4,625.36	4,540.15	11.27	13.27	89.55	-802.50	498.62	790.17	766.59	23.58	33.517	
4,800.00	4,765.43	4,724.08	4,636.78	11.52	13.58	89.53	-818.81	510.52	806.15	782.04	24.11	33.440	
4,900.00	4,864.64	4,822.79	4,733.41	11.78	13.90	89.51	-835.12	522.41	822.14	797.49	24.65	33.359	
5,000.00	4,963.85	4,921.51	4,830.03	12.04	14.21	89.50	-851.43	534.30	838.12	812.93	25.19	33.274	
5,100.00	5,063.06	5,020.22	4,926.66	12.31	14.53	89.49	-867.74	546.20	854.10	828.37	25.74	33.187	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
5,200.00	5,162.26	5,118.93	5,023.29	12.57	14.85	89.47	-884.05	558.09	870.09	843.80	26.29	33.097		
5,300.00	5,261.47	5,217.65	5,119.92	12.84	15.17	89.46	-900.36	569.99	886.07	859.23	26.85	33.006		
5,400.00	5,360.68	5,316.36	5,216.55	13.11	15.50	89.45	-916.67	581.88	902.06	874.65	27.41	32.914		
5,500.00	5,459.88	5,415.08	5,313.17	13.38	15.83	89.43	-932.98	593.77	918.04	890.07	27.97	32.821		
5,600.00	5,559.09	5,513.79	5,409.80	13.65	16.15	89.42	-949.29	605.67	934.03	905.49	28.54	32.728		
5,700.00	5,658.30	5,612.50	5,506.43	13.93	16.49	89.41	-965.60	617.56	950.01	920.90	29.11	32.635		
5,800.00	5,757.50	5,711.22	5,603.06	14.20	16.82	89.40	-981.91	629.46	966.00	936.31	29.69	32.541		
5,900.00	5,856.71	5,809.93	5,699.69	14.48	17.15	89.39	-998.22	641.35	981.98	951.72	30.26	32.448		
6,000.00	5,955.92	5,908.65	5,796.31	14.76	17.49	89.38	-1,014.54	653.24	997.97	967.12	30.84	32.356		
6,100.00	6,055.13	6,007.36	5,892.94	15.04	17.82	89.37	-1,030.85	665.14	1,013.95	982.52	31.43	32.264		
6,200.00	6,154.33	6,106.07	5,989.57	15.32	18.16	89.36	-1,047.16	677.03	1,029.94	997.92	32.01	32.173		
6,300.00	6,253.54	6,204.79	6,086.20	15.61	18.50	89.35	-1,063.47	688.92	1,045.92	1,013.32	32.60	32.083		
6,400.00	6,352.75	6,303.50	6,182.83	15.89	18.84	89.34	-1,079.78	700.82	1,061.90	1,028.71	33.19	31.994		
6,500.00	6,451.95	6,402.22	6,279.45	16.17	19.18	89.32	-1,096.09	712.71	1,077.89	1,044.11	33.78	31.906		
6,600.00	6,551.74	6,500.60	6,375.75	16.37	19.53	-67.39	-1,112.34	724.57	1,093.30	1,059.03	34.27	31.906		
6,700.00	6,651.02	6,603.31	6,469.82	16.49	19.88	-81.84	-1,128.22	736.14	1,107.65	1,073.01	34.64	31.975		
6,800.00	6,747.36	6,688.14	6,559.34	16.57	20.18	-83.77	-1,143.33	747.16	1,121.51	1,086.65	34.86	32.168		
6,900.00	6,838.38	6,772.69	6,642.10	16.60	20.48	-85.21	-1,157.30	757.35	1,135.96	1,100.95	35.01	32.447		
7,000.00	6,921.84	6,863.10	6,730.95	16.62	20.71	-86.79	-1,172.29	763.88	1,151.97	1,116.87	35.10	32.821		
7,100.00	6,995.69	6,967.05	6,833.03	16.65	20.90	-88.53	-1,189.50	755.77	1,169.18	1,133.99	35.19	33.221		
7,200.00	7,058.11	7,088.21	6,948.47	16.73	21.06	-90.50	-1,208.94	725.25	1,186.96	1,151.64	35.31	33.611		
8,400.00	7,169.47	8,676.36	7,360.79	25.53	27.12	-99.19	-1,276.85	-683.80	1,198.14	1,146.12	52.02	23.033		
8,500.00	7,169.65	8,776.29	7,360.76	26.80	28.33	-99.21	-1,276.73	-783.72	1,194.37	1,139.91	54.45	21.934		
8,600.00	7,169.83	8,876.22	7,360.74	28.12	29.59	-99.23	-1,276.61	-883.65	1,190.60	1,133.62	56.97	20.897		
8,700.00	7,170.01	8,976.15	7,360.71	29.46	30.88	-99.25	-1,276.49	-983.58	1,186.82	1,127.25	59.57	19.922		
8,800.00	7,170.19	9,076.07	7,360.69	30.84	32.21	-99.27	-1,276.37	-1,083.51	1,183.05	1,120.81	62.24	19.007		
8,900.00	7,170.37	9,176.00	7,360.66	32.25	33.57	-99.29	-1,276.25	-1,183.44	1,179.28	1,114.31	64.97	18.152		
9,000.00	7,170.55	9,275.93	7,360.64	33.68	34.95	-99.31	-1,276.13	-1,283.36	1,175.51	1,107.76	67.75	17.352		
9,100.00	7,170.73	9,375.86	7,360.61	35.13	36.36	-99.33	-1,276.01	-1,383.29	1,171.73	1,101.16	70.57	16.604		
9,200.00	7,170.91	9,475.79	7,360.59	36.60	37.78	-99.35	-1,275.89	-1,483.22	1,167.96	1,094.53	73.43	15.905		
9,300.00	7,171.09	9,627.35	7,360.55	38.09	39.98	-99.40	-1,272.81	-1,634.74	1,162.48	1,085.64	76.83	15.130		
9,400.00	7,171.27	9,781.69	7,360.51	39.59	42.24	-99.53	-1,261.58	-1,788.65	1,151.52	1,071.38	80.14	14.370		
9,500.00	7,171.45	9,880.84	7,360.48	41.10	43.70	-99.62	-1,252.24	-1,887.35	1,138.60	1,055.53	83.07	13.707		
9,600.00	7,171.63	9,979.98	7,360.46	42.62	45.18	-99.72	-1,242.91	-1,986.06	1,125.69	1,039.67	86.02	13.086		
9,700.00	7,171.80	10,079.34	7,360.43	44.17	46.67	-99.78	-1,233.55	-2,084.98	1,114.58	1,025.57	89.01	12.522		
9,800.00	7,171.98	10,178.88	7,360.41	45.71	48.18	-99.85	-1,224.18	-2,184.07	1,105.06	1,013.04	92.03	12.008		
9,900.00	7,172.16	10,278.41	7,360.38	47.27	49.69	-99.93	-1,214.81	-2,283.16	1,095.55	1,000.49	95.06	11.525		
10,000.00	7,172.34	10,377.95	7,360.36	48.83	51.22	-100.01	-1,205.44	-2,382.26	1,086.03	987.92	98.11	11.070		
10,100.00	7,172.52	10,477.48	7,360.33	50.41	52.75	-100.08	-1,196.06	-2,481.35	1,076.52	975.35	101.17	10.641		
10,200.00	7,172.70	10,577.02	7,360.30	51.98	54.30	-100.16	-1,186.69	-2,580.45	1,067.01	962.76	104.25	10.236		
10,300.00	7,172.88	10,676.55	7,360.28	53.57	55.84	-100.24	-1,177.32	-2,679.54	1,057.50	950.17	107.33	9.853		
10,400.00	7,173.06	10,776.09	7,360.25	55.15	57.40	-100.33	-1,167.95	-2,778.63	1,047.99	937.56	110.43	9.491		
10,500.00	7,173.24	10,875.63	7,360.23	56.75	58.96	-100.41	-1,158.58	-2,877.73	1,038.48	924.96	113.53	9.147		
10,600.00	7,173.42	10,957.78	7,360.21	58.34	60.26	-100.48	-1,151.26	-2,959.55	1,029.54	912.96	116.58	8.831		
10,700.00	7,173.60	11,031.57	7,360.19	59.94	61.42	-100.52	-1,146.52	-3,033.19	1,022.99	903.42	119.57	8.556		
10,800.00	7,173.78	11,105.57	7,360.17	61.55	62.60	-100.54	-1,143.68	-3,107.13	1,018.96	896.46	122.50	8.318		
10,900.00	7,173.95	11,182.21	7,360.15	63.16	63.81	-100.54	-1,142.73	-3,183.76	1,017.47	892.05	125.41	8.113		
11,000.00	7,174.13	11,282.21	7,360.12	64.77	65.41	-100.54	-1,142.51	-3,283.76	1,017.01	888.42	128.59	7.909		
11,100.00	7,174.31	11,382.21	7,360.10	66.38	67.01	-100.53	-1,142.28	-3,383.76	1,016.54	884.77	131.77	7.714		
11,200.00	7,174.49	11,482.21	7,360.07	68.00	68.61	-100.52	-1,142.06	-3,483.76	1,016.08	881.12	134.96	7.529		
11,300.00	7,174.67	11,582.21	7,360.05	69.62	70.22	-100.52	-1,141.84	-3,583.76	1,015.62	877.46	138.16	7.351		
11,400.00	7,174.85	11,682.21	7,360.02	71.24	71.82	-100.51	-1,141.62	-3,683.76	1,015.16	873.80	141.36	7.182		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,500.00	7,175.03	11,782.20	7,360.00	72.87	73.44	-100.50	-1,141.40	-3,783.76	1,014.69	870.13	144.56	7.019	
11,600.00	7,175.21	11,882.20	7,359.97	74.50	75.05	-100.50	-1,141.17	-3,883.75	1,014.23	866.46	147.77	6.863	
11,700.00	7,175.39	11,982.20	7,359.95	76.12	76.67	-100.49	-1,140.95	-3,983.75	1,013.77	862.78	150.99	6.714	
11,800.00	7,175.57	12,082.20	7,359.92	77.75	78.29	-100.48	-1,140.73	-4,083.75	1,013.31	859.10	154.21	6.571	
11,900.00	7,175.75	12,182.20	7,359.89	79.39	79.91	-100.47	-1,140.51	-4,183.75	1,012.85	855.42	157.43	6.434	
12,000.00	7,175.93	12,282.20	7,359.87	81.02	81.53	-100.47	-1,140.28	-4,283.75	1,012.39	851.73	160.66	6.302	
12,100.00	7,176.11	12,382.20	7,359.84	82.66	83.15	-100.46	-1,140.06	-4,383.75	1,011.92	848.04	163.89	6.175	
12,200.00	7,176.28	12,482.20	7,359.82	84.29	84.78	-100.45	-1,139.84	-4,483.75	1,011.46	844.34	167.12	6.052	
12,300.00	7,176.46	12,582.19	7,359.79	85.93	86.41	-100.45	-1,139.62	-4,583.74	1,011.00	840.64	170.36	5.935	
12,400.00	7,176.64	12,682.19	7,359.77	87.57	88.04	-100.44	-1,139.40	-4,683.74	1,010.54	836.94	173.60	5.821	
12,500.00	7,176.82	12,782.19	7,359.74	89.21	89.67	-100.43	-1,139.17	-4,783.74	1,010.08	833.24	176.84	5.712	
12,600.00	7,177.00	12,882.19	7,359.71	90.85	91.30	-100.43	-1,138.95	-4,883.74	1,009.61	829.53	180.08	5.606	
12,700.00	7,177.18	12,982.19	7,359.69	92.49	92.94	-100.42	-1,138.73	-4,983.74	1,009.15	825.82	183.33	5.505	
12,800.00	7,177.36	13,082.19	7,359.66	94.14	94.57	-100.41	-1,138.51	-5,083.74	1,008.69	822.11	186.58	5.406	
12,900.00	7,177.54	13,182.19	7,359.64	95.78	96.21	-100.41	-1,138.28	-5,183.74	1,008.23	818.39	189.83	5.311	
13,000.00	7,177.72	13,282.19	7,359.61	97.43	97.85	-100.40	-1,138.06	-5,283.73	1,007.77	814.68	193.09	5.219	
13,100.00	7,177.90	13,382.19	7,359.59	99.07	99.49	-100.39	-1,137.84	-5,383.73	1,007.30	810.96	196.34	5.130	
13,200.00	7,178.08	13,482.18	7,359.56	100.72	101.13	-100.38	-1,137.62	-5,483.73	1,006.84	807.24	199.60	5.044	
13,300.00	7,178.26	13,582.18	7,359.53	102.37	102.77	-100.38	-1,137.40	-5,583.73	1,006.38	803.52	202.86	4.961	
13,400.00	7,178.43	13,682.18	7,359.51	104.02	104.41	-100.37	-1,137.17	-5,683.73	1,005.92	799.80	206.12	4.880	
13,500.00	7,178.61	13,782.18	7,359.48	105.67	106.05	-100.36	-1,136.95	-5,783.73	1,005.46	796.07	209.39	4.802	
13,600.00	7,178.79	13,882.18	7,359.46	107.32	107.70	-100.36	-1,136.73	-5,883.73	1,005.00	792.34	212.65	4.726	
13,700.00	7,178.97	13,982.18	7,359.43	108.97	109.34	-100.35	-1,136.51	-5,983.72	1,004.53	788.61	215.92	4.652	
13,800.00	7,179.15	14,082.18	7,359.41	110.62	110.99	-100.34	-1,136.28	-6,083.72	1,004.07	784.88	219.19	4.581	
13,900.00	7,179.33	14,182.18	7,359.38	112.27	112.64	-100.33	-1,136.06	-6,183.72	1,003.61	781.15	222.46	4.511	
14,000.00	7,179.51	14,282.18	7,359.36	113.92	114.28	-100.33	-1,135.84	-6,283.72	1,003.15	777.42	225.73	4.444	
14,100.00	7,179.69	14,382.17	7,359.33	115.58	115.93	-100.32	-1,135.62	-6,383.72	1,002.69	773.69	229.00	4.379	
14,200.00	7,179.87	14,482.17	7,359.30	117.23	117.58	-100.31	-1,135.40	-6,483.72	1,002.23	769.95	232.28	4.315	
14,300.00	7,180.05	14,582.17	7,359.28	118.88	119.23	-100.31	-1,135.17	-6,583.72	1,001.76	766.21	235.55	4.253	
14,400.00	7,180.23	14,682.17	7,359.25	120.54	120.88	-100.30	-1,134.95	-6,683.72	1,001.30	762.48	238.83	4.193	
14,500.00	7,180.41	14,782.17	7,359.23	122.19	122.53	-100.29	-1,134.73	-6,783.71	1,000.84	758.74	242.10	4.134	
14,600.00	7,180.58	14,882.17	7,359.20	123.85	124.18	-100.28	-1,134.51	-6,883.71	1,000.38	755.00	245.38	4.077	
14,700.00	7,180.76	14,982.17	7,359.18	125.50	125.83	-100.28	-1,134.28	-6,983.71	999.92	751.26	248.66	4.021	
14,800.00	7,180.94	15,082.17	7,359.15	127.16	127.48	-100.27	-1,134.06	-7,083.71	999.46	747.52	251.94	3.967	
14,900.00	7,181.12	15,182.17	7,359.12	128.82	129.13	-100.26	-1,133.84	-7,183.71	999.00	743.77	255.22	3.914	
15,000.00	7,181.30	15,282.16	7,359.10	130.47	130.79	-100.26	-1,133.62	-7,283.71	998.53	740.03	258.51	3.863	
15,100.00	7,181.48	15,382.16	7,359.07	132.13	132.44	-100.25	-1,133.40	-7,383.71	998.07	736.28	261.79	3.813	
15,200.00	7,181.66	15,482.16	7,359.05	133.79	134.10	-100.24	-1,133.17	-7,483.70	997.61	732.54	265.07	3.764	
15,300.00	7,181.84	15,582.16	7,359.02	135.45	135.75	-100.23	-1,132.95	-7,583.70	997.15	728.79	268.36	3.716	
15,389.78	7,182.00	15,671.94	7,359.00	136.94	137.23	-100.23	-1,132.75	-7,673.49	996.74	725.43	271.31	3.674 SF	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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-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	-139.89	0.84	139.90					
100.00	100.00	100.00	100.00	3.28	3.28	179.66	-139.89	0.84	139.90	132.37	7.53	18.581		
200.00	200.00	200.00	200.00	3.31	3.31	179.66	-139.89	0.84	139.90	132.32	7.57	18.471	CC, ES	
300.00	299.98	296.05	296.03	3.35	3.34	87.45	-141.24	1.73	141.21	133.56	7.65	18.453	SF	
400.00	399.84	391.97	391.83	3.41	3.40	88.30	-145.25	4.39	145.19	137.43	7.77	18.697		
500.00	499.45	487.62	487.14	3.50	3.48	89.61	-151.92	8.81	151.89	143.96	7.92	19.171		
600.00	598.74	582.89	581.75	3.62	3.58	91.24	-161.19	14.96	161.38	153.25	8.13	19.847		
700.00	697.94	677.74	675.53	3.76	3.72	92.32	-173.02	22.80	173.59	165.20	8.39	20.695		
800.00	797.15	772.02	768.23	3.93	3.90	92.65	-187.33	32.29	188.38	179.69	8.69	21.675		
900.00	896.36	866.50	860.52	4.12	4.12	92.38	-204.17	43.46	205.64	196.60	9.04	22.746		
1,000.00	995.56	964.84	956.35	4.33	4.38	91.97	-222.55	55.65	223.73	214.28	9.46	23.655		
1,100.00	1,094.77	1,063.18	1,052.19	4.56	4.68	91.62	-240.93	67.84	241.83	231.92	9.91	24.399		
1,200.00	1,193.98	1,161.52	1,148.02	4.79	5.00	91.32	-259.31	80.03	259.94	249.54	10.40	25.004		
1,300.00	1,293.19	1,259.86	1,243.85	5.04	5.34	91.06	-277.69	92.21	278.05	267.14	10.91	25.494		
1,400.00	1,392.39	1,358.19	1,339.69	5.30	5.69	90.83	-296.07	104.40	296.17	284.73	11.44	25.890		
1,500.00	1,491.60	1,456.53	1,435.52	5.56	6.06	90.63	-314.45	116.59	314.29	302.30	11.99	26.212		
1,600.00	1,590.81	1,554.87	1,531.35	5.84	6.44	90.45	-332.83	128.78	332.41	319.85	12.56	26.468		
1,700.00	1,690.01	1,653.21	1,627.19	6.12	6.83	90.29	-351.21	140.97	350.54	337.40	13.14	26.675		
1,800.00	1,789.22	1,751.55	1,723.02	6.40	7.22	90.14	-369.59	153.16	368.67	354.94	13.74	26.841		
1,900.00	1,888.43	1,849.89	1,818.86	6.55	7.53	90.01	-387.97	165.35	386.80	373.05	13.75	28.134		
2,000.00	1,987.64	1,948.23	1,914.69	6.58	7.67	89.89	-406.35	177.54	404.94	391.06	13.88	29.176		
2,100.00	2,086.84	2,046.57	2,010.52	6.63	7.74	89.78	-424.73	189.72	423.07	409.11	13.96	30.305		
2,200.00	2,186.05	2,144.90	2,106.36	6.68	7.82	89.68	-443.11	201.91	441.21	427.14	14.07	31.351		
2,300.00	2,285.26	2,243.24	2,202.19	6.75	7.92	89.59	-461.49	214.10	459.35	445.13	14.22	32.310		
2,400.00	2,384.46	2,341.58	2,298.02	6.84	8.03	89.50	-479.87	226.29	477.49	463.10	14.39	33.182		
2,500.00	2,483.67	2,439.92	2,393.86	6.94	8.17	89.42	-498.25	238.48	495.63	481.03	14.59	33.968		
2,600.00	2,582.88	2,538.26	2,489.69	7.05	8.31	89.35	-516.63	250.67	513.77	498.95	14.82	34.668		
2,700.00	2,682.09	2,636.60	2,585.52	7.17	8.48	89.28	-535.01	262.86	531.91	516.83	15.07	35.286		
2,800.00	2,781.29	2,734.94	2,681.36	7.30	8.66	89.21	-553.39	275.05	550.05	534.70	15.35	35.827		
2,900.00	2,880.50	2,833.28	2,777.19	7.45	8.85	89.15	-571.78	287.23	568.19	552.54	15.66	36.294		
3,000.00	2,979.71	2,931.61	2,873.03	7.60	9.05	89.10	-590.16	299.42	586.34	570.36	15.98	36.694		
3,100.00	3,078.91	3,029.95	2,968.86	7.76	9.27	89.05	-608.54	311.61	604.48	588.16	16.32	37.032		
3,200.00	3,178.12	3,128.29	3,064.69	7.94	9.49	89.00	-626.92	323.80	622.62	605.94	16.69	37.312		
3,300.00	3,277.33	3,226.63	3,160.53	8.12	9.73	88.95	-645.30	335.99	640.77	623.70	17.07	37.541		
3,400.00	3,376.53	3,324.97	3,256.36	8.31	9.98	88.90	-663.68	348.18	658.91	641.45	17.47	37.725		
3,500.00	3,475.74	3,423.31	3,352.19	8.50	10.23	88.86	-682.06	360.37	677.06	659.18	17.88	37.867		
3,600.00	3,574.95	3,521.65	3,448.03	8.70	10.49	88.82	-700.44	372.56	695.21	676.90	18.31	37.973		
3,700.00	3,674.16	3,619.98	3,543.86	8.91	10.76	88.78	-718.82	384.74	713.35	694.60	18.75	38.047		
3,800.00	3,773.36	3,718.32	3,639.70	9.13	11.04	88.75	-737.20	396.93	731.50	712.30	19.20	38.093		
3,900.00	3,872.57	3,816.66	3,735.53	9.35	11.32	88.71	-755.58	409.12	749.65	729.98	19.67	38.115		
4,000.00	3,971.78	3,915.00	3,831.36	9.57	11.61	88.68	-773.96	421.31	767.79	747.65	20.14	38.115		
4,100.00	4,070.98	4,013.34	3,927.20	9.80	11.91	88.65	-792.34	433.50	785.94	765.31	20.63	38.097		
4,200.00	4,170.19	4,111.68	4,023.03	10.04	12.21	88.62	-810.72	445.69	804.09	782.96	21.13	38.062		
4,300.00	4,269.40	4,210.02	4,118.86	10.28	12.51	88.59	-829.10	457.88	822.24	800.61	21.63	38.015		
4,400.00	4,368.61	4,308.36	4,214.70	10.52	12.82	88.56	-847.48	470.07	840.38	818.24	22.14	37.955		
4,500.00	4,467.81	4,406.69	4,310.53	10.77	13.13	88.54	-865.86	482.25	858.53	835.87	22.66	37.887		
4,600.00	4,567.02	4,505.03	4,406.37	11.02	13.45	88.51	-884.24	494.44	876.68	853.49	23.19	37.809		
4,700.00	4,666.23	4,603.37	4,502.20	11.27	13.77	88.49	-902.62	506.63	894.83	871.11	23.72	37.725		
4,800.00	4,765.43	4,701.71	4,598.03	11.52	14.09	88.47	-921.00	518.82	912.98	888.72	24.26	37.635		
4,900.00	4,864.64	4,800.05	4,693.87	11.78	14.42	88.44	-939.38	531.01	931.13	906.32	24.80	37.541		
5,000.00	4,963.85	4,901.61	4,789.70	12.04	14.76	88.42	-957.76	543.20	949.27	923.91	25.36	37.428		
5,100.00	5,063.06	5,003.27	4,885.53	12.31	15.10	88.40	-976.14	555.39	967.42	941.50	25.93	37.313		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	5,162.26	5,104.93	4,981.37	12.57	15.45	88.38	-994.52	567.58	985.57	959.08	26.50	37.196	
5,300.00	5,261.47	5,206.60	5,077.20	12.84	15.80	88.36	-1,012.90	579.76	1,003.72	976.65	27.07	37.077	
5,400.00	5,360.68	5,308.26	5,173.04	13.11	16.15	88.34	-1,031.28	591.95	1,021.87	994.22	27.65	36.958	
5,500.00	5,459.88	5,409.92	5,268.87	13.38	16.50	88.33	-1,049.66	604.14	1,040.02	1,011.79	28.23	36.839	
5,600.00	5,559.09	5,488.42	5,364.70	13.65	16.78	88.31	-1,068.04	616.33	1,058.17	1,029.43	28.74	36.812	
5,700.00	5,658.30	5,586.76	5,460.54	13.93	17.12	88.29	-1,086.42	628.52	1,076.32	1,047.00	29.32	36.705	
5,800.00	5,757.50	5,685.10	5,556.37	14.20	17.47	88.28	-1,104.80	640.71	1,094.47	1,064.56	29.91	36.598	
5,900.00	5,856.71	5,783.44	5,652.20	14.48	17.82	88.26	-1,123.18	652.90	1,112.62	1,082.13	30.49	36.491	
6,000.00	5,955.92	5,881.78	5,748.04	14.76	18.17	88.25	-1,141.56	665.09	1,130.77	1,099.69	31.08	36.385	
6,100.00	6,055.13	5,980.11	5,843.87	15.04	18.52	88.23	-1,159.94	677.27	1,148.92	1,117.25	31.67	36.280	
6,200.00	6,154.33	6,078.45	5,939.71	15.32	18.87	88.22	-1,178.33	689.46	1,167.07	1,134.81	32.26	36.176	
6,300.00	6,253.54	6,176.79	6,035.54	15.61	19.23	88.20	-1,196.71	701.65	1,185.22	1,152.36	32.86	36.073	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	179.68	-99.82	0.56	99.82					
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-99.82	0.56	99.82	92.29	7.53	13.259		
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-99.82	0.56	99.82	92.25	7.57	13.180	CC, ES	
300.00	299.98	297.52	297.50	3.35	3.34	87.47	-101.02	1.71	100.97	93.32	7.65	13.192		
400.00	399.84	394.94	394.79	3.41	3.40	88.31	-104.61	5.15	104.44	96.67	7.77	13.441		
500.00	499.45	492.18	491.68	3.50	3.49	89.59	-110.57	10.86	110.26	102.33	7.93	13.900		
600.00	598.74	589.15	587.96	3.62	3.59	91.09	-118.87	18.82	118.48	110.33	8.15	14.539		
700.00	697.94	685.80	683.48	3.76	3.74	91.66	-129.48	29.00	129.03	120.61	8.42	15.328		
800.00	797.15	784.25	780.37	3.93	3.92	91.39	-142.03	41.04	141.22	132.47	8.75	16.146		
900.00	896.36	883.49	878.03	4.12	4.14	91.13	-154.78	53.26	153.50	144.38	9.12	16.822		
1,000.00	995.56	982.73	975.69	4.33	4.39	90.91	-167.53	65.48	165.79	156.24	9.54	17.374		
1,100.00	1,094.77	1,081.97	1,073.34	4.56	4.65	90.72	-180.27	77.71	178.07	168.08	9.99	17.820		
1,200.00	1,193.98	1,181.21	1,171.00	4.79	4.93	90.56	-193.02	89.93	190.36	179.89	10.47	18.178		
1,300.00	1,293.19	1,280.45	1,268.66	5.04	5.23	90.41	-205.76	102.15	202.65	191.68	10.98	18.464		
1,400.00	1,392.39	1,379.69	1,366.31	5.30	5.54	90.28	-218.51	114.37	214.94	203.44	11.50	18.691		
1,500.00	1,491.60	1,478.93	1,463.97	5.56	5.86	90.17	-231.25	126.60	227.24	215.19	12.04	18.870		
1,600.00	1,590.81	1,578.17	1,561.63	5.84	6.19	90.06	-244.00	138.82	239.53	226.93	12.60	19.010		
1,700.00	1,690.01	1,677.41	1,659.28	6.12	6.53	89.97	-256.75	151.04	251.82	238.65	13.17	19.119		
1,800.00	1,789.22	1,776.65	1,756.94	6.40	6.88	89.89	-269.49	163.27	264.12	250.36	13.75	19.204		
1,900.00	1,888.43	1,875.89	1,854.60	6.55	7.10	89.81	-282.24	175.49	276.41	262.69	13.72	20.147		
2,000.00	1,987.64	1,975.13	1,952.25	6.58	7.18	89.74	-294.98	187.71	288.71	274.90	13.81	20.906		
2,100.00	2,086.84	2,074.38	2,049.91	6.63	7.23	89.67	-307.73	199.93	301.00	287.11	13.89	21.664		
2,200.00	2,186.05	2,173.62	2,147.57	6.68	7.30	89.62	-320.47	212.16	313.30	299.29	14.01	22.365		
2,300.00	2,285.26	2,272.86	2,245.23	6.75	7.39	89.56	-333.22	224.38	325.60	311.44	14.15	23.007		
2,400.00	2,384.46	2,372.10	2,342.88	6.84	7.49	89.51	-345.97	236.60	337.89	323.57	14.32	23.591		
2,500.00	2,483.67	2,471.34	2,440.54	6.94	7.61	89.46	-358.71	248.82	350.19	335.67	14.52	24.115		
2,600.00	2,582.88	2,570.58	2,538.20	7.05	7.74	89.42	-371.46	261.05	362.49	347.74	14.75	24.583		
2,700.00	2,682.09	2,669.82	2,635.85	7.17	7.89	89.38	-384.20	273.27	374.78	359.79	14.99	24.995		
2,800.00	2,781.29	2,769.06	2,733.51	7.30	8.04	89.34	-396.95	285.49	387.08	371.82	15.27	25.354		
2,900.00	2,880.50	2,868.30	2,831.17	7.45	8.21	89.30	-409.69	297.72	399.38	383.82	15.56	25.664		
3,000.00	2,979.71	2,967.54	2,928.82	7.60	8.39	89.27	-422.44	309.94	411.68	395.80	15.88	25.929		
3,100.00	3,078.91	3,066.78	3,026.48	7.76	8.58	89.23	-435.19	322.16	423.98	407.76	16.21	26.152		
3,200.00	3,178.12	3,166.02	3,124.14	7.94	8.79	89.20	-447.93	334.38	436.27	419.71	16.57	26.336		
3,300.00	3,277.33	3,265.26	3,221.79	8.12	9.00	89.18	-460.68	346.61	448.57	431.64	16.94	26.486		
3,400.00	3,376.53	3,364.50	3,319.45	8.31	9.22	89.15	-473.42	358.83	460.87	443.55	17.32	26.605		
3,500.00	3,475.74	3,463.74	3,417.11	8.50	9.44	89.12	-486.17	371.05	473.17	455.44	17.72	26.696		
3,600.00	3,574.95	3,562.99	3,514.76	8.70	9.68	89.10	-498.91	383.27	485.47	467.33	18.14	26.763		
3,700.00	3,674.16	3,662.23	3,612.42	8.91	9.92	89.08	-511.66	395.50	497.77	479.20	18.57	26.808		
3,800.00	3,773.36	3,761.47	3,710.08	9.13	10.17	89.05	-524.41	407.72	510.06	491.06	19.01	26.833		
3,900.00	3,872.57	3,860.71	3,807.73	9.35	10.42	89.03	-537.15	419.94	522.36	502.90	19.46	26.842		
4,000.00	3,971.78	3,959.95	3,905.39	9.57	10.68	89.01	-549.90	432.17	534.66	514.74	19.92	26.837		
4,100.00	4,070.98	4,059.19	4,003.05	9.80	10.94	88.99	-562.64	444.39	546.96	526.57	20.39	26.819		
4,200.00	4,170.19	4,158.43	4,100.71	10.04	11.21	88.97	-575.39	456.61	559.26	538.38	20.88	26.791		
4,300.00	4,269.40	4,257.67	4,198.36	10.28	11.49	88.96	-588.14	468.83	571.56	550.19	21.36	26.753		
4,400.00	4,368.61	4,356.91	4,296.02	10.52	11.76	88.94	-600.88	481.06	583.86	562.00	21.86	26.707		
4,500.00	4,467.81	4,456.15	4,393.68	10.77	12.05	88.92	-613.63	493.28	596.16	573.79	22.37	26.655		
4,600.00	4,567.02	4,555.39	4,491.33	11.02	12.33	88.91	-626.37	505.50	608.46	585.58	22.88	26.597		
4,700.00	4,666.23	4,654.63	4,588.99	11.27	12.62	88.89	-639.12	517.72	620.75	597.36	23.39	26.534		
4,800.00	4,765.43	4,753.87	4,686.65	11.52	12.91	88.88	-651.86	529.95	633.05	609.14	23.92	26.468		
4,900.00	4,864.64	4,853.11	4,784.30	11.78	13.21	88.87	-664.61	542.17	645.35	620.91	24.45	26.398		
5,000.00	4,963.85	4,952.35	4,881.96	12.04	13.50	88.85	-677.36	554.39	657.65	632.67	24.98	26.326		
5,100.00	5,063.06	5,051.60	4,979.62	12.31	13.80	88.84	-690.10	566.62	669.95	644.43	25.52	26.252		



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
5,200.00	5,162.26	5,150.84	5,077.27	12.57	14.10	88.83	-702.85	578.84	682.25	656.19	26.06	26.176		
5,300.00	5,261.47	5,250.08	5,174.93	12.84	14.41	88.82	-715.59	591.06	694.55	667.94	26.61	26.100		
5,400.00	5,360.68	5,349.32	5,272.59	13.11	14.72	88.80	-728.34	603.28	706.85	679.69	27.16	26.022		
5,500.00	5,459.88	5,448.56	5,370.24	13.38	15.02	88.79	-741.08	615.51	719.15	691.43	27.72	25.944		
5,600.00	5,559.09	5,547.80	5,467.90	13.65	15.33	88.78	-753.83	627.73	731.45	703.17	28.28	25.866		
5,700.00	5,658.30	5,647.04	5,565.56	13.93	15.65	88.77	-766.58	639.95	743.75	714.91	28.84	25.789		
5,800.00	5,757.50	5,746.28	5,663.21	14.20	15.96	88.76	-779.32	652.17	756.05	726.64	29.41	25.711		
5,900.00	5,856.71	5,845.52	5,760.87	14.48	16.28	88.75	-792.07	664.40	768.35	738.37	29.97	25.634		
6,000.00	5,955.92	5,944.76	5,858.53	14.76	16.59	88.74	-804.81	676.62	780.65	750.10	30.55	25.557		
6,100.00	6,055.13	6,044.00	5,956.19	15.04	16.91	88.73	-817.56	688.84	792.95	761.83	31.12	25.481		
6,200.00	6,154.33	6,143.24	6,053.84	15.32	17.23	88.72	-830.30	701.07	805.25	773.55	31.70	25.405		
6,300.00	6,253.54	6,242.48	6,151.50	15.61	17.55	88.72	-843.05	713.29	817.55	785.27	32.27	25.331		
6,400.00	6,352.75	6,341.72	6,249.16	15.89	17.87	88.71	-855.80	725.51	829.84	796.99	32.86	25.257		
6,500.00	6,451.95	6,440.96	6,346.81	16.17	18.20	88.69	-868.54	737.73	842.14	808.71	33.44	25.185		
6,600.00	6,551.74	6,539.84	6,444.11	16.37	18.52	-68.47	-881.24	749.91	853.97	820.07	33.91	25.184		
6,700.00	6,651.02	6,636.39	6,539.13	16.49	18.83	-83.53	-893.64	761.72	865.10	830.86	34.24	25.266		
6,800.00	6,747.36	6,733.89	6,635.67	16.57	19.03	-85.81	-906.22	764.68	876.10	841.68	34.42	25.454		
6,900.00	6,838.38	6,836.36	6,736.36	16.60	19.18	-87.29	-919.31	751.75	886.86	852.34	34.52	25.691		
7,000.00	6,921.84	6,944.54	6,838.98	16.62	19.29	-88.59	-932.61	720.63	897.06	862.49	34.57	25.950		
7,100.00	6,995.69	7,059.12	6,940.31	16.65	19.35	-89.82	-945.70	669.12	906.29	871.69	34.60	26.194		
7,200.00	7,058.11	7,180.52	7,035.84	16.73	19.36	-91.00	-957.99	595.53	914.08	879.41	34.67	26.362		
7,300.00	7,107.56	7,308.73	7,119.79	16.87	19.33	-92.11	-968.72	499.50	919.92	885.03	34.89	26.367		
7,400.00	7,142.82	7,443.10	7,185.46	17.11	19.27	-93.09	-977.03	382.85	923.32	887.96	35.35	26.118		
7,500.00	7,163.02	7,582.15	7,226.34	17.46	19.21	-93.89	-982.08	250.33	923.84	887.69	36.15	25.559		
7,600.00	7,168.04	7,718.21	7,237.98	17.92	19.23	-94.35	-983.31	115.03	921.24	884.00	37.23	24.741		
7,700.00	7,168.22	7,818.13	7,237.89	18.52	19.54	-94.36	-983.09	15.10	917.34	878.96	38.38	23.899		
7,800.00	7,168.40	7,918.06	7,237.80	19.24	20.18	-94.36	-982.86	-84.82	913.44	873.66	39.78	22.963		
7,900.00	7,168.58	8,017.98	7,237.72	20.08	20.99	-94.36	-982.64	-184.74	909.54	868.14	41.40	21.969		
8,000.00	7,168.76	8,117.90	7,237.63	21.02	21.91	-94.36	-982.42	-284.67	905.64	862.42	43.22	20.954		
8,100.00	7,168.94	8,217.83	7,237.54	22.04	22.92	-94.36	-982.20	-384.59	901.74	856.52	45.21	19.944		
8,200.00	7,169.12	8,317.75	7,237.45	23.14	24.00	-94.36	-981.97	-484.51	897.84	850.48	47.36	18.957		
8,300.00	7,169.29	8,417.68	7,237.36	24.31	25.14	-94.37	-981.75	-584.44	893.94	844.30	49.64	18.008		
8,400.00	7,169.47	8,517.60	7,237.27	25.53	26.34	-94.37	-981.53	-684.36	890.04	838.00	52.03	17.105		
8,500.00	7,169.65	8,617.52	7,237.18	26.80	27.59	-94.37	-981.31	-784.29	886.14	831.61	54.53	16.251		
8,600.00	7,169.83	8,717.45	7,237.09	28.12	28.87	-94.37	-981.09	-884.21	882.24	825.13	57.11	15.448		
8,700.00	7,170.01	8,817.37	7,237.00	29.46	30.20	-94.37	-980.86	-984.13	878.34	818.57	59.76	14.697		
8,800.00	7,170.19	8,917.30	7,236.91	30.84	31.55	-94.38	-980.64	-1,084.06	874.44	811.95	62.48	13.995		
8,900.00	7,170.37	9,017.22	7,236.82	32.25	32.93	-94.38	-980.42	-1,183.98	870.54	805.28	65.26	13.339		
9,000.00	7,170.55	9,117.14	7,236.73	33.68	34.34	-94.38	-980.20	-1,283.90	866.64	798.55	68.09	12.728		
9,100.00	7,170.73	9,217.07	7,236.64	35.13	35.77	-94.38	-979.98	-1,383.83	862.74	791.78	70.96	12.158		
9,200.00	7,170.91	9,316.99	7,236.55	36.60	37.22	-94.38	-979.75	-1,483.75	858.84	784.96	73.87	11.626		
9,300.00	7,171.09	9,416.92	7,236.46	38.09	38.69	-94.38	-979.53	-1,583.67	854.94	778.12	76.82	11.129		
9,400.00	7,171.27	9,516.84	7,236.37	39.59	40.17	-94.39	-979.31	-1,683.60	851.04	771.24	79.79	10.665		
9,500.00	7,171.45	9,616.76	7,236.28	41.10	41.66	-94.39	-979.09	-1,783.52	847.14	764.34	82.80	10.231		
9,600.00	7,171.63	9,716.69	7,236.19	42.62	43.17	-94.39	-978.87	-1,883.45	843.24	757.41	85.82	9.825		
9,700.00	7,171.80	9,816.66	7,236.10	44.17	44.69	-94.38	-978.64	-1,983.42	841.18	752.29	88.88	9.464		
9,800.00	7,171.98	9,916.66	7,236.01	45.71	46.22	-94.37	-978.42	-2,083.42	840.73	748.76	91.96	9.142		
9,900.00	7,172.16	10,016.66	7,235.92	47.27	47.76	-94.35	-978.20	-2,183.42	840.27	745.22	95.06	8.840		
10,000.00	7,172.34	10,116.66	7,235.83	48.83	49.31	-94.34	-977.98	-2,283.41	839.82	741.65	98.17	8.555		
10,100.00	7,172.52	10,216.66	7,235.74	50.41	50.87	-94.32	-977.76	-2,383.41	839.37	738.08	101.30	8.286		
10,200.00	7,172.70	10,316.65	7,235.65	51.98	52.43	-94.30	-977.53	-2,483.41	838.92	734.48	104.44	8.033		
10,300.00	7,172.88	10,416.65	7,235.56	53.57	54.00	-94.29	-977.31	-2,583.41	838.47	730.88	107.59	7.793		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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		
10,400.00	7,173.06	10,516.65	7,235.47	55.15	55.58	-94.27	-977.09	-2,683.41	838.02	727.27	110.75	7.566		
10,500.00	7,173.24	10,616.65	7,235.38	56.75	57.16	-94.25	-976.87	-2,783.41	837.57	723.64	113.93	7.352		
10,600.00	7,173.42	10,716.65	7,235.29	58.34	58.74	-94.24	-976.64	-2,883.40	837.12	720.01	117.11	7.148		
10,700.00	7,173.60	10,816.65	7,235.20	59.94	60.34	-94.22	-976.42	-2,983.40	836.67	716.36	120.30	6.955		
10,800.00	7,173.78	10,916.65	7,235.11	61.55	61.93	-94.21	-976.20	-3,083.40	836.22	712.71	123.50	6.771		
10,900.00	7,173.95	11,016.65	7,235.02	63.16	63.53	-94.19	-975.98	-3,183.40	835.77	709.06	126.71	6.596		
11,000.00	7,174.13	11,116.64	7,234.94	64.77	65.13	-94.17	-975.76	-3,283.40	835.32	705.39	129.93	6.429		
11,100.00	7,174.31	11,216.64	7,234.85	66.38	66.74	-94.16	-975.53	-3,383.40	834.87	701.72	133.15	6.270		
11,200.00	7,174.49	11,316.64	7,234.76	68.00	68.34	-94.14	-975.31	-3,483.40	834.42	698.04	136.37	6.119		
11,300.00	7,174.67	11,416.64	7,234.67	69.62	69.96	-94.12	-975.09	-3,583.39	833.97	694.36	139.61	5.974		
11,400.00	7,174.85	11,516.64	7,234.58	71.24	71.57	-94.11	-974.87	-3,683.39	833.52	690.67	142.84	5.835		
11,500.00	7,175.03	11,616.64	7,234.49	72.87	73.19	-94.09	-974.64	-3,783.39	833.07	686.98	146.08	5.703		
11,600.00	7,175.21	11,716.64	7,234.40	74.50	74.81	-94.08	-974.42	-3,883.39	832.62	683.28	149.33	5.576		
11,700.00	7,175.39	11,816.63	7,234.31	76.12	76.43	-94.06	-974.20	-3,983.39	832.17	679.58	152.58	5.454		
11,800.00	7,175.57	11,916.63	7,234.22	77.75	78.05	-94.04	-973.98	-4,083.39	831.72	675.88	155.84	5.337		
11,900.00	7,175.75	12,016.63	7,234.13	79.39	79.68	-94.03	-973.76	-4,183.38	831.27	672.17	159.10	5.225		
12,000.00	7,175.93	12,116.63	7,234.04	81.02	81.30	-94.01	-973.53	-4,283.38	830.82	668.46	162.36	5.117		
12,100.00	7,176.11	12,216.63	7,233.95	82.66	82.93	-93.99	-973.31	-4,383.38	830.37	664.75	165.62	5.014		
12,200.00	7,176.28	12,316.63	7,233.86	84.29	84.56	-93.98	-973.09	-4,483.38	829.92	661.03	168.89	4.914		
12,300.00	7,176.46	12,416.63	7,233.77	85.93	86.20	-93.96	-972.87	-4,583.38	829.47	657.31	172.16	4.818		
12,400.00	7,176.64	12,516.63	7,233.68	87.57	87.83	-93.94	-972.64	-4,683.38	829.02	653.58	175.44	4.725		
12,500.00	7,176.82	12,616.62	7,233.59	89.21	89.47	-93.93	-972.42	-4,783.37	828.57	649.86	178.71	4.636		
12,600.00	7,177.00	12,716.62	7,233.50	90.85	91.10	-93.91	-972.20	-4,883.37	828.12	646.13	181.99	4.550		
12,700.00	7,177.18	12,816.62	7,233.41	92.49	92.74	-93.90	-971.98	-4,983.37	827.67	642.40	185.27	4.467		
12,800.00	7,177.36	12,916.62	7,233.32	94.14	94.38	-93.88	-971.76	-5,083.37	827.22	638.67	188.56	4.387		
12,900.00	7,177.54	13,016.62	7,233.23	95.78	96.02	-93.86	-971.53	-5,183.37	826.77	634.93	191.84	4.310		
13,000.00	7,177.72	13,116.62	7,233.14	97.43	97.66	-93.85	-971.31	-5,283.37	826.32	631.19	195.13	4.235		
13,100.00	7,177.90	13,216.62	7,233.05	99.07	99.30	-93.83	-971.09	-5,383.37	825.88	627.46	198.42	4.162		
13,200.00	7,178.08	13,316.62	7,232.96	100.72	100.95	-93.81	-970.87	-5,483.36	825.43	623.72	201.71	4.092		
13,300.00	7,178.26	13,416.61	7,232.87	102.37	102.59	-93.80	-970.64	-5,583.36	824.98	619.97	205.00	4.024		
13,400.00	7,178.43	13,516.61	7,232.78	104.02	104.23	-93.78	-970.42	-5,683.36	824.53	616.23	208.30	3.958		
13,500.00	7,178.61	13,616.61	7,232.69	105.67	105.88	-93.76	-970.20	-5,783.36	824.08	612.48	211.60	3.895		
13,600.00	7,178.79	13,716.61	7,232.60	107.32	107.53	-93.75	-969.98	-5,883.36	823.63	608.74	214.89	3.833		
13,700.00	7,178.97	13,816.61	7,232.51	108.97	109.17	-93.73	-969.76	-5,983.36	823.18	604.99	218.19	3.773		
13,800.00	7,179.15	13,916.61	7,232.42	110.62	110.82	-93.71	-969.53	-6,083.35	822.74	601.24	221.49	3.714		
13,900.00	7,179.33	14,016.61	7,232.33	112.27	112.47	-93.70	-969.31	-6,183.35	822.29	597.49	224.80	3.658		
14,000.00	7,179.51	14,116.61	7,232.24	113.92	114.12	-93.68	-969.09	-6,283.35	821.84	593.74	228.10	3.603		
14,100.00	7,179.69	14,216.60	7,232.15	115.58	115.77	-93.66	-968.87	-6,383.35	821.39	589.99	231.40	3.550		
14,200.00	7,179.87	14,316.60	7,232.06	117.23	117.42	-93.64	-968.64	-6,483.35	820.94	586.23	234.71	3.498		
14,300.00	7,180.05	14,416.60	7,231.97	118.88	119.07	-93.63	-968.42	-6,583.35	820.49	582.48	238.02	3.447		
14,400.00	7,180.23	14,516.60	7,231.88	120.54	120.72	-93.61	-968.20	-6,683.34	820.05	578.72	241.33	3.398		
14,500.00	7,180.41	14,616.60	7,231.80	122.19	122.38	-93.59	-967.98	-6,783.34	819.60	574.96	244.63	3.350		
14,600.00	7,180.58	14,716.60	7,231.71	123.85	124.03	-93.58	-967.76	-6,883.34	819.15	571.21	247.94	3.304		
14,700.00	7,180.76	14,816.60	7,231.62	125.50	125.68	-93.56	-967.53	-6,983.34	818.70	567.45	251.26	3.258		
14,800.00	7,180.94	14,916.59	7,231.53	127.16	127.34	-93.54	-967.31	-7,083.34	818.25	563.69	254.57	3.214		
14,900.00	7,181.12	15,016.59	7,231.44	128.82	128.99	-93.53	-967.09	-7,183.34	817.81	559.93	257.88	3.171		
15,000.00	7,181.30	15,116.59	7,231.35	130.47	130.65	-93.51	-966.87	-7,283.34	817.36	556.17	261.19	3.129		
15,100.00	7,181.48	15,216.59	7,231.26	132.13	132.30	-93.49	-966.64	-7,383.33	816.91	552.40	264.51	3.088		
15,200.00	7,181.66	15,316.59	7,231.17	133.79	133.96	-93.48	-966.42	-7,483.33	816.46	548.64	267.82	3.049		
15,300.00	7,181.84	15,416.59	7,231.08	135.45	135.61	-93.46	-966.20	-7,583.33	816.02	544.88	271.14	3.010		
15,389.78	7,182.00	15,506.37	7,231.00	136.94	137.10	-93.44	-966.00	-7,673.11	815.62	541.50	274.12	2.975 SF		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	-124.05	-100.91	-149.34	180.23				
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.34	180.23	172.71	7.53	23.939	
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.34	180.23	172.66	7.57	23.796	CC, ES
300.00	299.98	297.15	297.13	3.35	3.34	143.33	-102.56	-149.46	182.70	175.05	7.65	23.869	
400.00	399.84	392.99	392.84	3.41	3.40	143.00	-107.39	-149.82	190.04	182.27	7.77	24.449	
500.00	499.45	488.14	487.66	3.50	3.48	142.50	-115.35	-150.42	202.24	194.30	7.94	25.472	
600.00	598.74	583.33	582.20	3.62	3.58	141.93	-126.37	-151.25	218.99	210.83	8.16	26.845	
700.00	697.94	681.70	679.79	3.76	3.71	141.46	-138.71	-152.18	236.88	228.46	8.42	28.138	
800.00	797.15	780.07	777.37	3.93	3.87	141.05	-151.06	-153.11	254.79	246.07	8.72	29.213	
900.00	896.36	878.44	874.96	4.12	4.06	140.69	-163.40	-154.03	272.71	263.64	9.06	30.089	
1,000.00	995.56	976.81	972.55	4.33	4.26	140.38	-175.75	-154.96	290.63	281.19	9.44	30.794	
1,100.00	1,094.77	1,075.18	1,070.13	4.56	4.48	140.10	-188.09	-155.89	308.56	298.72	9.84	31.352	
1,200.00	1,193.98	1,173.55	1,167.72	4.79	4.71	139.86	-200.44	-156.82	326.50	316.23	10.27	31.788	
1,300.00	1,293.19	1,271.91	1,265.31	5.04	4.95	139.64	-212.78	-157.75	344.45	333.73	10.72	32.124	
1,400.00	1,392.39	1,370.28	1,362.89	5.30	5.21	139.44	-225.13	-158.68	362.40	351.21	11.19	32.378	
1,500.00	1,491.60	1,468.65	1,460.48	5.56	5.47	139.26	-237.47	-159.60	380.35	368.67	11.68	32.566	
1,600.00	1,590.81	1,567.02	1,558.07	5.84	5.74	139.09	-249.82	-160.53	398.31	386.13	12.18	32.700	
1,700.00	1,690.01	1,665.39	1,655.65	6.12	6.02	138.94	-262.16	-161.46	416.27	403.57	12.69	32.791	
1,800.00	1,789.22	1,763.76	1,753.24	6.40	6.30	138.81	-274.51	-162.39	434.23	421.01	13.22	32.848	
1,900.00	1,888.43	1,862.13	1,850.83	6.55	6.50	138.68	-286.85	-163.32	452.19	439.02	13.17	34.342	
2,000.00	1,987.64	1,960.49	1,948.41	6.58	6.58	138.56	-299.20	-164.25	470.16	456.90	13.26	35.463	
2,100.00	2,086.84	2,058.86	2,046.00	6.63	6.62	138.46	-311.54	-165.17	488.12	474.80	13.33	36.629	
2,200.00	2,186.05	2,157.23	2,143.58	6.68	6.67	138.36	-323.89	-166.10	506.09	492.67	13.42	37.704	
2,300.00	2,285.26	2,255.60	2,241.17	6.75	6.74	138.26	-336.23	-167.03	524.06	510.52	13.55	38.684	
2,400.00	2,384.46	2,353.97	2,338.76	6.84	6.82	138.18	-348.58	-167.96	542.04	528.34	13.70	39.568	
2,500.00	2,483.67	2,452.34	2,436.34	6.94	6.91	138.09	-360.92	-168.89	560.01	546.13	13.88	40.357	
2,600.00	2,582.88	2,550.71	2,533.93	7.05	7.02	138.02	-373.27	-169.82	577.98	563.90	14.08	41.052	
2,700.00	2,682.09	2,649.07	2,631.52	7.17	7.14	137.95	-385.61	-170.74	595.96	581.65	14.31	41.658	
2,800.00	2,781.29	2,747.44	2,729.10	7.30	7.27	137.88	-397.96	-171.67	613.93	599.38	14.56	42.179	
2,900.00	2,880.50	2,845.81	2,826.69	7.45	7.41	137.81	-410.30	-172.60	631.91	617.08	14.83	42.620	
3,000.00	2,979.71	2,944.18	2,924.28	7.60	7.57	137.75	-422.65	-173.53	649.89	634.77	15.12	42.987	
3,100.00	3,078.91	3,042.55	3,021.86	7.76	7.73	137.70	-434.99	-174.46	667.86	652.44	15.43	43.286	
3,200.00	3,178.12	3,140.92	3,119.45	7.94	7.90	137.64	-447.34	-175.39	685.84	670.09	15.76	43.524	
3,300.00	3,277.33	3,239.29	3,217.04	8.12	8.08	137.59	-459.69	-176.31	703.82	687.72	16.10	43.706	
3,400.00	3,376.53	3,337.65	3,314.62	8.31	8.27	137.54	-472.03	-177.24	721.80	705.34	16.47	43.839	
3,500.00	3,475.74	3,436.02	3,412.21	8.50	8.47	137.50	-484.38	-178.17	739.78	722.94	16.84	43.927	
3,600.00	3,574.95	3,534.39	3,509.80	8.70	8.67	137.45	-496.72	-179.10	757.76	740.53	17.23	43.976	
3,700.00	3,674.16	3,632.76	3,607.38	8.91	8.88	137.41	-509.07	-180.03	775.74	758.11	17.63	43.991	
3,800.00	3,773.36	3,731.13	3,704.97	9.13	9.09	137.37	-521.41	-180.96	793.72	775.68	18.05	43.976	
3,900.00	3,872.57	3,829.50	3,802.55	9.35	9.32	137.33	-533.76	-181.88	811.71	793.23	18.47	43.936	
4,000.00	3,971.78	3,927.87	3,900.14	9.57	9.54	137.29	-546.10	-182.81	829.69	810.78	18.91	43.874	
4,100.00	4,070.98	4,026.23	3,997.73	9.80	9.77	137.26	-558.45	-183.74	847.67	828.31	19.36	43.792	
4,200.00	4,170.19	4,124.60	4,095.31	10.04	10.01	137.22	-570.79	-184.67	865.65	845.84	19.81	43.694	
4,300.00	4,269.40	4,222.97	4,192.90	10.28	10.25	137.19	-583.14	-185.60	883.64	863.36	20.27	43.583	
4,400.00	4,368.61	4,321.34	4,290.49	10.52	10.49	137.16	-595.48	-186.53	901.62	880.87	20.75	43.461	
4,500.00	4,467.81	4,419.71	4,388.07	10.77	10.74	137.13	-607.83	-187.45	919.60	898.38	21.22	43.329	
4,600.00	4,567.02	4,518.08	4,485.66	11.02	10.99	137.10	-620.17	-188.38	937.59	915.88	21.71	43.190	
4,700.00	4,666.23	4,616.45	4,583.25	11.27	11.25	137.07	-632.52	-189.31	955.57	933.37	22.20	43.044	
4,800.00	4,765.43	4,714.81	4,680.83	11.52	11.51	137.05	-644.86	-190.24	973.55	950.86	22.70	42.894	
4,900.00	4,864.64	4,813.18	4,778.42	11.78	11.77	137.02	-657.21	-191.17	991.54	968.34	23.20	42.739	
5,000.00	4,963.85	4,911.55	4,876.01	12.04	12.03	137.00	-669.55	-192.09	1,009.52	985.81	23.71	42.583	
5,100.00	5,063.06	5,009.92	4,973.59	12.31	12.30	136.97	-681.90	-193.02	1,027.51	1,003.29	24.22	42.424	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 8C-27-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	5,162.26	5,108.29	5,071.18	12.57	12.56	136.95	-694.24	-193.95	1,045.49	1,020.75	24.74	42.264	
5,300.00	5,261.47	5,206.66	5,168.77	12.84	12.83	136.93	-706.59	-194.88	1,063.48	1,038.22	25.26	42.104	
5,400.00	5,360.68	5,305.03	5,266.35	13.11	13.10	136.91	-718.93	-195.81	1,081.46	1,055.68	25.78	41.943	
5,500.00	5,459.88	5,403.39	5,363.94	13.38	13.38	136.89	-731.28	-196.74	1,099.45	1,073.13	26.31	41.783	
5,600.00	5,559.09	5,501.76	5,461.52	13.65	13.65	136.87	-743.62	-197.66	1,117.43	1,090.59	26.85	41.624	
5,700.00	5,658.30	5,600.13	5,559.11	13.93	13.93	136.85	-755.97	-198.59	1,135.42	1,108.04	27.38	41.466	
5,800.00	5,757.50	5,701.50	5,656.70	14.20	14.22	136.83	-768.31	-199.52	1,153.40	1,125.47	27.93	41.298	
5,900.00	5,856.71	5,803.13	5,754.28	14.48	14.51	136.81	-780.66	-200.45	1,171.39	1,142.91	28.48	41.130	
6,000.00	5,955.92	5,904.76	5,851.87	14.76	14.80	136.79	-793.00	-201.38	1,189.37	1,160.34	29.03	40.965	
6,700.00	6,651.02	8,131.45	7,357.49	16.49	23.22	-94.55	-958.11	784.38	1,161.39	1,126.31	35.08	33.103	
6,800.00	6,747.36	8,105.19	7,357.45	16.57	22.94	-100.56	-958.77	758.12	1,104.43	1,068.79	35.64	30.989	
6,900.00	6,838.38	8,064.17	7,357.40	16.60	22.53	-103.75	-959.80	717.12	1,055.72	1,019.70	36.02	29.310	
7,000.00	6,921.84	8,009.41	7,357.32	16.62	21.98	-105.13	-961.18	662.37	1,016.00	979.83	36.17	28.088	
7,100.00	6,995.69	7,942.25	7,357.23	16.65	21.37	-105.22	-962.87	595.24	985.23	949.08	36.15	27.255	
7,200.00	7,058.11	7,864.36	7,357.12	16.73	20.71	-104.51	-964.83	517.37	962.65	926.66	35.98	26.752	
7,300.00	7,107.56	7,300.00	7,356.91	16.87	18.94	-103.26	-967.18	423.62	947.02	914.50	32.52	29.119	
7,400.00	7,142.82	7,594.30	7,331.52	17.11	19.18	-99.52	-968.39	249.76	932.55	897.20	35.35	26.384	
7,500.00	7,163.02	7,445.66	7,273.98	17.46	18.81	-95.84	-964.59	113.12	916.12	880.82	35.30	25.950	
7,600.00	7,168.04	7,324.05	7,204.57	17.92	18.56	-92.27	-958.34	13.70	900.28	864.81	35.48	25.377	
7,700.00	7,168.22	7,230.03	7,138.80	18.52	18.38	-88.01	-951.73	-53.05	886.65	850.80	35.84	24.736	
7,800.00	7,168.40	7,159.95	7,083.84	19.24	18.23	-84.40	-945.88	-96.08	878.10	841.70	36.39	24.129	
7,864.68	7,168.51	7,124.03	7,053.94	19.78	18.15	-82.42	-942.61	-115.70	876.40	839.56	36.83	23.793	
7,900.00	7,168.58	7,106.88	7,039.29	20.08	18.12	-81.46	-940.98	-124.47	876.93	839.85	37.08	23.651	
8,000.00	7,168.76	7,065.83	7,003.32	21.02	18.03	-79.08	-936.93	-143.82	884.48	846.63	37.85	23.366	
8,100.00	7,168.94	7,033.38	6,974.06	22.04	17.95	-77.17	-933.58	-157.44	901.33	862.67	38.66	23.316 SF	
8,200.00	7,169.12	7,007.21	6,949.99	23.14	17.89	-75.60	-930.79	-167.32	927.46	888.03	39.43	23.519	
8,300.00	7,169.29	6,985.72	6,929.95	24.31	17.85	-74.30	-928.45	-174.68	962.45	922.30	40.14	23.976	
8,400.00	7,169.47	6,967.81	6,913.05	25.53	17.80	-73.21	-926.46	-180.30	1,005.56	964.80	40.76	24.672	
8,500.00	7,169.65	6,950.00	6,896.11	26.80	17.76	-72.12	-924.45	-185.40	1,055.96	1,014.69	41.26	25.592	
8,600.00	7,169.83	6,950.00	6,896.11	28.12	17.76	-72.12	-924.45	-185.40	1,112.82	1,071.11	41.70	26.684	
8,700.00	7,170.01	6,928.50	6,875.48	29.46	17.71	-70.81	-921.98	-190.93	1,175.01	1,133.01	42.00	27.974	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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							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	-129.06	-120.95	-149.06	191.96					
100.00	100.00	101.00	101.00	3.28	3.28	-129.06	-120.95	-149.06	191.96	184.43	7.53	25.496		
200.00	200.00	201.00	201.00	3.31	3.31	-129.06	-120.95	-149.06	191.96	184.38	7.57	25.344	CC, ES, SF	
300.00	299.98	296.55	296.53	3.35	3.34	-138.38	-122.58	-149.16	194.42	186.76	7.65	25.401		
400.00	399.84	391.81	391.67	3.41	3.40	-138.23	-127.36	-149.47	201.74	193.97	7.77	25.959		
500.00	499.45	486.40	485.93	3.50	3.48	-137.99	-135.23	-149.97	213.90	205.96	7.94	26.951		
600.00	598.74	580.04	578.93	3.62	3.58	-137.73	-146.07	-150.66	230.64	222.48	8.15	28.295		
700.00	697.94	674.12	671.98	3.76	3.71	-137.21	-159.92	-151.54	249.98	241.58	8.40	29.749		
800.00	797.15	772.07	768.71	3.93	3.88	-136.61	-175.23	-152.52	269.98	261.26	8.71	30.992		
900.00	896.36	870.01	865.45	4.12	4.07	-136.09	-190.54	-153.50	290.00	280.94	9.06	32.011		
1,000.00	995.56	967.96	962.18	4.33	4.29	-135.63	-205.85	-154.47	310.04	300.60	9.44	32.833		
1,100.00	1,094.77	1,065.90	1,058.92	4.56	4.53	-135.24	-221.15	-155.45	330.10	320.24	9.86	33.487		
1,200.00	1,193.98	1,163.84	1,155.65	4.79	4.78	-134.88	-236.46	-156.43	350.17	339.87	10.30	34.002		
1,300.00	1,293.19	1,261.79	1,252.39	5.04	5.04	-134.57	-251.77	-157.40	370.25	359.49	10.76	34.401		
1,400.00	1,392.39	1,359.73	1,349.12	5.30	5.32	-134.29	-267.08	-158.38	390.34	379.10	11.25	34.708		
1,500.00	1,491.60	1,457.67	1,445.86	5.56	5.61	-134.03	-282.38	-159.36	410.45	398.70	11.75	34.939		
1,600.00	1,590.81	1,555.62	1,542.59	5.84	5.91	-133.80	-297.69	-160.33	430.55	418.29	12.26	35.109		
1,700.00	1,690.01	1,653.56	1,639.33	6.12	6.21	-133.59	-313.00	-161.31	450.67	437.88	12.79	35.229		
1,800.00	1,789.22	1,751.50	1,736.06	6.40	6.52	-133.40	-328.31	-162.29	470.79	457.45	13.33	35.311		
1,900.00	1,888.43	1,849.45	1,832.80	6.55	6.76	-133.22	-343.61	-163.26	490.91	477.60	13.31	36.885		
2,000.00	1,987.64	1,947.39	1,929.53	6.58	6.87	-133.06	-358.92	-164.24	511.04	497.62	13.42	38.076		
2,100.00	2,086.84	2,045.33	2,026.27	6.63	6.91	-132.91	-374.23	-165.21	531.17	517.68	13.49	39.370		
2,200.00	2,186.05	2,143.28	2,123.00	6.68	6.97	-132.77	-389.54	-166.19	551.31	537.71	13.59	40.563		
2,300.00	2,285.26	2,241.22	2,219.74	6.75	7.04	-132.64	-404.84	-167.17	571.44	557.72	13.72	41.652		
2,400.00	2,384.46	2,339.16	2,316.47	6.84	7.13	-132.52	-420.15	-168.14	591.58	577.71	13.88	42.636		
2,500.00	2,483.67	2,437.11	2,413.21	6.94	7.24	-132.41	-435.46	-169.12	611.73	597.67	14.06	43.516		
2,600.00	2,582.88	2,535.05	2,509.94	7.05	7.35	-132.30	-450.77	-170.10	631.87	617.61	14.27	44.293		
2,700.00	2,682.09	2,632.99	2,606.68	7.17	7.48	-132.20	-466.07	-171.07	652.02	637.52	14.50	44.972		
2,800.00	2,781.29	2,730.94	2,703.41	7.30	7.63	-132.11	-481.38	-172.05	672.17	657.41	14.75	45.558		
2,900.00	2,880.50	2,828.88	2,800.15	7.45	7.78	-132.02	-496.69	-173.03	692.32	677.29	15.03	46.056		
3,000.00	2,979.71	2,926.82	2,896.88	7.60	7.95	-131.94	-512.00	-174.00	712.47	697.14	15.33	46.472		
3,100.00	3,078.91	3,024.77	2,993.62	7.76	8.12	-131.86	-527.30	-174.98	732.62	716.97	15.65	46.815		
3,200.00	3,178.12	3,122.71	3,090.35	7.94	8.31	-131.79	-542.61	-175.96	752.78	736.79	15.99	47.089		
3,300.00	3,277.33	3,220.65	3,187.09	8.12	8.50	-131.72	-557.92	-176.93	772.93	756.59	16.34	47.303		
3,400.00	3,376.53	3,318.60	3,283.82	8.31	8.70	-131.65	-573.23	-177.91	793.09	776.38	16.71	47.462		
3,500.00	3,475.74	3,416.54	3,380.56	8.50	8.91	-131.59	-588.53	-178.89	813.25	796.15	17.10	47.572		
3,600.00	3,574.95	3,514.49	3,477.29	8.70	9.13	-131.53	-603.84	-179.86	833.40	815.91	17.49	47.639		
3,700.00	3,674.16	3,612.43	3,574.03	8.91	9.35	-131.47	-619.15	-180.84	853.56	835.66	17.91	47.669		
3,800.00	3,773.36	3,710.37	3,670.76	9.13	9.58	-131.42	-634.46	-181.82	873.72	855.39	18.33	47.665		
3,900.00	3,872.57	3,808.32	3,767.50	9.35	9.82	-131.36	-649.76	-182.79	893.88	875.12	18.77	47.635		
4,000.00	3,971.78	3,906.26	3,864.23	9.57	10.06	-131.31	-665.07	-183.77	914.05	894.83	19.21	47.578		
4,100.00	4,070.98	4,004.20	3,960.97	9.80	10.31	-131.27	-680.38	-184.75	934.21	914.54	19.67	47.501		
4,200.00	4,170.19	4,102.15	4,057.70	10.04	10.56	-131.22	-695.69	-185.72	954.37	934.24	20.13	47.406		
4,300.00	4,269.40	4,200.09	4,154.44	10.28	10.82	-131.18	-710.99	-186.70	974.53	953.93	20.61	47.295		
4,400.00	4,368.61	4,301.97	4,251.17	10.52	11.09	-131.13	-726.30	-187.68	994.70	973.60	21.10	47.150		
4,500.00	4,467.81	4,395.98	4,347.91	10.77	11.34	-131.09	-741.61	-188.65	1,014.86	993.29	21.57	47.039		
4,600.00	4,567.02	4,493.92	4,444.64	11.02	11.61	-131.05	-756.92	-189.63	1,035.03	1,012.96	22.07	46.897		
4,700.00	4,666.23	4,608.14	4,541.38	11.27	11.93	-131.02	-772.22	-190.61	1,055.19	1,032.58	22.61	46.660		
4,800.00	4,765.43	4,689.81	4,638.11	11.52	12.16	-130.98	-787.53	-191.58	1,075.36	1,052.28	23.08	46.594		
4,900.00	4,864.64	4,787.75	4,734.85	11.78	12.43	-130.95	-802.84	-192.56	1,095.52	1,071.93	23.59	46.435		
5,000.00	4,963.85	4,885.69	4,831.58	12.04	12.71	-130.91	-818.15	-193.54	1,115.69	1,091.58	24.11	46.273		
5,100.00	5,063.06	4,983.64	4,928.32	12.31	12.99	-130.88	-833.45	-194.51	1,135.86	1,111.22	24.63	46.108		

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 8N-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	5,162.26	5,081.58	5,025.05	12.57	13.28	130.85	-848.76	-195.49	1,156.02	1,130.86	25.16	45.943	
5,300.00	5,261.47	5,179.52	5,121.79	12.84	13.56	130.82	-864.07	-196.47	1,176.19	1,150.50	25.69	45.776	
5,400.00	5,360.68	5,277.47	5,218.52	13.11	13.85	130.79	-879.38	-197.44	1,196.36	1,170.13	26.23	45.609	
6,900.00	6,838.38	7,876.42	7,159.66	16.60	22.83	-95.08	-1,183.49	697.21	1,187.33	1,149.71	37.62	31.560	
7,000.00	6,921.84	7,821.81	7,159.53	16.62	22.33	-95.14	-1,183.65	642.59	1,164.91	1,127.35	37.56	31.014	
7,100.00	6,995.69	7,754.79	7,159.36	16.65	21.75	-94.26	-1,183.85	575.57	1,149.16	1,111.86	37.31	30.803	
7,200.00	7,058.11	7,677.01	7,159.16	16.73	21.16	-92.87	-1,184.08	497.80	1,138.73	1,101.80	36.93	30.832	
7,300.00	7,107.56	7,582.98	7,158.58	16.87	20.56	-91.19	-1,184.30	403.77	1,131.97	1,095.47	36.50	31.010	
7,400.00	7,142.82	7,454.19	7,141.30	17.11	19.99	-88.70	-1,181.99	276.39	1,125.42	1,089.37	36.05	31.216	
7,500.00	7,163.02	7,340.86	7,105.42	17.46	19.65	-86.43	-1,176.67	169.18	1,118.21	1,082.34	35.87	31.177	
7,600.00	7,168.04	7,239.54	7,057.91	17.92	19.42	-84.24	-1,169.45	80.11	1,110.92	1,075.02	35.90	30.948	
7,700.00	7,168.22	7,153.86	7,007.26	18.52	19.23	-81.56	-1,161.67	11.52	1,105.22	1,069.06	36.16	30.565	
7,791.74	7,168.38	7,089.58	6,963.54	19.18	19.09	-79.25	-1,154.91	-35.08	1,103.23	1,066.65	36.59	30.154	
7,800.00	7,168.40	7,084.39	6,959.81	19.24	19.08	-79.05	-1,154.33	-38.65	1,103.25	1,066.62	36.63	30.120	
7,900.00	7,168.58	7,028.17	6,917.64	20.08	18.95	-76.82	-1,147.78	-75.22	1,106.48	1,069.22	37.25	29.700	
8,000.00	7,168.76	6,982.40	6,881.07	21.02	18.85	-74.89	-1,142.09	-102.12	1,115.89	1,077.89	37.99	29.372	
8,100.00	7,168.94	6,944.79	6,849.65	22.04	18.76	-73.25	-1,137.18	-122.19	1,132.03	1,093.23	38.80	29.176	
8,200.00	7,169.12	6,913.54	6,822.69	23.14	18.68	-71.85	-1,132.97	-137.42	1,155.14	1,115.51	39.63	29.146	
8,300.00	7,169.29	6,887.27	6,799.48	24.31	18.62	-70.65	-1,129.33	-149.16	1,185.14	1,144.69	40.45	29.297	

# Hewlett-Packard

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<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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						
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	-140.99	-149.06	205.17				
100.00	100.00	101.00	101.00	3.28	3.28	-133.41	-140.99	-149.06	205.17	197.64	7.53	27.251	
200.00	200.00	201.00	201.00	3.31	3.31	-133.41	-140.99	-149.06	205.17	197.60	7.57	27.088	CC, ES, SF
300.00	299.98	295.96	295.94	3.35	3.34	134.08	-142.59	-149.14	207.61	199.96	7.65	27.127	
400.00	399.84	390.63	390.49	3.41	3.40	134.06	-147.32	-149.40	214.88	207.11	7.77	27.654	
500.00	499.45	484.66	484.19	3.50	3.48	134.02	-155.10	-149.82	226.93	219.00	7.93	28.605	
600.00	598.74	577.75	576.66	3.62	3.57	134.01	-165.82	-150.40	243.54	235.39	8.15	29.897	
700.00	697.94	669.97	667.87	3.76	3.70	133.77	-179.39	-151.14	262.89	254.50	8.39	31.321	
800.00	797.15	763.12	759.52	3.93	3.87	133.15	-195.94	-152.03	284.44	275.75	8.69	32.742	
900.00	896.36	860.57	855.29	4.12	4.07	132.48	-214.00	-153.01	306.59	297.55	9.04	33.916	
1,000.00	995.56	958.03	951.05	4.33	4.30	131.91	-232.07	-153.99	328.78	319.35	9.43	34.867	
1,100.00	1,094.77	1,055.49	1,046.81	4.56	4.56	131.41	-250.14	-154.97	351.00	341.15	9.85	35.628	
1,200.00	1,193.98	1,152.95	1,142.58	4.79	4.83	130.97	-268.21	-155.95	373.24	362.94	10.30	36.229	
1,300.00	1,293.19	1,250.41	1,238.34	5.04	5.12	130.58	-286.28	-156.93	395.50	384.72	10.78	36.698	
1,400.00	1,392.39	1,347.86	1,334.10	5.30	5.42	130.23	-304.35	-157.91	417.77	406.50	11.27	37.062	
1,500.00	1,491.60	1,445.32	1,429.87	5.56	5.73	129.91	-322.41	-158.88	440.06	428.28	11.78	37.342	
1,600.00	1,590.81	1,542.78	1,525.63	5.84	6.05	129.63	-340.48	-159.86	462.36	450.05	12.31	37.550	
1,700.00	1,690.01	1,640.24	1,621.39	6.12	6.38	129.37	-358.55	-160.84	484.67	471.81	12.86	37.703	
1,800.00	1,789.22	1,737.69	1,717.16	6.40	6.72	129.14	-376.62	-161.82	506.98	493.58	13.41	37.811	
1,900.00	1,888.43	1,835.15	1,812.92	6.55	7.01	128.92	-394.69	-162.80	529.31	515.89	13.42	39.454	
2,000.00	1,987.64	1,932.61	1,908.68	6.58	7.15	128.72	-412.75	-163.78	551.64	538.09	13.55	40.703	
2,100.00	2,086.84	2,030.07	2,004.45	6.63	7.19	128.54	-430.82	-164.76	573.98	560.35	13.62	42.130	
2,200.00	2,186.05	2,127.52	2,100.21	6.68	7.26	128.37	-448.89	-165.73	596.32	582.59	13.72	43.448	
2,300.00	2,285.26	2,224.98	2,195.97	6.75	7.34	128.22	-466.96	-166.71	618.67	604.81	13.86	44.652	
2,400.00	2,384.46	2,322.44	2,291.73	6.84	7.44	128.07	-485.03	-167.69	641.02	627.00	14.01	45.741	
2,500.00	2,483.67	2,419.90	2,387.50	6.94	7.55	127.93	-503.10	-168.67	663.37	649.17	14.20	46.716	
2,600.00	2,582.88	2,517.36	2,483.26	7.05	7.68	127.81	-521.16	-169.65	685.73	671.32	14.41	47.578	
2,700.00	2,682.09	2,614.81	2,579.02	7.17	7.82	127.69	-539.23	-170.63	708.09	693.44	14.65	48.333	
2,800.00	2,781.29	2,712.27	2,674.79	7.30	7.97	127.58	-557.30	-171.61	730.45	715.54	14.91	48.985	
2,900.00	2,880.50	2,809.73	2,770.55	7.45	8.14	127.47	-575.37	-172.58	752.82	737.62	15.20	49.542	
3,000.00	2,979.71	2,907.19	2,866.31	7.60	8.32	127.37	-593.44	-173.56	775.19	759.69	15.50	50.011	
3,100.00	3,078.91	3,004.64	2,962.08	7.76	8.50	127.28	-611.50	-174.54	797.56	781.73	15.83	50.395	
3,200.00	3,178.12	3,102.10	3,057.84	7.94	8.70	127.19	-629.57	-175.52	819.93	803.76	16.17	50.706	
3,300.00	3,277.33	3,199.56	3,153.60	8.12	8.91	127.11	-647.64	-176.50	842.30	825.77	16.53	50.950	
3,400.00	3,376.53	3,302.98	3,249.37	8.31	9.14	127.03	-665.71	-177.48	864.68	847.76	16.92	51.097	
3,500.00	3,475.74	3,405.53	3,345.13	8.50	9.38	126.95	-683.78	-178.46	887.06	869.73	17.33	51.195	
3,600.00	3,574.95	3,508.07	3,440.89	8.70	9.63	126.88	-701.84	-179.44	909.44	891.69	17.75	51.245	
3,700.00	3,674.16	3,589.39	3,536.66	8.91	9.83	126.81	-719.91	-180.41	931.82	913.68	18.13	51.390	
3,800.00	3,773.36	3,686.85	3,632.42	9.13	10.07	126.75	-737.98	-181.39	954.20	935.63	18.57	51.396	
3,900.00	3,872.57	3,784.31	3,728.18	9.35	10.32	126.68	-756.05	-182.37	976.58	957.57	19.01	51.372	
4,000.00	3,971.78	3,881.76	3,823.95	9.57	10.58	126.63	-774.12	-183.35	998.96	979.50	19.47	51.320	
4,100.00	4,070.98	3,979.22	3,919.71	9.80	10.85	126.57	-792.19	-184.33	1,021.35	1,001.42	19.93	51.245	
4,200.00	4,170.19	4,076.68	4,015.47	10.04	11.11	126.51	-810.25	-185.31	1,043.73	1,023.33	20.40	51.151	
4,300.00	4,269.40	4,174.14	4,111.24	10.28	11.39	126.46	-828.32	-186.29	1,066.12	1,045.23	20.89	51.040	
4,400.00	4,368.61	4,271.59	4,207.00	10.52	11.66	126.41	-846.39	-187.26	1,088.50	1,067.12	21.38	50.915	
4,500.00	4,467.81	4,369.05	4,302.76	10.77	11.94	126.36	-864.46	-188.24	1,110.89	1,089.01	21.88	50.779	
4,600.00	4,567.02	4,466.51	4,398.53	11.02	12.23	126.32	-882.53	-189.22	1,133.28	1,110.90	22.38	50.633	
4,700.00	4,666.23	4,563.97	4,494.29	11.27	12.52	126.27	-900.59	-190.20	1,155.67	1,132.77	22.89	50.479	
4,800.00	4,765.43	4,661.43	4,590.05	11.52	12.81	126.23	-918.66	-191.18	1,178.06	1,154.65	23.41	50.319	



# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	
11,000.00	7,174.13	7,236.13	7,236.13	64.77	254.64	89.22	6.22	-4,435.18	1,163.26	888.55	274.71	4.235	
11,100.00	7,174.31	7,236.31	7,236.31	66.38	254.65	89.29	6.22	-4,435.18	1,064.19	788.90	275.29	3.866	
11,200.00	7,174.49	7,236.49	7,236.49	68.00	254.66	89.35	6.22	-4,435.18	965.31	689.29	276.02	3.497	
11,300.00	7,174.67	7,236.67	7,236.67	69.62	254.66	89.42	6.22	-4,435.18	866.69	589.73	276.95	3.129	
11,400.00	7,174.85	7,236.85	7,236.85	71.24	254.67	89.49	6.22	-4,435.18	768.42	490.23	278.18	2.762	
11,500.00	7,175.03	7,237.03	7,237.03	72.87	254.67	89.56	6.22	-4,435.18	670.67	390.80	279.86	2.396	
11,600.00	7,175.21	7,237.21	7,237.21	74.50	254.68	89.62	6.22	-4,435.18	573.69	291.46	282.23	2.033	
11,700.00	7,175.39	7,237.39	7,237.39	76.12	254.69	89.69	6.22	-4,435.18	477.96	192.23	285.72	1.673	
11,800.00	7,175.57	7,237.57	7,237.57	77.75	254.69	89.76	6.22	-4,435.18	384.40	93.28	291.13	1.320	Level 3
11,900.00	7,175.75	7,237.75	7,237.75	79.39	254.70	89.83	6.22	-4,435.18	295.11	-4.83	299.94	0.984	Level 1
12,000.00	7,175.93	7,237.93	7,237.93	81.02	254.71	89.90	6.22	-4,435.18	215.44	-99.19	314.63	0.685	Level 1
12,100.00	7,176.11	7,238.11	7,238.11	82.66	254.71	89.96	6.22	-4,435.18	160.44	-173.53	333.97	0.480	Level 1
12,153.38	7,176.20	7,238.20	7,238.20	83.53	254.72	90.00	6.22	-4,435.18	151.30	-187.52	338.81	0.447	Level 1, CC, ES, SF
12,200.00	7,176.28	7,238.28	7,238.28	84.29	254.72	90.03	6.22	-4,435.18	158.32	-177.24	335.56	0.472	Level 1
12,300.00	7,176.46	7,238.46	7,238.46	85.93	254.73	90.10	6.22	-4,435.18	210.69	-106.53	317.21	0.664	Level 1
12,400.00	7,176.64	7,238.64	7,238.64	87.57	254.73	90.17	6.22	-4,435.18	289.33	-13.05	302.38	0.957	Level 1
12,500.00	7,176.82	7,238.82	7,238.82	89.21	254.74	90.24	6.22	-4,435.18	378.20	84.77	293.43	1.289	Level 3
12,600.00	7,177.00	7,239.00	7,239.00	90.85	254.74	90.30	6.22	-4,435.18	471.55	183.56	287.99	1.637	
12,700.00	7,177.18	7,239.18	7,239.18	92.49	254.75	90.37	6.22	-4,435.18	567.17	282.65	284.52	1.993	
12,800.00	7,177.36	7,239.36	7,239.36	94.14	254.76	90.44	6.22	-4,435.18	664.08	381.87	282.22	2.353	
12,900.00	7,177.54	7,239.54	7,239.54	95.78	254.76	90.51	6.22	-4,435.18	761.80	481.17	280.63	2.715	
13,000.00	7,177.72	7,239.72	7,239.72	97.43	254.77	90.57	6.22	-4,435.18	860.03	580.53	279.51	3.077	
13,100.00	7,177.90	7,239.90	7,239.90	99.07	254.78	90.64	6.22	-4,435.18	958.63	679.94	278.70	3.440	
13,200.00	7,178.08	7,240.08	7,240.08	100.72	254.78	90.71	6.22	-4,435.18	1,057.50	779.39	278.10	3.803	
13,300.00	7,178.26	7,240.26	7,240.26	102.37	254.79	90.78	6.22	-4,435.18	1,156.56	878.89	277.67	4.165	

Hewlett-Packard  
Anticollision Report

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

Offset Design	5N-66W-30 Offsets Incomplete - HOMYAK 2 - XOG SI Well - No Surveys											Offset Site Error:	0.00 usft
Survey Program:	100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,500.00	7,173.24	7,203.24	7,203.24	56.75	253.48	-89.98	-1,306.91	-2,994.10	1,184.54	874.88	309.66	3.825	
10,600.00	7,173.42	7,203.42	7,203.42	58.34	253.48	-89.99	-1,306.91	-2,994.10	1,170.52	858.53	311.99	3.752	
10,700.00	7,173.60	7,203.60	7,203.60	59.94	253.49	-90.00	-1,306.91	-2,994.10	1,164.95	850.98	313.98	3.710	
10,715.05	7,173.62	7,203.62	7,203.62	60.19	253.49	-90.00	-1,306.91	-2,994.10	1,164.86	850.61	314.24	3.707 CC, ES	
10,800.00	7,173.78	7,203.78	7,203.78	61.55	253.50	-90.01	-1,306.91	-2,994.10	1,167.95	852.38	315.57	3.701 SF	
10,900.00	7,173.95	7,203.95	7,203.95	63.16	253.50	-90.02	-1,306.91	-2,994.10	1,179.45	862.72	316.73	3.724	
11,000.00	7,174.13	7,204.13	7,204.13	64.77	253.51	-90.03	-1,306.91	-2,994.10	1,199.20	881.73	317.47	3.777	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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												<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	
14,400.00	7,180.23	7,235.23	7,235.23	120.54	254.61	-89.96	-1,266.01	-7,070.36	1,182.02	813.42	368.60	3.207	
14,500.00	7,180.41	7,235.41	7,235.41	122.19	254.62	-89.97	-1,266.01	-7,070.36	1,152.79	779.66	373.13	3.090	
14,600.00	7,180.58	7,235.58	7,235.58	123.85	254.62	-89.98	-1,266.01	-7,070.36	1,131.68	754.63	377.04	3.001	
14,700.00	7,180.76	7,235.76	7,235.76	125.50	254.63	-89.99	-1,266.01	-7,070.36	1,119.13	738.96	380.17	2.944	
14,791.22	7,180.93	7,235.93	7,235.93	127.02	254.64	-90.00	-1,266.01	-7,070.36	1,115.40	733.18	382.22	2.918 CC	
14,800.00	7,180.94	7,235.94	7,235.94	127.16	254.64	-90.00	-1,266.01	-7,070.36	1,115.44	733.06	382.38	2.917 ES, SF	
14,900.00	7,181.12	7,236.12	7,236.12	128.82	254.64	-90.01	-1,266.01	-7,070.36	1,120.70	737.10	383.60	2.922	
15,000.00	7,181.30	7,236.30	7,236.30	130.47	254.65	-90.02	-1,266.01	-7,070.36	1,134.77	750.95	383.82	2.956	
15,100.00	7,181.48	7,236.48	7,236.48	132.13	254.66	-90.03	-1,266.01	-7,070.36	1,157.35	774.23	383.13	3.021	
15,200.00	7,181.66	7,236.66	7,236.66	133.79	254.66	-90.04	-1,266.01	-7,070.36	1,187.95	806.33	381.62	3.113	

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## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	
12,300.00	7,176.46	7,262.46	7,262.46	85.93	255.58	89.37	41.46	-5,738.23	1,171.74	892.04	279.70	4.189	
12,400.00	7,176.64	7,262.64	7,262.64	87.57	255.58	89.43	41.46	-5,738.23	1,073.17	792.38	280.79	3.822	
12,500.00	7,176.82	7,262.82	7,262.82	89.21	255.59	89.48	41.46	-5,738.23	974.90	692.75	282.15	3.455	
12,600.00	7,177.00	7,263.00	7,263.00	90.85	255.59	89.54	41.46	-5,738.23	877.02	593.15	283.87	3.090	
12,700.00	7,177.18	7,263.18	7,263.18	92.49	255.60	89.59	41.46	-5,738.23	779.67	493.59	286.08	2.725	
12,800.00	7,177.36	7,263.36	7,263.36	94.14	255.61	89.64	41.46	-5,738.23	683.10	394.07	289.02	2.363	
12,900.00	7,177.54	7,263.54	7,263.54	95.78	255.61	89.70	41.46	-5,738.23	587.66	294.64	293.03	2.006	
13,000.00	7,177.72	7,263.72	7,263.72	97.43	255.62	89.75	41.46	-5,738.23	494.04	195.38	298.66	1.654	
13,100.00	7,177.90	7,263.90	7,263.90	99.07	255.63	89.81	41.46	-5,738.23	403.50	96.62	306.88	1.315	Level 3
13,200.00	7,178.08	7,264.08	7,264.08	100.72	255.63	89.86	41.46	-5,738.23	318.65	-0.52	319.18	0.998	Level 1
13,300.00	7,178.26	7,264.26	7,264.26	102.37	255.64	89.92	41.46	-5,738.23	245.50	-91.56	337.06	0.728	Level 1
13,400.00	7,178.43	7,264.43	7,264.43	104.02	255.65	89.97	41.46	-5,738.23	197.48	-159.03	356.51	0.554	Level 1
13,456.35	7,178.54	7,264.54	7,264.54	104.95	255.65	90.00	41.46	-5,738.23	189.27	-171.90	361.17	0.524	Level 1, CC, ES, SF
13,500.00	7,178.61	7,264.61	7,264.61	105.67	255.65	90.02	41.46	-5,738.23	194.24	-164.69	358.92	0.541	Level 1
13,600.00	7,178.79	7,264.79	7,264.79	107.32	255.66	90.08	41.46	-5,738.23	237.61	-103.96	341.57	0.696	Level 1
13,700.00	7,178.97	7,264.97	7,264.97	108.97	255.66	90.13	41.46	-5,738.23	308.52	-15.10	323.62	0.953	Level 1
13,800.00	7,179.15	7,265.15	7,265.15	110.62	255.67	90.19	41.46	-5,738.23	392.32	81.33	310.99	1.262	Level 3
13,900.00	7,179.33	7,265.33	7,265.33	112.27	255.68	90.24	41.46	-5,738.23	482.33	179.77	302.56	1.594	
14,000.00	7,179.51	7,265.51	7,265.51	113.92	255.68	90.29	41.46	-5,738.23	575.65	278.84	296.82	1.939	
14,100.00	7,179.69	7,265.69	7,265.69	115.58	255.69	90.35	41.46	-5,738.23	670.90	378.11	292.78	2.291	
14,200.00	7,179.87	7,265.87	7,265.87	117.23	255.70	90.40	41.46	-5,738.23	767.35	477.48	289.87	2.647	
14,300.00	7,180.05	7,266.05	7,266.05	118.88	255.70	90.46	41.46	-5,738.23	864.62	576.90	287.72	3.005	
14,400.00	7,180.23	7,266.23	7,266.23	120.54	255.71	90.51	41.46	-5,738.23	962.44	676.35	286.09	3.364	
14,500.00	7,180.41	7,266.41	7,266.41	122.19	255.72	90.57	41.46	-5,738.23	1,060.67	775.82	284.85	3.724	
14,600.00	7,180.58	7,266.58	7,266.58	123.85	255.72	90.62	41.46	-5,738.23	1,159.20	875.32	283.88	4.083	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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	
13,100.00	7,177.90	7,379.37	7,268.66	99.07	42.90	-88.25	-642.91	-6,403.18	1,135.74	1,051.49	84.26	13.479	
13,200.00	7,178.08	7,380.69	7,269.97	100.72	42.90	-88.40	-642.92	-6,403.20	1,046.60	958.39	88.21	11.865	
13,300.00	7,178.26	7,381.99	7,271.27	102.37	42.90	-88.55	-642.92	-6,403.21	959.60	866.72	92.87	10.333	
13,400.00	7,178.43	7,383.28	7,272.56	104.02	42.90	-88.70	-642.93	-6,403.23	875.37	776.99	98.38	8.898	
13,500.00	7,178.61	7,384.57	7,273.85	105.67	42.91	-88.85	-642.93	-6,403.24	794.81	689.91	104.89	7.577	
13,600.00	7,178.79	7,385.84	7,275.12	107.32	42.91	-89.00	-642.94	-6,403.25	719.14	606.60	112.54	6.390	
13,700.00	7,178.97	7,387.11	7,276.39	108.97	42.91	-89.15	-642.94	-6,403.27	650.08	528.73	121.35	5.357	
13,800.00	7,179.15	7,388.37	7,277.65	110.62	42.91	-89.29	-642.95	-6,403.28	589.95	458.83	131.12	4.499	
13,900.00	7,179.33	7,389.62	7,278.90	112.27	42.91	-89.44	-642.96	-6,403.29	541.73	400.58	141.15	3.838	
14,000.00	7,179.51	7,390.86	7,280.14	113.92	42.91	-89.58	-642.96	-6,403.31	508.83	358.74	150.09	3.390	
14,100.00	7,179.69	7,392.09	7,281.37	115.58	42.91	-89.73	-642.97	-6,403.32	494.30	338.19	156.11	3.166	
14,122.87	7,179.73	7,392.37	7,281.65	115.95	42.91	-89.76	-642.97	-6,403.32	493.77	336.87	156.90	3.147	CC, ES, SF
14,200.00	7,179.87	7,393.32	7,282.60	117.23	42.92	-89.87	-642.97	-6,403.33	499.75	341.95	157.80	3.167	
14,300.00	7,180.05	7,394.53	7,283.81	118.88	42.92	-90.01	-642.98	-6,403.35	524.57	369.42	155.15	3.381	
14,400.00	7,180.23	7,395.74	7,285.02	120.54	42.92	-90.15	-642.98	-6,403.36	566.21	416.79	149.42	3.789	
14,500.00	7,180.41	7,396.94	7,286.22	122.19	42.92	-90.29	-642.99	-6,403.37	621.30	479.07	142.22	4.368	
14,600.00	7,180.58	7,398.13	7,287.41	123.85	42.92	-90.43	-642.99	-6,403.38	686.60	551.82	134.79	5.094	
14,700.00	7,180.76	7,399.32	7,288.60	125.50	42.92	-90.56	-643.00	-6,403.40	759.49	631.71	127.78	5.944	
14,800.00	7,180.94	7,400.49	7,289.77	127.16	42.92	-90.70	-643.00	-6,403.41	838.00	716.50	121.49	6.897	
14,900.00	7,181.12	7,401.66	7,290.94	128.82	42.92	-90.84	-643.01	-6,403.42	920.67	804.70	115.98	7.938	
15,000.00	7,181.30	7,402.82	7,292.10	130.47	42.93	-90.97	-643.01	-6,403.43	1,006.50	895.31	111.19	9.052	
15,100.00	7,181.48	7,403.97	7,293.26	132.13	42.93	-91.11	-643.02	-6,403.44	1,094.73	987.68	107.05	10.226	
15,200.00	7,181.66	7,405.12	7,294.40	133.79	42.93	-91.24	-643.02	-6,403.46	1,184.84	1,081.36	103.47	11.451	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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 - STEVE J 30-6 - Noble PR Well - Actual Multishot Surveys										<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b>		100-SRC Energy_2" CONE_2.448, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-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	
12,900.00	7,177.54	7,438.65	7,243.84	95.78	41.80	-90.18	-1,264.60	-5,616.39	1,199.58	1,069.52	130.07	9.223	
13,000.00	7,177.72	7,437.56	7,242.75	97.43	41.80	-90.12	-1,264.60	-5,616.40	1,166.85	1,032.20	134.66	8.665	
13,100.00	7,177.90	7,436.48	7,241.67	99.07	41.80	-90.07	-1,264.60	-5,616.41	1,141.97	1,003.24	138.73	8.232	
13,200.00	7,178.08	7,435.40	7,240.59	100.72	41.80	-90.01	-1,264.60	-5,616.43	1,125.45	983.34	142.11	7.920	
13,300.00	7,178.26	7,434.33	7,239.52	102.37	41.80	-89.96	-1,264.60	-5,616.44	1,117.67	973.04	144.63	7.728	
13,337.30	7,178.32	7,433.93	7,239.12	102.98	41.80	-89.94	-1,264.60	-5,616.44	1,117.04	971.72	145.33	7.686 CC, ES	
13,400.00	7,178.43	7,433.26	7,238.45	104.02	41.80	-89.90	-1,264.60	-5,616.45	1,118.80	972.60	146.20	7.653 SF	
13,500.00	7,178.61	7,432.19	7,237.39	105.67	41.80	-89.85	-1,264.60	-5,616.47	1,128.83	982.04	146.79	7.690	
13,600.00	7,178.79	7,431.14	7,236.33	107.32	41.79	-89.80	-1,264.59	-5,616.48	1,147.52	1,001.07	146.44	7.836	
13,700.00	7,178.97	7,430.08	7,235.28	108.97	41.79	-89.74	-1,264.59	-5,616.49	1,174.45	1,029.19	145.25	8.085	

# Hewlett-Packard

## Anticollision Report

<b>Company:</b>	SRC ENERGY	<b>Local Co-ordinate Reference:</b>	Well SANFORD 4N-30B-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 4N-30B-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

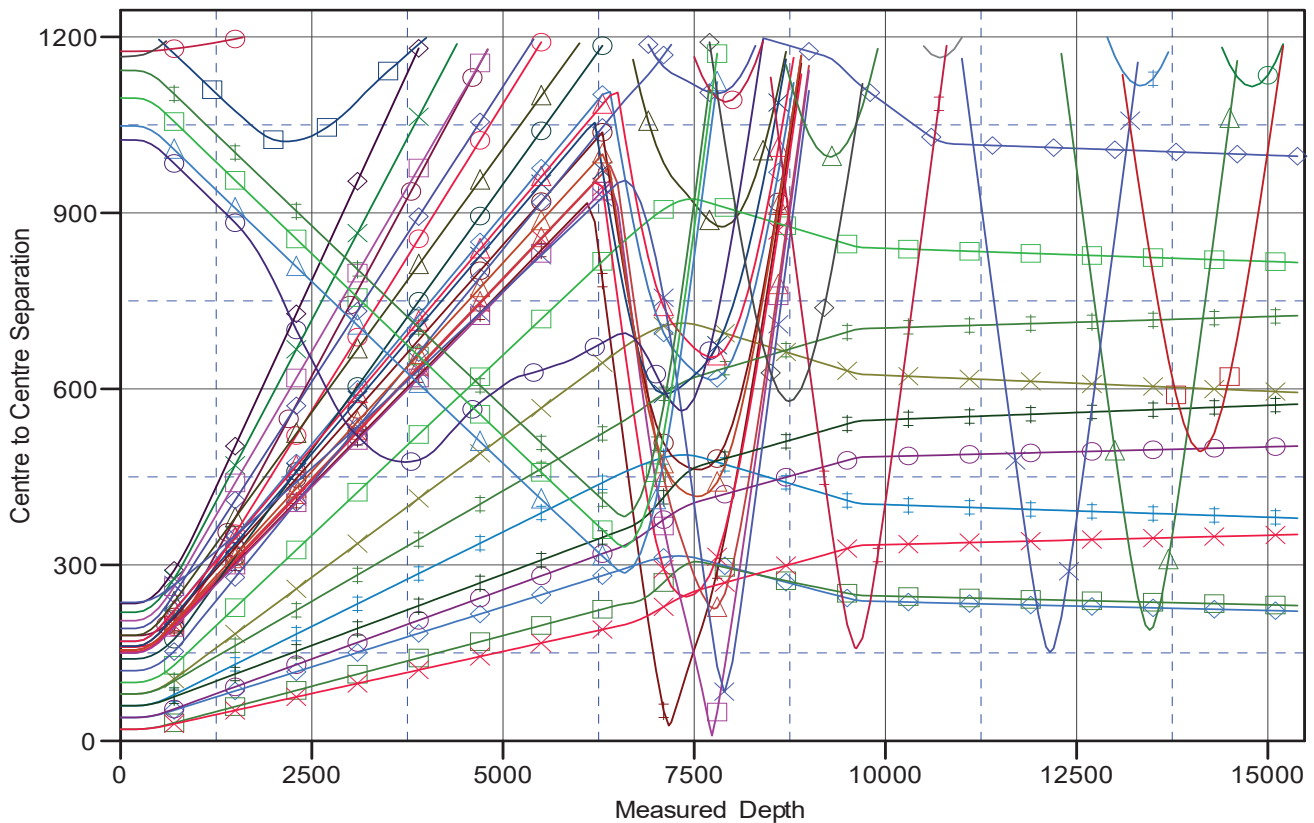
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 4N-30B-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

### Ladder Plot



### LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 5N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 32C-30-M, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL 25-3H, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 25-4H, XOG PR Well, No Surveys V0
SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	BENSLER J25-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 25-2H, Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	BENSLER J25-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	KAMMERZELL 25-5, XOG PR Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	BENSLER J25-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL 25-9H, Noble SI Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL J 25-19, Noble SI Well, Actual Coretech Gros V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	BENSLER J25-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	



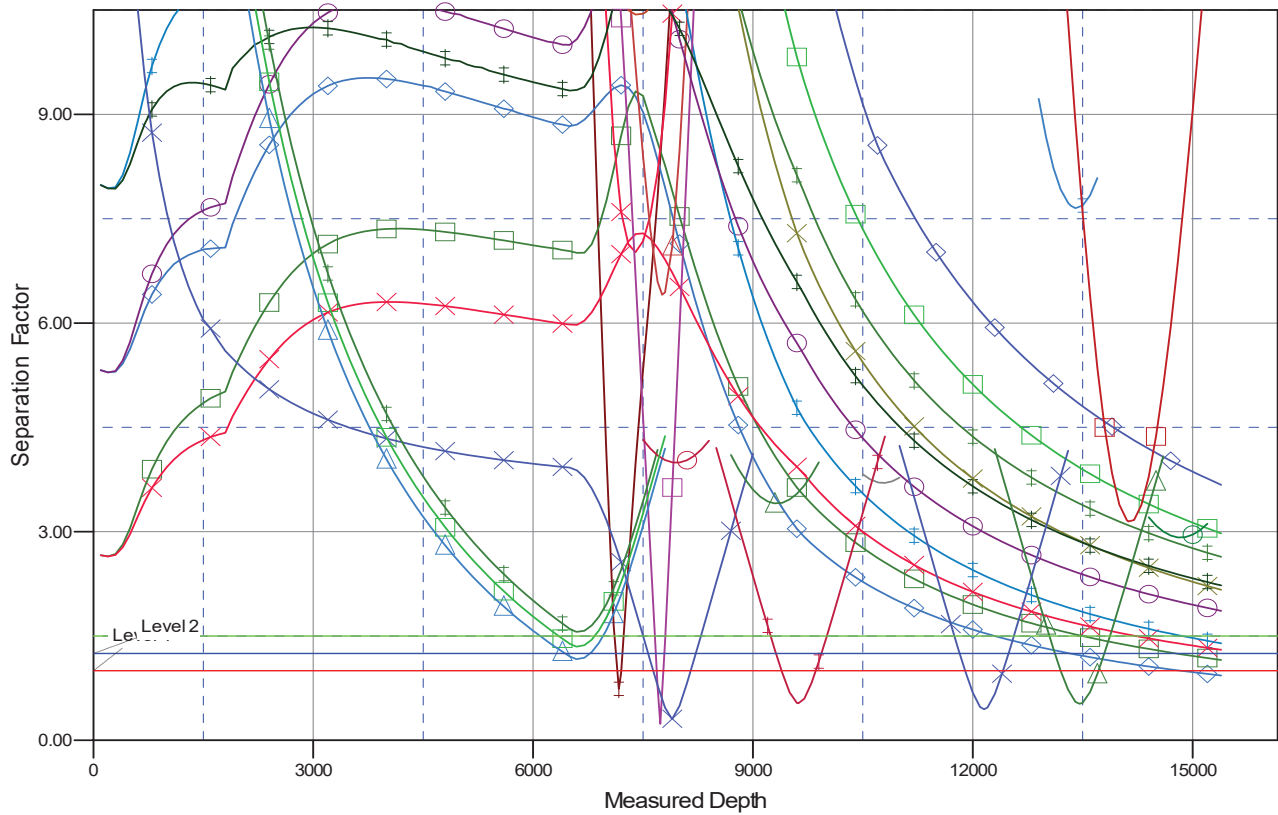
**Hewlett-Packard**  
Anticollision Report

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

## Separation Factor Plot



### LEGEND

SANFORD 32N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HONEYAK 2 XOG SI Well, No Surveys V0
SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 5N-30B-M, Wellbore #1, Design #1 V0	HONEYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 5C-30A-M, Wellbore #1, Design #1 V0	LUNDVALL J 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H, XOG PR Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	BENSLER J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H, Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	BENSLER J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 9C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 29N-27C-XR, Wellbore #1, Design #1 V0	BENSLER J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H, Noble SI Well, No Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Gross V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	BENSLER J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	