

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 31N-30B-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	10/25/2018	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:crustal field declination	
1,800.00	15,410.68	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV ; Fixed:v2:Rockies, crustal dec + 3-axis correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,367.30	2,218.54	1,003.09	979.50	42.506	CC
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	6,618.15	6,629.72	1,011.18	967.66	23.234	ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	6,700.00	6,711.53	1,016.43	972.58	23.178	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,243.33	4,264.42	71.50	37.99	2.134	CC, ES, SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	5,680.66	5,602.54	608.58	396.34	2.867	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,500.00	6,411.25	622.64	379.41	2.560	ES
BENSLER J 29-21D (Need Directional Surveys) - Noble	6,600.00	6,510.26	627.73	380.77	2.542	SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	5,902.78	5,821.77	641.55	420.86	2.907	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,500.00	6,411.25	648.67	405.37	2.666	ES
BENSLER J 29-27D (Need Directional Surveys) - Noble	6,600.00	6,510.26	652.94	405.90	2.643	SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys						Out of range
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys						Out of range
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	200.00	201.00	192.15	181.77	18.525	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	400.00	401.16	195.34	178.27	11.447	ES
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	7,916.99	7,167.50	611.20	337.98	2.237	SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,265.13	7,206.25	354.96	63.39	1.217	Level 2, CC, ES, SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys	9,650.52	7,177.39	784.04	487.69	2.646	CC, ES, SF
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,896.96	7,161.47	394.20	121.37	1.445	Level 3, CC
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	7,900.00	7,161.48	394.21	121.35	1.445	Level 3, ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	8,743.64	7,184.10	82.47	33.32	1.678	CC, ES, SF
UPRC 29-7C - Noble T/A Well - No Surveys	6,802.19	6,711.66	579.29	326.18	2.289	CC, ES
UPRC 29-7C - Noble T/A Well - No Surveys	6,900.00	6,802.17	582.94	326.67	2.275	SF
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	6,241.84	6,143.43	642.33	408.98	2.753	CC
UPV 29-2H6 - Noble SI Well - No Surveys	6,600.00	6,502.74	646.84	399.76	2.618	ES, SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SANFORD 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-29 SANFORD 21-29 PAD						
SANFORD 1C-27-XR - Wellbore #1 - Design #1	200.00	201.00	169.95	162.38	22.438	CC, ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	7,800.00	7,190.71	711.46	671.79	17.937	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	161.75	154.17	21.355	CC, ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	7,000.00	7,629.65	683.21	645.70	18.210	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	180.38	172.81	23.815	CC, ES, SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	200.05	201.06	155.24	147.66	20.496	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,209.40	476.64	440.90	13.337	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.85	28.969	CC, ES, SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	205.35	197.77	27.111	CC, ES, SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	192.12	184.54	25.364	CC, ES, SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	140.25	132.68	18.518	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	15,410.68	15,584.90	1,149.37	881.71	4.294	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	120.22	112.65	15.873	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	15,410.68	15,250.04	1,088.59	815.02	3.979	SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	160.29	152.72	21.164	CC, ES, SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	200.00	200.00	20.04	12.46	2.645	CC
SANFORD 31N-30C-M - Wellbore #1 - Design #1	15,410.68	15,470.25	227.01	-41.36	0.846	Level 1, ES, SF
SANFORD 32N-30B-M - Wellbore #1 - Design #1	376.55	372.73	98.82	91.09	12.776	CC
SANFORD 32N-30B-M - Wellbore #1 - Design #1	400.00	395.48	98.85	91.09	12.734	ES
SANFORD 32N-30B-M - Wellbore #1 - Design #1	15,410.68	15,575.49	1,099.80	825.15	4.004	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	200.00	200.00	79.78	72.21	10.534	CC, ES
SANFORD 32N-30C-M - Wellbore #1 - Design #1	15,410.68	15,602.59	881.02	606.96	3.215	SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	170.07	162.50	22.454	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	8,000.00	7,058.93	856.07	815.75	21.233	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	180.24	172.66	23.796	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	300.00	297.33	181.76	174.10	23.753	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	151.41	143.83	19.990	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	7,400.00	7,447.19	245.63	209.98	6.890	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	7,573.58	7,352.28	83.36	47.68	2.336	CC, ES, SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	200.00	200.00	60.11	52.54	7.936	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	15,410.68	15,581.01	504.32	243.45	1.933	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	200.00	200.00	40.08	32.50	5.292	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	15,410.68	15,269.02	437.50	172.13	1.649	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	80.15	72.58	10.583	CC, ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	15,410.68	15,389.84	594.12	319.65	2.165	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	100.18	92.60	13.227	CC, ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	15,410.68	15,465.85	941.72	667.67	3.436	SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	200.00	200.00	39.71	32.14	5.243	CC, ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,410.68	15,669.44	425.78	169.88	1.664	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	200.00	200.00	59.75	52.17	7.888	CC, ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	15,410.68	15,501.72	660.04	385.50	2.404	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	200.00	200.00	19.67	12.10	2.597	CC
SANFORD 5N-30C-M - Wellbore #1 - Design #1	15,410.68	15,503.87	225.64	-43.42	0.839	Level 1, ES, SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	200.00	201.00	151.32	143.75	19.979	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	7,800.00	7,234.58	183.20	146.16	4.946	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	155.08	147.50	20.475	CC, ES
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	7,553.64	7,357.20	409.59	372.82	11.140	SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	161.51	153.94	21.324	CC, ES
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	7,900.00	7,139.10	630.25	591.36	16.205	SF

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Reference Well:	SANFORD 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
5N-66W-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys	12,178.30	7,237.61	762.89	424.00	2.251	CC, ES
HOMYAK 1 - XOG PR Well - No Surveys	12,200.00	7,237.65	763.20	424.07	2.250	SF
HOMYAK 2 - XOG SI Well - No Surveys	10,732.87	7,203.20	545.47	231.21	1.736	CC, ES, SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,809.25	7,235.00	518.05	135.89	1.356	Level 3, CC, ES, SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys						Out of range
LUNDVALL 4 - Noble PR Well - No Surveys	13,481.46	7,263.78	793.82	432.59	2.198	CC, ES
LUNDVALL 4 - Noble PR Well - No Surveys	13,500.00	7,263.81	794.04	432.61	2.197	SF
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur	14,144.30	7,394.07	107.19	-49.72	0.683	Level 1, 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 Surve						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,355.35	7,433.86	511.83	366.52	3.522	CC, ES, SF

Offset Design													Offset Site Error:	0.00 usft
5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-17D - Noble PR Well - Actual En													Offset Well Error:	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	
400.00	399.84	388.84	388.84	3.41	12.22	-36.64	-61.54	1,202.49	1,198.45	1,182.02	16.42	72.977		
500.00	499.45	488.48	488.48	3.49	14.99	-36.97	-61.52	1,202.49	1,191.46	1,172.19	19.27	61.820		
600.00	598.70	586.07	586.07	3.61	15.49	-37.44	-61.38	1,202.54	1,181.77	1,161.89	19.88	59.432		
700.00	697.51	682.57	682.57	3.76	15.49	-37.98	-61.30	1,202.77	1,169.78	1,149.75	20.03	58.391		
800.00	796.21	780.15	780.15	3.95	15.50	-38.46	-61.30	1,203.15	1,157.49	1,137.28	20.21	57.278		
900.00	894.91	878.77	878.77	4.16	15.52	-38.96	-61.39	1,203.62	1,145.37	1,124.96	20.41	56.123		
1,000.00	993.61	981.11	981.11	4.40	15.54	-39.47	-61.60	1,203.91	1,133.16	1,112.52	20.63	54.916		
1,100.00	1,092.32	1,081.45	1,081.45	4.66	15.56	-39.98	-61.91	1,203.94	1,120.76	1,099.88	20.88	53.674		
1,200.00	1,191.02	1,180.05	1,180.05	4.93	15.58	-40.51	-62.05	1,203.93	1,108.43	1,087.29	21.15	52.420		
1,300.00	1,289.72	1,276.01	1,276.01	5.21	15.61	-41.01	-62.45	1,204.03	1,096.30	1,074.88	21.43	51.164		
1,400.00	1,388.42	1,383.81	1,383.74	5.51	15.65	-41.44	-65.89	1,204.01	1,084.06	1,062.33	21.73	49.890		
1,500.00	1,487.13	1,478.59	1,478.25	5.81	15.70	-41.59	-73.02	1,203.94	1,071.65	1,049.60	22.04	48.616		
1,600.00	1,585.83	1,590.33	1,589.48	6.13	15.75	-41.66	-83.67	1,203.92	1,059.29	1,036.91	22.38	47.340		
1,700.00	1,684.53	1,693.13	1,691.38	6.45	15.82	-41.53	-97.05	1,202.27	1,045.17	1,022.45	22.72	45.998		
1,800.00	1,783.23	1,779.37	1,776.51	6.78	15.89	-41.28	-110.81	1,201.74	1,031.98	1,008.89	23.08	44.709		
1,900.00	1,881.94	1,851.76	1,847.87	6.96	15.95	-41.02	-122.96	1,202.58	1,020.59	997.50	23.09	44.197		
2,000.00	1,980.64	1,919.24	1,914.39	6.99	16.01	-40.80	-133.89	1,205.40	1,012.22	989.06	23.16	43.705		
2,100.00	2,079.34	1,988.53	1,982.63	7.05	16.08	-40.59	-144.75	1,210.56	1,007.08	983.85	23.23	43.351		
2,200.00	2,178.04	2,068.28	2,061.23	7.12	16.16	-40.42	-155.76	1,218.41	1,004.43	981.09	23.33	43.049		
2,300.00	2,276.75	2,157.13	2,148.71	7.20	16.26	-40.27	-167.46	1,228.49	1,003.30	979.82	23.48	42.733		
2,367.30	2,343.17	2,218.54	2,209.04	7.27	16.34	-40.13	-176.23	1,235.95	1,003.09	979.50	23.60	42.506 CC		
2,400.00	2,375.45	2,244.71	2,234.70	7.30	16.38	-40.05	-180.19	1,239.28	1,003.19	979.54	23.65	42.424		
2,500.00	2,474.15	2,322.02	2,310.23	7.42	16.50	-39.80	-192.40	1,250.30	1,005.02	981.22	23.80	42.235		
2,600.00	2,572.85	2,410.01	2,395.99	7.54	16.65	-39.52	-206.12	1,264.39	1,008.66	984.66	24.00	42.025		
2,700.00	2,671.56	2,508.02	2,491.38	7.68	16.84	-39.18	-222.02	1,280.30	1,012.57	988.30	24.27	41.720		
2,800.00	2,770.26	2,592.16	2,572.81	7.84	17.02	-38.80	-237.16	1,295.11	1,017.91	993.41	24.50	41.540		
2,900.00	2,868.96	2,689.19	2,666.43	8.00	17.26	-38.31	-255.80	1,312.53	1,023.77	998.94	24.83	41.236		
3,000.00	2,967.66	2,779.26	2,752.89	8.18	17.51	-37.77	-274.52	1,329.42	1,030.57	1,005.43	25.14	40.991		
3,100.00	3,066.37	2,874.32	2,843.89	8.36	17.81	-37.17	-295.07	1,347.70	1,038.04	1,012.54	25.50	40.704		
3,200.00	3,165.07	2,977.45	2,962.05	8.56	18.17	-36.44	-320.91	1,370.75	1,045.17	1,019.16	26.01	40.180		

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Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design										5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLEJ 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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	3,263.77	3,092.58	3,053.67	8.76	18.48	-35.91	-340.39	1,387.38	1,051.00	1,024.60	26.40	39.814				
3,400.00	3,362.47	3,196.53	3,153.81	8.97	18.82	-35.36	-361.40	1,405.71	1,057.08	1,030.24	26.84	39.379				
3,500.00	3,461.18	3,303.46	3,257.34	9.19	19.16	-34.89	-381.20	1,423.61	1,062.14	1,034.84	27.30	38.907				
3,600.00	3,559.88	3,388.77	3,340.11	9.42	19.44	-34.59	-395.62	1,438.40	1,067.75	1,040.09	27.66	38.606				
3,700.00	3,658.58	3,493.33	3,441.50	9.65	19.80	-34.29	-412.39	1,457.73	1,074.46	1,046.33	28.13	38.198				
3,800.00	3,757.28	3,591.77	3,537.06	9.89	20.15	-33.99	-428.30	1,475.18	1,080.41	1,051.83	28.58	37.805				
3,900.00	3,855.99	3,706.40	3,648.28	10.14	20.58	-33.58	-448.17	1,494.55	1,085.68	1,056.54	29.13	37.265				
4,000.00	3,954.69	3,795.70	3,735.02	10.39	20.91	-33.28	-463.24	1,509.48	1,090.79	1,061.24	29.56	36.904				
4,100.00	4,053.39	3,878.41	3,815.15	10.65	21.25	-33.03	-477.01	1,524.67	1,097.52	1,067.57	29.96	36.636				
4,200.00	4,152.09	3,972.28	3,905.76	10.91	21.66	-32.68	-493.77	1,542.59	1,105.21	1,074.77	30.44	36.309				
4,300.00	4,250.79	4,073.71	4,003.52	11.17	22.12	-32.29	-512.45	1,562.12	1,113.19	1,082.22	30.97	35.939				
4,400.00	4,349.50	4,173.43	4,099.71	11.44	22.56	-31.91	-530.78	1,581.00	1,120.90	1,089.40	31.49	35.592				
4,500.00	4,448.20	4,280.89	4,203.62	11.71	23.02	-31.58	-548.98	1,601.42	1,128.50	1,096.45	32.05	35.209				
4,600.00	4,546.90	4,398.29	4,317.63	11.99	23.51	-31.24	-568.37	1,621.62	1,134.14	1,101.47	32.67	34.718				
4,700.00	4,645.60	4,501.52	4,417.79	12.27	23.96	-30.94	-585.62	1,639.69	1,140.27	1,107.06	33.21	34.331				
4,800.00	4,744.31	4,603.37	4,517.07	12.55	24.39	-30.72	-600.98	1,656.47	1,145.09	1,111.33	33.76	33.920				
4,900.00	4,843.01	4,688.43	4,599.67	12.84	24.78	-30.47	-615.07	1,671.05	1,150.87	1,116.66	34.22	33.633				
5,000.00	4,941.71	4,790.63	4,698.99	13.12	25.23	-30.27	-630.53	1,689.56	1,157.39	1,122.62	34.77	33.287				
5,100.00	5,040.41	4,912.51	4,817.86	13.41	25.74	-30.05	-648.06	1,709.97	1,162.36	1,126.94	35.42	32.815				
5,200.00	5,139.12	5,017.54	4,920.24	13.71	26.20	-29.79	-664.67	1,726.47	1,166.63	1,130.64	35.99	32.415				
5,300.00	5,237.82	5,180.31	5,079.98	14.00	26.83	-29.51	-687.21	1,747.91	1,168.12	1,131.33	36.79	31.751				
5,400.00	5,336.52	5,366.42	5,264.73	14.30	27.35	-29.53	-704.11	1,761.73	1,162.95	1,125.43	37.52	30.996				
5,500.00	5,435.22	5,492.78	5,390.87	14.60	27.60	-29.76	-710.36	1,765.73	1,152.87	1,114.83	38.04	30.308				
5,600.00	5,533.93	5,615.54	5,513.60	14.90	27.77	-30.24	-710.93	1,767.66	1,140.50	1,101.97	38.53	29.603				
5,700.00	5,632.63	5,723.47	5,621.52	15.20	27.89	-30.75	-709.89	1,768.26	1,127.00	1,088.00	39.00	28.898				
5,800.00	5,731.33	5,832.02	5,730.06	15.50	28.00	-31.31	-707.95	1,767.94	1,112.63	1,073.16	39.47	28.187				
5,900.00	5,830.03	5,922.06	5,820.08	15.81	28.10	-31.77	-706.64	1,767.69	1,098.42	1,058.46	39.96	27.489				
6,000.00	5,928.74	6,013.55	5,911.57	16.11	28.21	-32.21	-706.24	1,768.00	1,085.02	1,044.58	40.44	26.828				
6,100.00	6,027.44	6,108.09	6,006.11	16.42	28.34	-32.64	-706.33	1,768.72	1,072.18	1,031.24	40.94	26.188				
6,200.00	6,126.14	6,206.30	6,104.31	16.73	28.48	-33.09	-706.80	1,769.73	1,059.72	1,018.27	41.45	25.568				
6,300.00	6,224.84	6,308.48	6,206.48	17.04	28.63	-33.54	-707.66	1,770.53	1,047.10	1,005.15	41.96	24.957				
6,400.00	6,323.55	6,410.28	6,308.28	17.35	28.78	-33.99	-708.73	1,770.98	1,034.25	991.78	42.47	24.353				
6,500.00	6,422.25	6,511.91	6,409.91	17.67	28.93	-34.45	-709.67	1,771.17	1,021.19	978.20	42.99	23.757				
6,600.00	6,521.26	6,611.51	6,509.51	17.91	29.07	-73.82	-710.47	1,771.22	1,011.44	967.99	43.45	23.279				
6,618.15	6,539.31	6,629.72	6,527.71	17.94	29.09	-89.67	-710.61	1,771.22	1,011.18	967.66	43.52	23.234	ES			
6,700.00	6,620.47	6,711.53	6,609.52	18.07	29.21	-138.89	-711.16	1,771.20	1,016.43	972.58	43.85	23.178	SF			
6,800.00	6,717.57	6,811.88	6,709.87	18.18	29.35	-157.00	-711.57	1,771.12	1,036.96	992.74	44.22	23.449				
6,900.00	6,810.17	6,909.71	6,807.69	18.24	29.49	-163.72	-712.70	1,770.24	1,071.88	1,027.34	44.54	24.063				
7,000.00	6,895.98	6,992.96	6,890.93	18.27	29.62	-167.13	-713.49	1,769.65	1,121.25	1,076.43	44.82	25.015				
7,100.00	6,972.90	7,070.13	6,968.10	18.27	29.73	-169.18	-714.06	1,769.25	1,183.80	1,138.75	45.06	26.273				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens		Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD													Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
0.00	0.00	0.00	0.00	3.28	3.28	93.66	-64.82	1,013.59	1,015.72							
100.00	100.00	89.00	89.00	3.28	3.56	93.66	-64.82	1,013.59	1,015.66	1,008.03	7.63	133.120				
200.00	200.00	189.00	189.00	3.31	5.73	93.66	-64.82	1,013.59	1,015.66	1,005.83	9.82	103.386				
300.00	299.98	288.98	288.98	3.35	8.87	-35.71	-64.82	1,013.59	1,014.24	1,001.24	13.00	77.995				
400.00	399.84	388.84	388.84	3.41	12.22	-35.94	-64.82	1,013.59	1,010.00	993.57	16.42	61.501				
500.00	499.45	488.44	488.44	3.49	14.99	-36.31	-64.80	1,013.59	1,002.95	983.67	19.27	52.040				
600.00	598.70	587.88	587.88	3.61	16.12	-36.86	-64.55	1,013.60	993.13	972.61	20.52	48.388				
700.00	697.51	687.39	687.39	3.76	16.13	-37.49	-64.63	1,013.54	980.76	960.09	20.67	47.440				
800.00	796.21	785.59	785.59	3.95	16.14	-38.05	-64.87	1,013.47	967.95	947.10	20.85	46.431				
900.00	894.91	884.16	884.16	4.16	16.15	-38.64	-64.93	1,013.45	955.27	934.22	21.05	45.391				
1,000.00	993.61	983.82	983.82	4.40	16.17	-39.23	-65.23	1,013.37	942.64	921.37	21.27	44.317				
1,100.00	1,092.32	1,083.38	1,083.38	4.66	16.20	-39.82	-65.86	1,013.20	930.01	908.49	21.52	43.223				
1,200.00	1,191.02	1,182.80	1,182.79	4.93	16.22	-40.42	-66.50	1,012.94	917.40	895.62	21.78	42.119				
1,300.00	1,289.72	1,281.86	1,281.85	5.21	16.25	-41.03	-67.23	1,012.63	904.84	882.78	22.07	41.007				
1,400.00	1,388.42	1,381.43	1,381.41	5.51	16.29	-41.65	-68.27	1,012.29	892.35	869.99	22.36	39.900				
1,500.00	1,487.13	1,485.65	1,485.62	5.81	16.33	-42.30	-69.46	1,011.54	879.58	856.90	22.68	38.780				
1,600.00	1,585.83	1,603.59	1,603.53	6.13	16.38	-43.05	-71.08	1,009.46	865.94	842.94	23.01	37.639				
1,700.00	1,684.53	1,737.14	1,736.80	6.45	16.45	-43.76	-75.88	1,002.45	848.75	825.43	23.32	36.400				
1,800.00	1,783.23	1,863.05	1,861.96	6.78	16.53	-44.21	-84.21	991.61	828.16	804.55	23.62	35.067				
1,900.00	1,881.94	1,993.58	1,991.10	6.96	16.64	-44.68	-93.77	975.39	803.79	780.24	23.55	34.137				
2,000.00	1,980.64	2,113.24	2,108.60	6.99	16.76	-44.87	-106.32	956.58	775.97	752.40	23.57	32.922				
2,100.00	2,079.34	2,246.13	2,237.83	7.05	16.95	-44.87	-123.47	930.85	744.44	720.91	23.53	31.635				
2,200.00	2,178.04	2,345.11	2,333.12	7.12	17.12	-44.68	-138.57	908.75	709.82	686.15	23.67	29.983				
2,300.00	2,276.75	2,429.45	2,414.05	7.20	17.28	-44.27	-154.01	890.76	675.92	652.01	23.92	28.258				
2,400.00	2,375.45	2,527.11	2,507.90	7.30	17.47	-43.69	-172.34	870.95	643.05	618.94	24.11	26.666				
2,500.00	2,474.15	2,627.60	2,603.98	7.42	17.70	-42.99	-191.70	848.79	608.47	584.14	24.32	25.015				
2,600.00	2,572.85	2,749.78	2,720.58	7.54	18.03	-42.24	-213.23	819.33	572.26	547.87	24.39	23.463				
2,700.00	2,671.56	2,840.76	2,806.59	7.68	18.33	-41.50	-230.09	794.98	533.36	508.65	24.72	21.578				
2,800.00	2,770.26	2,926.72	2,888.01	7.84	18.60	-40.74	-245.62	772.16	494.81	469.71	25.10	19.715				
2,900.00	2,868.96	3,005.69	2,963.37	8.00	18.85	-40.02	-259.36	753.00	458.51	432.95	25.56	17.941				
3,000.00	2,967.66	3,095.20	3,048.87	8.18	19.15	-38.82	-276.75	733.09	424.24	398.26	25.98	16.330				
3,100.00	3,066.37	3,195.22	3,144.01	8.36	19.54	-37.05	-297.36	710.06	389.47	363.09	26.37	14.768				
3,200.00	3,165.07	3,289.35	3,233.89	8.56	19.89	-35.50	-314.12	687.71	354.23	327.41	26.81	13.211				
3,300.00	3,263.77	3,378.38	3,319.32	8.76	20.22	-34.11	-327.94	666.82	319.37	292.06	27.31	11.692				
3,400.00	3,362.47	3,465.06	3,403.03	8.97	20.53	-32.60	-341.03	648.55	286.96	259.09	27.87	10.298				
3,500.00	3,461.18	3,557.38	3,492.66	9.19	20.85	-30.82	-354.37	630.87	256.55	228.16	28.39	9.036				
3,600.00	3,559.88	3,647.55	3,580.41	9.42	21.17	-28.81	-366.92	614.39	227.21	198.25	28.97	7.844				
3,700.00	3,658.58	3,739.07	3,670.28	9.65	21.46	-27.07	-377.42	600.68	200.83	171.31	29.52	6.803				
3,800.00	3,757.28	3,842.50	3,771.62	9.89	21.81	-24.15	-390.19	584.47	174.32	144.31	30.01	5.808				
3,900.00	3,855.99	3,944.34	3,869.94	10.14	22.24	-18.42	-404.92	562.48	143.50	112.86	30.64	4.683				
4,000.00	3,954.69	4,037.57	3,959.09	10.39	22.70	-9.07	-419.73	539.61	112.63	80.96	31.67	3.557				
4,100.00	4,053.39	4,129.58	4,046.68	10.65	23.17	6.82	-435.78	516.44	87.15	54.24	32.91	2.648				
4,200.00	4,152.09	4,223.23	4,135.93	10.91	23.64	30.88	-451.83	493.04	72.95	39.32	33.63	2.169				
4,243.33	4,194.86	4,264.42	4,175.42	11.02	23.83	42.70	-458.14	483.19	71.50	37.99	33.51	2.134 CC, ES, SF				
4,300.00	4,250.79	4,319.33	4,228.38	11.17	24.07	57.71	-465.60	470.81	73.65	40.59	33.06	2.228				
4,400.00	4,349.50	4,415.01	4,321.55	11.44	24.47	78.70	-476.31	451.81	85.29	53.05	32.24	2.646				
4,500.00	4,448.20	4,513.18	4,417.33	11.71	24.87	93.28	-487.56	433.47	105.04	72.91	32.13	3.269				
4,600.00	4,546.90	4,614.89	4,517.52	11.99	25.21	103.24	-496.28	418.43	124.44	91.91	32.53	3.825				
4,700.00	4,645.60	4,717.18	4,618.96	12.27	25.50	110.03	-503.69	407.51	142.13	109.06	33.07	4.298				
4,800.00	4,744.31	4,818.84	4,720.14	12.55	25.74	115.38	-509.25	399.46	158.01	124.38	33.63	4.699				
4,900.00	4,843.01	4,919.17	4,820.17	12.84	25.95	119.76	-513.79	393.18	173.06	138.86	34.20	5.060				
5,000.00	4,941.71	5,021.35	4,922.10	13.12	26.16	123.09	-519.21	388.57	187.51	152.72	34.78	5.391				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	5,040.41	5,121.21	5,021.80	13.41	26.34	125.81	-524.24	385.93	200.60	165.25	35.35	5.674	
5,200.00	5,139.12	5,223.64	5,124.15	13.71	26.50	128.97	-526.62	383.44	213.32	177.38	35.94	5.935	
5,300.00	5,237.82	5,325.73	5,226.23	14.00	26.62	132.50	-525.79	382.34	224.81	188.28	36.54	6.153	
5,400.00	5,336.52	5,425.46	5,325.96	14.30	26.73	135.62	-524.82	382.19	236.10	198.98	37.12	6.360	
5,500.00	5,435.22	5,524.58	5,425.07	14.60	26.84	138.38	-524.09	382.48	247.58	209.88	37.70	6.568	
5,600.00	5,533.93	5,623.03	5,523.53	14.90	26.96	140.75	-523.93	382.76	259.59	221.33	38.26	6.785	
5,700.00	5,632.63	5,726.10	5,626.59	15.20	27.07	142.93	-524.12	383.62	271.45	232.65	38.80	6.996	
5,800.00	5,731.33	5,830.92	5,731.36	15.50	27.18	145.05	-524.07	386.65	281.63	242.30	39.33	7.161	
5,900.00	5,830.03	5,921.02	5,821.44	15.81	27.28	146.62	-524.54	388.39	292.96	253.09	39.87	7.348	
6,000.00	5,928.74	6,014.85	5,915.26	16.11	27.41	147.91	-525.92	387.95	306.79	266.41	40.38	7.597	
6,100.00	6,027.44	6,114.72	6,015.12	16.42	27.56	149.17	-527.40	387.12	321.14	280.24	40.90	7.852	
6,200.00	6,126.14	6,215.06	6,115.45	16.73	27.71	150.37	-528.63	386.73	335.24	293.83	41.41	8.095	
6,300.00	6,224.84	6,315.88	6,216.26	17.04	27.86	151.46	-530.12	386.85	348.93	307.01	41.92	8.324	
6,400.00	6,323.55	6,414.44	6,314.81	17.35	28.00	152.45	-531.60	387.26	362.45	320.03	42.42	8.545	
6,500.00	6,422.25	6,512.73	6,413.09	17.67	28.13	153.43	-532.59	387.58	376.25	333.34	42.91	8.768	
6,600.00	6,521.26	6,612.50	6,512.86	17.91	28.27	115.54	-533.43	387.97	386.83	343.47	43.36	8.921	
6,700.00	6,620.47	6,712.35	6,612.70	18.07	28.42	52.66	-534.30	388.53	383.11	339.35	43.77	8.754	
6,800.00	6,717.57	6,809.85	6,710.19	18.18	28.56	37.89	-535.19	389.20	364.69	320.53	44.16	8.258	
6,900.00	6,810.17	6,901.83	6,802.17	18.24	28.69	36.13	-536.01	389.87	332.73	288.17	44.55	7.468	
7,000.00	6,895.98	6,986.67	6,887.00	18.27	28.81	40.36	-536.61	390.35	289.40	244.43	44.97	6.436	
7,100.00	6,972.90	7,063.15	6,963.48	18.27	28.92	50.42	-537.03	390.69	238.23	192.80	45.43	5.243	
7,200.00	7,039.03	7,128.87	7,029.19	18.25	29.01	66.68	-537.28	391.04	186.59	140.67	45.92	4.063	
7,300.00	7,092.74	7,181.97	7,082.29	18.23	29.09	85.05	-537.42	391.38	151.88	106.01	45.87	3.311	
7,333.10	7,107.55	7,196.60	7,096.93	18.23	29.11	90.16	-537.45	391.47	149.04	103.53	45.52	3.274	
7,400.00	7,132.71	7,221.40	7,121.73	18.23	29.15	97.55	-537.52	391.64	161.11	116.75	44.36	3.632	
7,500.00	7,157.96	7,246.02	7,146.35	18.28	29.18	100.02	-537.58	391.81	216.24	172.98	43.26	4.999	
7,600.00	7,167.85	7,255.23	7,155.56	18.46	29.20	91.49	-537.61	391.88	295.25	252.20	43.05	6.858	
7,700.00	7,168.14	7,254.82	7,155.14	18.86	29.20	89.48	-537.61	391.87	383.99	340.89	43.10	8.910	
7,800.00	7,168.31	7,254.28	7,154.61	19.49	29.20	89.28	-537.61	391.87	477.20	434.01	43.19	11.048	
7,900.00	7,168.48	7,253.75	7,154.07	20.27	29.19	89.08	-537.61	391.87	572.71	529.42	43.28	13.231	
8,000.00	7,168.64	7,253.21	7,153.54	21.18	29.19	88.88	-537.61	391.86	669.53	626.16	43.36	15.440	
8,100.00	7,168.81	7,252.68	7,153.00	22.18	29.19	88.69	-537.60	391.86	767.16	723.73	43.43	17.663	
8,200.00	7,168.98	7,252.14	7,152.47	23.25	29.19	88.49	-537.60	391.86	865.34	821.84	43.49	19.895	
8,300.00	7,169.14	7,251.61	7,151.93	24.40	29.19	88.29	-537.60	391.85	963.89	920.34	43.55	22.133	
8,400.00	7,169.31	7,251.07	7,151.40	25.60	29.19	88.09	-537.60	391.85	1,062.71	1,019.11	43.60	24.374	
8,500.00	7,169.48	7,250.54	7,150.87	26.85	29.19	87.90	-537.60	391.84	1,161.73	1,118.08	43.65	26.615	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)											Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	93.47	-63.01	1,037.83	1,039.80					
100.00	100.00	89.00	89.00	3.28	3.56	93.47	-63.01	1,037.83	1,039.74	1,032.11	7.63	136.276		
200.00	200.00	189.00	189.00	3.31	5.73	93.47	-63.01	1,037.83	1,039.74	1,029.91	9.82	105.837		
300.00	299.98	288.98	288.98	3.35	8.87	-35.90	-63.01	1,037.83	1,038.32	1,025.32	13.00	79.847		
400.00	399.84	388.84	388.84	3.41	12.22	-36.12	-63.01	1,037.83	1,034.09	1,017.67	16.42	62.968		
500.00	499.45	488.45	488.45	3.49	15.65	-36.49	-63.01	1,037.83	1,027.05	1,007.12	19.94	51.513		
600.00	598.70	587.70	587.70	3.61	19.11	-37.01	-63.01	1,037.83	1,017.26	993.76	23.51	43.279		
700.00	697.51	686.51	686.51	3.76	22.56	-37.63	-63.01	1,037.83	1,004.97	977.86	27.11	37.075		
800.00	796.21	785.21	785.21	3.95	26.03	-38.19	-63.01	1,037.83	992.24	961.51	30.73	32.285		
900.00	894.91	883.91	883.91	4.16	29.50	-38.77	-63.01	1,037.83	979.61	945.21	34.39	28.483		
1,000.00	993.61	982.61	982.61	4.40	32.98	-39.36	-63.01	1,037.83	967.08	929.00	38.08	25.399		
1,100.00	1,092.32	1,081.32	1,081.32	4.66	36.46	-39.97	-63.01	1,037.83	954.65	912.87	41.78	22.849		
1,200.00	1,191.02	1,180.02	1,180.02	4.93	39.94	-40.60	-63.01	1,037.83	942.33	896.83	45.50	20.708		
1,300.00	1,289.72	1,278.72	1,278.72	5.21	43.43	-41.24	-63.01	1,037.83	930.13	880.89	49.24	18.888		
1,400.00	1,388.42	1,377.42	1,377.42	5.51	46.92	-41.89	-63.01	1,037.83	918.05	865.05	53.00	17.322		
1,500.00	1,487.13	1,476.13	1,476.13	5.81	50.41	-42.57	-63.01	1,037.83	906.09	849.33	56.76	15.962		
1,600.00	1,585.83	1,574.83	1,574.83	6.13	53.90	-43.26	-63.01	1,037.83	894.26	833.72	60.54	14.771		
1,700.00	1,684.53	1,673.53	1,673.53	6.45	57.39	-43.97	-63.01	1,037.83	882.56	818.23	64.33	13.720		
1,800.00	1,783.23	1,772.23	1,772.23	6.78	60.88	-44.70	-63.01	1,037.83	871.00	802.88	68.12	12.786		
1,900.00	1,881.94	1,870.94	1,870.94	6.96	64.37	-45.45	-63.01	1,037.83	859.59	788.01	71.58	12.009		
2,000.00	1,980.64	1,969.64	1,969.64	6.99	67.87	-46.21	-63.01	1,037.83	848.33	773.22	75.11	11.295		
2,100.00	2,079.34	2,068.34	2,068.34	7.05	71.36	-47.00	-63.01	1,037.83	837.22	758.56	78.66	10.644		
2,200.00	2,178.04	2,167.04	2,167.04	7.12	74.85	-47.81	-63.01	1,037.83	826.27	744.05	82.22	10.049		
2,300.00	2,276.75	2,265.75	2,265.75	7.20	78.35	-48.64	-63.01	1,037.83	815.50	729.69	85.81	9.504		
2,400.00	2,375.45	2,364.45	2,364.45	7.30	81.84	-49.49	-63.01	1,037.83	804.90	715.50	89.40	9.003		
2,500.00	2,474.15	2,463.15	2,463.15	7.42	85.34	-50.36	-63.01	1,037.83	794.48	701.47	93.02	8.541		
2,600.00	2,572.85	2,561.85	2,561.85	7.54	88.83	-51.26	-63.01	1,037.83	784.26	687.61	96.65	8.115		
2,700.00	2,671.56	2,660.56	2,660.56	7.68	92.33	-52.18	-63.01	1,037.83	774.23	673.94	100.29	7.720		
2,800.00	2,770.26	2,759.26	2,759.26	7.84	95.82	-53.12	-63.01	1,037.83	764.41	660.46	103.95	7.354		
2,900.00	2,868.96	2,857.96	2,857.96	8.00	99.32	-54.09	-63.01	1,037.83	754.80	647.19	107.61	7.014		
3,000.00	2,967.66	2,956.66	2,956.66	8.18	102.81	-55.08	-63.01	1,037.83	745.42	634.12	111.30	6.698		
3,100.00	3,066.37	3,055.37	3,055.37	8.36	106.31	-56.10	-63.01	1,037.83	736.26	621.27	114.99	6.403		
3,200.00	3,165.07	3,154.07	3,154.07	8.56	109.80	-57.14	-63.01	1,037.83	727.34	608.65	118.69	6.128		
3,300.00	3,263.77	3,252.77	3,252.77	8.76	113.30	-58.20	-63.01	1,037.83	718.68	596.27	122.40	5.871		
3,400.00	3,362.47	3,351.47	3,351.47	8.97	116.79	-59.29	-63.01	1,037.83	710.27	584.14	126.12	5.632		
3,500.00	3,461.18	3,450.18	3,450.18	9.19	120.29	-60.41	-63.01	1,037.83	702.12	572.27	129.85	5.407		
3,600.00	3,559.88	3,548.88	3,548.88	9.42	123.79	-61.55	-63.01	1,037.83	694.25	560.66	133.59	5.197		
3,700.00	3,658.58	3,647.58	3,647.58	9.65	127.28	-62.72	-63.01	1,037.83	686.67	549.34	137.34	5.000		
3,800.00	3,757.28	3,746.28	3,746.28	9.89	130.78	-63.91	-63.01	1,037.83	679.38	538.30	141.09	4.815		
3,900.00	3,855.99	3,844.99	3,844.99	10.14	134.28	-65.12	-63.01	1,037.83	672.40	527.56	144.84	4.642		
4,000.00	3,954.69	3,943.69	3,943.69	10.39	137.77	-66.36	-63.01	1,037.83	665.73	517.12	148.61	4.480		
4,100.00	4,053.39	4,042.39	4,042.39	10.65	141.27	-67.63	-63.01	1,037.83	659.38	507.01	152.38	4.327		
4,200.00	4,152.09	4,141.09	4,141.09	10.91	144.76	-68.91	-63.01	1,037.83	653.37	497.22	156.15	4.184		
4,300.00	4,250.79	4,239.79	4,239.79	11.17	148.26	-70.22	-63.01	1,037.83	647.70	487.78	159.92	4.050		
4,400.00	4,349.50	4,338.50	4,338.50	11.44	151.76	-71.56	-63.01	1,037.83	642.38	478.68	163.70	3.924		
4,500.00	4,448.20	4,437.20	4,437.20	11.71	155.25	-72.91	-63.01	1,037.83	637.42	469.94	167.49	3.806		
4,600.00	4,546.90	4,535.90	4,535.90	11.99	158.75	-74.28	-63.01	1,037.83	632.83	461.56	171.27	3.695		
4,700.00	4,645.60	4,634.60	4,634.60	12.27	162.25	-75.67	-63.01	1,037.83	628.62	453.56	175.06	3.591		
4,800.00	4,744.31	4,733.31	4,733.31	12.55	165.74	-77.08	-63.01	1,037.83	624.79	445.94	178.85	3.493		
4,900.00	4,843.01	4,832.01	4,832.01	12.84	169.24	-78.51	-63.01	1,037.83	621.36	438.71	182.64	3.402		
5,000.00	4,941.71	4,930.71	4,930.71	13.12	172.74	-79.95	-63.01	1,037.83	618.32	431.88	186.43	3.317		
5,100.00	5,040.41	5,029.41	5,029.41	13.41	176.23	-81.40	-63.01	1,037.83	615.68	425.46	190.23	3.237		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-21D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,128.12	5,128.12	13.71	179.73	-82.87	-63.01	1,037.83	613.45	419.44	194.02	3.162	
5,300.00	5,237.82	5,226.82	5,226.82	14.00	183.23	-84.34	-63.01	1,037.83	611.64	413.83	197.81	3.092	
5,400.00	5,336.52	5,325.52	5,325.52	14.30	186.72	-85.82	-63.01	1,037.83	610.25	408.64	201.60	3.027	
5,500.00	5,435.22	5,424.22	5,424.22	14.60	190.22	-87.31	-63.01	1,037.83	609.27	403.88	205.39	2.966	
5,600.00	5,533.93	5,522.93	5,522.93	14.90	193.72	-88.80	-63.01	1,037.83	608.72	399.53	209.18	2.910	
5,680.66	5,613.54	5,602.54	5,602.54	15.14	196.54	-90.00	-63.01	1,037.83	608.58	396.34	212.24	2.867 CC	
5,700.00	5,632.63	5,621.63	5,621.63	15.20	197.21	-90.29	-63.01	1,037.83	608.59	395.62	212.97	2.858	
5,800.00	5,731.33	5,720.33	5,720.33	15.50	200.71	-91.78	-63.01	1,037.83	608.88	392.12	216.76	2.809	
5,900.00	5,830.03	5,819.03	5,819.03	15.81	204.21	-93.27	-63.01	1,037.83	609.60	389.05	220.55	2.764	
6,000.00	5,928.74	5,917.74	5,917.74	16.11	207.70	-94.75	-63.01	1,037.83	610.74	386.40	224.33	2.722	
6,100.00	6,027.44	6,016.44	6,016.44	16.42	211.20	-96.23	-63.01	1,037.83	612.29	384.18	228.12	2.684	
6,200.00	6,126.14	6,115.14	6,115.14	16.73	214.70	-97.70	-63.01	1,037.83	614.27	382.37	231.90	2.649	
6,300.00	6,224.84	6,213.84	6,213.84	17.04	218.19	-99.16	-63.01	1,037.83	616.65	380.98	235.68	2.617	
6,400.00	6,323.55	6,312.55	6,312.55	17.35	221.69	-100.61	-63.01	1,037.83	619.44	379.99	239.45	2.587	
6,500.00	6,422.25	6,411.25	6,411.25	17.67	225.19	-102.04	-63.01	1,037.83	622.64	379.41	243.23	2.560 ES	
6,600.00	6,521.26	6,510.26	6,510.26	17.91	228.70	-142.35	-63.01	1,037.83	627.73	380.77	246.96	2.542 SF	
6,700.00	6,620.47	6,609.47	6,609.47	18.07	232.21	152.22	-63.01	1,037.83	639.38	388.75	250.63	2.551	
6,800.00	6,717.57	6,706.57	6,706.57	18.18	235.65	134.40	-63.01	1,037.83	657.77	403.57	254.20	2.588	
6,900.00	6,810.17	6,800.83	6,799.17	18.24	238.99	128.27	-63.01	1,037.83	683.32	425.68	257.64	2.652	
7,000.00	6,895.98	6,884.98	6,884.98	18.27	241.97	125.35	-63.01	1,037.83	716.84	456.15	260.69	2.750	
7,100.00	6,972.90	6,961.90	6,961.90	18.27	244.70	123.25	-63.01	1,037.83	759.16	495.69	263.47	2.881	
7,200.00	7,039.03	7,028.03	7,028.03	18.25	247.04	120.78	-63.01	1,037.83	810.73	544.88	265.84	3.050	
7,300.00	7,092.74	7,081.74	7,081.74	18.23	248.94	117.09	-63.01	1,037.83	871.37	603.61	267.76	3.254	
7,400.00	7,132.71	7,121.71	7,121.71	18.23	250.36	111.40	-63.01	1,037.83	940.23	671.06	269.17	3.493	
7,500.00	7,157.96	7,146.96	7,146.96	18.28	251.25	103.03	-63.01	1,037.83	1,015.79	745.75	270.03	3.762	
7,600.00	7,167.85	7,156.85	7,156.85	18.46	251.60	91.72	-63.01	1,037.83	1,096.03	825.69	270.34	4.054	
7,700.00	7,168.14	7,157.14	7,157.14	18.86	251.61	90.15	-63.01	1,037.83	1,179.17	908.87	270.30	4.362	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	93.17	-60.09	1,086.30	1,088.02				
100.00	100.00	89.00	89.00	3.28	3.56	93.17	-60.09	1,086.30	1,087.97	1,080.34	7.63	142.598	
200.00	200.00	189.00	189.00	3.31	5.73	93.17	-60.09	1,086.30	1,087.97	1,078.14	9.82	110.747	
300.00	299.98	288.98	288.98	3.35	8.87	-36.20	-60.09	1,086.30	1,086.56	1,073.55	13.00	83.556	
400.00	399.84	388.84	388.84	3.41	12.22	-36.42	-60.09	1,086.30	1,082.34	1,065.91	16.42	65.906	
500.00	499.45	488.45	488.45	3.49	15.65	-36.78	-60.09	1,086.30	1,075.33	1,055.39	19.94	53.934	
600.00	598.70	587.70	587.70	3.61	19.11	-37.29	-60.09	1,086.30	1,065.58	1,042.07	23.51	45.334	
700.00	697.51	686.51	686.51	3.76	22.56	-37.88	-60.09	1,086.30	1,053.32	1,026.22	27.11	38.859	
800.00	796.21	785.21	785.21	3.95	26.03	-38.42	-60.09	1,086.30	1,040.64	1,009.90	30.73	33.859	
900.00	894.91	883.91	883.91	4.16	29.50	-38.98	-60.09	1,086.30	1,028.04	993.65	34.39	29.891	
1,000.00	993.61	982.61	982.61	4.40	32.98	-39.54	-60.09	1,086.30	1,015.54	977.47	38.08	26.671	
1,100.00	1,092.32	1,081.32	1,081.32	4.66	36.46	-40.13	-60.09	1,086.30	1,003.15	961.37	41.78	24.009	
1,200.00	1,191.02	1,180.02	1,180.02	4.93	39.94	-40.72	-60.09	1,086.30	990.86	945.35	45.51	21.774	
1,300.00	1,289.72	1,278.72	1,278.72	5.21	43.43	-41.33	-60.09	1,086.30	978.67	929.43	49.25	19.873	
1,400.00	1,388.42	1,377.42	1,377.42	5.51	46.92	-41.96	-60.09	1,086.30	966.61	913.61	53.00	18.238	
1,500.00	1,487.13	1,476.13	1,476.13	5.81	50.41	-42.60	-60.09	1,086.30	954.66	897.89	56.76	16.818	
1,600.00	1,585.83	1,574.83	1,574.83	6.13	53.90	-43.25	-60.09	1,086.30	942.83	882.28	60.54	15.573	
1,700.00	1,684.53	1,673.53	1,673.53	6.45	57.39	-43.92	-60.09	1,086.30	931.12	866.80	64.33	14.475	
1,800.00	1,783.23	1,772.23	1,772.23	6.78	60.88	-44.61	-60.09	1,086.30	919.55	851.43	68.12	13.499	
1,900.00	1,881.94	1,870.94	1,870.94	6.96	64.37	-45.32	-60.09	1,086.30	908.12	836.54	71.58	12.687	
2,000.00	1,980.64	1,969.64	1,969.64	6.99	67.87	-46.05	-60.09	1,086.30	896.83	821.72	75.11	11.941	
2,100.00	2,079.34	2,068.34	2,068.34	7.05	71.36	-46.79	-60.09	1,086.30	885.68	807.02	78.66	11.260	
2,200.00	2,178.04	2,167.04	2,167.04	7.12	74.85	-47.55	-60.09	1,086.30	874.69	792.47	82.22	10.638	
2,300.00	2,276.75	2,265.75	2,265.75	7.20	78.35	-48.33	-60.09	1,086.30	863.85	778.05	85.80	10.068	
2,400.00	2,375.45	2,364.45	2,364.45	7.30	81.84	-49.13	-60.09	1,086.30	853.18	763.78	89.40	9.543	
2,500.00	2,474.15	2,463.15	2,463.15	7.42	85.34	-49.95	-60.09	1,086.30	842.68	749.67	93.01	9.060	
2,600.00	2,572.85	2,561.85	2,561.85	7.54	88.83	-50.79	-60.09	1,086.30	832.36	735.72	96.64	8.613	
2,700.00	2,671.56	2,660.56	2,660.56	7.68	92.33	-51.65	-60.09	1,086.30	822.23	721.94	100.28	8.199	
2,800.00	2,770.26	2,759.26	2,759.26	7.84	95.82	-52.53	-60.09	1,086.30	812.28	708.34	103.94	7.815	
2,900.00	2,868.96	2,857.96	2,857.96	8.00	99.32	-53.43	-60.09	1,086.30	802.53	694.93	107.60	7.458	
3,000.00	2,967.66	2,956.66	2,956.66	8.18	102.81	-54.36	-60.09	1,086.30	792.99	681.70	111.28	7.126	
3,100.00	3,066.37	3,055.37	3,055.37	8.36	106.31	-55.30	-60.09	1,086.30	783.66	668.68	114.97	6.816	
3,200.00	3,165.07	3,154.07	3,154.07	8.56	109.80	-56.27	-60.09	1,086.30	774.55	655.87	118.68	6.527	
3,300.00	3,263.77	3,252.77	3,252.77	8.76	113.30	-57.26	-60.09	1,086.30	765.67	643.28	122.39	6.256	
3,400.00	3,362.47	3,351.47	3,351.47	8.97	116.79	-58.27	-60.09	1,086.30	757.02	630.91	126.11	6.003	
3,500.00	3,461.18	3,450.18	3,450.18	9.19	120.29	-59.31	-60.09	1,086.30	748.62	618.79	129.84	5.766	
3,600.00	3,559.88	3,548.88	3,548.88	9.42	123.79	-60.37	-60.09	1,086.30	740.47	606.90	133.57	5.544	
3,700.00	3,658.58	3,647.58	3,647.58	9.65	127.28	-61.45	-60.09	1,086.30	732.59	595.27	137.32	5.335	
3,800.00	3,757.28	3,746.28	3,746.28	9.89	130.78	-62.55	-60.09	1,086.30	724.97	583.91	141.07	5.139	
3,900.00	3,855.99	3,844.99	3,844.99	10.14	134.28	-63.68	-60.09	1,086.30	717.63	572.81	144.82	4.955	
4,000.00	3,954.69	3,943.69	3,943.69	10.39	137.77	-64.82	-60.09	1,086.30	710.58	562.00	148.59	4.782	
4,100.00	4,053.39	4,042.39	4,042.39	10.65	141.27	-65.99	-60.09	1,086.30	703.83	551.48	152.35	4.620	
4,200.00	4,152.09	4,141.09	4,141.09	10.91	144.76	-67.19	-60.09	1,086.30	697.38	541.25	156.12	4.467	
4,300.00	4,250.79	4,239.79	4,239.79	11.17	148.26	-68.40	-60.09	1,086.30	691.24	531.34	159.90	4.323	
4,400.00	4,349.50	4,338.50	4,338.50	11.44	151.76	-69.63	-60.09	1,086.30	685.42	521.74	163.68	4.188	
4,500.00	4,448.20	4,437.20	4,437.20	11.71	155.25	-70.89	-60.09	1,086.30	679.94	512.47	167.47	4.060	
4,600.00	4,546.90	4,535.90	4,535.90	11.99	158.75	-72.16	-60.09	1,086.30	674.79	503.54	171.25	3.940	
4,700.00	4,645.60	4,634.60	4,634.60	12.27	162.25	-73.45	-60.09	1,086.30	669.98	494.94	175.04	3.828	
4,800.00	4,744.31	4,733.31	4,733.31	12.55	165.74	-74.76	-60.09	1,086.30	665.53	486.70	178.83	3.722	
4,900.00	4,843.01	4,832.01	4,832.01	12.84	169.24	-76.09	-60.09	1,086.30	661.44	478.82	182.62	3.622	
5,000.00	4,941.71	4,930.71	4,930.71	13.12	172.74	-77.43	-60.09	1,086.30	657.72	471.30	186.42	3.528	
5,100.00	5,040.41	5,029.41	5,029.41	13.41	176.23	-78.78	-60.09	1,086.30	654.37	464.15	190.21	3.440	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-27D (Need Directional Surveys)												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,128.12	5,128.12	13.71	179.73	-80.15	-60.09	1,086.30	651.39	457.38	194.01	3.358	
5,300.00	5,237.82	5,226.82	5,226.82	14.00	183.23	-81.53	-60.09	1,086.30	648.81	451.00	197.81	3.280	
5,400.00	5,336.52	5,325.52	5,325.52	14.30	186.72	-82.92	-60.09	1,086.30	646.61	445.00	201.60	3.207	
5,500.00	5,435.22	5,424.22	5,424.22	14.60	190.22	-84.32	-60.09	1,086.30	644.80	439.40	205.40	3.139	
5,600.00	5,533.93	5,522.93	5,522.93	14.90	193.72	-85.72	-60.09	1,086.30	643.38	434.19	209.19	3.076	
5,700.00	5,632.63	5,621.63	5,621.63	15.20	197.21	-87.13	-60.09	1,086.30	642.37	429.38	212.99	3.016	
5,800.00	5,731.33	5,720.33	5,720.33	15.50	200.71	-88.55	-60.09	1,086.30	641.76	424.97	216.78	2.960	
5,900.00	5,830.03	5,819.03	5,819.03	15.81	204.21	-89.96	-60.09	1,086.30	641.55	420.97	220.58	2.908	
5,902.78	5,832.77	5,821.77	5,821.77	15.82	204.30	-90.00	-60.09	1,086.30	641.55	420.86	220.68	2.907 CC	
6,000.00	5,928.74	5,917.74	5,917.74	16.11	207.70	-91.38	-60.09	1,086.30	641.74	417.37	224.37	2.860	
6,100.00	6,027.44	6,016.44	6,016.44	16.42	211.20	-92.79	-60.09	1,086.30	642.33	414.17	228.16	2.815	
6,200.00	6,126.14	6,115.14	6,115.14	16.73	214.70	-94.20	-60.09	1,086.30	643.32	411.37	231.95	2.774	
6,300.00	6,224.84	6,213.84	6,213.84	17.04	218.19	-95.60	-60.09	1,086.30	644.71	408.97	235.73	2.735	
6,400.00	6,323.55	6,312.55	6,312.55	17.35	221.69	-97.00	-60.09	1,086.30	646.49	406.98	239.52	2.699	
6,500.00	6,422.25	6,411.25	6,411.25	17.67	225.19	-98.39	-60.09	1,086.30	648.67	405.37	243.30	2.666 ES	
6,600.00	6,521.26	6,510.26	6,510.26	17.91	228.70	-138.63	-60.09	1,086.30	652.94	405.90	247.04	2.643 SF	
6,700.00	6,620.47	6,609.47	6,609.47	18.07	232.21	155.90	-60.09	1,086.30	664.61	413.91	250.71	2.651	
6,800.00	6,717.57	6,706.57	6,706.57	18.18	235.65	137.91	-60.09	1,086.30	683.88	429.61	254.27	2.690	
6,900.00	6,810.17	6,800.83	6,799.17	18.24	238.99	131.51	-60.09	1,086.30	711.00	453.30	257.70	2.759	
7,000.00	6,895.98	6,884.98	6,884.98	18.27	241.97	128.25	-60.09	1,086.30	746.59	485.85	260.74	2.863	
7,100.00	6,972.90	6,961.90	6,961.90	18.27	244.70	125.77	-60.09	1,086.30	791.23	527.73	263.50	3.003	
7,200.00	7,039.03	7,028.03	7,028.03	18.25	247.04	122.90	-60.09	1,086.30	845.14	579.28	265.86	3.179	
7,300.00	7,092.74	7,081.74	7,081.74	18.23	248.94	118.80	-60.09	1,086.30	907.99	640.23	267.76	3.391	
7,400.00	7,132.71	7,121.71	7,121.71	18.23	250.36	112.65	-60.09	1,086.30	978.82	709.66	269.16	3.637	
7,500.00	7,157.96	7,146.96	7,146.96	18.28	251.25	103.73	-60.09	1,086.30	1,056.06	786.04	270.01	3.911	
7,600.00	7,167.85	7,156.85	7,156.85	18.46	251.60	91.81	-60.09	1,086.30	1,137.70	867.39	270.31	4.209	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-114.41	-79.42	-174.97	192.15				
100.00	100.00	101.00	99.00	3.28	3.74	-114.41	-79.42	-174.97	192.15	184.33	7.82	24.574	
200.00	200.00	201.00	199.00	3.31	6.28	-114.41	-79.42	-174.97	192.15	181.77	10.37	18.525 CC	
300.00	299.98	301.02	298.98	3.35	9.48	-116.74	-79.42	-174.97	192.93	179.31	13.62	14.168	
400.00	399.84	401.16	398.84	3.41	12.87	-118.06	-79.42	-174.97	195.34	178.27	17.06	11.447 ES	
500.00	499.45	501.55	498.45	3.49	16.33	-120.19	-79.42	-174.97	199.59	178.98	20.62	9.681	
600.00	598.70	602.30	597.70	3.61	19.84	-123.00	-79.42	-174.97	206.02	181.77	24.24	8.498	
700.00	697.51	703.49	696.51	3.76	23.39	-126.33	-79.42	-174.97	214.84	186.91	27.94	7.691	
800.00	796.21	804.79	795.21	3.95	26.94	-129.61	-79.42	-174.97	224.81	193.14	31.67	7.100	
900.00	894.91	906.09	893.91	4.16	30.51	-132.60	-79.42	-174.97	235.45	200.03	35.42	6.647	
1,000.00	993.61	1,007.39	992.61	4.40	34.08	-135.33	-79.42	-174.97	246.67	207.48	39.19	6.293	
1,100.00	1,092.32	1,108.68	1,091.32	4.66	37.65	-137.82	-79.42	-174.97	258.41	215.42	42.99	6.011	
1,200.00	1,191.02	1,209.98	1,190.02	4.93	41.23	-140.09	-79.42	-174.97	270.59	223.80	46.79	5.783	
1,300.00	1,289.72	1,288.72	1,288.72	5.21	44.01	-142.16	-79.42	-174.97	283.15	233.35	49.81	5.685	
1,400.00	1,388.42	1,387.42	1,387.42	5.51	47.50	-144.06	-79.42	-174.97	296.06	242.52	53.53	5.530	
1,500.00	1,487.13	1,486.13	1,486.13	5.81	50.99	-145.80	-79.42	-174.97	309.26	251.98	57.27	5.400	
1,600.00	1,585.83	1,584.83	1,584.83	6.13	54.48	-147.40	-79.42	-174.97	322.71	261.70	61.01	5.289	
1,700.00	1,684.53	1,683.53	1,683.53	6.45	57.97	-148.87	-79.42	-174.97	336.40	271.64	64.76	5.194	
1,800.00	1,783.23	1,782.23	1,782.23	6.78	61.46	-150.22	-79.42	-174.97	350.29	281.78	68.51	5.113	
1,900.00	1,881.94	1,880.94	1,880.94	6.96	64.96	-151.47	-79.42	-174.97	364.36	292.42	71.93	5.065	
2,000.00	1,980.64	1,979.64	1,979.64	6.99	68.45	-152.63	-79.42	-174.97	378.58	303.15	75.43	5.019	
2,100.00	2,079.34	2,078.34	2,078.34	7.05	71.94	-153.70	-79.42	-174.97	392.95	314.00	78.95	4.977	
2,200.00	2,178.04	2,177.04	2,177.04	7.12	75.44	-154.70	-79.42	-174.97	407.44	324.96	82.48	4.940	
2,300.00	2,276.75	2,275.75	2,275.75	7.20	78.93	-155.63	-79.42	-174.97	422.05	336.01	86.03	4.906	
2,400.00	2,375.45	2,374.45	2,374.45	7.30	82.43	-156.50	-79.42	-174.97	436.75	347.16	89.59	4.875	
2,500.00	2,474.15	2,473.15	2,473.15	7.42	85.92	-157.31	-79.42	-174.97	451.55	358.38	93.17	4.846	
2,600.00	2,572.85	2,571.85	2,571.85	7.54	89.42	-158.07	-79.42	-174.97	466.44	369.67	96.76	4.820	
2,700.00	2,671.56	2,670.56	2,670.56	7.68	92.91	-158.78	-79.42	-174.97	481.39	381.02	100.37	4.796	
2,800.00	2,770.26	2,769.26	2,769.26	7.84	96.41	-159.45	-79.42	-174.97	496.42	392.43	103.99	4.774	
2,900.00	2,868.96	2,867.96	2,867.96	8.00	99.90	-160.08	-79.42	-174.97	511.51	403.89	107.62	4.753	
3,000.00	2,967.66	2,966.66	2,966.66	8.18	103.40	-160.67	-79.42	-174.97	526.66	415.40	111.26	4.734	
3,100.00	3,066.37	3,065.37	3,065.37	8.36	106.89	-161.23	-79.42	-174.97	541.86	426.95	114.91	4.716	
3,200.00	3,165.07	3,164.07	3,164.07	8.56	110.39	-161.77	-79.42	-174.97	557.10	438.53	118.57	4.699	
3,300.00	3,263.77	3,262.77	3,262.77	8.76	113.88	-162.27	-79.42	-174.97	572.39	450.16	122.24	4.683	
3,400.00	3,362.47	3,361.47	3,361.47	8.97	117.38	-162.74	-79.42	-174.97	587.73	461.81	125.92	4.668	
3,500.00	3,461.18	3,460.18	3,460.18	9.19	120.88	-163.20	-79.42	-174.97	603.10	473.50	129.60	4.653	
3,600.00	3,559.88	3,558.88	3,558.88	9.42	124.37	-163.63	-79.42	-174.97	618.50	485.21	133.29	4.640	
3,700.00	3,658.58	3,657.58	3,657.58	9.65	127.87	-164.03	-79.42	-174.97	633.94	496.95	136.99	4.628	
3,800.00	3,757.28	3,756.28	3,756.28	9.89	131.36	-164.42	-79.42	-174.97	649.41	508.71	140.70	4.616	
3,900.00	3,855.99	3,854.99	3,854.99	10.14	134.86	-164.79	-79.42	-174.97	664.90	520.49	144.41	4.604	
4,000.00	3,954.69	3,953.69	3,953.69	10.39	138.36	-165.15	-79.42	-174.97	680.42	532.30	148.13	4.593	
4,100.00	4,053.39	4,052.39	4,052.39	10.65	141.85	-165.49	-79.42	-174.97	695.97	544.12	151.85	4.583	
4,200.00	4,152.09	4,151.09	4,151.09	10.91	145.35	-165.81	-79.42	-174.97	711.54	555.96	155.58	4.574	
4,300.00	4,250.79	4,249.79	4,249.79	11.17	148.84	-166.12	-79.42	-174.97	727.13	567.82	159.31	4.564	
4,400.00	4,349.50	4,348.50	4,348.50	11.44	152.34	-166.42	-79.42	-174.97	742.74	579.70	163.04	4.556	
4,500.00	4,448.20	4,447.20	4,447.20	11.71	155.84	-166.70	-79.42	-174.97	758.37	591.58	166.78	4.547	
4,600.00	4,546.90	4,545.90	4,545.90	11.99	159.33	-166.98	-79.42	-174.97	774.01	603.49	170.52	4.539	
4,700.00	4,645.60	4,644.60	4,644.60	12.27	162.83	-167.24	-79.42	-174.97	789.67	615.41	174.27	4.531	
4,800.00	4,744.31	4,743.31	4,743.31	12.55	166.33	-167.49	-79.42	-174.97	805.35	627.34	178.02	4.524	
4,900.00	4,843.01	4,842.01	4,842.01	12.84	169.82	-167.73	-79.42	-174.97	821.04	639.28	181.77	4.517	
5,000.00	4,941.71	4,940.71	4,940.71	13.12	173.32	-167.97	-79.42	-174.97	836.75	651.23	185.52	4.510	
5,100.00	5,040.41	5,039.41	5,039.41	13.41	176.82	-168.19	-79.42	-174.97	852.47	663.19	189.28	4.504	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-3H6 - Noble SI Well - No Surv												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,138.12	5,138.12	13.71	180.31	168.41	-79.42	-174.97	868.20	675.17	193.03	4.498	
5,300.00	5,237.82	5,236.82	5,236.82	14.00	183.81	168.62	-79.42	-174.97	883.94	687.15	196.80	4.492	
5,400.00	5,336.52	5,335.52	5,335.52	14.30	187.31	168.82	-79.42	-174.97	899.70	699.14	200.56	4.486	
5,500.00	5,435.22	5,434.22	5,434.22	14.60	190.80	169.01	-79.42	-174.97	915.46	711.14	204.32	4.480	
5,600.00	5,533.93	5,532.93	5,532.93	14.90	194.30	169.20	-79.42	-174.97	931.24	723.15	208.09	4.475	
5,700.00	5,632.63	5,631.63	5,631.63	15.20	197.80	169.38	-79.42	-174.97	947.02	735.17	211.86	4.470	
5,800.00	5,731.33	5,730.33	5,730.33	15.50	201.29	169.56	-79.42	-174.97	962.82	747.19	215.63	4.465	
5,900.00	5,830.03	5,829.03	5,829.03	15.81	204.79	169.73	-79.42	-174.97	978.62	759.22	219.40	4.460	
6,000.00	5,928.74	5,927.74	5,927.74	16.11	208.29	169.90	-79.42	-174.97	994.43	771.26	223.17	4.456	
6,100.00	6,027.44	6,026.44	6,026.44	16.42	211.78	170.05	-79.42	-174.97	1,010.25	783.30	226.94	4.452	
6,200.00	6,126.14	6,125.14	6,125.14	16.73	215.28	170.21	-79.42	-174.97	1,026.07	795.35	230.72	4.447	
6,300.00	6,224.84	6,223.84	6,223.84	17.04	218.78	170.36	-79.42	-174.97	1,041.91	807.41	234.50	4.443	
6,400.00	6,323.55	6,322.55	6,322.55	17.35	222.28	170.51	-79.42	-174.97	1,057.75	819.47	238.27	4.439	
6,500.00	6,422.25	6,421.25	6,421.25	17.67	225.77	170.65	-79.42	-174.97	1,073.59	831.54	242.05	4.435	
6,600.00	6,521.26	6,520.26	6,520.26	17.91	229.28	131.69	-79.42	-174.97	1,086.51	840.71	245.79	4.420	
6,700.00	6,620.47	6,619.47	6,619.47	18.07	232.80	67.75	-79.42	-174.97	1,086.72	837.26	249.47	4.356	
6,800.00	6,717.57	6,716.57	6,716.57	18.18	236.24	51.81	-79.42	-174.97	1,073.72	820.70	253.02	4.244	
6,900.00	6,810.17	6,809.17	6,809.17	18.24	239.52	48.31	-79.42	-174.97	1,048.23	791.87	256.36	4.089	
7,000.00	6,895.98	6,905.02	6,894.98	18.27	242.91	49.34	-79.42	-174.97	1,011.52	751.74	259.78	3.894	
7,100.00	6,972.90	6,971.90	6,971.90	18.27	245.28	53.21	-79.42	-174.97	965.35	703.17	262.17	3.682	
7,200.00	7,039.03	7,038.03	7,038.03	18.25	247.62	59.32	-79.42	-174.97	911.98	647.41	264.57	3.447	
7,300.00	7,092.74	7,108.26	7,091.74	18.23	250.11	67.11	-79.42	-174.97	854.18	587.01	267.17	3.197	
7,400.00	7,132.71	7,131.71	7,131.71	18.23	250.94	75.58	-79.42	-174.97	795.22	526.97	268.24	2.965	
7,500.00	7,157.96	7,156.96	7,156.96	18.28	251.84	83.40	-79.42	-174.97	738.72	469.17	269.55	2.741	
7,600.00	7,167.85	7,166.85	7,166.85	18.46	252.19	89.38	-79.42	-174.97	688.50	418.00	270.50	2.545	
7,700.00	7,168.14	7,167.14	7,167.14	18.86	252.20	89.97	-79.42	-174.97	648.57	377.30	271.28	2.391	
7,800.00	7,168.31	7,167.31	7,167.31	19.49	252.20	89.98	-79.42	-174.97	622.29	350.12	272.17	2.286	
7,900.00	7,168.48	7,167.48	7,167.48	20.27	252.21	90.00	-79.42	-174.97	611.43	338.36	273.07	2.239	
7,916.99	7,168.50	7,167.50	7,167.50	20.43	252.21	90.00	-79.42	-174.97	611.20	337.98	273.22	2.237 SF	
8,000.00	7,168.64	7,167.64	7,167.64	21.18	252.22	90.01	-79.42	-174.97	616.81	342.96	273.85	2.252	
8,100.00	7,168.81	7,167.81	7,167.81	22.18	252.22	90.03	-79.42	-174.97	638.01	363.59	274.42	2.325	
8,200.00	7,168.98	7,167.98	7,167.98	23.25	252.23	90.04	-79.42	-174.97	673.54	398.79	274.75	2.451	
8,300.00	7,169.14	7,168.14	7,168.14	24.40	252.23	90.06	-79.42	-174.97	721.29	446.41	274.88	2.624	
8,400.00	7,169.31	7,168.31	7,168.31	25.60	252.24	90.08	-79.42	-174.97	779.01	504.14	274.87	2.834	
8,500.00	7,169.48	7,168.48	7,168.48	26.85	252.25	90.09	-79.42	-174.97	844.67	569.89	274.77	3.074	
8,600.00	7,169.64	7,168.64	7,168.64	28.14	252.25	90.11	-79.42	-174.97	916.55	641.92	274.63	3.337	
8,700.00	7,169.81	7,168.81	7,168.81	29.47	252.26	90.12	-79.42	-174.97	993.31	718.84	274.47	3.619	
8,800.00	7,169.98	7,168.98	7,168.98	30.83	252.26	90.14	-79.42	-174.97	1,073.90	799.60	274.30	3.915	
8,900.00	7,170.14	7,169.14	7,169.14	32.23	252.27	90.15	-79.42	-174.97	1,157.53	883.38	274.14	4.222	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,200.00	7,168.98	7,208.02	7,191.98	23.25	253.65	-89.71	-1,041.11	-1,526.29	1,122.72	850.70	272.01	4.127	
8,300.00	7,169.14	7,207.86	7,192.14	24.40	253.64	-89.74	-1,041.11	-1,526.29	1,028.33	756.15	272.18	3.778	
8,400.00	7,169.31	7,207.69	7,192.31	25.60	253.64	-89.77	-1,041.11	-1,526.29	935.12	662.66	272.46	3.432	
8,500.00	7,169.48	7,207.52	7,192.48	26.85	253.63	-89.79	-1,041.11	-1,526.29	843.46	570.56	272.90	3.091	
8,600.00	7,169.64	7,207.36	7,192.64	28.14	253.62	-89.82	-1,041.11	-1,526.29	753.92	480.33	273.59	2.756	
8,700.00	7,169.81	7,207.19	7,192.81	29.47	253.62	-89.85	-1,041.11	-1,526.29	667.36	392.71	274.65	2.430	
8,800.00	7,169.98	7,207.02	7,192.98	30.83	253.61	-89.87	-1,041.11	-1,526.29	585.10	308.84	276.25	2.118	
8,900.00	7,170.14	7,206.86	7,193.14	32.23	253.61	-89.90	-1,041.11	-1,526.29	509.23	230.63	278.60	1.828	
9,000.00	7,170.31	7,206.69	7,193.31	33.64	253.60	-89.93	-1,041.11	-1,526.29	443.05	161.20	281.85	1.572	
9,100.00	7,170.48	7,206.52	7,193.48	35.08	253.59	-89.96	-1,041.11	-1,526.29	391.49	105.65	285.84	1.370	Level 3
9,200.00	7,170.64	7,206.36	7,193.64	36.54	253.59	-89.98	-1,041.11	-1,526.29	360.88	71.14	289.74	1.246	Level 2
9,265.13	7,170.75	7,206.25	7,193.75	37.50	253.58	-90.00	-1,041.11	-1,526.29	354.96	63.39	291.57	1.217	Level 2, CC, ES, SF
9,300.00	7,170.81	7,206.19	7,193.81	38.02	253.58	-90.01	-1,041.11	-1,526.29	356.67	64.49	292.18	1.221	Level 2
9,400.00	7,170.98	7,206.02	7,193.98	39.51	253.58	-90.04	-1,041.11	-1,526.29	379.72	87.33	292.39	1.299	Level 3
9,500.00	7,171.14	7,205.86	7,194.14	41.01	253.57	-90.06	-1,041.11	-1,526.29	425.63	134.65	290.97	1.463	Level 3
9,600.00	7,171.31	7,205.69	7,194.31	42.53	253.56	-90.09	-1,041.11	-1,526.29	487.99	199.03	288.96	1.689	
9,700.00	7,171.48	7,205.52	7,194.48	44.05	253.56	-90.12	-1,041.11	-1,526.29	561.34	274.37	286.98	1.956	
9,800.00	7,171.64	7,205.36	7,194.64	45.59	253.55	-90.14	-1,041.11	-1,526.29	641.94	356.67	285.26	2.250	
9,900.00	7,171.81	7,205.19	7,194.81	47.14	253.55	-90.17	-1,041.11	-1,526.29	727.36	443.52	283.84	2.563	
10,000.00	7,171.98	7,205.02	7,194.98	48.69	253.54	-90.20	-1,041.11	-1,526.29	816.11	533.42	282.69	2.887	
10,100.00	7,172.14	7,204.86	7,195.14	50.26	253.53	-90.22	-1,041.11	-1,526.29	907.20	625.44	281.75	3.220	
10,200.00	7,172.31	7,204.69	7,195.31	51.83	253.53	-90.25	-1,041.11	-1,526.29	999.99	719.00	280.99	3.559	
10,300.00	7,172.48	7,204.52	7,195.48	53.40	253.52	-90.28	-1,041.11	-1,526.29	1,094.05	813.69	280.36	3.902	
10,400.00	7,172.64	7,204.36	7,195.64	54.98	253.52	-90.31	-1,041.11	-1,526.29	1,189.09	909.24	279.84	4.249	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-5 - XOG PR Well - No Survey										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						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	
8,800.00	7,169.98	7,175.98	7,175.98	30.83	252.51	89.90	99.16	-1,907.92	1,156.77	877.97	278.80	4.149	
8,900.00	7,170.14	7,176.14	7,176.14	32.23	252.52	89.91	99.16	-1,907.92	1,085.36	804.82	280.54	3.869	
9,000.00	7,170.31	7,176.31	7,176.31	33.64	252.52	89.92	99.16	-1,907.92	1,018.77	736.27	282.50	3.606	
9,100.00	7,170.48	7,176.48	7,176.48	35.08	252.53	89.93	99.16	-1,907.92	958.02	673.34	284.68	3.365	
9,200.00	7,170.64	7,176.64	7,176.64	36.54	252.54	89.95	99.16	-1,907.92	904.26	617.25	287.02	3.151	
9,300.00	7,170.81	7,176.81	7,176.81	38.02	252.54	89.96	99.16	-1,907.92	858.83	569.40	289.43	2.967	
9,400.00	7,170.98	7,176.98	7,176.98	39.51	252.55	89.97	99.16	-1,907.92	823.09	531.30	291.79	2.821	
9,500.00	7,171.14	7,177.14	7,177.14	41.01	252.55	89.98	99.16	-1,907.92	798.36	504.43	293.93	2.716	
9,600.00	7,171.31	7,177.31	7,177.31	42.53	252.56	89.99	99.16	-1,907.92	785.67	490.00	295.67	2.657	
9,650.52	7,171.39	7,177.39	7,177.39	43.30	252.56	90.00	99.16	-1,907.92	784.04	487.69	296.35	2.646	CC, ES, SF
9,700.00	7,171.48	7,177.48	7,177.48	44.05	252.56	90.01	99.16	-1,907.92	785.60	488.73	296.87	2.646	
9,800.00	7,171.64	7,177.64	7,177.64	45.59	252.57	90.02	99.16	-1,907.92	798.16	500.69	297.47	2.683	
9,900.00	7,171.81	7,177.81	7,177.81	47.14	252.58	90.03	99.16	-1,907.92	822.78	525.28	297.50	2.766	
10,000.00	7,171.98	7,177.98	7,177.98	48.69	252.58	90.04	99.16	-1,907.92	858.40	561.36	297.04	2.890	
10,100.00	7,172.14	7,178.14	7,178.14	50.26	252.59	90.05	99.16	-1,907.92	903.74	607.51	296.23	3.051	
10,200.00	7,172.31	7,178.31	7,178.31	51.83	252.59	90.07	99.16	-1,907.92	957.42	662.22	295.19	3.243	
10,300.00	7,172.48	7,178.48	7,178.48	53.40	252.60	90.08	99.16	-1,907.92	1,018.11	724.06	294.05	3.462	
10,400.00	7,172.64	7,178.64	7,178.64	54.98	252.61	90.09	99.16	-1,907.92	1,084.64	791.77	292.87	3.703	
10,500.00	7,172.81	7,178.81	7,178.81	56.57	252.61	90.10	99.16	-1,907.92	1,156.00	864.29	291.71	3.963	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-6H6 - Noble SI Well - No Surv												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	7.00	-7.00	3.28	3.28	-171.70	-1,084.87	-158.26	1,096.35				
100.00	100.00	107.00	93.00	3.28	3.85	-171.70	-1,084.87	-158.26	1,096.35	1,088.43	7.93	138.319	
200.00	200.00	207.00	193.00	3.31	6.46	-171.70	-1,084.87	-158.26	1,096.35	1,085.80	10.55	103.873	
300.00	299.98	307.02	292.98	3.35	9.68	59.09	-1,084.87	-158.26	1,095.45	1,081.64	13.82	79.283	
400.00	399.84	407.16	392.84	3.41	13.07	59.37	-1,084.87	-158.26	1,092.77	1,075.50	17.27	63.272	
500.00	499.45	507.55	492.45	3.49	16.54	59.84	-1,084.87	-158.26	1,088.35	1,067.53	20.82	52.263	
600.00	598.70	608.30	591.70	3.61	20.05	60.51	-1,084.87	-158.26	1,082.26	1,057.81	24.45	44.262	
700.00	697.51	709.49	690.51	3.76	23.60	61.29	-1,084.87	-158.26	1,074.70	1,046.56	28.14	38.185	
800.00	796.21	789.21	789.21	3.95	26.40	62.04	-1,084.87	-158.26	1,067.01	1,035.89	31.12	34.287	
900.00	894.91	887.91	887.91	4.16	29.87	62.80	-1,084.87	-158.26	1,059.50	1,024.70	34.79	30.451	
1,000.00	993.61	986.61	986.61	4.40	33.35	63.57	-1,084.87	-158.26	1,052.18	1,013.68	38.50	27.333	
1,100.00	1,092.32	1,085.32	1,085.32	4.66	36.83	64.35	-1,084.87	-158.26	1,045.05	1,002.83	42.22	24.753	
1,200.00	1,191.02	1,184.02	1,184.02	4.93	40.31	65.14	-1,084.87	-158.26	1,038.13	992.17	45.96	22.586	
1,300.00	1,289.72	1,282.72	1,282.72	5.21	43.80	65.94	-1,084.87	-158.26	1,031.41	981.69	49.72	20.743	
1,400.00	1,388.42	1,381.42	1,381.42	5.51	47.29	66.75	-1,084.87	-158.26	1,024.90	971.40	53.50	19.158	
1,500.00	1,487.13	1,480.13	1,480.13	5.81	50.78	67.57	-1,084.87	-158.26	1,018.60	961.31	57.29	17.781	
1,600.00	1,585.83	1,578.83	1,578.83	6.13	54.27	68.40	-1,084.87	-158.26	1,012.51	951.43	61.08	16.576	
1,700.00	1,684.53	1,677.53	1,677.53	6.45	57.76	69.24	-1,084.87	-158.26	1,006.64	941.75	64.89	15.513	
1,800.00	1,783.23	1,776.23	1,776.23	6.78	61.25	70.09	-1,084.87	-158.26	1,001.00	932.29	68.71	14.569	
1,900.00	1,881.94	1,874.94	1,874.94	6.96	64.74	70.95	-1,084.87	-158.26	995.58	923.41	72.17	13.795	
2,000.00	1,980.64	1,973.64	1,973.64	6.99	68.24	71.82	-1,084.87	-158.26	990.40	914.69	75.71	13.082	
2,100.00	2,079.34	2,072.34	2,072.34	7.05	71.73	72.70	-1,084.87	-158.26	985.45	906.19	79.26	12.433	
2,200.00	2,178.04	2,171.04	2,171.04	7.12	75.23	73.58	-1,084.87	-158.26	980.73	897.90	82.83	11.840	
2,300.00	2,276.75	2,269.75	2,269.75	7.20	78.72	74.48	-1,084.87	-158.26	976.26	889.85	86.41	11.298	
2,400.00	2,375.45	2,368.45	2,368.45	7.30	82.21	75.38	-1,084.87	-158.26	972.03	882.02	90.01	10.799	
2,500.00	2,474.15	2,467.15	2,467.15	7.42	85.71	76.28	-1,084.87	-158.26	968.06	874.43	93.63	10.339	
2,600.00	2,572.85	2,565.85	2,565.85	7.54	89.20	77.20	-1,084.87	-158.26	964.33	867.07	97.26	9.915	
2,700.00	2,671.56	2,664.56	2,664.56	7.68	92.70	78.12	-1,084.87	-158.26	960.85	859.96	100.90	9.523	
2,800.00	2,770.26	2,763.26	2,763.26	7.84	96.19	79.05	-1,084.87	-158.26	957.63	853.08	104.55	9.160	
2,900.00	2,868.96	2,861.96	2,861.96	8.00	99.69	79.98	-1,084.87	-158.26	954.68	846.46	108.22	8.822	
3,000.00	2,967.66	2,960.66	2,960.66	8.18	103.18	80.92	-1,084.87	-158.26	951.98	840.09	111.89	8.508	
3,100.00	3,066.37	3,059.37	3,059.37	8.36	106.68	81.87	-1,084.87	-158.26	949.55	833.97	115.58	8.216	
3,200.00	3,165.07	3,158.07	3,158.07	8.56	110.18	82.82	-1,084.87	-158.26	947.38	828.11	119.27	7.943	
3,300.00	3,263.77	3,256.77	3,256.77	8.76	113.67	83.77	-1,084.87	-158.26	945.48	822.50	122.98	7.688	
3,400.00	3,362.47	3,355.47	3,355.47	8.97	117.17	84.73	-1,084.87	-158.26	943.85	817.16	126.69	7.450	
3,500.00	3,461.18	3,454.18	3,454.18	9.19	120.66	85.69	-1,084.87	-158.26	942.49	812.08	130.41	7.227	
3,600.00	3,559.88	3,552.88	3,552.88	9.42	124.16	86.65	-1,084.87	-158.26	941.40	807.27	134.14	7.018	
3,700.00	3,658.58	3,651.58	3,651.58	9.65	127.65	87.61	-1,084.87	-158.26	940.59	802.72	137.87	6.822	
3,800.00	3,757.28	3,750.28	3,750.28	9.89	131.15	88.58	-1,084.87	-158.26	940.05	798.44	141.61	6.638	
3,900.00	3,855.99	3,848.99	3,848.99	10.14	134.65	89.54	-1,084.87	-158.26	939.78	794.42	145.36	6.465	
3,947.15	3,902.52	3,904.48	3,895.52	10.26	136.61	90.00	-1,084.87	-158.26	939.75	792.31	147.44	6.374	
4,000.00	3,954.69	3,947.69	3,947.69	10.39	138.14	90.51	-1,084.87	-158.26	939.79	790.68	149.11	6.303	
4,100.00	4,053.39	4,046.39	4,046.39	10.65	141.64	91.48	-1,084.87	-158.26	940.07	787.21	152.86	6.150	
4,200.00	4,152.09	4,145.09	4,145.09	10.91	145.14	92.44	-1,084.87	-158.26	940.63	784.01	156.62	6.006	
4,300.00	4,250.79	4,243.79	4,243.79	11.17	148.63	93.41	-1,084.87	-158.26	941.46	781.07	160.39	5.870	
4,400.00	4,349.50	4,342.50	4,342.50	11.44	152.13	94.37	-1,084.87	-158.26	942.56	778.41	164.15	5.742	
4,500.00	4,448.20	4,441.20	4,441.20	11.71	155.63	95.33	-1,084.87	-158.26	943.94	776.02	167.92	5.621	
4,600.00	4,546.90	4,539.90	4,539.90	11.99	159.12	96.28	-1,084.87	-158.26	945.58	773.89	171.69	5.507	
4,700.00	4,645.60	4,638.60	4,638.60	12.27	162.62	97.24	-1,084.87	-158.26	947.50	772.03	175.47	5.400	
4,800.00	4,744.31	4,737.31	4,737.31	12.55	166.11	98.18	-1,084.87	-158.26	949.68	770.43	179.24	5.298	
4,900.00	4,843.01	4,836.01	4,836.01	12.84	169.61	99.13	-1,084.87	-158.26	952.13	769.10	183.02	5.202	
5,000.00	4,941.71	4,934.71	4,934.71	13.12	173.11	100.07	-1,084.87	-158.26	954.84	768.03	186.80	5.111	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL 29-6H6 - Noble SI Well - No Surv										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	5,040.41	5,033.41	5,033.41	13.41	176.60	101.00	-1,084.87	-158.26	957.81	767.22	190.59	5.026	
5,200.00	5,139.12	5,132.12	5,132.12	13.71	180.10	101.93	-1,084.87	-158.26	961.04	766.67	194.37	4.944	
5,300.00	5,237.82	5,230.82	5,230.82	14.00	183.60	102.85	-1,084.87	-158.26	964.53	766.38	198.16	4.868	
5,400.00	5,336.52	5,329.52	5,329.52	14.30	187.09	103.77	-1,084.87	-158.26	968.28	766.33	201.94	4.795	
5,500.00	5,435.22	5,428.22	5,428.22	14.60	190.59	104.68	-1,084.87	-158.26	972.27	766.54	205.73	4.726	
5,600.00	5,533.93	5,526.93	5,526.93	14.90	194.09	105.58	-1,084.87	-158.26	976.51	766.99	209.52	4.661	
5,700.00	5,632.63	5,625.63	5,625.63	15.20	197.59	106.47	-1,084.87	-158.26	981.00	767.69	213.31	4.599	
5,800.00	5,731.33	5,724.33	5,724.33	15.50	201.08	107.35	-1,084.87	-158.26	985.72	768.63	217.10	4.540	
5,900.00	5,830.03	5,823.03	5,823.03	15.81	204.58	108.23	-1,084.87	-158.26	990.69	769.80	220.89	4.485	
6,000.00	5,928.74	5,921.74	5,921.74	16.11	208.08	109.10	-1,084.87	-158.26	995.89	771.21	224.68	4.433	
6,100.00	6,027.44	6,020.44	6,020.44	16.42	211.57	109.95	-1,084.87	-158.26	1,001.32	772.85	228.47	4.383	
6,200.00	6,126.14	6,119.14	6,119.14	16.73	215.07	110.80	-1,084.87	-158.26	1,006.97	774.71	232.26	4.336	
6,300.00	6,224.84	6,217.84	6,217.84	17.04	218.57	111.64	-1,084.87	-158.26	1,012.85	776.80	236.05	4.291	
6,400.00	6,323.55	6,316.55	6,316.55	17.35	222.06	112.47	-1,084.87	-158.26	1,018.95	779.11	239.84	4.248	
6,500.00	6,422.25	6,415.25	6,415.25	17.67	225.56	113.29	-1,084.87	-158.26	1,025.26	781.63	243.64	4.208	
6,600.00	6,521.26	6,514.26	6,514.26	17.91	229.07	75.23	-1,084.87	-158.26	1,028.72	781.35	247.37	4.159	
6,700.00	6,620.47	6,613.47	6,613.47	18.07	232.58	10.67	-1,084.87	-158.26	1,019.07	768.03	251.04	4.059	
6,800.00	6,717.57	6,710.57	6,710.57	18.18	236.02	-7.93	-1,084.87	-158.26	995.60	741.00	254.60	3.910	
6,900.00	6,810.17	6,803.17	6,803.17	18.24	239.30	-16.41	-1,084.87	-158.26	958.91	700.94	257.97	3.717	
7,000.00	6,895.98	6,888.98	6,888.98	18.27	242.34	-23.18	-1,084.87	-158.26	910.07	649.00	261.07	3.486	
7,100.00	6,972.90	6,965.90	6,965.90	18.27	245.07	-30.66	-1,084.87	-158.26	850.67	586.84	263.83	3.224	
7,200.00	7,039.03	7,032.03	7,032.03	18.25	247.41	-40.18	-1,084.87	-158.26	782.83	516.64	266.19	2.941	
7,300.00	7,092.74	7,085.74	7,085.74	18.23	249.31	-52.37	-1,084.87	-158.26	709.27	441.17	268.10	2.646	
7,400.00	7,132.71	7,125.71	7,125.71	18.23	250.73	-66.42	-1,084.87	-158.26	633.45	363.92	269.52	2.350	
7,500.00	7,157.96	7,150.96	7,150.96	18.28	251.63	-79.60	-1,084.87	-158.26	559.72	289.26	270.46	2.069	
7,600.00	7,167.85	7,160.85	7,160.85	18.46	251.98	-89.08	-1,084.87	-158.26	493.54	222.58	270.96	1.821	
7,700.00	7,168.14	7,161.14	7,161.14	18.86	251.99	-89.95	-1,084.87	-158.26	440.66	169.33	271.33	1.624	
7,800.00	7,168.31	7,161.31	7,161.31	19.49	251.99	-89.98	-1,084.87	-158.26	405.94	133.95	271.99	1.492 Level 3	
7,896.96	7,168.47	7,161.47	7,161.47	20.25	252.00	-90.00	-1,084.87	-158.26	394.20	121.37	272.83	1.445 Level 3, CC	
7,900.00	7,168.48	7,161.48	7,161.48	20.27	252.00	-90.00	-1,084.87	-158.26	394.21	121.35	272.86	1.445 Level 3, ES, SF	
8,000.00	7,168.64	7,161.64	7,161.64	21.18	252.00	-90.02	-1,084.87	-158.26	407.44	133.80	273.64	1.489 Level 3	
8,100.00	7,168.81	7,161.81	7,161.81	22.18	252.01	-90.05	-1,084.87	-158.26	443.42	169.28	274.14	1.617	
8,200.00	7,168.98	7,161.98	7,161.98	23.25	252.02	-90.07	-1,084.87	-158.26	497.22	222.87	274.35	1.812	
8,300.00	7,169.14	7,162.14	7,162.14	24.40	252.02	-90.10	-1,084.87	-158.26	563.77	289.39	274.38	2.055	
8,400.00	7,169.31	7,162.31	7,162.31	25.60	252.03	-90.12	-1,084.87	-158.26	639.10	364.78	274.32	2.330	
8,500.00	7,169.48	7,162.48	7,162.48	26.85	252.03	-90.15	-1,084.87	-158.26	720.45	446.23	274.22	2.627	
8,600.00	7,169.64	7,162.64	7,162.64	28.14	252.04	-90.17	-1,084.87	-158.26	806.02	531.89	274.13	2.940	
8,700.00	7,169.81	7,162.81	7,162.81	29.47	252.05	-90.19	-1,084.87	-158.26	894.58	620.54	274.04	3.264	
8,800.00	7,169.98	7,162.98	7,162.98	30.83	252.05	-90.22	-1,084.87	-158.26	985.33	711.37	273.96	3.597	
8,900.00	7,170.14	7,163.14	7,163.14	32.23	252.06	-90.24	-1,084.87	-158.26	1,077.72	803.83	273.89	3.935	
9,000.00	7,170.31	7,163.31	7,163.31	33.64	252.06	-90.27	-1,084.87	-158.26	1,171.36	897.53	273.84	4.278	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design		5N-66W-29 Offsets Incomplete (Need 2 Directionals) - KAMMERZELL J 29-19 - Noble SI Well - Actual										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_NS-GYRO-MS, 7350-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	13.76	13.76	3.28	3.28	-119.19	-548.98	-982.69	1,125.63				
100.00	100.00	105.96	105.96	3.28	3.29	-119.19	-549.18	-983.08	1,126.11	1,118.75	7.36	153.020	
200.00	200.00	205.98	205.97	3.31	3.32	-119.19	-549.65	-983.73	1,126.91	1,119.50	7.42	151.970	
300.00	299.98	304.64	304.63	3.35	3.38	111.55	-550.32	-984.35	1,128.43	1,120.91	7.52	150.088	
400.00	399.84	410.24	410.23	3.41	3.47	111.73	-551.08	-984.73	1,131.03	1,123.35	7.67	147.431	
500.00	499.45	507.01	506.99	3.49	3.58	112.03	-551.90	-984.93	1,134.88	1,127.01	7.87	144.271	
600.00	598.70	610.22	610.20	3.61	3.72	112.49	-552.72	-985.06	1,140.01	1,131.88	8.12	140.368	
700.00	697.51	706.62	706.60	3.76	3.87	113.07	-553.57	-985.10	1,146.47	1,138.05	8.42	136.125	
800.00	796.21	806.14	806.11	3.95	4.04	113.75	-554.58	-985.13	1,153.41	1,144.64	8.77	131.450	
900.00	894.91	908.18	908.15	4.16	4.23	114.45	-555.54	-984.99	1,160.34	1,151.18	9.17	126.584	
1,000.00	993.61	1,008.31	1,008.27	4.40	4.41	115.13	-556.36	-984.71	1,167.25	1,157.66	9.58	121.829	
1,100.00	1,092.32	1,107.87	1,107.83	4.66	4.61	115.80	-557.08	-984.37	1,174.22	1,164.20	10.02	117.186	
1,200.00	1,191.02	1,201.48	1,201.44	4.93	4.81	116.41	-558.01	-984.15	1,181.55	1,171.07	10.48	112.705	
1,300.00	1,289.72	1,296.93	1,296.87	5.21	5.04	117.03	-559.15	-984.20	1,189.38	1,178.39	10.98	108.285	
1,400.00	1,388.42	1,395.41	1,395.35	5.51	5.29	117.66	-560.26	-984.44	1,197.50	1,185.99	11.51	104.024	
7,600.00	7,167.85	7,227.70	7,226.71	18.46	18.69	102.97	-604.46	-1,001.74	1,145.90	1,109.19	36.71	31.214	
7,700.00	7,168.14	7,223.34	7,222.36	18.86	18.69	114.22	-604.55	-1,001.91	1,046.25	1,009.51	36.75	28.473	
7,800.00	7,168.31	7,218.98	7,218.00	19.49	18.68	111.70	-604.64	-1,002.08	946.67	909.88	36.79	25.732	
7,900.00	7,168.48	7,214.75	7,213.78	20.27	18.68	109.16	-604.73	-1,002.24	847.16	810.31	36.85	22.991	
8,000.00	7,168.64	7,210.64	7,209.68	21.18	18.68	106.62	-604.82	-1,002.40	747.76	710.84	36.92	20.252	
8,100.00	7,168.81	7,206.66	7,205.70	22.18	18.67	104.08	-604.91	-1,002.55	648.53	611.50	37.03	17.515	
8,200.00	7,168.98	7,202.79	7,201.83	23.25	18.67	101.56	-605.00	-1,002.69	549.55	512.37	37.18	14.782	
8,300.00	7,169.14	7,199.10	7,198.14	24.40	18.67	99.10	-605.09	-1,002.82	450.99	413.57	37.42	12.054	
8,400.00	7,169.31	7,195.67	7,194.72	25.60	18.66	96.78	-605.17	-1,002.95	353.20	315.37	37.84	9.335	
8,500.00	7,169.48	7,192.27	7,191.32	26.85	18.66	94.46	-605.25	-1,003.07	257.09	218.38	38.70	6.643	
8,600.00	7,169.64	7,188.90	7,187.95	28.14	18.66	92.13	-605.32	-1,003.19	165.56	124.61	40.95	4.043	
8,700.00	7,169.81	7,185.55	7,184.60	29.47	18.65	89.81	-605.39	-1,003.31	93.29	46.03	47.26	1.974	
8,743.64	7,169.88	7,184.10	7,183.15	30.07	18.65	88.80	-605.42	-1,003.36	82.47	33.32	49.15	1.678 CC, ES, SF	
8,800.00	7,169.98	7,182.23	7,181.28	30.83	18.65	87.50	-605.46	-1,003.43	99.87	54.46	45.41	2.199	
8,900.00	7,170.14	7,178.93	7,177.99	32.23	18.65	85.22	-605.53	-1,003.54	176.70	137.06	39.64	4.458	
9,000.00	7,170.31	7,175.66	7,174.72	33.64	18.64	82.96	-605.59	-1,003.66	269.16	231.21	37.95	7.092	
9,100.00	7,170.48	7,172.41	7,171.48	35.08	18.64	80.74	-605.65	-1,003.77	365.59	328.19	37.40	9.776	
9,200.00	7,170.64	7,169.19	7,168.26	36.54	18.64	78.56	-605.71	-1,003.89	463.51	426.32	37.18	12.466	
9,300.00	7,170.81	7,165.99	7,165.06	38.02	18.64	76.43	-605.77	-1,004.00	562.14	525.04	37.09	15.154	
9,400.00	7,170.98	7,162.82	7,161.89	39.51	18.63	74.35	-605.82	-1,004.11	661.17	624.10	37.07	17.837	
9,500.00	7,171.14	7,159.67	7,158.75	41.01	18.63	72.32	-605.87	-1,004.22	760.43	723.36	37.07	20.513	
9,600.00	7,171.31	7,156.55	7,155.62	42.53	18.63	70.35	-605.92	-1,004.33	859.86	822.77	37.09	23.183	
9,700.00	7,171.48	7,153.44	7,152.52	44.05	18.62	68.44	-605.96	-1,004.43	959.39	922.27	37.12	25.844	
9,800.00	7,171.64	7,150.37	7,149.45	45.59	18.62	66.59	-606.00	-1,004.54	1,059.01	1,021.85	37.16	28.497	
9,900.00	7,171.81	7,147.31	7,146.39	47.14	18.62	64.81	-606.04	-1,004.64	1,158.68	1,121.47	37.21	31.142	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE 2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.00	2,474.15	2,466.15	2,466.15	7.42	85.67	17.14	-1,197.78	917.23	1,187.64	1,094.85	92.79	12.799		
2,600.00	2,572.85	2,564.85	2,564.85	7.54	89.17	17.38	-1,197.78	917.23	1,172.29	1,075.90	96.39	12.162		
2,700.00	2,671.56	2,663.56	2,663.56	7.68	92.66	17.61	-1,197.78	917.23	1,156.96	1,056.96	100.00	11.570		
2,800.00	2,770.26	2,762.26	2,762.26	7.84	96.16	17.86	-1,197.78	917.23	1,141.65	1,038.02	103.62	11.017		
2,900.00	2,868.96	2,860.96	2,860.96	8.00	99.65	18.11	-1,197.78	917.23	1,126.35	1,019.09	107.26	10.501		
3,000.00	2,967.66	2,959.66	2,959.66	8.18	103.15	18.36	-1,197.78	917.23	1,111.08	1,000.18	110.91	10.018		
3,100.00	3,066.37	3,058.37	3,058.37	8.36	106.64	18.63	-1,197.78	917.23	1,095.84	981.27	114.56	9.565		
3,200.00	3,165.07	3,157.07	3,157.07	8.56	110.14	18.90	-1,197.78	917.23	1,080.61	962.38	118.23	9.140		
3,300.00	3,263.77	3,255.77	3,255.77	8.76	113.64	19.18	-1,197.78	917.23	1,065.41	943.51	121.90	8.740		
3,400.00	3,362.47	3,354.47	3,354.47	8.97	117.13	19.47	-1,197.78	917.23	1,050.24	924.65	125.59	8.363		
3,500.00	3,461.18	3,453.18	3,453.18	9.19	120.63	19.76	-1,197.78	917.23	1,035.09	905.81	129.28	8.007		
3,600.00	3,559.88	3,551.88	3,551.88	9.42	124.12	20.07	-1,197.78	917.23	1,019.97	887.00	132.97	7.670		
3,700.00	3,658.58	3,650.58	3,650.58	9.65	127.62	20.38	-1,197.78	917.23	1,004.88	868.20	136.68	7.352		
3,800.00	3,757.28	3,749.28	3,749.28	9.89	131.12	20.70	-1,197.78	917.23	989.82	849.43	140.39	7.050		
3,900.00	3,855.99	3,847.99	3,847.99	10.14	134.61	21.04	-1,197.78	917.23	974.79	830.68	144.11	6.764		
4,000.00	3,954.69	3,946.69	3,946.69	10.39	138.11	21.38	-1,197.78	917.23	959.80	811.97	147.83	6.492		
4,100.00	4,053.39	4,045.39	4,045.39	10.65	141.60	21.73	-1,197.78	917.23	944.84	793.28	151.56	6.234		
4,200.00	4,152.09	4,144.09	4,144.09	10.91	145.10	22.10	-1,197.78	917.23	929.91	774.62	155.29	5.988		
4,300.00	4,250.79	4,242.79	4,242.79	11.17	148.60	22.48	-1,197.78	917.23	915.03	756.00	159.03	5.754		
4,400.00	4,349.50	4,341.50	4,341.50	11.44	152.09	22.87	-1,197.78	917.23	900.18	737.41	162.77	5.530		
4,500.00	4,448.20	4,440.20	4,440.20	11.71	155.59	23.27	-1,197.78	917.23	885.38	718.86	166.52	5.317		
4,600.00	4,546.90	4,538.90	4,538.90	11.99	159.09	23.69	-1,197.78	917.23	870.62	700.35	170.27	5.113		
4,700.00	4,645.60	4,637.60	4,637.60	12.27	162.58	24.12	-1,197.78	917.23	855.91	681.89	174.03	4.918		
4,800.00	4,744.31	4,736.31	4,736.31	12.55	166.08	24.56	-1,197.78	917.23	841.25	663.47	177.78	4.732		
4,900.00	4,843.01	4,835.01	4,835.01	12.84	169.58	25.02	-1,197.78	917.23	826.64	645.10	181.54	4.553		
5,000.00	4,941.71	4,933.71	4,933.71	13.12	173.07	25.50	-1,197.78	917.23	812.08	626.78	185.31	4.382		
5,100.00	5,040.41	5,032.41	5,032.41	13.41	176.57	26.00	-1,197.78	917.23	797.59	608.51	189.08	4.218		
5,200.00	5,139.12	5,131.12	5,131.12	13.71	180.07	26.51	-1,197.78	917.23	783.15	590.30	192.85	4.061		
5,300.00	5,237.82	5,229.82	5,229.82	14.00	183.56	27.04	-1,197.78	917.23	768.78	572.15	196.62	3.910		
5,400.00	5,336.52	5,328.52	5,328.52	14.30	187.06	27.60	-1,197.78	917.23	754.47	554.07	200.40	3.765		
5,500.00	5,435.22	5,427.22	5,427.22	14.60	190.56	28.17	-1,197.78	917.23	740.24	536.06	204.18	3.625		
5,600.00	5,533.93	5,525.93	5,525.93	14.90	194.05	28.77	-1,197.78	917.23	726.08	518.12	207.96	3.491		
5,700.00	5,632.63	5,624.63	5,624.63	15.20	197.55	29.39	-1,197.78	917.23	712.01	500.26	211.75	3.362		
5,800.00	5,731.33	5,723.33	5,723.33	15.50	201.05	30.03	-1,197.78	917.23	698.02	482.48	215.54	3.238		
5,900.00	5,830.03	5,822.03	5,822.03	15.81	204.54	30.70	-1,197.78	917.23	684.12	464.78	219.33	3.119		
6,000.00	5,928.74	5,920.74	5,920.74	16.11	208.04	31.40	-1,197.78	917.23	670.31	447.19	223.13	3.004		
6,100.00	6,027.44	6,019.44	6,019.44	16.42	211.54	32.13	-1,197.78	917.23	656.61	429.69	226.92	2.894		
6,200.00	6,126.14	6,118.14	6,118.14	16.73	215.03	32.89	-1,197.78	917.23	643.02	412.29	230.72	2.787		
6,300.00	6,224.84	6,216.84	6,216.84	17.04	218.53	33.68	-1,197.78	917.23	629.54	395.01	234.53	2.684		
6,400.00	6,323.55	6,315.55	6,315.55	17.35	222.03	34.50	-1,197.78	917.23	616.19	377.85	238.34	2.585		
6,500.00	6,422.25	6,414.25	6,414.25	17.67	225.52	35.36	-1,197.78	917.23	602.97	360.82	242.15	2.490		
6,600.00	6,521.26	6,513.26	6,513.26	17.91	229.03	-3.58	-1,197.78	917.23	590.75	344.83	245.92	2.402		
6,700.00	6,620.47	6,612.47	6,612.47	18.07	232.55	-69.65	-1,197.78	917.23	582.50	332.93	249.57	2.334		
6,800.00	6,717.57	6,709.57	6,709.57	18.18	235.99	-89.73	-1,197.78	917.23	579.30	326.26	253.04	2.289		
6,802.19	6,719.66	6,711.66	6,711.66	18.18	236.06	-90.00	-1,197.78	917.23	579.29	326.18	253.11	2.289 CC, ES		
6,900.00	6,810.17	6,802.17	6,802.17	18.24	239.27	-99.12	-1,197.78	917.23	582.94	326.67	256.27	2.275 SF		
7,000.00	6,895.98	6,887.98	6,887.98	18.27	242.31	-105.33	-1,197.78	917.23	595.83	336.59	259.24	2.298		
7,100.00	6,972.90	6,964.90	6,964.90	18.27	245.03	-109.60	-1,197.78	917.23	620.32	358.41	261.92	2.368		
7,200.00	7,039.03	7,031.03	7,031.03	18.25	247.38	-111.96	-1,197.78	917.23	657.99	393.69	264.30	2.490		
7,300.00	7,092.74	7,084.74	7,084.74	18.23	249.28	-112.06	-1,197.78	917.23	709.11	442.77	266.34	2.662		
7,400.00	7,132.71	7,124.71	7,124.71	18.23	250.70	-109.31	-1,197.78	917.23	772.62	504.64	267.98	2.883		
7,500.00	7,157.96	7,149.96	7,149.96	18.28	251.59	-102.89	-1,197.78	917.23	846.35	577.20	269.15	3.145		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPRC 29-7C - Noble T/A Well - No Surveys											Offset Site Error:	0.00 usft
Survey Program:	100-SRC Energy_2" CONE_2.448											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,600.00	7,167.85	7,159.85	7,159.85	18.46	251.94	-91.86	-1,197.78	917.23	927.51	657.71	269.80	3.438	
7,700.00	7,168.14	7,160.14	7,160.14	18.86	251.95	-90.17	-1,197.78	917.23	1,012.93	742.84	270.09	3.750	
7,800.00	7,168.31	7,160.31	7,160.31	19.49	251.96	-90.19	-1,197.78	917.23	1,100.82	830.47	270.36	4.072	
7,900.00	7,168.48	7,160.48	7,160.48	20.27	251.96	-90.20	-1,197.78	917.23	1,190.63	920.03	270.60	4.400	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys													Offset Site Error: 0.00 usft	
Survey Program: 100-SRC Energy_2" CONE_2.448													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	94.76	-93.96	1,128.93	1,133.09					
100.00	100.00	76.00	76.00	3.28	3.55	94.76	-93.96	1,128.93	1,132.84	1,125.22	7.62	148.667		
200.00	200.00	176.00	176.00	3.31	5.54	94.76	-93.96	1,128.93	1,132.84	1,123.20	9.64	117.555		
300.00	299.98	275.98	275.98	3.35	8.65	-34.61	-93.96	1,128.93	1,131.40	1,118.61	12.79	88.458		
400.00	399.84	375.84	375.84	3.41	12.00	-34.81	-93.96	1,128.93	1,127.10	1,110.90	16.20	69.571		
500.00	499.45	475.45	475.45	3.49	15.43	-35.15	-93.96	1,128.93	1,119.95	1,100.23	19.71	56.813		
600.00	598.70	574.70	574.70	3.61	18.88	-35.62	-93.96	1,128.93	1,109.98	1,086.71	23.28	47.684		
700.00	697.51	673.51	673.51	3.76	22.33	-36.18	-93.96	1,128.93	1,097.47	1,070.59	26.88	40.831		
800.00	796.21	772.21	772.21	3.95	25.80	-36.68	-93.96	1,128.93	1,084.49	1,053.98	30.50	35.552		
900.00	894.91	870.91	870.91	4.16	29.27	-37.19	-93.96	1,128.93	1,071.59	1,037.43	34.16	31.370		
1,000.00	993.61	969.61	969.61	4.40	32.75	-37.71	-93.96	1,128.93	1,058.78	1,020.94	37.84	27.979		
1,100.00	1,092.32	1,068.32	1,068.32	4.66	36.23	-38.25	-93.96	1,128.93	1,046.06	1,004.52	41.54	25.179		
1,200.00	1,191.02	1,167.02	1,167.02	4.93	39.71	-38.79	-93.96	1,128.93	1,033.44	988.17	45.27	22.831		
1,300.00	1,289.72	1,265.72	1,265.72	5.21	43.20	-39.36	-93.96	1,128.93	1,020.91	971.91	49.00	20.834		
1,400.00	1,388.42	1,364.42	1,364.42	5.51	46.69	-39.93	-93.96	1,128.93	1,008.48	955.73	52.75	19.117		
1,500.00	1,487.13	1,463.13	1,463.13	5.81	50.18	-40.52	-93.96	1,128.93	996.15	939.64	56.52	17.626		
1,600.00	1,585.83	1,561.83	1,561.83	6.13	53.67	-41.13	-93.96	1,128.93	983.93	923.64	60.29	16.320		
1,700.00	1,684.53	1,660.53	1,660.53	6.45	57.16	-41.74	-93.96	1,128.93	971.83	907.75	64.07	15.168		
1,800.00	1,783.23	1,759.23	1,759.23	6.78	60.65	-42.38	-93.96	1,128.93	959.84	891.97	67.86	14.144		
1,900.00	1,881.94	1,857.94	1,857.94	6.96	64.14	-43.03	-93.96	1,128.93	947.97	876.65	71.31	13.293		
2,000.00	1,980.64	1,956.64	1,956.64	6.99	67.64	-43.70	-93.96	1,128.93	936.22	861.38	74.84	12.509		
2,100.00	2,079.34	2,055.34	2,055.34	7.05	71.13	-44.38	-93.96	1,128.93	924.60	846.21	78.39	11.795		
2,200.00	2,178.04	2,154.04	2,154.04	7.12	74.62	-45.08	-93.96	1,128.93	913.12	831.17	81.95	11.142		
2,300.00	2,276.75	2,252.75	2,252.75	7.20	78.12	-45.80	-93.96	1,128.93	901.78	816.25	85.53	10.543		
2,400.00	2,375.45	2,351.45	2,351.45	7.30	81.61	-46.53	-93.96	1,128.93	890.58	801.45	89.13	9.992		
2,500.00	2,474.15	2,450.15	2,450.15	7.42	85.11	-47.29	-93.96	1,128.93	879.54	786.80	92.74	9.484		
2,600.00	2,572.85	2,548.85	2,548.85	7.54	88.60	-48.06	-93.96	1,128.93	868.65	772.28	96.37	9.014		
2,700.00	2,671.56	2,647.56	2,647.56	7.68	92.10	-48.85	-93.96	1,128.93	857.92	757.91	100.01	8.579		
2,800.00	2,770.26	2,746.26	2,746.26	7.84	95.59	-49.66	-93.96	1,128.93	847.36	743.70	103.66	8.174		
2,900.00	2,868.96	2,844.96	2,844.96	8.00	99.09	-50.49	-93.96	1,128.93	836.98	729.65	107.32	7.799		
3,000.00	2,967.66	2,943.66	2,943.66	8.18	102.58	-51.34	-93.96	1,128.93	826.77	715.77	111.00	7.448		
3,100.00	3,066.37	3,042.37	3,042.37	8.36	106.08	-52.22	-93.96	1,128.93	816.76	702.07	114.69	7.121		
3,200.00	3,165.07	3,141.07	3,141.07	8.56	109.57	-53.11	-93.96	1,128.93	806.94	688.55	118.39	6.816		
3,300.00	3,263.77	3,239.77	3,239.77	8.76	113.07	-54.03	-93.96	1,128.93	797.32	675.22	122.10	6.530		
3,400.00	3,362.47	3,338.47	3,338.47	8.97	116.56	-54.96	-93.96	1,128.93	787.92	662.10	125.82	6.262		
3,500.00	3,461.18	3,437.18	3,437.18	9.19	120.06	-55.92	-93.96	1,128.93	778.73	649.18	129.55	6.011		
3,600.00	3,559.88	3,535.88	3,535.88	9.42	123.56	-56.90	-93.96	1,128.93	769.76	636.48	133.28	5.775		
3,700.00	3,658.58	3,634.58	3,634.58	9.65	127.05	-57.91	-93.96	1,128.93	761.03	624.01	137.03	5.554		
3,800.00	3,757.28	3,733.28	3,733.28	9.89	130.55	-58.93	-93.96	1,128.93	752.54	611.77	140.78	5.346		
3,900.00	3,855.99	3,831.99	3,831.99	10.14	134.04	-59.98	-93.96	1,128.93	744.31	599.77	144.53	5.150		
4,000.00	3,954.69	3,930.69	3,930.69	10.39	137.54	-61.05	-93.96	1,128.93	736.32	588.03	148.29	4.965		
4,100.00	4,053.39	4,029.39	4,029.39	10.65	141.04	-62.14	-93.96	1,128.93	728.61	576.55	152.06	4.792		
4,200.00	4,152.09	4,128.09	4,128.09	10.91	144.53	-63.26	-93.96	1,128.93	721.17	565.33	155.83	4.628		
4,300.00	4,250.79	4,226.79	4,226.79	11.17	148.03	-64.40	-93.96	1,128.93	714.01	554.40	159.61	4.473		
4,400.00	4,349.50	4,325.50	4,325.50	11.44	151.53	-65.56	-93.96	1,128.93	707.15	543.75	163.39	4.328		
4,500.00	4,448.20	4,424.20	4,424.20	11.71	155.02	-66.74	-93.96	1,128.93	700.58	533.40	167.18	4.191		
4,600.00	4,546.90	4,522.90	4,522.90	11.99	158.52	-67.95	-93.96	1,128.93	694.33	523.36	170.97	4.061		
4,700.00	4,645.60	4,621.60	4,621.60	12.27	162.02	-69.17	-93.96	1,128.93	688.39	513.63	174.76	3.939		
4,800.00	4,744.31	4,720.31	4,720.31	12.55	165.51	-70.42	-93.96	1,128.93	682.78	504.23	178.55	3.824		
4,900.00	4,843.01	4,819.01	4,819.01	12.84	169.01	-71.68	-93.96	1,128.93	677.51	495.16	182.35	3.715		
5,000.00	4,941.71	4,917.71	4,917.71	13.12	172.51	-72.96	-93.96	1,128.93	672.57	486.42	186.15	3.613		
5,100.00	5,040.41	5,016.41	5,016.41	13.41	176.00	-74.27	-93.96	1,128.93	667.99	478.04	189.95	3.517		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - UPV 29-2H6 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,115.12	5,115.12	13.71	179.50	-75.58	-93.96	1,128.93	663.76	470.01	193.75	3.426	
5,300.00	5,237.82	5,213.82	5,213.82	14.00	183.00	-76.92	-93.96	1,128.93	659.90	462.34	197.55	3.340	
5,400.00	5,336.52	5,312.52	5,312.52	14.30	186.49	-78.27	-93.96	1,128.93	656.40	455.05	201.36	3.260	
5,500.00	5,435.22	5,411.22	5,411.22	14.60	189.99	-79.63	-93.96	1,128.93	653.28	448.13	205.16	3.184	
5,600.00	5,533.93	5,509.93	5,509.93	14.90	193.49	-81.00	-93.96	1,128.93	650.55	441.59	208.96	3.113	
5,700.00	5,632.63	5,608.63	5,608.63	15.20	196.98	-82.39	-93.96	1,128.93	648.20	435.44	212.76	3.047	
5,800.00	5,731.33	5,707.33	5,707.33	15.50	200.48	-83.78	-93.96	1,128.93	646.24	429.67	216.57	2.984	
5,900.00	5,830.03	5,806.03	5,806.03	15.81	203.98	-85.18	-93.96	1,128.93	644.67	424.31	220.37	2.925	
6,000.00	5,928.74	5,904.74	5,904.74	16.11	207.47	-86.59	-93.96	1,128.93	643.51	419.34	224.17	2.871	
6,100.00	6,027.44	6,003.44	6,003.44	16.42	210.97	-88.00	-93.96	1,128.93	642.74	414.77	227.97	2.819	
6,200.00	6,126.14	6,102.14	6,102.14	16.73	214.47	-89.41	-93.96	1,128.93	642.37	410.61	231.76	2.772	
6,241.84	6,167.43	6,143.43	6,143.43	16.86	215.93	-90.00	-93.96	1,128.93	642.33	408.98	233.35	2.753 CC	
6,300.00	6,224.84	6,200.84	6,200.84	17.04	217.96	-90.82	-93.96	1,128.93	642.40	406.84	235.56	2.727	
6,400.00	6,323.55	6,300.45	6,299.55	17.35	221.49	-92.23	-93.96	1,128.93	642.84	403.45	239.38	2.685	
6,500.00	6,422.25	6,401.75	6,398.25	17.67	225.08	-93.64	-93.96	1,128.93	643.67	400.40	243.27	2.646	
6,600.00	6,521.26	6,502.74	6,497.26	17.91	228.66	-133.86	-93.96	1,128.93	646.84	399.76	247.08	2.618 ES, SF	
6,700.00	6,620.47	6,603.53	6,596.47	18.07	232.23	160.64	-93.96	1,128.93	658.48	407.67	250.80	2.625	
6,800.00	6,717.57	6,706.43	6,693.57	18.18	235.88	142.52	-93.96	1,128.93	678.76	424.19	254.57	2.666	
6,900.00	6,810.17	6,786.17	6,786.17	18.24	238.70	135.91	-93.96	1,128.93	707.82	450.35	257.47	2.749	
7,000.00	6,895.98	6,871.98	6,871.98	18.27	241.74	132.37	-93.96	1,128.93	746.05	485.49	260.56	2.863	
7,100.00	6,972.90	6,948.90	6,948.90	18.27	244.47	129.58	-93.96	1,128.93	793.79	530.49	263.30	3.015	
7,200.00	7,039.03	7,015.03	7,015.03	18.25	246.81	126.36	-93.96	1,128.93	851.03	585.38	265.64	3.204	
7,300.00	7,092.74	7,068.74	7,068.74	18.23	248.71	121.80	-93.96	1,128.93	917.20	649.67	267.53	3.428	
7,400.00	7,132.71	7,108.71	7,108.71	18.23	250.13	115.03	-93.96	1,128.93	991.18	722.27	268.91	3.686	
7,500.00	7,157.96	7,133.96	7,133.96	18.28	251.02	105.19	-93.96	1,128.93	1,071.30	801.56	269.75	3.972	
7,600.00	7,167.85	7,143.85	7,143.85	18.46	251.37	92.00	-93.96	1,128.93	1,155.52	885.48	270.03	4.279	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-62.28	79.05	-150.45	169.95					
100.00	100.00	101.00	101.00	3.28	3.28	-62.28	79.05	-150.45	169.95	162.42	7.53	22.573		
200.00	200.00	201.00	201.00	3.31	3.31	-62.28	79.05	-150.45	169.95	162.38	7.57	22.438	CC, ES	
300.00	299.98	300.56	300.56	3.35	3.34	168.22	78.32	-151.06	171.87	164.22	7.65	22.458		
400.00	399.84	400.41	400.40	3.41	3.40	168.18	77.45	-151.79	177.24	169.46	7.77	22.800		
500.00	499.45	500.02	500.00	3.49	3.48	168.36	76.59	-152.52	186.01	178.07	7.94	23.428		
600.00	598.70	600.74	599.24	3.61	3.58	168.70	75.72	-153.24	198.20	190.04	8.15	24.315		
700.00	697.51	701.94	698.03	3.76	3.70	169.18	74.87	-153.96	213.54	205.13	8.41	25.398		
800.00	796.21	803.25	796.72	3.95	3.84	169.65	74.01	-154.68	229.54	220.85	8.69	26.417		
900.00	894.91	904.55	895.40	4.16	3.99	170.06	73.15	-155.40	245.56	236.56	9.00	27.273		
1,000.00	993.61	1,005.86	994.09	4.40	4.15	170.43	72.29	-156.12	261.60	252.25	9.35	27.984		
1,100.00	1,092.32	1,107.17	1,092.78	4.66	4.33	170.75	71.43	-156.84	277.64	267.92	9.72	28.568		
1,200.00	1,191.02	1,208.47	1,191.47	4.93	4.51	171.03	70.58	-157.56	293.68	283.57	10.11	29.045		
1,300.00	1,289.72	1,309.78	1,290.15	5.21	4.71	171.29	69.72	-158.28	309.74	299.22	10.52	29.431		
1,400.00	1,388.42	1,388.92	1,388.84	5.51	4.87	171.52	68.86	-159.00	325.80	314.89	10.91	29.864		
1,500.00	1,487.13	1,487.61	1,487.53	5.81	5.07	171.73	68.00	-159.72	341.86	330.52	11.35	30.125		
1,600.00	1,585.83	1,586.30	1,586.22	6.13	5.28	171.92	67.15	-160.44	357.93	346.13	11.80	30.332		
1,700.00	1,684.53	1,685.00	1,684.90	6.45	5.50	172.09	66.29	-161.16	374.01	361.74	12.26	30.496		
1,800.00	1,783.23	1,783.69	1,783.59	6.78	5.72	172.25	65.43	-161.88	390.08	377.34	12.74	30.623		
1,900.00	1,881.94	1,882.39	1,882.28	6.96	5.95	172.40	64.57	-162.60	406.16	393.44	12.72	31.930		
2,000.00	1,980.64	1,981.08	1,980.97	6.99	6.18	172.54	63.72	-163.32	422.24	409.27	12.97	32.565		
2,100.00	2,079.34	2,079.77	2,079.65	7.05	6.41	172.66	62.86	-164.04	438.32	425.09	13.23	33.131		
2,200.00	2,178.04	2,178.47	2,178.34	7.12	6.64	172.78	62.00	-164.76	454.41	440.89	13.51	33.629		
2,300.00	2,276.75	2,277.16	2,277.03	7.20	6.88	172.89	61.14	-165.48	470.49	456.68	13.81	34.064		
2,400.00	2,375.45	2,375.86	2,375.72	7.30	7.12	172.99	60.28	-166.20	486.58	472.45	14.13	34.440		
2,500.00	2,474.15	2,474.55	2,474.40	7.42	7.37	173.08	59.43	-166.92	502.67	488.21	14.46	34.762		
2,600.00	2,572.85	2,573.24	2,573.09	7.54	7.61	173.17	58.57	-167.64	518.76	503.95	14.81	35.033		
2,700.00	2,671.56	2,671.94	2,671.78	7.68	7.86	173.26	57.71	-168.36	534.85	519.68	15.17	35.259		
2,800.00	2,770.26	2,770.63	2,770.47	7.84	8.11	173.34	56.85	-169.08	550.94	535.40	15.54	35.443		
2,900.00	2,868.96	2,869.32	2,869.15	8.00	8.36	173.41	56.00	-169.80	567.04	551.11	15.93	35.590		
3,000.00	2,967.66	2,968.02	2,967.84	8.18	8.61	173.48	55.14	-170.52	583.13	566.80	16.33	35.704		
3,100.00	3,066.37	3,066.71	3,066.53	8.36	8.86	173.55	54.28	-171.23	599.23	582.48	16.74	35.788		
3,200.00	3,165.07	3,165.41	3,165.22	8.56	9.11	173.61	53.42	-171.95	615.32	598.16	17.17	35.847		
3,300.00	3,263.77	3,264.10	3,263.90	8.76	9.37	173.67	52.57	-172.67	631.42	613.82	17.60	35.883		
3,400.00	3,362.47	3,362.79	3,362.59	8.97	9.63	173.73	51.71	-173.39	647.52	629.48	18.04	35.899		
3,500.00	3,461.18	3,461.49	3,461.28	9.19	9.88	173.78	50.85	-174.11	663.62	645.13	18.49	35.898		
3,600.00	3,559.88	3,560.18	3,559.97	9.42	10.14	173.83	49.99	-174.83	679.72	660.77	18.94	35.882		
3,700.00	3,658.58	3,658.88	3,658.65	9.65	10.40	173.88	49.14	-175.55	695.81	676.41	19.41	35.854		
3,800.00	3,757.28	3,757.57	3,757.34	9.89	10.66	173.93	48.28	-176.27	711.91	692.04	19.88	35.814		
3,900.00	3,855.99	3,856.26	3,856.03	10.14	10.92	173.98	47.42	-176.99	728.01	707.66	20.36	35.765		
4,000.00	3,954.69	3,954.96	3,954.72	10.39	11.18	174.02	46.56	-177.71	744.11	723.28	20.84	35.709		
4,100.00	4,053.39	4,053.65	4,053.40	10.65	11.44	174.06	45.70	-178.43	760.22	738.89	21.33	35.646		
4,200.00	4,152.09	4,152.34	4,152.09	10.91	11.70	174.10	44.85	-179.15	776.32	754.50	21.82	35.577		
4,300.00	4,250.79	4,251.04	4,250.78	11.17	11.96	174.14	43.99	-179.87	792.42	770.10	22.32	35.504		
4,400.00	4,349.50	4,349.73	4,349.47	11.44	12.23	174.17	43.13	-180.59	808.52	785.70	22.82	35.428		
4,500.00	4,448.20	4,448.43	4,448.15	11.71	12.49	174.21	42.27	-181.31	824.62	801.29	23.33	35.348		
4,600.00	4,546.90	4,547.12	4,546.84	11.99	12.75	174.24	41.42	-182.03	840.72	816.89	23.84	35.267		
4,700.00	4,645.60	4,645.81	4,645.53	12.27	13.02	174.27	40.56	-182.75	856.83	832.47	24.35	35.183		
4,800.00	4,744.31	4,744.51	4,744.22	12.55	13.28	174.31	39.70	-183.47	872.93	848.06	24.87	35.099		
4,900.00	4,843.01	4,843.20	4,842.90	12.84	13.55	174.34	38.84	-184.19	889.03	863.64	25.39	35.014		
5,000.00	4,941.71	4,941.90	4,941.59	13.12	13.81	174.36	37.99	-184.91	905.14	879.22	25.91	34.928		
5,100.00	5,040.41	5,040.59	5,040.28	13.41	14.08	174.39	37.13	-185.63	921.24	894.80	26.44	34.842		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft	
Survey Program:												0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA		Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning			
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
5,200.00	5,139.12	5,139.28	5,138.97	13.71	14.34	174.42	36.27	-186.35	937.34	910.38	26.97	34.756					
5,300.00	5,237.82	5,237.98	5,237.65	14.00	14.61	174.45	35.41	-187.07	953.45	925.95	27.50	34.670					
5,400.00	5,336.52	5,336.67	5,336.34	14.30	14.87	174.47	34.55	-187.79	969.55	941.52	28.03	34.585					
5,500.00	5,435.22	5,435.36	5,435.03	14.60	15.14	174.50	33.70	-188.51	985.66	957.09	28.57	34.501					
5,600.00	5,533.93	5,534.06	5,533.72	14.90	15.41	174.52	32.84	-189.23	1,001.76	972.66	29.11	34.417					
5,700.00	5,632.63	5,632.75	5,632.40	15.20	15.67	174.54	31.98	-189.95	1,017.87	988.22	29.65	34.334					
5,800.00	5,731.33	5,731.45	5,731.09	15.50	15.94	174.56	31.12	-190.67	1,033.97	1,003.78	30.19	34.252					
5,900.00	5,830.03	5,830.14	5,829.78	15.81	16.21	174.59	30.27	-191.39	1,050.08	1,019.35	30.73	34.171					
6,000.00	5,928.74	5,928.83	5,928.47	16.11	16.47	174.61	29.41	-192.11	1,066.18	1,034.91	31.27	34.091					
6,100.00	6,027.44	6,027.53	6,027.15	16.42	16.74	174.63	28.55	-192.83	1,082.29	1,050.47	31.82	34.013					
6,200.00	6,126.14	6,126.22	6,125.84	16.73	17.01	174.65	27.69	-193.55	1,098.39	1,066.03	32.37	33.935					
6,300.00	6,224.84	6,224.92	6,224.53	17.04	17.28	174.66	26.84	-194.26	1,114.50	1,081.58	32.92	33.859					
6,400.00	6,323.55	6,323.61	6,323.22	17.35	17.54	174.68	25.98	-194.98	1,130.60	1,097.14	33.47	33.784					
6,500.00	6,422.25	8,039.33	7,362.66	17.67	26.79	-138.27	22.87	751.23	1,136.79	1,102.45	34.33	33.110					
6,600.00	6,521.26	8,048.18	7,362.65	17.91	26.83	-170.01	22.92	760.08	1,062.67	1,027.10	35.57	29.875					
6,700.00	6,620.47	8,042.25	7,362.65	18.07	26.81	133.78	22.88	754.15	992.80	955.94	36.86	26.937					
6,800.00	6,717.57	8,020.79	7,362.68	18.18	26.72	121.86	22.75	732.69	929.60	891.45	38.14	24.372					
6,900.00	6,810.17	7,984.33	7,362.72	18.24	26.59	118.78	22.52	696.24	875.12	835.75	39.37	22.227					
7,000.00	6,895.98	7,933.78	7,362.77	18.27	26.45	116.88	22.21	645.68	830.63	790.15	40.48	20.519					
7,100.00	6,972.90	7,870.37	7,362.85	18.27	26.29	114.76	21.82	582.27	796.45	755.03	41.42	19.229					
7,200.00	7,039.03	7,804.33	7,362.93	18.25	26.16	112.28	21.35	507.57	771.87	729.68	42.19	18.295					
7,300.00	7,092.74	7,700.23	7,362.45	18.23	24.96	109.29	20.76	412.15	755.28	713.50	41.79	18.075					
7,400.00	7,132.71	7,565.46	7,342.66	18.23	22.82	104.69	20.11	279.09	741.18	700.78	40.40	18.348					
7,500.00	7,157.96	7,450.04	7,303.78	18.28	21.40	100.53	19.77	170.59	728.61	688.96	39.65	18.378					
7,600.00	7,167.85	7,348.51	7,253.87	18.46	20.50	96.72	19.65	82.29	718.68	679.32	39.36	18.260					
7,700.00	7,168.14	7,260.98	7,200.04	18.86	19.97	92.48	19.69	13.36	712.19	672.79	39.40	18.075					
7,761.34	7,168.24	7,216.03	7,168.85	19.23	19.78	89.97	19.76	-18.99	710.89	671.33	39.56	17.969					
7,800.00	7,168.31	7,190.71	7,150.30	19.49	19.68	88.47	19.81	-36.23	711.46	671.79	39.67	17.937 SF					
7,900.00	7,168.48	7,134.37	7,106.66	20.27	19.52	84.96	19.97	-71.84	718.83	678.80	40.03	17.956					
8,000.00	7,168.64	7,088.86	7,069.23	21.18	19.42	81.98	20.13	-97.70	735.66	695.23	40.43	18.197					
8,100.00	7,168.81	7,050.00	7,035.87	22.18	19.33	79.36	20.30	-117.61	762.38	721.59	40.79	18.692					
8,200.00	7,168.98	7,020.94	7,010.16	23.25	19.27	77.38	20.44	-131.15	798.71	757.60	41.11	19.428					
8,300.00	7,169.14	7,000.00	6,991.27	24.40	19.23	75.94	20.54	-140.18	843.91	802.53	41.38	20.394					
8,400.00	7,169.31	6,973.41	6,966.87	25.60	19.17	74.10	20.69	-150.73	896.89	855.35	41.54	21.590					
8,500.00	7,169.48	6,950.00	6,945.03	26.85	19.12	72.49	20.82	-159.18	956.66	915.01	41.65	22.969					
8,600.00	7,169.64	6,938.65	6,934.34	28.14	19.10	71.71	20.89	-162.98	1,022.10	980.36	41.74	24.485					
8,700.00	7,169.81	6,924.60	6,921.01	29.47	19.07	70.75	20.98	-167.42	1,092.36	1,050.57	41.79	26.141					
8,800.00	7,169.98	6,900.00	6,897.45	30.83	19.02	69.08	21.14	-174.49	1,166.78	1,124.99	41.78	27.924					

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-68.46	59.38	-150.45	161.75					
100.00	100.00	101.00	101.00	3.28	3.28	-68.46	59.38	-150.45	161.75	154.22	7.53	21.483		
200.00	200.00	201.00	201.00	3.31	3.31	-68.46	59.38	-150.45	161.75	154.17	7.57	21.355	CC, ES	
300.00	299.98	300.08	300.07	3.35	3.34	162.15	58.87	-151.16	163.88	156.23	7.65	21.413		
400.00	399.84	400.08	399.91	3.41	3.40	162.37	58.26	-151.99	169.42	161.64	7.77	21.790		
500.00	499.45	500.50	499.49	3.49	3.48	162.89	57.66	-152.82	178.28	170.34	7.94	22.446		
600.00	598.70	601.29	598.69	3.61	3.59	163.63	57.06	-153.65	190.49	182.34	8.16	23.356		
700.00	697.51	702.53	697.45	3.76	3.70	164.54	56.46	-154.47	205.82	197.41	8.41	24.462		
800.00	796.21	803.87	796.10	3.95	3.84	165.42	55.87	-155.29	221.85	213.15	8.70	25.507		
900.00	894.91	905.22	894.75	4.16	3.99	166.18	55.27	-156.11	237.92	228.90	9.01	26.393		
1,000.00	993.61	1,006.56	993.40	4.40	4.16	166.84	54.67	-156.94	254.02	244.66	9.36	27.138		
1,100.00	1,092.32	1,107.90	1,092.05	4.66	4.33	167.42	54.07	-157.76	270.15	260.42	9.73	27.759		
1,200.00	1,191.02	1,190.75	1,190.70	4.93	4.49	167.93	53.48	-158.58	286.31	276.22	10.09	28.371		
1,300.00	1,289.72	1,289.41	1,289.35	5.21	4.68	168.40	52.88	-159.40	302.48	291.98	10.50	28.811		
1,400.00	1,388.42	1,388.06	1,388.00	5.51	4.87	168.81	52.28	-160.22	318.68	307.75	10.92	29.174		
1,500.00	1,487.13	1,486.72	1,486.65	5.81	5.08	169.18	51.69	-161.05	334.88	323.52	11.36	29.473		
1,600.00	1,585.83	1,585.37	1,585.30	6.13	5.29	169.52	51.09	-161.87	351.11	339.29	11.81	29.717		
1,700.00	1,684.53	1,684.03	1,683.95	6.45	5.50	169.83	50.49	-162.69	367.34	355.06	12.28	29.916		
1,800.00	1,783.23	1,782.68	1,782.60	6.78	5.73	170.12	49.89	-163.51	383.58	370.83	12.75	30.077		
1,900.00	1,881.94	1,881.34	1,881.25	6.96	5.86	170.38	49.30	-164.33	399.83	387.19	12.64	31.624		
2,000.00	1,980.64	1,979.99	1,979.90	6.99	5.89	170.62	48.70	-165.15	416.09	403.39	12.69	32.785		
2,100.00	2,079.34	2,078.65	2,078.55	7.05	5.91	170.84	48.10	-165.98	432.35	419.60	12.75	33.922		
2,200.00	2,178.04	2,177.30	2,177.20	7.12	5.95	171.05	47.51	-166.80	448.62	435.79	12.83	34.974		
2,300.00	2,276.75	2,275.96	2,275.85	7.20	6.00	171.24	46.91	-167.62	464.89	451.96	12.94	35.939		
2,400.00	2,375.45	2,374.61	2,374.50	7.30	6.06	171.42	46.31	-168.44	481.17	468.10	13.07	36.814		
2,500.00	2,474.15	2,473.27	2,473.15	7.42	6.13	171.58	45.71	-169.26	497.46	484.23	13.23	37.601		
2,600.00	2,572.85	2,571.92	2,571.80	7.54	6.21	171.74	45.12	-170.09	513.74	500.33	13.41	38.299		
2,700.00	2,671.56	2,670.58	2,670.45	7.68	6.30	171.89	44.52	-170.91	530.04	516.41	13.62	38.912		
2,800.00	2,770.26	2,769.23	2,769.10	7.84	6.40	172.03	43.92	-171.73	546.33	532.48	13.85	39.443		
2,900.00	2,868.96	2,867.89	2,867.75	8.00	6.52	172.16	43.33	-172.55	562.63	548.53	14.10	39.898		
3,000.00	2,967.66	2,966.54	2,966.40	8.18	6.64	172.28	42.73	-173.37	578.93	564.56	14.37	40.282		
3,100.00	3,066.37	3,065.20	3,065.05	8.36	6.77	172.39	42.13	-174.20	595.23	580.57	14.66	40.600		
3,200.00	3,165.07	3,163.86	3,163.70	8.56	6.91	172.50	41.54	-175.02	611.53	596.57	14.97	40.857		
3,300.00	3,263.77	3,262.51	3,262.35	8.76	7.06	172.61	40.94	-175.84	627.84	612.55	15.29	41.060		
3,400.00	3,362.47	3,361.17	3,361.00	8.97	7.21	172.71	40.34	-176.66	644.15	628.52	15.63	41.214		
3,500.00	3,461.18	3,459.82	3,459.65	9.19	7.37	172.80	39.74	-177.48	660.46	644.48	15.98	41.325		
3,600.00	3,559.88	3,558.48	3,558.30	9.42	7.54	172.89	39.15	-178.30	676.77	660.42	16.35	41.396		
3,700.00	3,658.58	3,657.13	3,656.95	9.65	7.71	172.98	38.55	-179.13	693.09	676.36	16.73	41.434		
3,800.00	3,757.28	3,755.79	3,755.60	9.89	7.89	173.06	37.95	-179.95	709.40	692.28	17.12	41.441		
3,900.00	3,855.99	3,854.44	3,854.25	10.14	8.08	173.13	37.36	-180.77	725.72	708.20	17.52	41.423		
4,000.00	3,954.69	3,953.10	3,952.90	10.39	8.26	173.21	36.76	-181.59	742.03	724.10	17.93	41.382		
4,100.00	4,053.39	4,051.75	4,051.55	10.65	8.46	173.28	36.16	-182.41	758.35	740.00	18.35	41.322		
4,200.00	4,152.09	4,150.41	4,150.20	10.91	8.66	173.35	35.56	-183.24	774.67	755.89	18.78	41.246		
4,300.00	4,250.79	4,249.06	4,248.85	11.17	8.86	173.41	34.97	-184.06	790.99	771.77	19.22	41.155		
4,400.00	4,349.50	4,347.72	4,347.50	11.44	9.06	173.48	34.37	-184.88	807.32	787.65	19.67	41.053		
4,500.00	4,448.20	4,446.37	4,446.15	11.71	9.27	173.54	33.77	-185.70	823.64	803.52	20.12	40.940		
4,600.00	4,546.90	4,545.03	4,544.80	11.99	9.48	173.59	33.18	-186.52	839.96	819.38	20.58	40.820		
4,700.00	4,645.60	4,643.68	4,643.45	12.27	9.70	173.65	32.58	-187.35	856.29	835.24	21.04	40.693		
4,800.00	4,744.31	4,742.34	4,742.10	12.55	9.92	173.70	31.98	-188.17	872.61	851.10	21.51	40.561		
4,900.00	4,843.01	4,840.99	4,840.75	12.84	10.14	173.75	31.38	-188.99	888.94	866.95	21.99	40.424		
5,000.00	4,941.71	4,939.65	4,939.40	13.12	10.36	173.80	30.79	-189.81	905.26	882.79	22.47	40.285		
5,100.00	5,040.41	5,038.31	5,038.05	13.41	10.59	173.85	30.19	-190.63	921.59	898.63	22.96	40.143		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27A-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,136.96	5,136.70	13.71	10.81	173.90	29.59	-191.45	937.92	914.47	23.45	39.999	
5,300.00	5,237.82	5,235.62	5,235.35	14.00	11.04	173.94	29.00	-192.28	954.25	930.30	23.94	39.854	
5,400.00	5,336.52	5,334.27	5,334.00	14.30	11.28	173.99	28.40	-193.10	970.57	946.13	24.44	39.709	
5,500.00	5,435.22	5,432.93	5,432.65	14.60	11.51	174.03	27.80	-193.92	986.90	961.96	24.94	39.564	
5,600.00	5,533.93	5,531.58	5,531.30	14.90	11.74	174.07	27.20	-194.74	1,003.23	977.78	25.45	39.419	
5,700.00	5,632.63	5,630.24	5,629.95	15.20	11.98	174.11	26.61	-195.56	1,019.56	993.60	25.96	39.275	
5,800.00	5,731.33	5,728.89	5,728.60	15.50	12.22	174.14	26.01	-196.39	1,035.89	1,009.42	26.47	39.133	
5,900.00	5,830.03	5,827.55	5,827.25	15.81	12.46	174.18	25.41	-197.21	1,052.23	1,025.24	26.99	38.991	
6,000.00	5,928.74	5,926.20	5,925.90	16.11	12.70	174.22	24.82	-198.03	1,068.56	1,041.05	27.50	38.851	
6,100.00	6,027.44	6,024.86	6,024.55	16.42	12.94	174.25	24.22	-198.85	1,084.89	1,056.87	28.02	38.712	
6,200.00	6,126.14	7,703.87	7,038.84	16.73	20.78	-137.58	1.51	727.83	1,085.07	1,054.37	30.70	35.342	
6,300.00	6,224.84	7,708.68	7,038.83	17.04	20.84	-136.55	1.29	740.38	1,009.43	977.82	31.61	31.936	
6,400.00	6,323.55	7,721.23	7,038.82	17.35	20.99	-135.51	1.07	752.92	938.19	905.50	32.69	28.698	
6,500.00	6,422.25	7,733.77	7,038.82	17.67	21.14	-134.47	0.84	765.47	872.43	838.52	33.90	25.732	
6,600.00	6,521.26	7,742.91	7,038.81	17.91	21.24	-168.34	0.68	774.61	813.35	778.18	35.17	23.126	
6,700.00	6,620.47	7,737.28	7,038.82	18.07	21.18	131.92	0.78	768.98	762.81	726.52	36.29	21.022	
6,800.00	6,717.57	7,716.12	7,038.83	18.18	20.93	116.45	1.16	747.82	723.52	686.40	37.12	19.491	
6,900.00	6,810.17	7,679.94	7,038.85	18.24	20.52	109.82	1.80	711.65	697.03	659.48	37.55	18.562	
7,000.00	6,895.98	7,629.65	7,038.88	18.27	19.96	104.36	2.69	661.36	683.21	645.70	37.52	18.210 SF	
7,082.00	6,959.80	7,578.73	7,038.90	18.27	19.41	99.79	3.59	610.45	680.09	642.91	37.18	18.293	
7,100.00	6,972.90	7,566.47	7,038.91	18.27	19.29	98.76	3.81	598.19	680.22	643.15	37.07	18.348	
7,200.00	7,039.03	7,508.03	7,038.95	18.25	18.69	93.09	5.13	523.70	684.96	648.44	36.51	18.759	
7,300.00	7,092.74	7,407.98	7,039.00	18.23	17.76	87.85	6.61	439.72	693.82	658.26	35.57	19.507	
7,400.00	7,132.71	7,328.55	7,034.69	18.23	17.09	83.58	8.05	360.47	704.19	669.23	34.97	20.140	
7,500.00	7,157.96	7,252.72	7,021.41	18.28	16.52	79.84	9.45	285.88	715.31	680.76	34.55	20.703	
7,600.00	7,167.85	7,179.41	7,000.24	18.46	16.04	76.63	10.82	215.75	726.38	692.05	34.33	21.156	
7,700.00	7,168.14	7,109.89	6,972.83	18.86	15.65	74.43	12.12	151.90	738.85	704.56	34.30	21.543	
7,800.00	7,168.31	7,050.00	6,943.77	19.49	15.36	72.27	13.23	99.58	756.49	722.06	34.43	21.971	
7,900.00	7,168.48	6,991.26	6,910.60	20.27	15.14	69.88	14.30	51.14	780.11	745.46	34.64	22.518	
8,000.00	7,168.64	6,941.93	6,879.40	21.18	14.98	67.69	15.17	12.96	810.23	775.29	34.94	23.187	
8,100.00	7,168.81	6,900.00	6,850.62	22.18	14.88	65.74	15.88	-17.52	847.03	811.75	35.28	24.008	
8,200.00	7,168.98	6,860.45	6,821.69	23.25	14.79	63.84	16.54	-44.46	890.34	854.73	35.61	25.002	
8,300.00	7,169.14	6,826.94	6,795.90	24.40	14.72	62.19	17.08	-65.85	939.82	903.89	35.93	26.157	
8,400.00	7,169.31	6,800.00	6,774.38	25.60	14.67	60.86	17.50	-82.05	994.96	958.73	36.22	27.467	
8,500.00	7,169.48	6,771.27	6,750.69	26.85	14.61	59.43	17.93	-98.30	1,055.16	1,018.69	36.47	28.931	
8,600.00	7,169.64	6,750.00	6,732.70	28.14	14.56	58.37	18.25	-109.64	1,119.87	1,083.18	36.69	30.521	
8,700.00	7,169.81	6,727.36	6,713.14	29.47	14.52	57.25	18.57	-121.03	1,188.52	1,151.65	36.87	32.231	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-56.68	99.09	-150.73	180.38				
100.00	100.00	101.00	101.00	3.28	3.28	-56.68	99.09	-150.73	180.38	172.85	7.53	23.958	
200.00	200.00	201.00	201.00	3.31	3.31	-56.68	99.09	-150.73	180.38	172.81	7.57	23.815	CC, ES, SF
300.00	299.98	302.82	297.16	3.35	3.35	174.37	100.57	-151.24	183.40	175.74	7.66	23.938	
400.00	399.84	403.12	396.83	3.41	3.42	174.99	103.03	-152.09	190.69	182.90	7.79	24.474	
500.00	499.45	503.73	496.19	3.49	3.51	175.63	105.49	-152.93	201.48	193.51	7.97	25.287	
600.00	598.70	604.78	595.10	3.61	3.62	176.27	107.94	-153.78	215.74	207.55	8.19	26.349	
700.00	697.51	706.36	693.49	3.76	3.74	176.87	110.38	-154.62	233.22	224.77	8.45	27.596	
800.00	796.21	808.05	791.77	3.95	3.89	177.41	112.81	-155.45	251.39	242.65	8.74	28.774	
900.00	894.91	909.73	890.05	4.16	4.04	177.88	115.25	-156.29	269.57	260.51	9.05	29.773	
1,000.00	993.61	988.58	988.32	4.40	4.18	178.29	117.68	-157.13	287.77	278.40	9.36	30.740	
1,100.00	1,092.32	1,086.89	1,086.60	4.66	4.35	178.65	120.11	-157.97	305.98	296.25	9.72	31.465	
1,200.00	1,191.02	1,185.20	1,184.88	4.93	4.53	178.97	122.55	-158.80	324.20	314.09	10.11	32.069	
1,300.00	1,289.72	1,283.51	1,283.16	5.21	4.72	179.25	124.98	-159.64	342.42	331.91	10.51	32.571	
1,400.00	1,388.42	1,381.82	1,381.43	5.51	4.92	179.51	127.41	-160.48	360.66	349.73	10.93	32.985	
1,500.00	1,487.13	1,480.13	1,479.71	5.81	5.13	179.74	129.84	-161.32	378.90	367.53	11.37	33.326	
1,600.00	1,585.83	1,578.44	1,577.99	6.13	5.34	179.95	132.28	-162.16	397.15	385.33	11.82	33.605	
1,700.00	1,684.53	1,676.75	1,676.27	6.45	5.56	-179.86	134.71	-162.99	415.40	403.12	12.28	33.832	
1,800.00	1,783.23	1,775.06	1,774.54	6.78	5.78	-179.68	137.14	-163.83	433.66	420.91	12.75	34.016	
1,900.00	1,881.94	1,873.38	1,872.82	6.96	5.92	-179.52	139.58	-164.67	451.92	439.27	12.65	35.734	
2,000.00	1,980.64	1,971.69	1,971.10	6.99	5.96	-179.37	142.01	-165.51	470.18	457.48	12.70	37.011	
2,100.00	2,079.34	2,070.00	2,069.37	7.05	5.98	-179.23	144.44	-166.34	488.45	475.69	12.76	38.287	
2,200.00	2,178.04	2,168.31	2,167.65	7.12	6.02	-179.11	146.88	-167.18	506.72	493.88	12.84	39.471	
2,300.00	2,276.75	2,266.62	2,265.93	7.20	6.06	-178.99	149.31	-168.02	524.99	512.05	12.94	40.557	
2,400.00	2,375.45	2,364.93	2,364.21	7.30	6.12	-178.88	151.74	-168.86	543.26	530.19	13.08	41.544	
2,500.00	2,474.15	2,463.24	2,462.48	7.42	6.19	-178.77	154.18	-169.70	561.54	548.30	13.23	42.431	
2,600.00	2,572.85	2,561.55	2,560.76	7.54	6.27	-178.68	156.61	-170.53	579.82	566.40	13.42	43.221	
2,700.00	2,671.56	2,659.86	2,659.04	7.68	6.36	-178.58	159.04	-171.37	598.09	584.47	13.62	43.916	
2,800.00	2,770.26	2,758.17	2,757.32	7.84	6.46	-178.50	161.48	-172.21	616.37	602.53	13.85	44.520	
2,900.00	2,868.96	2,856.49	2,855.59	8.00	6.57	-178.42	163.91	-173.05	634.65	620.56	14.09	45.038	
3,000.00	2,967.66	2,954.80	2,953.87	8.18	6.69	-178.34	166.34	-173.89	652.94	638.58	14.36	45.476	
3,100.00	3,066.37	3,053.11	3,052.15	8.36	6.82	-178.27	168.78	-174.72	671.22	656.58	14.64	45.840	
3,200.00	3,165.07	3,151.42	3,150.42	8.56	6.95	-178.20	171.21	-175.56	689.50	674.56	14.94	46.136	
3,300.00	3,263.77	3,249.73	3,248.70	8.76	7.10	-178.14	173.64	-176.40	707.79	692.53	15.26	46.371	
3,400.00	3,362.47	3,348.04	3,346.98	8.97	7.25	-178.07	176.08	-177.24	726.07	710.48	15.60	46.551	
3,500.00	3,461.18	3,446.35	3,445.26	9.19	7.41	-178.01	178.51	-178.07	744.36	728.42	15.95	46.681	
3,600.00	3,559.88	3,544.66	3,543.53	9.42	7.57	-177.96	180.94	-178.91	762.65	746.34	16.31	46.767	
3,700.00	3,658.58	3,642.97	3,641.81	9.65	7.74	-177.91	183.38	-179.75	780.94	764.26	16.68	46.814	
3,800.00	3,757.28	3,741.29	3,740.09	9.89	7.92	-177.86	185.81	-180.59	799.23	782.16	17.07	46.828	
3,900.00	3,855.99	3,839.60	3,838.37	10.14	8.10	-177.81	188.24	-181.43	817.51	800.05	17.46	46.812	
4,000.00	3,954.69	3,937.91	3,936.64	10.39	8.29	-177.76	190.68	-182.26	835.80	817.93	17.87	46.770	
4,100.00	4,053.39	4,036.22	4,034.92	10.65	8.48	-177.72	193.11	-183.10	854.09	835.81	18.29	46.705	
4,200.00	4,152.09	4,134.53	4,133.20	10.91	8.68	-177.67	195.54	-183.94	872.39	853.67	18.71	46.622	
4,300.00	4,250.79	4,232.84	4,231.48	11.17	8.87	-177.63	197.98	-184.78	890.68	871.53	19.14	46.523	
4,400.00	4,349.50	4,331.15	4,329.75	11.44	9.08	-177.59	200.41	-185.61	908.97	889.38	19.59	46.410	
4,500.00	4,448.20	4,429.46	4,428.03	11.71	9.28	-177.56	202.84	-186.45	927.26	907.23	20.03	46.286	
4,600.00	4,546.90	4,527.77	4,526.31	11.99	9.49	-177.52	205.28	-187.29	945.55	925.06	20.49	46.152	
4,700.00	4,645.60	4,626.08	4,624.58	12.27	9.71	-177.49	207.71	-188.13	963.84	942.90	20.95	46.010	
4,800.00	4,744.31	4,724.40	4,722.86	12.55	9.92	-177.45	210.14	-188.97	982.14	960.72	21.42	45.862	
4,900.00	4,843.01	4,822.71	4,821.14	12.84	10.14	-177.42	212.58	-189.80	1,000.43	978.54	21.89	45.709	
5,000.00	4,941.71	4,921.02	4,919.42	13.12	10.36	-177.39	215.01	-190.64	1,018.72	996.36	22.36	45.552	
5,100.00	5,040.41	5,019.33	5,017.69	13.41	10.59	-177.36	217.44	-191.48	1,037.02	1,014.17	22.85	45.393	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,117.64	5,115.97	13.71	10.81	-177.33	219.88	-192.32	1,055.31	1,031.98	23.33	45.231		
5,300.00	5,237.82	5,215.95	5,214.25	14.00	11.04	-177.30	222.31	-193.16	1,073.61	1,049.79	23.82	45.068		
5,400.00	5,336.52	5,314.26	5,312.53	14.30	11.27	-177.27	224.74	-193.99	1,091.90	1,067.59	24.32	44.904		
5,500.00	5,435.22	5,412.57	5,410.80	14.60	11.50	-177.25	227.18	-194.83	1,110.20	1,085.38	24.81	44.740		
5,600.00	5,533.93	5,510.88	5,509.08	14.90	11.73	-177.22	229.61	-195.67	1,128.49	1,103.18	25.32	44.577		
5,700.00	5,632.63	5,609.19	5,607.36	15.20	11.97	-177.20	232.04	-196.51	1,146.79	1,120.97	25.82	44.414		
5,800.00	5,731.33	5,707.51	5,705.63	15.50	12.21	-177.17	234.48	-197.34	1,165.08	1,138.75	26.33	44.252		
5,900.00	5,830.03	5,805.82	5,803.91	15.81	12.44	-177.15	236.91	-198.18	1,183.38	1,156.54	26.84	44.092		
6,500.00	6,422.25	7,867.22	7,173.40	17.67	21.68	-134.21	266.23	759.76	1,159.03	1,124.27	34.76	33.342		
6,600.00	6,521.26	7,876.10	7,173.39	17.91	21.78	-168.88	266.19	768.64	1,105.72	1,069.91	35.81	30.873		
6,700.00	6,620.47	7,870.21	7,173.40	18.07	21.71	130.98	266.22	762.75	1,059.05	1,022.37	36.68	28.870		
6,800.00	6,717.57	7,848.80	7,173.44	18.18	21.47	115.87	266.32	741.34	1,020.80	983.50	37.30	27.367		
6,900.00	6,810.17	7,812.38	7,173.50	18.24	21.07	110.28	266.49	704.92	991.94	954.34	37.61	26.377		
7,000.00	6,895.98	7,761.86	7,173.60	18.27	20.53	106.41	266.73	654.40	972.44	934.83	37.61	25.859		
7,100.00	6,972.90	7,701.52	7,173.71	18.27	19.91	102.76	267.04	591.02	961.24	923.90	37.34	25.742		
7,200.00	7,039.03	7,623.80	7,173.85	18.25	19.17	99.13	267.39	516.34	956.53	919.68	36.85	25.958		
7,260.50	7,073.10	7,573.90	7,173.94	18.24	18.72	97.04	267.63	466.44	955.91	919.38	36.53	26.169		
7,300.00	7,092.74	7,539.42	7,174.00	18.23	18.42	95.75	267.79	431.96	956.12	919.82	36.30	26.339		
7,400.00	7,132.71	7,438.63	7,165.99	18.23	17.62	92.34	268.07	331.60	957.35	921.63	35.72	26.801		
7,500.00	7,157.96	7,345.45	7,144.59	18.28	16.97	89.32	267.97	241.00	959.06	923.70	35.36	27.125		
7,600.00	7,167.85	7,258.23	7,112.79	18.46	16.44	86.68	267.57	159.85	961.06	925.85	35.20	27.301		
7,700.00	7,168.14	7,178.33	7,074.18	18.86	16.04	84.35	266.95	89.97	964.26	929.01	35.25	27.356		
7,800.00	7,168.31	7,109.42	7,034.07	19.49	15.74	81.97	266.22	33.98	971.28	935.80	35.48	27.377		
7,900.00	7,168.48	7,050.00	6,994.80	20.27	15.52	79.67	265.46	-10.58	983.37	947.54	35.83	27.444		
8,000.00	7,168.64	7,000.00	6,958.65	21.18	15.35	77.57	264.73	-45.10	1,001.42	965.15	36.27	27.609		
8,100.00	7,168.81	6,958.54	6,926.70	22.18	15.23	75.75	264.06	-71.51	1,025.95	989.20	36.75	27.915		
8,200.00	7,168.98	6,922.44	6,897.53	23.25	15.13	74.10	263.44	-92.76	1,057.13	1,019.90	37.23	28.394		
8,300.00	7,169.14	6,900.00	6,878.82	24.40	15.07	73.06	263.04	-105.13	1,094.90	1,057.19	37.71	29.033		
8,400.00	7,169.31	6,864.73	6,848.55	25.60	14.98	71.39	262.38	-123.21	1,138.78	1,100.68	38.09	29.893		
8,500.00	7,169.48	6,850.00	6,835.62	26.85	14.94	70.69	262.09	-130.26	1,188.56	1,150.08	38.48	30.889		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1											Offset Site Error: 0.00 usft		
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error: 3.28 usft		
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-75.32	39.34	-150.17	155.24				
100.00	100.00	101.00	101.00	3.28	3.28	-75.32	39.34	-150.17	155.24	147.71	7.53	20.619	
200.00	200.00	201.00	201.00	3.31	3.31	-75.32	39.34	-150.17	155.24	147.66	7.57	20.496	
200.05	200.05	201.06	201.06	3.31	3.31	-75.32	39.34	-150.17	155.24	147.66	7.57	20.496	CC, ES
300.00	299.98	301.22	301.20	3.35	3.35	154.98	37.59	-150.54	156.74	149.09	7.65	20.478	
400.00	399.84	401.11	401.02	3.41	3.40	154.40	33.93	-151.32	161.35	153.57	7.77	20.759	
500.00	499.45	500.81	500.65	3.49	3.48	154.34	30.27	-152.10	169.09	161.16	7.94	21.304	
600.00	598.70	600.20	599.97	3.61	3.58	154.73	26.63	-152.87	179.98	171.83	8.15	22.087	
700.00	697.51	700.80	698.90	3.76	3.70	155.50	22.99	-153.65	193.80	185.39	8.41	23.049	
800.00	796.21	801.89	797.74	3.95	3.84	156.30	19.36	-154.42	208.27	199.57	8.70	23.945	
900.00	894.91	902.98	896.58	4.16	3.99	157.00	15.73	-155.19	222.77	213.74	9.02	24.691	
1,000.00	993.61	1,004.07	995.42	4.40	4.16	157.61	12.11	-155.96	237.29	227.92	9.38	25.305	
1,100.00	1,092.32	1,105.16	1,094.26	4.66	4.34	158.15	8.48	-156.73	251.84	242.08	9.76	25.805	
1,200.00	1,191.02	1,206.26	1,193.10	4.93	4.53	158.64	4.85	-157.50	266.41	256.25	10.16	26.209	
1,300.00	1,289.72	1,307.35	1,291.93	5.21	4.73	159.07	1.22	-158.27	281.00	270.41	10.59	26.532	
1,400.00	1,388.42	1,408.44	1,390.77	5.51	4.94	159.46	-2.41	-159.05	295.60	284.57	11.03	26.788	
1,500.00	1,487.13	1,490.47	1,489.61	5.81	5.11	159.81	-6.04	-159.82	310.22	298.76	11.45	27.087	
1,600.00	1,585.83	1,589.38	1,588.45	6.13	5.33	160.13	-9.67	-160.59	324.84	312.92	11.92	27.253	
1,700.00	1,684.53	1,688.29	1,687.29	6.45	5.55	160.43	-13.30	-161.36	339.47	327.07	12.40	27.381	
1,800.00	1,783.23	1,787.20	1,786.13	6.78	5.78	160.70	-16.93	-162.13	354.11	341.23	12.89	27.478	
1,900.00	1,881.94	1,886.11	1,884.97	6.96	5.92	160.95	-20.56	-162.90	368.76	355.98	12.78	28.855	
2,000.00	1,980.64	1,985.02	1,983.81	6.99	5.94	161.17	-24.19	-163.68	383.42	370.59	12.83	29.894	
2,100.00	2,079.34	2,083.93	2,082.65	7.05	5.97	161.39	-27.82	-164.45	398.08	385.19	12.88	30.897	
2,200.00	2,178.04	2,182.84	2,181.49	7.12	6.01	161.58	-31.45	-165.22	412.74	399.77	12.97	31.822	
2,300.00	2,276.75	2,281.75	2,280.33	7.20	6.06	161.77	-35.08	-165.99	427.41	414.33	13.08	32.667	
2,400.00	2,375.45	2,380.66	2,379.17	7.30	6.12	161.94	-38.71	-166.76	442.08	428.86	13.22	33.431	
2,500.00	2,474.15	2,479.56	2,478.01	7.42	6.20	162.10	-42.34	-167.53	456.76	443.37	13.39	34.113	
2,600.00	2,572.85	2,578.47	2,576.85	7.54	6.29	162.25	-45.97	-168.30	471.44	457.86	13.58	34.715	
2,700.00	2,671.56	2,677.38	2,675.69	7.68	6.38	162.39	-49.60	-169.08	486.12	472.33	13.79	35.240	
2,800.00	2,770.26	2,776.29	2,774.53	7.84	6.49	162.52	-53.23	-169.85	500.81	486.78	14.03	35.692	
2,900.00	2,868.96	2,875.20	2,873.37	8.00	6.61	162.65	-56.86	-170.62	515.50	501.21	14.29	36.075	
3,000.00	2,967.66	2,974.11	2,972.21	8.18	6.74	162.77	-60.49	-171.39	530.19	515.62	14.57	36.394	
3,100.00	3,066.37	3,073.02	3,071.05	8.36	6.87	162.88	-64.12	-172.16	544.88	530.02	14.87	36.655	
3,200.00	3,165.07	3,171.93	3,169.89	8.56	7.02	162.99	-67.75	-172.93	559.58	544.40	15.18	36.862	
3,300.00	3,263.77	3,270.84	3,268.73	8.76	7.17	163.09	-71.37	-173.70	574.27	558.76	15.51	37.021	
3,400.00	3,362.47	3,369.75	3,367.57	8.97	7.33	163.18	-75.00	-174.48	588.97	573.11	15.86	37.138	
3,500.00	3,461.18	3,468.66	3,466.41	9.19	7.50	163.27	-78.63	-175.25	603.67	587.45	16.22	37.215	
3,600.00	3,559.88	3,567.57	3,565.25	9.42	7.67	163.36	-82.26	-176.02	618.37	601.78	16.60	37.259	
3,700.00	3,658.58	3,666.48	3,664.09	9.65	7.85	163.44	-85.89	-176.79	633.08	616.09	16.98	37.274	
3,800.00	3,757.28	3,765.38	3,762.93	9.89	8.04	163.52	-89.52	-177.56	647.78	630.40	17.38	37.263	
3,900.00	3,855.99	3,864.29	3,861.76	10.14	8.23	163.60	-93.15	-178.33	662.48	644.69	17.79	37.229	
4,000.00	3,954.69	3,963.20	3,960.60	10.39	8.42	163.67	-96.78	-179.11	677.19	658.97	18.22	37.176	
4,100.00	4,053.39	4,062.11	4,059.44	10.65	8.62	163.74	-100.41	-179.88	691.90	673.25	18.65	37.107	
4,200.00	4,152.09	4,161.02	4,158.28	10.91	8.83	163.81	-104.04	-180.65	706.60	687.52	19.09	37.024	
4,300.00	4,250.79	4,259.93	4,257.12	11.17	9.04	163.87	-107.67	-181.42	721.31	701.78	19.53	36.929	
4,400.00	4,349.50	4,358.84	4,356.96	11.44	9.25	163.93	-111.30	-182.19	736.02	716.04	19.99	36.824	
4,500.00	4,448.20	4,457.75	4,454.80	11.71	9.46	163.99	-114.93	-182.96	750.73	730.28	20.45	36.712	
4,600.00	4,546.90	4,556.66	4,553.64	11.99	9.68	164.04	-118.56	-183.73	765.44	744.53	20.92	36.593	
4,700.00	4,645.60	4,655.57	4,652.48	12.27	9.90	164.10	-122.19	-184.51	780.16	758.76	21.39	36.468	
4,800.00	4,744.31	4,754.48	4,751.32	12.55	10.13	164.15	-125.82	-185.28	794.87	773.00	21.87	36.340	
4,900.00	4,843.01	4,853.39	4,850.16	12.84	10.36	164.20	-129.45	-186.05	809.58	787.22	22.36	36.208	
5,000.00	4,941.71	4,952.30	4,949.00	13.12	10.58	164.25	-133.08	-186.82	824.30	801.45	22.85	36.074	

Hewlett-Packard

Anticollision Report

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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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,040.41	5,051.20	5,047.84	13.41	10.82	164.30	-136.71	-187.59	839.01	815.66	23.35	35.938		
5,200.00	5,139.12	5,150.11	5,146.68	13.71	11.05	164.34	-140.34	-188.36	853.73	829.88	23.85	35.801		
5,300.00	5,237.82	5,249.02	5,245.52	14.00	11.29	164.39	-143.97	-189.13	868.44	844.09	24.35	35.664		
5,400.00	5,336.52	5,347.93	5,344.36	14.30	11.52	164.43	-147.60	-189.91	883.16	858.30	24.86	35.527		
5,500.00	5,435.22	5,446.84	5,443.20	14.60	11.76	164.47	-151.23	-190.68	897.87	872.50	25.37	35.390		
5,600.00	5,533.93	5,545.75	5,542.04	14.90	12.01	164.51	-154.85	-191.45	912.59	886.70	25.89	35.254		
5,700.00	5,632.63	5,644.66	5,640.88	15.20	12.25	164.55	-158.48	-192.22	927.31	900.90	26.40	35.120		
5,800.00	5,731.33	5,743.57	5,739.72	15.50	12.49	164.58	-162.11	-192.99	942.02	915.10	26.93	34.986		
5,900.00	5,830.03	5,842.48	5,838.56	15.81	12.74	164.62	-165.74	-193.76	956.74	929.29	27.45	34.854		
6,000.00	5,928.74	5,941.39	5,937.40	16.11	12.99	164.65	-169.37	-194.54	971.46	943.48	27.98	34.723		
6,100.00	6,027.44	6,040.30	6,036.24	16.42	13.23	164.69	-173.00	-195.31	986.18	957.67	28.51	34.594		
6,200.00	6,126.14	6,139.21	6,135.08	16.73	13.48	164.72	-176.63	-196.08	1,000.90	971.86	29.04	34.467		
6,300.00	6,224.84	6,238.12	6,233.92	17.04	13.73	164.75	-180.26	-196.85	1,015.62	986.04	29.57	34.342		
6,400.00	6,323.55	6,337.02	6,332.76	17.35	13.99	164.78	-183.89	-197.62	1,030.34	1,000.23	30.11	34.219		
6,500.00	6,422.25	6,051.86	7,361.83	17.67	21.69	-142.26	-228.08	757.27	1,016.08	985.05	31.03	32.747		
6,600.00	6,521.26	8,060.89	7,361.82	17.91	21.79	-170.11	-228.14	766.30	929.70	897.91	31.79	29.246		
6,700.00	6,620.47	8,055.14	7,361.82	18.07	21.73	138.36	-228.10	760.55	846.08	813.52	32.55	25.990		
6,800.00	6,717.57	8,033.87	7,361.84	18.18	21.49	129.37	-227.96	739.28	768.00	734.70	33.30	23.060		
6,900.00	6,810.17	8,002.42	7,361.86	18.24	21.13	127.82	-227.72	703.00	698.18	664.14	34.04	20.511		
7,000.00	6,895.98	7,947.19	7,361.88	18.27	20.55	126.57	-227.38	652.60	638.83	604.21	34.62	18.452		
7,100.00	6,972.90	7,883.92	7,361.92	18.27	19.91	124.52	-226.97	589.33	591.34	556.27	35.07	16.861		
7,200.00	7,039.03	7,809.34	7,361.96	18.25	19.20	121.71	-226.47	514.75	555.95	520.63	35.32	15.739		
7,300.00	7,092.74	7,721.73	7,361.95	18.23	18.43	118.37	-225.89	427.15	531.66	496.31	35.35	15.040		
7,400.00	7,132.71	7,588.14	7,346.19	18.23	17.43	112.43	-224.43	294.75	512.27	477.25	35.02	14.628		
7,500.00	7,157.96	7,472.52	7,310.53	18.28	16.74	106.70	-222.39	184.95	495.49	460.50	34.99	14.160		
7,600.00	7,167.85	7,370.11	7,262.83	18.46	16.32	101.15	-220.03	94.48	483.03	447.90	35.14	13.747		
7,700.00	7,168.14	7,281.26	7,210.16	18.86	16.14	94.95	-217.62	23.06	475.78	440.38	35.40	13.439		
7,742.92	7,168.21	7,248.51	7,188.31	19.12	16.08	92.30	-216.66	-1.31	474.91	439.36	35.56	13.357		
7,800.00	7,168.31	7,209.40	7,160.62	19.49	16.00	88.96	-215.46	-28.89	476.64	440.90	35.74	13.337 SF		
7,900.00	7,168.48	7,151.51	7,116.65	20.27	15.89	83.70	-213.59	-66.47	489.02	452.96	36.06	13.561		
8,000.00	7,168.64	7,104.59	7,078.62	21.18	15.80	79.27	-212.01	-93.90	514.46	478.14	36.32	14.165		
8,100.00	7,168.81	7,066.19	7,046.07	22.18	15.72	75.59	-210.68	-114.21	552.70	516.21	36.49	15.146		
8,200.00	7,168.98	7,034.39	7,018.22	23.25	15.65	72.56	-209.55	-129.52	602.30	565.71	36.58	16.463		
8,300.00	7,169.14	7,007.75	6,994.33	24.40	15.60	70.04	-208.59	-141.25	661.34	624.73	36.62	18.062		
8,400.00	7,169.31	6,985.19	6,973.72	25.60	15.55	67.94	-207.78	-150.41	727.95	691.34	36.61	19.886		
8,500.00	7,169.48	6,965.87	6,955.84	26.85	15.51	66.17	-207.07	-157.66	800.52	763.94	36.57	21.888		
8,600.00	7,169.64	6,950.00	6,940.98	28.14	15.47	64.73	-206.49	-163.21	877.75	841.22	36.53	24.029		
8,700.00	7,169.81	6,934.64	6,926.47	29.47	15.44	63.37	-205.92	-168.23	958.65	922.17	36.48	26.278		
8,800.00	7,169.98	6,921.86	6,914.31	30.83	15.41	62.26	-205.45	-172.13	1,042.46	1,006.03	36.43	28.612		
8,900.00	7,170.14	6,900.00	6,893.34	32.23	15.37	60.39	-204.63	-178.24	1,128.73	1,092.32	36.40	31.007		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor
0.00	0.00	1.00	1.00	3.28	3.28	-43.49	159.19	-151.01	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-43.49	159.19	-151.01	219.42	211.89		7.53	29.143
200.00	200.00	201.00	201.00	3.31	3.31	-43.49	159.19	-151.01	219.42	211.85		7.57	28.969 CC, ES, SF
300.00	299.98	295.16	295.14	3.35	3.35	-172.58	160.77	-151.16	222.48	214.82		7.66	29.055
400.00	399.84	388.82	388.69	3.41	3.41	-172.01	165.39	-151.60	231.58	223.80		7.78	29.761
500.00	499.45	486.22	485.82	3.49	3.50	-171.23	172.46	-152.28	246.01	238.05		7.95	30.926
600.00	598.70	584.56	583.90	3.61	3.60	-170.62	179.70	-152.98	263.95	255.77		8.17	32.295
700.00	697.51	682.30	681.36	3.76	3.73	-170.21	186.89	-153.67	285.04	276.60		8.43	33.798
800.00	796.21	779.89	778.69	3.95	3.87	-169.92	194.07	-154.36	306.78	298.07		8.71	35.210
900.00	894.91	877.49	876.02	4.16	4.02	-169.66	201.25	-155.06	328.54	319.51		9.02	36.404
1,000.00	993.61	975.08	973.35	4.40	4.19	-169.44	208.44	-155.75	350.29	340.93		9.37	37.403
1,100.00	1,092.32	1,072.68	1,070.68	4.66	4.37	-169.24	215.62	-156.44	372.06	362.32		9.73	38.232
1,200.00	1,191.02	1,170.27	1,168.01	4.93	4.57	-169.07	222.80	-157.13	393.82	383.70		10.12	38.915
1,300.00	1,289.72	1,267.87	1,265.33	5.21	4.77	-168.91	229.98	-157.82	415.59	405.06		10.53	39.473
1,400.00	1,388.42	1,365.47	1,362.66	5.51	4.98	-168.77	237.17	-158.51	437.36	426.41		10.95	39.928
1,500.00	1,487.13	1,463.06	1,459.99	5.81	5.19	-168.64	244.35	-159.21	459.14	447.74		11.39	40.295
1,600.00	1,585.83	1,560.66	1,557.32	6.13	5.42	-168.53	251.53	-159.90	480.91	469.06		11.85	40.589
1,700.00	1,684.53	1,658.25	1,654.65	6.45	5.64	-168.42	258.71	-160.59	502.69	490.38		12.31	40.822
1,800.00	1,783.23	1,755.85	1,751.98	6.78	5.88	-168.32	265.90	-161.28	524.47	511.68		12.79	41.006
1,900.00	1,881.94	1,853.45	1,849.31	6.96	6.12	-168.23	273.08	-161.97	546.25	533.47		12.78	42.743
2,000.00	1,980.64	1,951.04	1,946.64	6.99	6.36	-168.15	280.26	-162.66	568.03	555.00		13.03	43.582
2,100.00	2,079.34	2,048.64	2,043.96	7.05	6.60	-168.07	287.44	-163.35	589.81	576.51		13.31	44.328
2,200.00	2,178.04	2,146.23	2,141.29	7.12	6.85	-168.00	294.63	-164.05	611.60	598.00		13.60	44.986
2,300.00	2,276.75	2,243.83	2,238.62	7.20	7.10	-167.93	301.81	-164.74	633.38	619.48		13.90	45.562
2,400.00	2,375.45	2,341.42	2,335.95	7.30	7.35	-167.87	308.99	-165.43	655.17	640.94		14.22	46.061
2,500.00	2,474.15	2,439.02	2,433.28	7.42	7.61	-167.82	316.17	-166.12	676.95	662.39		14.56	46.488
2,600.00	2,572.85	2,536.62	2,530.61	7.54	7.87	-167.76	323.36	-166.81	698.74	683.83		14.91	46.850
2,700.00	2,671.56	2,634.21	2,627.94	7.68	8.13	-167.71	330.54	-167.50	720.53	705.25		15.28	47.152
2,800.00	2,770.26	2,731.81	2,725.27	7.84	8.39	-167.66	337.72	-168.20	742.32	726.65		15.66	47.400
2,900.00	2,868.96	2,829.40	2,822.59	8.00	8.65	-167.62	344.90	-168.89	764.10	748.05		16.05	47.599
3,000.00	2,967.66	2,927.00	2,919.92	8.18	8.91	-167.57	352.09	-169.58	785.89	769.44		16.46	47.755
3,100.00	3,066.37	3,024.59	3,017.25	8.36	9.18	-167.53	359.27	-170.27	807.68	790.81		16.87	47.873
3,200.00	3,165.07	3,122.19	3,114.58	8.56	9.44	-167.49	366.45	-170.96	829.47	812.17		17.30	47.957
3,300.00	3,263.77	3,219.79	3,211.91	8.76	9.71	-167.46	373.63	-171.65	851.26	833.53		17.73	48.010
3,400.00	3,362.47	3,317.38	3,309.24	8.97	9.98	-167.42	380.82	-172.34	873.05	854.88		18.17	48.038
3,500.00	3,461.18	3,414.98	3,406.57	9.19	10.25	-167.39	388.00	-173.04	894.84	876.21		18.63	48.043
3,600.00	3,559.88	3,512.57	3,503.89	9.42	10.52	-167.36	395.18	-173.73	916.63	897.55		19.09	48.029
3,700.00	3,658.58	3,610.17	3,601.22	9.65	10.79	-167.33	402.36	-174.42	938.42	918.87		19.55	47.997
3,800.00	3,757.28	3,707.77	3,698.55	9.89	11.06	-167.30	409.55	-175.11	960.21	940.19		20.02	47.951
3,900.00	3,855.99	3,805.36	3,795.88	10.14	11.33	-167.27	416.73	-175.80	982.00	961.50		20.50	47.893
4,000.00	3,954.69	3,902.96	3,893.21	10.39	11.60	-167.25	423.91	-176.49	1,003.80	982.81		20.99	47.824
4,100.00	4,053.39	4,000.55	3,990.54	10.65	11.87	-167.22	431.09	-177.19	1,025.59	1,004.11		21.48	47.746
4,200.00	4,152.09	4,101.85	4,087.87	10.91	12.16	-167.20	438.28	-177.88	1,047.38	1,025.39		21.99	47.639
4,300.00	4,250.79	4,204.26	4,185.20	11.17	12.44	-167.18	445.46	-178.57	1,069.17	1,046.67		22.50	47.521
4,400.00	4,349.50	4,306.66	4,282.52	11.44	12.73	-167.15	452.64	-179.26	1,090.96	1,067.95		23.02	47.398
4,500.00	4,448.20	4,409.06	4,379.85	11.71	13.02	-167.13	459.82	-179.95	1,112.76	1,089.22		23.54	47.273
4,600.00	4,546.90	4,488.53	4,477.18	11.99	13.25	-167.11	467.01	-180.64	1,134.55	1,110.55		24.00	47.270
4,700.00	4,645.60	4,586.13	4,574.51	12.27	13.52	-167.09	474.19	-181.33	1,156.34	1,131.82		24.52	47.165
4,800.00	4,744.31	4,683.72	4,671.84	12.55	13.80	-167.07	481.37	-182.03	1,178.13	1,153.10		25.04	47.057
4,900.00	4,843.01	4,781.32	4,769.17	12.84	14.07	-167.06	488.55	-182.72	1,199.93	1,174.37		25.56	46.948

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-47.34	139.16	-151.01	205.35				
100.00	100.00	101.00	101.00	3.28	3.28	-47.34	139.16	-151.01	205.35	197.82	7.53	27.274	
200.00	200.00	201.00	201.00	3.31	3.31	-47.34	139.16	-151.01	205.35	197.77	7.57	27.111	CC, ES, SF
300.00	299.98	295.75	295.73	3.35	3.35	-176.37	140.75	-151.17	208.36	200.70	7.66	27.210	
400.00	399.84	389.99	389.85	3.41	3.41	-175.62	145.42	-151.66	217.35	209.57	7.78	27.928	
500.00	499.45	487.88	487.49	3.49	3.50	-174.62	152.41	-152.40	231.52	223.56	7.96	29.098	
600.00	598.70	586.24	585.59	3.61	3.61	-173.80	159.49	-153.14	249.21	241.04	8.18	30.484	
700.00	697.51	684.00	683.09	3.76	3.73	-173.16	166.53	-153.88	270.10	261.67	8.44	32.019	
800.00	796.21	781.62	780.45	3.95	3.87	-172.66	173.55	-154.62	291.67	282.95	8.71	33.468	
900.00	894.91	879.23	877.81	4.16	4.02	-172.23	180.58	-155.36	313.25	304.23	9.03	34.703	
1,000.00	993.61	976.85	975.18	4.40	4.19	-171.86	187.60	-156.10	334.85	325.49	9.37	35.748	
1,100.00	1,092.32	1,074.47	1,072.54	4.66	4.37	-171.53	194.63	-156.84	356.46	346.73	9.73	36.625	
1,200.00	1,191.02	1,172.09	1,169.90	4.93	4.57	-171.24	201.66	-157.57	378.08	367.96	10.12	37.357	
1,300.00	1,289.72	1,269.70	1,267.26	5.21	4.77	-170.98	208.68	-158.31	399.71	389.18	10.53	37.965	
1,400.00	1,388.42	1,367.32	1,364.62	5.51	4.98	-170.74	215.71	-159.05	421.35	410.40	10.95	38.468	
1,500.00	1,487.13	1,464.94	1,461.99	5.81	5.19	-170.53	222.73	-159.79	442.99	431.60	11.39	38.882	
1,600.00	1,585.83	1,562.56	1,559.35	6.13	5.42	-170.34	229.76	-160.53	464.64	452.79	11.85	39.221	
1,700.00	1,684.53	1,660.17	1,656.71	6.45	5.64	-170.17	236.78	-161.27	486.29	473.98	12.31	39.498	
1,800.00	1,783.23	1,757.79	1,754.07	6.78	5.88	-170.01	243.81	-162.00	507.94	495.16	12.79	39.723	
1,900.00	1,881.94	1,855.41	1,851.43	6.96	6.05	-169.86	250.84	-162.74	529.60	516.89	12.71	41.662	
2,000.00	1,980.64	1,953.03	1,948.79	6.99	6.11	-169.72	257.86	-163.48	551.27	538.47	12.79	43.093	
2,100.00	2,079.34	2,050.65	2,046.16	7.05	6.14	-169.60	264.89	-164.22	572.93	560.08	12.85	44.596	
2,200.00	2,178.04	2,148.26	2,143.52	7.12	6.17	-169.48	271.91	-164.96	594.60	581.67	12.93	45.992	
2,300.00	2,276.75	2,245.88	2,240.88	7.20	6.22	-169.38	278.94	-165.70	616.27	603.23	13.04	47.274	
2,400.00	2,375.45	2,343.50	2,338.24	7.30	6.28	-169.28	285.96	-166.44	637.94	624.77	13.17	48.442	
2,500.00	2,474.15	2,441.12	2,436.60	7.42	6.35	-169.18	292.99	-167.17	659.61	646.28	13.33	49.494	
2,600.00	2,572.85	2,538.73	2,532.96	7.54	6.44	-169.10	300.02	-167.91	681.29	667.78	13.51	50.432	
2,700.00	2,671.56	2,636.35	2,630.33	7.68	6.53	-169.01	307.04	-168.65	702.96	689.25	13.71	51.259	
2,800.00	2,770.26	2,733.97	2,727.69	7.84	6.63	-168.94	314.07	-169.39	724.64	710.70	13.94	51.981	
2,900.00	2,868.96	2,831.59	2,825.05	8.00	6.75	-168.86	321.09	-170.13	746.32	732.13	14.19	52.602	
3,000.00	2,967.66	2,929.20	2,922.41	8.18	6.87	-168.79	328.12	-170.87	768.00	753.54	14.46	53.130	
3,100.00	3,066.37	3,026.82	3,019.77	8.36	7.00	-168.73	335.14	-171.60	789.68	774.94	14.74	53.571	
3,200.00	3,165.07	3,124.44	3,117.13	8.56	7.14	-168.67	342.17	-172.34	811.36	796.31	15.04	53.932	
3,300.00	3,263.77	3,222.06	3,214.50	8.76	7.28	-168.61	349.20	-173.08	833.04	817.68	15.36	54.222	
3,400.00	3,362.47	3,319.68	3,311.86	8.97	7.44	-168.56	356.22	-173.82	854.72	839.03	15.70	54.446	
3,500.00	3,461.18	3,417.29	3,409.22	9.19	7.60	-168.50	363.25	-174.56	876.41	860.36	16.05	54.612	
3,600.00	3,559.88	3,514.91	3,506.58	9.42	7.77	-168.45	370.27	-175.30	898.09	881.68	16.41	54.726	
3,700.00	3,658.58	3,612.53	3,603.94	9.65	7.94	-168.40	377.30	-176.03	919.78	902.99	16.79	54.795	
3,800.00	3,757.28	3,710.15	3,701.31	9.89	8.12	-168.36	384.32	-176.77	941.46	924.29	17.17	54.823	
3,900.00	3,855.99	3,807.76	3,798.67	10.14	8.30	-168.32	391.35	-177.51	963.15	945.58	17.57	54.816	
4,000.00	3,954.69	3,905.38	3,896.03	10.39	8.49	-168.27	398.37	-178.25	984.84	966.86	17.98	54.777	
4,100.00	4,053.39	4,003.00	3,993.39	10.65	8.68	-168.23	405.40	-178.99	1,006.52	988.13	18.40	54.713	
4,200.00	4,152.09	4,100.62	4,090.75	10.91	8.88	-168.20	412.43	-179.73	1,028.21	1,009.39	18.82	54.625	
4,300.00	4,250.79	4,201.77	4,188.11	11.17	9.09	-168.16	419.45	-180.46	1,049.90	1,030.63	19.26	54.498	
4,400.00	4,349.50	4,304.15	4,285.48	11.44	9.31	-168.13	426.48	-181.20	1,071.59	1,051.87	19.72	54.347	
4,500.00	4,448.20	4,406.53	4,382.84	11.71	9.53	-168.09	433.50	-181.94	1,093.28	1,073.10	20.18	54.182	
4,600.00	4,546.90	4,508.91	4,480.20	11.99	9.75	-168.06	440.53	-182.68	1,114.96	1,094.32	20.65	54.006	
4,700.00	4,645.60	4,588.71	4,577.56	12.27	9.93	-168.03	447.55	-183.42	1,136.65	1,115.59	21.07	53.950	
4,800.00	4,744.31	4,686.32	4,674.92	12.55	10.15	-168.00	454.58	-184.16	1,158.34	1,136.81	21.54	53.784	
4,900.00	4,843.01	4,783.94	4,772.28	12.84	10.37	-167.97	461.61	-184.89	1,180.03	1,158.02	22.01	53.612	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							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	-51.68	119.12	-150.73	192.12					
100.00	100.00	101.00	101.00	3.28	3.28	-51.68	119.12	-150.73	192.12	184.59	7.53	25.517	CC, ES, SF	
200.00	200.00	201.00	201.00	3.31	3.31	-51.68	119.12	-150.73	192.12	184.54	7.57	25.364		
300.00	299.98	296.12	296.10	3.35	3.35	179.35	120.71	-150.99	195.12	187.46	7.66	25.480		
400.00	399.84	406.15	393.73	3.41	3.43	-179.83	124.94	-151.70	203.63	195.84	7.80	26.123		
500.00	499.45	506.95	492.83	3.49	3.52	-179.03	129.46	-152.46	215.84	207.86	7.97	27.069		
600.00	598.70	608.23	591.44	3.61	3.62	-178.33	133.97	-153.21	231.53	223.34	8.20	28.249		
700.00	697.51	689.93	689.50	3.76	3.73	-177.76	138.44	-153.96	250.45	242.01	8.44	29.689		
800.00	796.21	787.97	787.44	3.95	3.86	-177.27	142.91	-154.71	270.04	261.33	8.71	30.990		
900.00	894.91	886.01	885.37	4.16	4.02	-176.85	147.38	-155.46	289.65	280.62	9.02	32.098		
1,000.00	993.61	984.05	983.30	4.40	4.18	-176.49	151.85	-156.20	309.27	299.91	9.36	33.034		
1,100.00	1,092.32	1,082.09	1,081.24	4.66	4.35	-176.17	156.32	-156.95	328.90	319.18	9.73	33.819		
1,200.00	1,191.02	1,180.13	1,179.17	4.93	4.54	-175.88	160.79	-157.70	348.54	338.43	10.11	34.473		
1,300.00	1,289.72	1,278.16	1,277.10	5.21	4.73	-175.63	165.27	-158.45	368.19	357.67	10.51	35.016		
1,400.00	1,388.42	1,376.20	1,375.04	5.51	4.93	-175.40	169.74	-159.20	387.84	376.91	10.94	35.464		
1,500.00	1,487.13	1,474.24	1,472.97	5.81	5.14	-175.19	174.21	-159.95	407.50	396.13	11.37	35.832		
1,600.00	1,585.83	1,572.28	1,570.91	6.13	5.36	-175.00	178.68	-160.69	427.17	415.35	11.82	36.133		
1,700.00	1,684.53	1,670.32	1,668.84	6.45	5.58	-174.83	183.15	-161.44	446.84	434.55	12.28	36.378		
1,800.00	1,783.23	1,768.35	1,766.77	6.78	5.80	-174.67	187.62	-162.19	466.51	453.75	12.75	36.576		
1,900.00	1,881.94	1,866.39	1,864.71	6.96	6.03	-174.53	192.09	-162.94	486.18	473.45	12.74	38.168		
2,000.00	1,980.64	1,964.43	1,962.64	6.99	6.26	-174.40	196.56	-163.69	505.86	492.88	12.99	38.954		
2,100.00	2,079.34	2,062.47	2,060.57	7.05	6.50	-174.27	201.03	-164.43	525.54	512.29	13.25	39.657		
2,200.00	2,178.04	2,160.51	2,158.51	7.12	6.74	-174.16	205.50	-165.18	545.22	531.69	13.54	40.280		
2,300.00	2,276.75	2,258.55	2,256.44	7.20	6.98	-174.05	209.97	-165.93	564.91	551.07	13.84	40.828		
2,400.00	2,375.45	2,356.58	2,354.37	7.30	7.22	-173.95	214.44	-166.68	584.59	570.44	14.15	41.305		
2,500.00	2,474.15	2,454.62	2,452.31	7.42	7.47	-173.86	218.91	-167.43	604.28	589.80	14.49	41.716		
2,600.00	2,572.85	2,552.66	2,550.24	7.54	7.72	-173.77	223.38	-168.17	623.97	609.14	14.83	42.067		
2,700.00	2,671.56	2,650.70	2,648.17	7.68	7.97	-173.69	227.85	-168.92	643.66	628.47	15.19	42.362		
2,800.00	2,770.26	2,748.74	2,746.11	7.84	8.22	-173.62	232.32	-169.67	663.35	647.78	15.57	42.608		
2,900.00	2,868.96	2,846.78	2,844.04	8.00	8.47	-173.54	236.80	-170.42	683.05	667.09	15.96	42.808		
3,000.00	2,967.66	2,944.81	2,941.97	8.18	8.72	-173.48	241.27	-171.17	702.74	686.38	16.35	42.969		
3,100.00	3,066.37	3,042.85	3,039.91	8.36	8.98	-173.41	245.74	-171.91	722.43	705.67	16.76	43.093		
3,200.00	3,165.07	3,140.89	3,137.84	8.56	9.23	-173.35	250.21	-172.66	742.13	724.94	17.18	43.186		
3,300.00	3,263.77	3,238.93	3,235.77	8.76	9.49	-173.29	254.68	-173.41	761.83	744.21	17.61	43.250		
3,400.00	3,362.47	3,336.97	3,333.71	8.97	9.75	-173.24	259.15	-174.16	781.52	763.47	18.05	43.290		
3,500.00	3,461.18	3,435.01	3,431.64	9.19	10.01	-173.18	263.62	-174.91	801.22	782.72	18.50	43.309		
3,600.00	3,559.88	3,533.04	3,529.57	9.42	10.27	-173.14	268.09	-175.66	820.92	801.96	18.95	43.309		
3,700.00	3,658.58	3,631.08	3,627.51	9.65	10.53	-173.09	272.56	-176.40	840.62	821.20	19.42	43.293		
3,800.00	3,757.28	3,729.12	3,725.44	9.89	10.79	-173.04	277.03	-177.15	860.32	840.43	19.89	43.264		
3,900.00	3,855.99	3,827.16	3,823.37	10.14	11.05	-173.00	281.50	-177.90	880.01	859.65	20.36	43.222		
4,000.00	3,954.69	3,925.20	3,921.31	10.39	11.32	-172.96	285.97	-178.65	899.71	878.87	20.84	43.170		
4,100.00	4,053.39	4,023.24	4,019.24	10.65	11.58	-172.92	290.44	-179.40	919.42	898.09	21.33	43.110		
4,200.00	4,152.09	4,121.27	4,117.18	10.91	11.84	-172.88	294.91	-180.14	939.12	917.30	21.82	43.043		
4,300.00	4,250.79	4,219.31	4,215.11	11.17	12.11	-172.84	299.38	-180.89	958.82	936.50	22.31	42.969		
4,400.00	4,349.50	4,317.35	4,313.04	11.44	12.37	-172.81	303.85	-181.64	978.52	955.71	22.81	42.891		
4,500.00	4,448.20	4,415.39	4,410.98	11.71	12.64	-172.78	308.33	-182.39	998.22	974.90	23.32	42.809		
4,600.00	4,546.90	4,513.43	4,508.91	11.99	12.90	-172.74	312.80	-183.14	1,017.92	994.10	23.83	42.723		
4,700.00	4,645.60	4,611.47	4,606.84	12.27	13.17	-172.71	317.27	-183.88	1,037.63	1,013.29	24.34	42.635		
4,800.00	4,744.31	4,709.50	4,704.78	12.55	13.44	-172.68	321.74	-184.63	1,057.33	1,032.48	24.85	42.544		
4,900.00	4,843.01	4,807.54	4,802.71	12.84	13.70	-172.65	326.21	-185.38	1,077.03	1,051.66	25.37	42.452		
5,000.00	4,941.71	4,905.58	4,900.64	13.12	13.97	-172.63	330.68	-186.13	1,096.74	1,070.84	25.89	42.359		
5,100.00	5,040.41	5,003.62	4,998.58	13.41	14.24	-172.60	335.15	-186.88	1,116.44	1,090.03	26.41	42.266		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7664-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,139.12	5,101.66	5,096.51	13.71	14.51	-172.57	339.62	-187.62	1,136.14	1,109.20	26.94	42.172	
5,300.00	5,237.82	5,200.30	5,194.44	14.00	14.77	-172.55	344.09	-188.37	1,155.85	1,128.38	27.47	42.076	
5,400.00	5,336.52	5,302.27	5,292.38	14.30	15.05	-172.52	348.56	-189.12	1,175.55	1,147.54	28.01	41.966	
5,500.00	5,435.22	5,404.23	5,390.31	14.60	15.33	-172.50	353.03	-189.87	1,195.26	1,166.70	28.56	41.857	
6,900.00	6,810.17	7,879.97	7,243.54	18.24	27.21	110.21	435.98	702.68	1,175.30	1,132.51	42.79	27.464	
7,000.00	6,895.98	7,829.43	7,243.63	18.27	27.07	106.83	436.08	652.14	1,154.86	1,111.52	43.33	26.650	
7,100.00	6,972.90	7,766.03	7,243.74	18.27	26.92	103.81	436.20	588.74	1,141.74	1,098.05	43.70	26.129	
7,200.00	7,039.03	7,708.66	7,243.87	18.25	26.81	100.88	436.34	514.04	1,134.53	1,090.56	43.97	25.802	
7,300.00	7,092.74	7,603.15	7,243.90	18.23	25.60	98.07	436.50	425.86	1,131.45	1,088.20	43.25	26.163	
7,400.00	7,132.71	7,483.47	7,230.52	18.23	23.65	94.77	436.11	307.10	1,129.36	1,087.72	41.63	27.126	
7,500.00	7,157.96	7,377.01	7,200.15	18.28	22.22	91.91	434.91	205.20	1,127.15	1,086.58	40.58	27.778	
7,600.00	7,167.85	7,280.57	7,158.35	18.46	21.20	89.44	433.16	118.42	1,125.06	1,085.06	39.99	28.130	
7,690.36	7,168.97	7,203.22	7,115.66	18.81	20.58	87.23	431.33	54.00	1,124.09	1,084.27	39.82	28.230	
7,700.00	7,168.14	7,195.14	7,110.76	18.86	20.52	87.02	431.11	47.58	1,123.98	1,084.17	39.81	28.234	
7,800.00	7,168.31	7,124.36	7,064.43	19.49	20.10	84.66	429.10	-5.85	1,126.29	1,086.34	39.96	28.188	
7,900.00	7,168.48	7,066.14	7,022.08	20.27	19.81	82.50	427.24	-45.72	1,133.35	1,093.05	40.30	28.121	
8,000.00	7,168.64	7,018.17	6,984.56	21.18	19.62	80.60	425.58	-75.56	1,146.10	1,105.32	40.77	28.109	
8,100.00	7,168.81	6,978.37	6,951.81	22.18	19.48	78.96	424.12	-98.10	1,165.07	1,123.77	41.31	28.205	
8,200.00	7,168.98	6,950.00	6,927.63	23.25	19.42	77.75	423.05	-112.90	1,190.53	1,148.64	41.88	28.424	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.34	140.25	-0.84	140.25				
100.00	100.00	100.00	100.00	3.28	3.28	-0.34	140.25	-0.84	140.25	132.72	7.53	18.629	
200.00	200.00	200.00	200.00	3.31	3.31	-0.34	140.25	-0.84	140.25	132.68	7.57	18.518	CC, ES
300.00	299.98	298.40	298.38	3.35	3.35	-129.50	140.81	0.76	141.92	134.27	7.66	18.535	
400.00	399.84	396.64	396.48	3.41	3.41	-129.11	142.48	5.53	146.94	139.16	7.78	18.883	
500.00	499.45	494.54	494.02	3.49	3.50	-128.50	145.26	13.44	155.30	147.35	7.96	19.520	
600.00	598.70	607.66	591.13	3.61	3.64	-127.77	149.11	24.41	166.97	158.76	8.21	20.346	
700.00	697.51	708.65	689.30	3.76	3.78	-127.64	153.37	36.52	180.99	172.49	8.50	21.286	
800.00	796.21	809.70	787.42	3.95	3.96	-127.81	157.62	48.63	195.42	186.57	8.84	22.100	
900.00	894.91	889.26	885.53	4.16	4.11	-127.96	161.87	60.73	209.84	200.66	9.18	22.853	
1,000.00	993.61	988.21	983.65	4.40	4.31	-128.08	166.12	72.84	224.27	214.68	9.59	23.377	
1,100.00	1,092.32	1,087.16	1,081.77	4.66	4.53	-128.19	170.37	84.94	238.70	228.67	10.04	23.782	
1,200.00	1,191.02	1,186.11	1,179.89	4.93	4.77	-128.29	174.62	97.05	253.13	242.63	10.51	24.090	
1,300.00	1,289.72	1,285.07	1,278.00	5.21	5.01	-128.38	178.88	109.15	267.56	256.56	11.00	24.319	
1,400.00	1,388.42	1,384.02	1,376.12	5.51	5.26	-128.46	183.13	121.26	282.00	270.48	11.52	24.485	
1,500.00	1,487.13	1,482.97	1,474.24	5.81	5.53	-128.53	187.38	133.37	296.43	284.38	12.05	24.601	
1,600.00	1,585.83	1,581.92	1,572.35	6.13	5.80	-128.59	191.63	145.47	310.86	298.27	12.60	24.679	
1,700.00	1,684.53	1,680.88	1,670.47	6.45	6.07	-128.65	195.88	157.58	325.30	312.14	13.16	24.725	
1,800.00	1,783.23	1,779.83	1,768.59	6.78	6.35	-128.70	200.13	169.68	339.73	326.00	13.73	24.747	
1,900.00	1,881.94	1,878.78	1,866.71	6.96	6.64	-128.75	204.38	181.79	354.16	340.37	13.79	25.678	
2,000.00	1,980.64	1,977.73	1,964.82	6.99	6.93	-128.80	208.63	193.89	368.60	354.49	14.11	26.122	
2,100.00	2,079.34	2,076.69	2,062.94	7.05	7.23	-128.84	212.88	206.00	383.03	368.58	14.45	26.512	
2,200.00	2,178.04	2,175.64	2,161.06	7.12	7.52	-128.88	217.14	218.10	397.46	382.66	14.80	26.851	
2,300.00	2,276.75	2,274.59	2,259.17	7.20	7.82	-128.92	221.39	230.21	411.90	396.72	15.18	27.142	
2,400.00	2,375.45	2,373.54	2,357.29	7.30	8.13	-128.95	225.64	242.32	426.33	410.77	15.57	27.390	
2,500.00	2,474.15	2,472.50	2,455.41	7.42	8.43	-128.98	229.89	254.42	440.77	424.80	15.97	27.599	
2,600.00	2,572.85	2,571.45	2,553.52	7.54	8.74	-129.01	234.14	266.53	455.20	438.81	16.39	27.772	
2,700.00	2,671.56	2,670.40	2,651.64	7.68	9.05	-129.04	238.39	278.63	469.64	452.81	16.83	27.913	
2,800.00	2,770.26	2,769.35	2,749.76	7.84	9.36	-129.07	242.64	290.74	484.07	466.80	17.27	28.024	
2,900.00	2,868.96	2,868.31	2,847.88	8.00	9.67	-129.09	246.89	302.84	498.51	480.78	17.73	28.111	
3,000.00	2,967.66	2,967.26	2,945.99	8.18	9.98	-129.11	251.14	314.95	512.95	494.74	18.21	28.174	
3,100.00	3,066.37	3,066.21	3,044.11	8.36	10.30	-129.13	255.40	327.05	527.38	508.69	18.69	28.218	
3,200.00	3,165.07	3,165.16	3,142.23	8.56	10.61	-129.16	259.65	339.16	541.82	522.63	19.18	28.244	
3,300.00	3,263.77	3,264.11	3,240.34	8.76	10.93	-129.18	263.90	351.26	556.25	536.57	19.69	28.256	
3,400.00	3,362.47	3,363.07	3,338.46	8.97	11.25	-129.19	268.15	363.37	570.69	550.49	20.20	28.254	
3,500.00	3,461.18	3,462.02	3,436.58	9.19	11.57	-129.21	272.40	375.48	585.12	564.40	20.72	28.241	
3,600.00	3,559.88	3,560.97	3,534.70	9.42	11.89	-129.23	276.65	387.58	599.56	578.31	21.25	28.218	
3,700.00	3,658.58	3,659.92	3,632.81	9.65	12.21	-129.24	280.90	399.69	613.99	592.21	21.78	28.187	
3,800.00	3,757.28	3,758.88	3,730.93	9.89	12.53	-129.26	285.15	411.79	628.43	606.11	22.32	28.149	
3,900.00	3,855.99	3,857.83	3,829.05	10.14	12.85	-129.27	289.41	423.90	642.87	619.99	22.87	28.105	
4,000.00	3,954.69	3,956.78	3,927.16	10.39	13.17	-129.29	293.66	436.00	657.30	633.87	23.43	28.057	
4,100.00	4,053.39	4,055.73	4,025.28	10.65	13.50	-129.30	297.91	448.11	671.74	647.75	23.99	28.004	
4,200.00	4,152.09	4,154.69	4,123.40	10.91	13.82	-129.32	302.16	460.21	686.17	661.62	24.55	27.948	
4,300.00	4,250.79	4,253.64	4,221.52	11.17	14.14	-129.33	306.41	472.32	700.61	675.49	25.12	27.890	
4,400.00	4,349.50	4,352.59	4,319.63	11.44	14.47	-129.34	310.66	484.43	715.05	689.35	25.69	27.829	
4,500.00	4,448.20	4,451.54	4,417.75	11.71	14.79	-129.35	314.91	496.53	729.48	703.21	26.27	27.767	
4,600.00	4,546.90	4,550.50	4,515.87	11.99	15.12	-129.36	319.16	508.64	743.92	717.07	26.85	27.703	
4,700.00	4,645.60	4,649.45	4,613.98	12.27	15.44	-129.37	323.41	520.74	758.35	730.92	27.44	27.639	
4,800.00	4,744.31	4,748.40	4,712.10	12.55	15.77	-129.38	327.67	532.85	772.79	744.76	28.03	27.574	
4,900.00	4,843.01	4,847.35	4,810.22	12.84	16.09	-129.39	331.92	544.95	787.23	758.61	28.62	27.509	
5,000.00	4,941.71	4,946.31	4,908.33	13.12	16.42	-129.40	336.17	557.06	801.66	772.45	29.21	27.443	
5,100.00	5,040.41	5,045.26	5,006.45	13.41	16.75	-129.41	340.42	569.16	816.10	786.29	29.81	27.378	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						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	5,139.12	5,144.21	5,104.57	13.71	17.07	-129.42	344.67	581.27	830.54	800.13	30.41	27.313		
5,300.00	5,237.82	5,243.16	5,202.69	14.00	17.40	-129.43	348.92	593.37	844.97	813.96	31.01	27.249		
5,400.00	5,336.52	5,342.12	5,300.80	14.30	17.73	-129.44	353.17	605.48	859.41	827.79	31.61	27.185		
5,500.00	5,435.22	5,441.07	5,398.92	14.60	18.05	-129.44	357.42	617.59	873.84	841.63	32.22	27.122		
5,600.00	5,533.93	5,540.02	5,497.04	14.90	18.38	-129.45	361.67	629.69	888.28	855.45	32.83	27.059		
5,700.00	5,632.63	5,638.97	5,595.15	15.20	18.71	-129.46	365.93	641.80	902.72	869.28	33.44	26.997		
5,800.00	5,731.33	5,737.92	5,693.27	15.50	19.04	-129.47	370.18	653.90	917.15	883.10	34.05	26.936		
5,900.00	5,830.03	5,836.88	5,791.39	15.81	19.37	-129.47	374.43	666.01	931.59	896.93	34.66	26.876		
6,000.00	5,928.74	5,935.83	5,889.51	16.11	19.69	-129.48	378.68	678.11	946.03	910.75	35.28	26.817		
6,100.00	6,027.44	6,034.78	5,987.62	16.42	20.02	-129.49	382.93	690.22	960.46	924.57	35.89	26.758		
6,200.00	6,126.14	6,133.73	6,085.74	16.73	20.35	-129.49	387.18	702.32	974.90	938.39	36.51	26.701		
6,300.00	6,224.84	6,232.69	6,183.86	17.04	20.68	-129.50	391.43	714.43	989.34	952.20	37.13	26.644		
6,400.00	6,323.55	6,331.64	6,281.97	17.35	21.01	-129.50	395.68	726.54	1,003.77	966.02	37.75	26.589		
6,500.00	6,422.25	6,430.59	6,380.09	17.67	21.34	-129.51	399.94	738.64	1,018.21	979.84	38.37	26.534		
6,600.00	6,521.26	6,529.43	6,478.10	17.91	21.67	-169.03	404.18	750.73	1,032.63	993.68	38.95	26.512		
6,700.00	6,620.47	6,626.67	6,574.51	18.07	21.99	126.09	408.36	762.63	1,047.01	1,007.56	39.45	26.542		
6,800.00	6,717.57	6,721.08	6,668.17	18.18	22.29	108.86	412.42	773.83	1,061.76	1,021.89	39.87	26.630		
6,900.00	6,810.17	6,821.35	6,768.24	18.24	22.49	103.19	416.78	774.92	1,077.11	1,036.96	40.15	26.826		
7,000.00	6,895.98	6,928.84	6,874.24	18.27	22.64	100.78	421.45	758.62	1,092.66	1,052.31	40.35	27.081		
7,100.00	6,972.90	7,044.97	6,983.92	18.27	22.78	99.73	426.33	721.27	1,107.85	1,067.34	40.51	27.349		
7,200.00	7,039.03	7,171.10	7,093.21	18.25	22.96	99.37	431.26	658.89	1,122.02	1,081.31	40.70	27.566		
7,300.00	7,092.74	7,308.13	7,195.47	18.23	23.29	99.38	435.96	568.20	1,134.35	1,093.26	41.09	27.606		
7,400.00	7,132.71	7,455.81	7,281.26	18.23	24.02	99.54	440.01	448.47	1,144.00	1,102.05	41.95	27.269		
7,500.00	7,157.96	7,612.14	7,339.53	18.28	25.41	99.67	442.92	303.86	1,150.15	1,106.56	43.59	26.385		
7,600.00	7,167.85	7,773.08	7,360.99	18.46	27.49	99.65	444.26	144.79	1,152.22	1,106.16	46.06	25.014		
7,700.00	7,168.14	7,874.22	7,361.31	18.86	27.75	99.65	444.54	43.65	1,152.18	1,105.29	46.88	24.576		
7,800.00	7,168.31	7,974.22	7,361.61	19.49	27.87	99.66	444.81	-56.35	1,152.14	1,104.44	47.70	24.154		
7,900.00	7,168.48	8,074.22	7,361.92	20.27	28.10	99.67	445.07	-156.35	1,152.10	1,103.38	48.72	23.646		
8,000.00	7,168.64	8,174.22	7,362.23	21.18	28.42	99.67	445.34	-256.35	1,152.07	1,102.12	49.94	23.068		
8,100.00	7,168.81	8,274.22	7,362.53	22.18	28.83	99.68	445.61	-356.34	1,152.03	1,100.69	51.34	22.440		
8,200.00	7,168.98	8,374.22	7,362.84	23.25	29.34	99.69	445.88	-456.34	1,151.99	1,099.09	52.90	21.777		
8,300.00	7,169.14	8,474.22	7,363.15	24.40	29.93	99.70	446.15	-556.34	1,151.95	1,097.34	54.61	21.094		
8,400.00	7,169.31	8,574.22	7,363.46	25.60	30.60	99.70	446.42	-656.34	1,151.92	1,095.46	56.46	20.403		
8,500.00	7,169.48	8,674.22	7,363.76	26.85	31.34	99.71	446.69	-756.34	1,151.88	1,093.45	58.43	19.714		
8,600.00	7,169.64	8,774.22	7,364.07	28.14	32.16	99.72	446.96	-856.34	1,151.84	1,091.33	60.51	19.035		
8,700.00	7,169.81	8,874.22	7,364.38	29.47	33.04	99.73	447.23	-956.34	1,151.81	1,089.11	62.70	18.371		
8,800.00	7,169.98	8,974.22	7,364.68	30.83	33.98	99.73	447.50	-1,056.34	1,151.77	1,086.80	64.97	17.727		
8,900.00	7,170.14	9,074.22	7,364.99	32.23	34.97	99.74	447.77	-1,156.34	1,151.73	1,084.40	67.33	17.106		
9,000.00	7,170.31	9,174.22	7,365.30	33.64	36.01	99.75	448.04	-1,256.34	1,151.70	1,081.93	69.76	16.509		
9,100.00	7,170.48	9,274.22	7,365.60	35.08	37.10	99.75	448.31	-1,356.34	1,151.66	1,079.40	72.26	15.937		
9,200.00	7,170.64	9,374.22	7,365.91	36.54	38.23	99.76	448.57	-1,456.33	1,151.62	1,076.80	74.82	15.391		
9,300.00	7,170.81	9,474.22	7,366.22	38.02	39.40	99.77	448.84	-1,556.33	1,151.59	1,074.15	77.44	14.871		
9,400.00	7,170.98	9,574.22	7,366.53	39.51	40.61	99.78	449.11	-1,656.33	1,151.55	1,071.44	80.11	14.375		
9,500.00	7,171.14	9,674.22	7,366.83	41.01	41.85	99.78	449.38	-1,756.33	1,151.51	1,068.70	82.82	13.904		
9,600.00	7,171.31	9,774.22	7,367.14	42.53	43.11	99.79	449.65	-1,856.33	1,151.47	1,065.91	85.57	13.457		
9,700.00	7,171.48	9,874.22	7,367.45	44.05	44.41	99.80	449.92	-1,956.33	1,151.44	1,063.08	88.36	13.031		
9,800.00	7,171.64	9,974.22	7,367.75	45.59	45.73	99.81	450.19	-2,056.33	1,151.40	1,060.22	91.18	12.627		
9,900.00	7,171.81	10,074.22	7,368.06	47.14	47.07	99.81	450.46	-2,156.33	1,151.36	1,057.33	94.04	12.244		
10,000.00	7,171.98	10,174.22	7,368.37	48.69	48.43	99.82	450.73	-2,256.33	1,151.33	1,054.41	96.92	11.879		
10,100.00	7,172.14	10,274.22	7,368.68	50.26	49.81	99.83	451.00	-2,356.33	1,151.29	1,051.46	99.83	11.533		
10,200.00	7,172.31	10,374.22	7,368.98	51.83	51.21	99.84	451.27	-2,456.32	1,151.25	1,048.49	102.76	11.203		
10,300.00	7,172.48	10,474.22	7,369.29	53.40	52.62	99.84	451.54	-2,556.32	1,151.22	1,045.50	105.72	10.890		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7781-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						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	7,172.64	10,574.22	7,369.60	54.98	54.05	99.85	451.81	-2,656.32	1,151.18	1,042.49	108.69	10.591		
10,500.00	7,172.81	10,674.22	7,369.90	56.57	55.49	99.86	452.07	-2,756.32	1,151.14	1,039.46	111.68	10.307		
10,600.00	7,172.98	10,774.22	7,370.21	58.16	56.94	99.87	452.34	-2,856.32	1,151.11	1,036.42	114.69	10.037		
10,700.00	7,173.14	10,874.22	7,370.52	59.75	58.41	99.87	452.61	-2,956.32	1,151.07	1,033.35	117.72	9.778		
10,800.00	7,173.31	10,974.22	7,370.82	61.35	59.89	99.88	452.88	-3,056.32	1,151.04	1,030.28	120.76	9.532		
10,900.00	7,173.48	11,074.22	7,371.13	62.96	61.38	99.89	453.15	-3,156.32	1,151.00	1,027.19	123.81	9.296		
11,000.00	7,173.65	11,174.22	7,371.44	64.56	62.87	99.90	453.42	-3,256.32	1,150.96	1,024.09	126.88	9.072		
11,100.00	7,173.81	11,274.22	7,371.75	66.17	64.38	99.90	453.69	-3,356.32	1,150.93	1,020.97	129.95	8.856		
11,200.00	7,173.98	11,374.22	7,372.05	67.79	65.89	99.91	453.96	-3,456.32	1,150.89	1,017.85	133.04	8.651		
11,300.00	7,174.15	11,474.22	7,372.36	69.40	67.41	99.92	454.23	-3,556.31	1,150.85	1,014.71	136.14	8.454		
11,400.00	7,174.31	11,574.22	7,372.67	71.02	68.94	99.93	454.50	-3,656.31	1,150.82	1,011.57	139.25	8.265		
11,500.00	7,174.48	11,674.22	7,372.97	72.64	70.47	99.93	454.77	-3,756.31	1,150.78	1,008.42	142.36	8.083		
11,600.00	7,174.65	11,774.22	7,373.28	74.26	72.01	99.94	455.04	-3,856.31	1,150.74	1,005.26	145.49	7.910		
11,700.00	7,174.81	11,874.22	7,373.59	75.89	73.56	99.95	455.31	-3,956.31	1,150.71	1,002.09	148.62	7.743		
11,800.00	7,174.98	11,974.22	7,373.90	77.51	75.11	99.95	455.57	-4,056.31	1,150.67	998.91	151.76	7.582		
11,900.00	7,175.15	12,074.22	7,374.20	79.14	76.67	99.96	455.84	-4,156.31	1,150.63	995.73	154.90	7.428		
12,000.00	7,175.31	12,174.22	7,374.51	80.77	78.23	99.97	456.11	-4,256.31	1,150.60	992.54	158.05	7.280		
12,100.00	7,175.48	12,274.22	7,374.82	82.40	79.79	99.98	456.38	-4,356.31	1,150.56	989.35	161.21	7.137		
12,200.00	7,175.65	12,374.22	7,375.12	84.04	81.36	99.98	456.65	-4,456.31	1,150.53	986.15	164.38	6.999		
12,300.00	7,175.81	12,474.22	7,375.43	85.67	82.94	99.99	456.92	-4,556.30	1,150.49	982.95	167.54	6.867		
12,400.00	7,175.98	12,574.22	7,375.74	87.31	84.51	100.00	457.19	-4,656.30	1,150.45	979.74	170.72	6.739		
12,500.00	7,176.15	12,674.22	7,376.04	88.95	86.10	100.01	457.46	-4,756.30	1,150.42	976.52	173.90	6.616		
12,600.00	7,176.31	12,774.22	7,376.35	90.59	87.68	100.01	457.73	-4,856.30	1,150.38	973.30	177.08	6.496		
12,700.00	7,176.48	12,874.22	7,376.66	92.23	89.27	100.02	458.00	-4,956.30	1,150.35	970.08	180.27	6.381		
12,800.00	7,176.65	12,974.22	7,376.97	93.87	90.86	100.03	458.27	-5,056.30	1,150.31	966.85	183.46	6.270		
12,900.00	7,176.81	13,074.22	7,377.27	95.51	92.45	100.04	458.54	-5,156.30	1,150.27	963.62	186.65	6.163		
13,000.00	7,176.98	13,174.22	7,377.58	97.15	94.05	100.04	458.81	-5,256.30	1,150.24	960.39	189.85	6.059		
13,100.00	7,177.15	13,274.22	7,377.89	98.80	95.65	100.05	459.07	-5,356.30	1,150.20	957.15	193.05	5.958		
13,200.00	7,177.31	13,374.22	7,378.19	100.44	97.25	100.06	459.34	-5,456.30	1,150.16	953.91	196.25	5.861		
13,300.00	7,177.48	13,474.22	7,378.50	102.09	98.85	100.07	459.61	-5,556.30	1,150.13	950.67	199.46	5.766		
13,400.00	7,177.65	13,574.22	7,378.81	103.74	100.46	100.07	459.88	-5,656.29	1,150.09	947.42	202.67	5.675		
13,500.00	7,177.81	13,674.22	7,379.12	105.38	102.07	100.08	460.15	-5,756.29	1,150.06	944.17	205.89	5.586		
13,600.00	7,177.98	13,774.22	7,379.42	107.03	103.68	100.09	460.42	-5,856.29	1,150.02	940.92	209.10	5.500		
13,700.00	7,178.15	13,874.22	7,379.73	108.68	105.29	100.10	460.69	-5,956.29	1,149.98	937.66	212.32	5.416		
13,800.00	7,178.31	13,974.22	7,380.04	110.33	106.90	100.10	460.96	-6,056.29	1,149.95	934.41	215.54	5.335		
13,900.00	7,178.48	14,074.22	7,380.34	111.98	108.52	100.11	461.23	-6,156.29	1,149.91	931.15	218.76	5.256		
14,000.00	7,178.65	14,174.22	7,380.65	113.63	110.14	100.12	461.50	-6,256.29	1,149.88	927.89	221.99	5.180		
14,100.00	7,178.81	14,274.22	7,380.96	115.29	111.76	100.13	461.77	-6,356.29	1,149.84	924.63	225.22	5.106		
14,200.00	7,178.98	14,374.22	7,381.26	116.94	113.38	100.13	462.04	-6,456.29	1,149.81	921.36	228.44	5.033		
14,300.00	7,179.15	14,474.22	7,381.57	118.59	115.00	100.14	462.31	-6,556.29	1,149.77	918.09	231.68	4.963		
14,400.00	7,179.31	14,574.22	7,381.88	120.24	116.62	100.15	462.57	-6,656.28	1,149.73	914.83	234.91	4.894		
14,500.00	7,179.48	14,674.22	7,382.19	121.90	118.25	100.15	462.84	-6,756.28	1,149.70	911.56	238.14	4.828		
14,600.00	7,179.65	14,774.22	7,382.49	123.55	119.87	100.16	463.11	-6,856.28	1,149.66	908.28	241.38	4.763		
14,700.00	7,179.82	14,874.22	7,382.80	125.21	121.50	100.17	463.38	-6,956.28	1,149.63	905.01	244.62	4.700		
14,800.00	7,179.98	14,974.22	7,383.11	126.86	123.13	100.18	463.65	-7,056.28	1,149.59	901.74	247.85	4.638		
14,900.00	7,180.15	15,074.22	7,383.41	128.52	124.76	100.18	463.92	-7,156.28	1,149.55	898.46	251.10	4.578		
15,000.00	7,180.32	15,174.22	7,383.72	130.17	126.39	100.19	464.19	-7,256.28	1,149.52	895.18	254.34	4.520		
15,100.00	7,180.48	15,274.22	7,384.03	131.83	128.02	100.20	464.46	-7,356.28	1,149.48	891.90	257.58	4.463		
15,200.00	7,180.65	15,374.22	7,384.34	133.49	129.65	100.21	464.73	-7,456.28	1,149.45	888.62	260.82	4.407		
15,300.00	7,180.82	15,474.22	7,384.64	135.15	131.29	100.21	465.00	-7,556.28	1,149.41	885.34	264.07	4.353		
15,400.00	7,180.98	15,574.22	7,384.95	136.80	132.92	100.22	465.27	-7,656.28	1,149.38	882.06	267.32	4.300		
15,410.68	7,181.00	15,584.90	7,384.98	136.98	133.10	100.22	465.30	-7,666.96	1,149.37	881.71	267.66	4.294 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	120.22	-0.84	120.22				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	120.22	-0.84	120.22	112.69	7.53	15.968	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	120.22	-0.84	120.22	112.65	7.57	15.873	CC, ES
300.00	299.98	298.72	298.70	3.35	3.35	-129.53	120.74	0.78	121.86	114.20	7.66	15.914	
400.00	399.84	397.28	397.12	3.41	3.41	-129.06	122.32	5.62	126.76	118.98	7.78	16.290	
500.00	499.45	495.51	494.99	3.49	3.50	-128.35	124.92	13.65	134.95	126.99	7.96	16.959	
600.00	598.70	593.36	592.13	3.61	3.62	-127.48	128.55	24.80	146.39	138.20	8.19	17.880	
700.00	697.51	692.38	690.24	3.76	3.76	-127.16	132.68	37.52	160.30	151.83	8.48	18.906	
800.00	796.21	808.65	788.31	3.95	3.96	-127.19	136.81	50.23	174.62	165.78	8.85	19.741	
900.00	894.91	909.68	886.37	4.16	4.16	-127.21	140.94	62.94	188.94	179.71	9.23	20.467	
1,000.00	993.61	989.29	984.43	4.40	4.33	-127.23	145.07	75.65	203.25	193.65	9.61	21.154	
1,100.00	1,092.32	1,088.26	1,082.50	4.66	4.55	-127.24	149.20	88.36	217.57	207.51	10.06	21.634	
1,200.00	1,191.02	1,187.23	1,180.56	4.93	4.79	-127.26	153.33	101.07	231.89	221.35	10.53	22.014	
1,300.00	1,289.72	1,286.20	1,278.62	5.21	5.04	-127.27	157.46	113.77	246.20	235.17	11.03	22.313	
1,400.00	1,388.42	1,385.17	1,376.69	5.51	5.29	-127.28	161.59	126.48	260.52	248.97	11.55	22.546	
1,500.00	1,487.13	1,484.14	1,474.75	5.81	5.56	-127.29	165.72	139.19	274.84	262.74	12.09	22.726	
1,600.00	1,585.83	1,583.11	1,572.81	6.13	5.84	-127.30	169.85	151.90	289.15	276.51	12.65	22.862	
1,700.00	1,684.53	1,682.08	1,670.88	6.45	6.12	-127.31	173.97	164.61	303.47	290.26	13.21	22.965	
1,800.00	1,783.23	1,781.05	1,768.94	6.78	6.40	-127.32	178.10	177.32	317.79	303.99	13.79	23.039	
1,900.00	1,881.94	1,880.02	1,867.01	6.96	6.59	-127.32	182.23	190.03	332.10	318.35	13.75	24.147	
2,000.00	1,980.64	1,978.99	1,965.07	6.99	6.64	-127.33	186.36	202.74	346.42	332.58	13.84	25.034	
2,100.00	2,079.34	2,077.96	2,063.13	7.05	6.68	-127.33	190.49	215.45	360.74	346.81	13.92	25.908	
2,200.00	2,178.04	2,176.93	2,161.20	7.12	6.74	-127.34	194.62	228.16	375.05	361.02	14.04	26.716	
2,300.00	2,276.75	2,275.90	2,259.26	7.20	6.81	-127.34	198.75	240.87	389.37	375.19	14.18	27.455	
2,400.00	2,375.45	2,374.87	2,357.32	7.30	6.89	-127.35	202.88	253.58	403.69	389.33	14.35	28.126	
2,500.00	2,474.15	2,473.84	2,455.39	7.42	6.99	-127.35	207.01	266.29	418.00	403.45	14.55	28.728	
2,600.00	2,572.85	2,572.81	2,553.45	7.54	7.09	-127.36	211.14	279.00	432.32	417.55	14.77	29.264	
2,700.00	2,671.56	2,671.78	2,651.51	7.68	7.21	-127.36	215.27	291.70	446.64	431.62	15.02	29.735	
2,800.00	2,770.26	2,770.75	2,749.58	7.84	7.34	-127.36	219.40	304.41	460.95	445.66	15.29	30.146	
2,900.00	2,868.96	2,869.72	2,847.64	8.00	7.48	-127.37	223.53	317.12	475.27	459.69	15.58	30.500	
3,000.00	2,967.66	2,968.69	2,945.70	8.18	7.64	-127.37	227.66	329.83	489.59	473.69	15.90	30.801	
3,100.00	3,066.37	3,067.66	3,043.77	8.36	7.80	-127.37	231.79	342.54	503.91	487.68	16.23	31.053	
3,200.00	3,165.07	3,166.63	3,141.83	8.56	7.97	-127.38	235.92	355.25	518.22	501.64	16.58	31.261	
3,300.00	3,263.77	3,265.60	3,239.89	8.76	8.14	-127.38	240.05	367.96	532.54	515.59	16.94	31.429	
3,400.00	3,362.47	3,364.57	3,337.96	8.97	8.33	-127.38	244.18	380.67	546.86	529.53	17.33	31.561	
3,500.00	3,461.18	3,463.54	3,436.02	9.19	8.52	-127.38	248.31	393.38	561.17	543.45	17.72	31.660	
3,600.00	3,559.88	3,562.51	3,534.08	9.42	8.72	-127.39	252.43	406.09	575.49	557.35	18.14	31.732	
3,700.00	3,658.58	3,661.48	3,632.15	9.65	8.93	-127.39	256.56	418.80	589.81	571.25	18.56	31.778	
3,800.00	3,757.28	3,760.45	3,730.21	9.89	9.14	-127.39	260.69	431.51	604.12	585.13	19.00	31.802	
3,900.00	3,855.99	3,859.42	3,828.28	10.14	9.36	-127.39	264.82	444.22	618.44	599.00	19.44	31.806	
4,000.00	3,954.69	3,958.39	3,926.34	10.39	9.58	-127.39	268.95	456.92	632.76	612.85	19.90	31.794	
4,100.00	4,053.39	4,057.36	4,024.40	10.65	9.81	-127.40	273.08	469.63	647.07	626.70	20.37	31.767	
4,200.00	4,152.09	4,156.33	4,122.47	10.91	10.04	-127.40	277.21	482.34	661.39	640.54	20.85	31.728	
4,300.00	4,250.79	4,255.30	4,220.53	11.17	10.27	-127.40	281.34	495.05	675.71	654.38	21.33	31.678	
4,400.00	4,349.50	4,354.27	4,318.59	11.44	10.51	-127.40	285.47	507.76	690.02	668.20	21.82	31.619	
4,500.00	4,448.20	4,453.24	4,416.66	11.71	10.76	-127.40	289.60	520.47	704.34	682.02	22.32	31.553	
4,600.00	4,546.90	4,552.21	4,514.72	11.99	11.00	-127.40	293.73	533.18	718.66	695.83	22.83	31.480	
4,700.00	4,645.60	4,651.18	4,612.78	12.27	11.26	-127.40	297.86	545.89	732.97	709.63	23.34	31.401	
4,800.00	4,744.31	4,750.15	4,710.85	12.55	11.51	-127.41	301.99	558.60	747.29	723.43	23.86	31.318	
4,900.00	4,843.01	4,849.12	4,808.91	12.84	11.76	-127.41	306.12	571.31	761.61	737.22	24.39	31.232	
5,000.00	4,941.71	4,948.09	4,906.97	13.12	12.02	-127.41	310.25	584.02	775.92	751.01	24.92	31.143	
5,100.00	5,040.41	5,047.06	5,005.04	13.41	12.28	-127.41	314.38	596.73	790.24	764.79	25.45	31.051	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,146.03	5,103.10	13.71	12.55	-127.41	318.51	609.44	804.56	778.57	25.99	30.958		
5,300.00	5,237.82	5,245.00	5,201.16	14.00	12.81	-127.41	322.64	622.14	818.87	792.34	26.53	30.864		
5,400.00	5,336.52	5,343.97	5,299.23	14.30	13.08	-127.41	326.77	634.85	833.19	806.11	27.08	30.769		
5,500.00	5,435.22	5,442.94	5,397.29	14.60	13.35	-127.41	330.89	647.56	847.51	819.88	27.63	30.673		
5,600.00	5,533.93	5,541.91	5,495.36	14.90	13.62	-127.41	335.02	660.27	861.82	833.64	28.18	30.578		
5,700.00	5,632.63	5,640.88	5,593.42	15.20	13.89	-127.42	339.15	672.98	876.14	847.40	28.74	30.482		
5,800.00	5,731.33	5,739.85	5,691.48	15.50	14.17	-127.42	343.28	685.69	890.46	861.15	29.30	30.387		
5,900.00	5,830.03	5,838.82	5,789.55	15.81	14.44	-127.42	347.41	698.40	904.77	874.91	29.87	30.293		
6,000.00	5,928.74	5,937.79	5,887.61	16.11	14.72	-127.42	351.54	711.11	919.09	888.66	30.43	30.199		
6,100.00	6,027.44	6,036.76	5,985.67	16.42	15.00	-127.42	355.67	723.82	933.41	902.40	31.00	30.106		
6,200.00	6,126.14	6,135.73	6,083.74	16.73	15.28	-127.42	359.80	736.53	947.72	916.15	31.58	30.014		
6,300.00	6,224.84	6,234.70	6,181.80	17.04	15.56	-127.42	363.93	749.24	962.04	929.89	32.15	29.923		
6,400.00	6,323.55	6,333.67	6,279.86	17.35	15.84	-127.42	368.06	761.95	976.36	943.63	32.73	29.833		
6,500.00	6,422.25	6,434.44	6,380.07	17.67	16.08	-127.65	372.29	771.05	990.61	957.36	33.25	29.790		
6,600.00	6,521.26	6,533.52	6,478.78	17.91	16.22	-168.22	376.48	765.21	1,004.85	971.23	33.62	29.893		
6,700.00	6,620.47	6,630.17	6,573.08	18.07	16.31	125.08	380.51	744.82	1,019.32	985.48	33.83	30.127		
6,800.00	6,717.57	6,724.80	6,661.38	18.18	16.36	105.42	384.30	711.25	1,033.65	999.70	33.95	30.444		
6,900.00	6,810.17	6,817.70	6,742.30	18.24	16.39	97.21	387.81	665.92	1,047.46	1,013.46	34.00	30.807		
7,000.00	6,895.98	6,909.15	6,814.69	18.27	16.41	92.39	390.97	610.25	1,060.35	1,026.33	34.02	31.169		
7,100.00	6,972.90	6,999.41	6,877.60	18.27	16.46	89.10	393.75	545.70	1,071.96	1,037.90	34.06	31.473		
7,200.00	7,039.03	7,088.69	6,930.25	18.25	16.56	86.71	396.11	473.72	1,081.98	1,047.79	34.18	31.651		
7,300.00	7,092.74	7,177.21	6,972.01	18.23	16.73	84.97	398.02	395.77	1,090.13	1,055.68	34.45	31.644		
7,400.00	7,132.71	7,265.15	7,002.42	18.23	16.98	83.75	399.45	313.35	1,096.18	1,061.28	34.90	31.412		
7,500.00	7,157.96	7,352.67	7,021.14	18.28	17.32	83.01	400.40	227.93	1,099.97	1,064.43	35.54	30.948		
7,600.00	7,167.85	7,447.91	7,027.98	18.46	17.79	82.71	400.84	141.55	1,101.40	1,064.98	36.43	30.236		
7,700.00	7,168.14	7,539.39	7,028.41	18.86	18.35	82.71	401.04	41.55	1,101.26	1,063.76	37.51	29.361		
7,800.00	7,168.31	7,639.39	7,028.83	19.49	19.07	82.72	401.23	-58.45	1,101.10	1,062.22	38.88	28.320		
7,900.00	7,168.48	7,739.39	7,029.25	20.27	19.90	82.73	401.43	-158.45	1,100.93	1,060.45	40.48	27.195		
8,000.00	7,168.64	7,839.39	7,029.67	21.18	20.83	82.75	401.62	-258.45	1,100.77	1,058.47	42.29	26.028		
8,100.00	7,168.81	7,939.39	7,030.10	22.18	21.85	82.76	401.82	-358.45	1,100.60	1,056.32	44.28	24.857		
8,200.00	7,168.98	8,039.39	7,030.52	23.25	22.95	82.77	402.01	-458.44	1,100.43	1,054.01	46.42	23.705		
8,300.00	7,169.14	8,139.39	7,030.94	24.40	24.11	82.78	402.21	-558.44	1,100.27	1,051.57	48.70	22.593		
8,400.00	7,169.31	8,239.39	7,031.36	25.60	25.33	82.80	402.40	-658.44	1,100.10	1,049.01	51.09	21.531		
8,500.00	7,169.48	8,339.39	7,031.79	26.85	26.60	82.81	402.60	-758.44	1,099.93	1,046.34	53.59	20.525		
8,600.00	7,169.64	8,439.38	7,032.21	28.14	27.91	82.82	402.80	-858.44	1,099.77	1,043.59	56.17	19.578		
8,700.00	7,169.81	8,539.38	7,032.63	29.47	29.26	82.83	402.99	-958.44	1,099.60	1,040.77	58.83	18.690		
8,800.00	7,169.98	8,639.38	7,033.05	30.83	30.64	82.85	403.19	-1,058.44	1,099.44	1,037.88	61.56	17.860		
8,900.00	7,170.14	8,739.38	7,033.48	32.23	32.04	82.86	403.38	-1,158.43	1,099.27	1,034.93	64.34	17.084		
9,000.00	7,170.31	8,839.38	7,033.90	33.64	33.48	82.87	403.58	-1,258.43	1,099.11	1,031.93	67.18	16.361		
9,100.00	7,170.48	8,939.38	7,034.32	35.08	34.93	82.88	403.77	-1,358.43	1,098.94	1,028.89	70.05	15.687		
9,200.00	7,170.64	9,039.38	7,034.74	36.54	36.40	82.90	403.97	-1,458.43	1,098.77	1,025.80	72.97	15.058		
9,300.00	7,170.81	9,139.38	7,035.17	38.02	37.89	82.91	404.17	-1,558.43	1,098.61	1,022.69	75.92	14.470		
9,400.00	7,170.98	9,239.38	7,035.59	39.51	39.39	82.92	404.36	-1,658.43	1,098.44	1,019.54	78.90	13.921		
9,500.00	7,171.14	9,339.38	7,036.01	41.01	40.91	82.93	404.56	-1,758.43	1,098.28	1,016.36	81.91	13.408		
9,600.00	7,171.31	9,439.38	7,036.43	42.53	42.44	82.94	404.75	-1,858.42	1,098.11	1,013.17	84.95	12.927		
9,700.00	7,171.48	9,539.38	7,036.86	44.05	43.97	82.96	404.95	-1,958.42	1,097.95	1,009.95	88.00	12.477		
9,800.00	7,171.64	9,639.38	7,037.28	45.59	45.52	82.97	405.14	-2,058.42	1,097.78	1,006.71	91.08	12.054		
9,900.00	7,171.81	9,739.38	7,037.70	47.14	47.08	82.98	405.34	-2,158.42	1,097.62	1,003.45	94.17	11.656		
10,000.00	7,171.98	9,839.38	7,038.12	48.69	48.64	82.99	405.54	-2,258.42	1,097.45	1,000.17	97.28	11.282		
10,100.00	7,172.14	9,939.38	7,038.55	50.26	50.21	83.01	405.73	-2,358.42	1,097.29	996.89	100.40	10.929		
10,200.00	7,172.31	10,039.38	7,038.97	51.83	51.79	83.02	405.93	-2,458.41	1,097.12	993.59	103.53	10.597		
10,300.00	7,172.48	10,139.38	7,039.39	53.40	53.37	83.03	406.12	-2,558.41	1,096.96	990.27	106.68	10.282		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30A-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.64	10,239.38	7,039.81	54.98	54.96	83.04	406.32	-2,658.41	1,096.79	986.95	109.84	9.985		
10,500.00	7,172.81	10,339.38	7,040.24	56.57	56.55	83.06	406.51	-2,758.41	1,096.63	983.62	113.01	9.704		
10,600.00	7,172.98	10,439.38	7,040.66	58.16	58.15	83.07	406.71	-2,858.41	1,096.46	980.27	116.19	9.437		
10,700.00	7,173.14	10,539.38	7,041.08	59.75	59.75	83.08	406.91	-2,958.41	1,096.30	976.92	119.38	9.184		
10,800.00	7,173.31	10,639.38	7,041.50	61.35	61.36	83.09	407.10	-3,058.41	1,096.13	973.56	122.57	8.943		
10,900.00	7,173.48	10,739.38	7,041.93	62.96	62.97	83.11	407.30	-3,158.40	1,095.97	970.19	125.77	8.714		
11,000.00	7,173.65	10,839.37	7,042.35	64.56	64.58	83.12	407.49	-3,258.40	1,095.80	966.82	128.98	8.496		
11,100.00	7,173.81	10,939.37	7,042.77	66.17	66.19	83.13	407.69	-3,358.40	1,095.64	963.44	132.19	8.288		
11,200.00	7,173.98	11,039.37	7,043.19	67.79	67.81	83.14	407.88	-3,458.40	1,095.47	960.06	135.42	8.090		
11,300.00	7,174.15	11,139.37	7,043.62	69.40	69.43	83.16	408.08	-3,558.40	1,095.31	956.67	138.64	7.900		
11,400.00	7,174.31	11,239.37	7,044.04	71.02	71.05	83.17	408.28	-3,658.40	1,095.14	953.27	141.87	7.719		
11,500.00	7,174.48	11,339.37	7,044.46	72.64	72.68	83.18	408.47	-3,758.40	1,094.98	949.87	145.11	7.546		
11,600.00	7,174.65	11,439.37	7,044.88	74.26	74.31	83.19	408.67	-3,858.39	1,094.81	946.46	148.35	7.380		
11,700.00	7,174.81	11,539.37	7,045.31	75.89	75.94	83.21	408.86	-3,958.39	1,094.65	943.06	151.59	7.221		
11,800.00	7,174.98	11,639.37	7,045.73	77.51	77.57	83.22	409.06	-4,058.39	1,094.48	939.64	154.84	7.068		
11,900.00	7,175.15	11,739.37	7,046.15	79.14	79.20	83.23	409.25	-4,158.39	1,094.32	936.23	158.09	6.922		
12,000.00	7,175.31	11,839.37	7,046.57	80.77	80.83	83.24	409.45	-4,258.39	1,094.16	932.81	161.35	6.781		
12,100.00	7,175.48	11,939.37	7,047.00	82.40	82.47	83.26	409.65	-4,358.39	1,093.99	929.38	164.61	6.646		
12,200.00	7,175.65	12,039.37	7,047.42	84.04	84.10	83.27	409.84	-4,458.38	1,093.83	925.96	167.87	6.516		
12,300.00	7,175.81	12,139.37	7,047.84	85.67	85.74	83.28	410.04	-4,558.38	1,093.66	922.53	171.13	6.391		
12,400.00	7,175.98	12,239.37	7,048.26	87.31	87.38	83.29	410.23	-4,658.38	1,093.50	919.10	174.40	6.270		
12,500.00	7,176.15	12,339.37	7,048.69	88.95	89.02	83.31	410.43	-4,758.38	1,093.34	915.67	177.67	6.154		
12,600.00	7,176.31	12,439.37	7,049.11	90.59	90.67	83.32	410.62	-4,858.38	1,093.17	912.23	180.94	6.042		
12,700.00	7,176.48	12,539.37	7,049.53	92.23	92.31	83.33	410.82	-4,958.38	1,093.01	908.79	184.22	5.933		
12,800.00	7,176.65	12,639.37	7,049.95	93.87	93.95	83.34	411.02	-5,058.38	1,092.84	905.35	187.49	5.829		
12,900.00	7,176.81	12,739.37	7,050.38	95.51	95.60	83.36	411.21	-5,158.37	1,092.68	901.91	190.77	5.728		
13,000.00	7,176.98	12,839.37	7,050.80	97.15	97.24	83.37	411.41	-5,258.37	1,092.52	898.46	194.05	5.630		
13,100.00	7,177.15	12,939.37	7,051.22	98.80	98.89	83.38	411.60	-5,358.37	1,092.35	895.02	197.34	5.535		
13,200.00	7,177.31	13,039.37	7,051.64	100.44	100.54	83.39	411.80	-5,458.37	1,092.19	891.57	200.62	5.444		
13,300.00	7,177.48	13,139.37	7,052.07	102.09	102.19	83.41	411.99	-5,558.37	1,092.03	888.12	203.91	5.355		
13,400.00	7,177.65	13,239.36	7,052.49	103.74	103.84	83.42	412.19	-5,658.37	1,091.86	884.67	207.20	5.270		
13,500.00	7,177.81	13,339.36	7,052.91	105.38	105.49	83.43	412.39	-5,758.37	1,091.70	881.21	210.49	5.187		
13,600.00	7,177.98	13,439.36	7,053.33	107.03	107.14	83.44	412.58	-5,858.36	1,091.54	877.76	213.78	5.106		
13,700.00	7,178.15	13,539.36	7,053.76	108.68	108.79	83.46	412.78	-5,958.36	1,091.37	874.30	217.07	5.028		
13,800.00	7,178.31	13,639.36	7,054.18	110.33	110.44	83.47	412.97	-6,058.36	1,091.21	870.85	220.36	4.952		
13,900.00	7,178.48	13,739.36	7,054.60	111.98	112.09	83.48	413.17	-6,158.36	1,091.05	867.39	223.66	4.878		
14,000.00	7,178.65	13,839.36	7,055.02	113.63	113.74	83.49	413.36	-6,258.36	1,090.88	863.93	226.96	4.807		
14,100.00	7,178.81	13,939.36	7,055.45	115.29	115.40	83.51	413.56	-6,358.36	1,090.72	860.47	230.25	4.737		
14,200.00	7,178.98	14,039.36	7,055.87	116.94	117.05	83.52	413.76	-6,458.35	1,090.56	857.00	233.55	4.669		
14,300.00	7,179.15	14,139.36	7,056.29	118.59	118.71	83.53	413.95	-6,558.35	1,090.39	853.54	236.85	4.604		
14,400.00	7,179.31	14,239.36	7,056.71	120.24	120.36	83.54	414.15	-6,658.35	1,090.23	850.08	240.15	4.540		
14,500.00	7,179.48	14,339.36	7,057.14	121.90	122.02	83.56	414.34	-6,758.35	1,090.07	846.61	243.46	4.477		
14,600.00	7,179.65	14,439.36	7,057.56	123.55	123.67	83.57	414.54	-6,858.35	1,089.90	843.15	246.76	4.417		
14,700.00	7,179.82	14,539.36	7,057.98	125.21	125.33	83.58	414.73	-6,958.35	1,089.74	839.68	250.06	4.358		
14,800.00	7,179.98	14,639.36	7,058.40	126.86	126.99	83.59	414.93	-7,058.35	1,089.58	836.21	253.37	4.300		
14,900.00	7,180.15	14,739.36	7,058.83	128.52	128.64	83.61	415.12	-7,158.34	1,089.42	832.74	256.67	4.244		
15,000.00	7,180.32	14,839.36	7,059.25	130.17	130.30	83.62	415.32	-7,258.34	1,089.25	829.27	259.98	4.190		
15,100.00	7,180.48	14,939.36	7,059.67	131.83	131.96	83.63	415.52	-7,358.34	1,089.09	825.80	263.29	4.136		
15,200.00	7,180.65	15,039.36	7,060.09	133.49	133.62	83.64	415.71	-7,458.34	1,088.93	822.33	266.60	4.085		
15,300.00	7,180.82	15,139.36	7,060.52	135.15	135.28	83.66	415.91	-7,558.34	1,088.77	818.86	269.91	4.034		
15,400.00	7,180.98	15,239.36	7,060.94	136.80	136.93	83.67	416.10	-7,658.34	1,088.60	815.39	273.22	3.984		
15,410.68	7,181.00	15,250.04	7,060.98	136.98	137.11	83.67	416.12	-7,669.02	1,088.59	815.02	273.57	3.979 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 30N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	160.29	-1.11	160.29					
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	160.29	-1.11	160.29	152.76	7.53	21.291		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	160.29	-1.11	160.29	152.72	7.57	21.164	CC, ES, SF	
300.00	299.98	297.36	297.34	3.35	3.35	-129.62	161.09	0.33	162.22	154.56	7.66	21.186		
400.00	399.84	394.51	394.36	3.41	3.41	-129.38	163.48	4.66	167.99	160.21	7.78	21.590		
500.00	499.45	491.24	490.73	3.49	3.50	-129.02	167.44	11.83	177.59	169.64	7.95	22.328		
600.00	598.70	587.33	586.15	3.61	3.61	-128.55	172.92	21.77	191.00	182.82	8.18	23.351		
700.00	697.51	684.99	682.80	3.76	3.75	-128.27	179.69	34.02	207.62	199.15	8.47	24.524		
800.00	796.21	783.52	780.29	3.95	3.92	-128.27	186.58	46.50	224.72	215.92	8.80	25.544		
900.00	894.91	882.04	877.78	4.16	4.11	-128.27	193.47	58.98	241.82	232.65	9.17	26.365		
1,000.00	993.61	980.57	975.27	4.40	4.32	-128.26	200.36	71.47	258.93	249.34	9.58	27.014		
1,100.00	1,092.32	1,079.09	1,072.76	4.66	4.55	-128.26	207.25	83.95	276.03	266.00	10.03	27.520		
1,200.00	1,191.02	1,177.62	1,170.25	4.93	4.79	-128.26	214.14	96.43	293.13	282.63	10.50	27.908		
1,300.00	1,289.72	1,276.15	1,267.74	5.21	5.04	-128.26	221.03	108.91	310.24	299.24	11.00	28.199		
1,400.00	1,388.42	1,374.67	1,365.23	5.51	5.31	-128.26	227.92	121.39	327.34	315.82	11.52	28.417		
1,500.00	1,487.13	1,473.20	1,462.72	5.81	5.58	-128.25	234.81	133.87	344.44	332.39	12.06	28.571		
1,600.00	1,585.83	1,571.73	1,560.21	6.13	5.86	-128.25	241.70	146.35	361.55	348.94	12.61	28.678		
1,700.00	1,684.53	1,670.25	1,657.70	6.45	6.14	-128.25	248.59	158.84	378.65	365.48	13.17	28.747		
1,800.00	1,783.23	1,768.78	1,755.19	6.78	6.44	-128.25	255.48	171.32	395.76	382.01	13.75	28.786		
1,900.00	1,881.94	1,867.31	1,852.68	6.96	6.64	-128.25	262.37	183.80	412.86	399.13	13.73	30.080		
2,000.00	1,980.64	1,965.83	1,950.17	6.99	6.71	-128.25	269.26	196.28	429.96	416.14	13.83	31.099		
2,100.00	2,079.34	2,064.36	2,047.66	7.05	6.75	-128.25	276.15	208.76	447.07	433.16	13.91	32.141		
2,200.00	2,178.04	2,162.89	2,145.15	7.12	6.81	-128.25	283.04	221.24	464.17	450.15	14.02	33.102		
2,300.00	2,276.75	2,261.41	2,242.63	7.20	6.88	-128.25	289.93	233.72	481.27	467.11	14.16	33.980		
2,400.00	2,375.45	2,359.94	2,340.12	7.30	6.96	-128.25	296.82	246.21	498.38	484.04	14.33	34.772		
2,500.00	2,474.15	2,458.47	2,437.61	7.42	7.06	-128.25	303.71	258.69	515.48	500.95	14.53	35.482		
2,600.00	2,572.85	2,556.99	2,535.10	7.54	7.17	-128.25	310.60	271.17	532.58	517.83	14.75	36.109		
2,700.00	2,671.56	2,655.52	2,632.59	7.68	7.29	-128.25	317.49	283.65	549.69	534.69	14.99	36.659		
2,800.00	2,770.26	2,754.05	2,730.08	7.84	7.42	-128.25	324.38	296.13	566.79	551.53	15.26	37.134		
2,900.00	2,868.96	2,852.57	2,827.57	8.00	7.56	-128.24	331.27	308.61	583.89	568.34	15.55	37.540		
3,000.00	2,967.66	2,951.10	2,925.06	8.18	7.71	-128.24	338.16	321.09	601.00	585.13	15.87	37.882		
3,100.00	3,066.37	3,049.62	3,022.55	8.36	7.87	-128.24	345.05	333.58	618.10	601.90	16.20	38.164		
3,200.00	3,165.07	3,148.15	3,120.04	8.56	8.04	-128.24	351.94	346.06	635.20	618.66	16.54	38.394		
3,300.00	3,263.77	3,246.68	3,217.53	8.76	8.22	-128.24	358.83	358.54	652.31	635.40	16.91	38.574		
3,400.00	3,362.47	3,345.20	3,315.02	8.97	8.41	-128.24	365.72	371.02	669.41	652.12	17.29	38.711		
3,500.00	3,461.18	3,443.73	3,412.51	9.19	8.60	-128.24	372.61	383.50	686.51	668.83	17.69	38.810		
3,600.00	3,559.88	3,542.26	3,510.00	9.42	8.80	-128.24	379.50	395.98	703.62	685.52	18.10	38.875		
3,700.00	3,658.58	3,640.78	3,607.49	9.65	9.01	-128.24	386.39	408.46	720.72	702.20	18.52	38.909		
3,800.00	3,757.28	3,739.31	3,704.98	9.89	9.22	-128.24	393.28	420.95	737.83	718.87	18.96	38.917		
3,900.00	3,855.99	3,837.84	3,802.47	10.14	9.44	-128.24	400.17	433.43	754.93	735.52	19.41	38.903		
4,000.00	3,954.69	3,936.36	3,899.96	10.39	9.67	-128.24	407.06	445.91	772.03	752.17	19.86	38.868		
4,100.00	4,053.39	4,034.89	3,997.45	10.65	9.89	-128.24	413.95	458.39	789.14	768.81	20.33	38.817		
4,200.00	4,152.09	4,133.42	4,094.94	10.91	10.13	-128.24	420.84	470.87	806.24	785.43	20.81	38.751		
4,300.00	4,250.79	4,231.94	4,192.43	11.17	10.36	-128.24	427.73	483.35	823.34	802.05	21.29	38.672		
4,400.00	4,349.50	4,330.47	4,289.92	11.44	10.61	-128.24	434.62	495.83	840.45	818.66	21.78	38.584		
4,500.00	4,448.20	4,429.00	4,387.40	11.71	10.85	-128.24	441.51	508.32	857.55	835.27	22.28	38.486		
4,600.00	4,546.90	4,527.52	4,484.89	11.99	11.10	-128.24	448.40	520.80	874.65	851.86	22.79	38.381		
4,700.00	4,645.60	4,626.05	4,582.38	12.27	11.35	-128.24	455.29	533.28	891.76	868.46	23.30	38.271		
4,800.00	4,744.31	4,724.58	4,679.87	12.55	11.61	-128.24	462.18	545.76	908.86	885.04	23.82	38.155		
4,900.00	4,843.01	4,823.10	4,777.36	12.84	11.86	-128.24	469.07	558.24	925.96	901.62	24.34	38.036		
5,000.00	4,941.71	4,921.63	4,874.85	13.12	12.12	-128.24	475.96	570.72	943.07	918.19	24.87	37.914		
5,100.00	5,040.41	5,020.15	4,972.34	13.41	12.39	-128.24	482.85	583.20	960.17	934.76	25.41	37.789		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,139.12	5,118.68	5,069.83	13.71	12.65	-128.24	489.74	595.69	977.27	951.33	25.95	37.663	
5,300.00	5,237.82	5,217.21	5,167.32	14.00	12.92	-128.24	496.63	608.17	994.38	967.89	26.49	37.536	
5,400.00	5,336.52	5,315.73	5,264.81	14.30	13.19	-128.24	503.52	620.65	1,011.48	984.44	27.04	37.409	
5,500.00	5,435.22	5,414.26	5,362.30	14.60	13.46	-128.24	510.41	633.13	1,028.58	1,000.99	27.59	37.281	
5,600.00	5,533.93	5,512.79	5,459.79	14.90	13.73	-128.24	517.30	645.61	1,045.69	1,017.54	28.14	37.154	
5,700.00	5,632.63	5,611.31	5,557.28	15.20	14.00	-128.24	524.19	658.09	1,062.79	1,034.09	28.70	37.027	
5,800.00	5,731.33	5,709.84	5,654.77	15.50	14.28	-128.24	531.08	670.58	1,079.90	1,050.63	29.26	36.902	
5,900.00	5,830.03	5,808.37	5,752.26	15.81	14.56	-128.24	537.97	683.06	1,097.00	1,067.17	29.83	36.777	
6,000.00	5,928.74	5,906.89	5,849.75	16.11	14.84	-128.24	544.86	695.54	1,114.10	1,083.71	30.40	36.653	
6,100.00	6,027.44	6,005.42	5,947.24	16.42	15.12	-128.24	551.75	708.02	1,131.21	1,100.24	30.97	36.531	
6,200.00	6,126.14	6,103.95	6,044.73	16.73	15.40	-128.24	558.64	720.50	1,148.31	1,116.77	31.54	36.410	
6,300.00	6,224.84	6,202.47	6,142.22	17.04	15.68	-128.24	565.53	732.98	1,165.41	1,133.30	32.11	36.291	
6,400.00	6,323.55	6,301.00	6,239.71	17.35	15.96	-128.24	572.42	745.46	1,182.52	1,149.83	32.69	36.174	
6,500.00	6,422.25	6,400.47	6,337.20	17.67	16.25	-128.24	579.31	757.95	1,199.62	1,166.35	33.27	36.055	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1												Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	20.04	0.00	20.04				
100.00	100.00	100.00	100.00	3.28	3.28	0.00	20.04	0.00	20.04	12.51	7.53	2.661	
200.00	200.00	200.00	200.00	3.31	3.31	0.00	20.04	0.00	20.04	12.46	7.57	2.645	CC
300.00	299.98	300.35	300.33	3.35	3.35	-128.81	19.17	1.53	20.28	12.62	7.65	2.649	
400.00	399.84	400.69	400.52	3.41	3.41	-127.40	16.57	6.11	21.01	13.24	7.77	2.703	
500.00	499.45	501.01	500.46	3.49	3.50	-125.26	12.23	13.74	22.25	14.31	7.94	2.803	
600.00	598.70	601.33	600.01	3.61	3.61	-122.65	6.17	24.40	24.04	15.87	8.17	2.943	
700.00	697.51	701.30	698.99	3.76	3.77	-122.49	-0.82	36.71	26.83	18.37	8.46	3.172	
800.00	796.21	801.25	797.93	3.95	3.94	-123.46	-7.81	49.01	29.98	21.18	8.80	3.407	
900.00	894.91	901.20	896.87	4.16	4.15	-124.24	-14.80	61.32	33.15	23.96	9.18	3.609	
1,000.00	993.61	1,001.15	995.81	4.40	4.37	-124.89	-21.79	73.62	36.31	26.70	9.61	3.780	
1,100.00	1,092.32	1,101.10	1,094.75	4.66	4.61	-125.43	-28.78	85.93	39.48	29.42	10.06	3.924	
1,200.00	1,191.02	1,201.05	1,193.70	4.93	4.86	-125.89	-35.77	98.23	42.66	32.11	10.55	4.045	
1,300.00	1,289.72	1,301.00	1,292.64	5.21	5.12	-126.29	-42.76	110.54	45.83	34.78	11.05	4.147	
1,400.00	1,388.42	1,400.95	1,391.58	5.51	5.40	-126.64	-49.75	122.84	49.01	37.43	11.58	4.233	
1,500.00	1,487.13	1,500.90	1,490.52	5.81	5.69	-126.94	-56.74	135.15	52.19	40.07	12.12	4.306	
1,600.00	1,585.83	1,600.84	1,589.46	6.13	5.98	-127.21	-63.73	147.45	55.37	42.69	12.68	4.367	
1,700.00	1,684.53	1,700.79	1,688.41	6.45	6.28	-127.45	-70.72	159.76	58.56	45.31	13.25	4.419	
1,800.00	1,783.23	1,800.74	1,787.35	6.78	6.58	-127.67	-77.71	172.06	61.74	47.91	13.83	4.463	
1,900.00	1,881.94	1,900.69	1,886.29	6.96	6.75	-127.86	-84.70	184.37	64.92	51.16	13.76	4.718	
2,000.00	1,980.64	2,000.64	1,985.23	6.99	6.78	-128.04	-91.69	196.67	68.11	54.29	13.81	4.930	
2,100.00	2,079.34	2,100.59	2,084.17	7.05	6.83	-128.20	-98.68	208.98	71.29	57.39	13.90	5.129	
2,200.00	2,178.04	2,200.54	2,183.12	7.12	6.89	-128.34	-105.67	221.28	74.48	60.47	14.01	5.315	
2,300.00	2,276.75	2,300.49	2,282.06	7.20	6.97	-128.48	-112.66	233.59	77.66	63.51	14.16	5.486	
2,400.00	2,375.45	2,400.44	2,381.00	7.30	7.06	-128.60	-119.65	245.89	80.85	66.52	14.33	5.643	
2,500.00	2,474.15	2,500.39	2,479.94	7.42	7.17	-128.72	-126.64	258.20	84.04	69.51	14.53	5.785	
2,600.00	2,572.85	2,600.34	2,578.89	7.54	7.28	-128.82	-133.63	270.50	87.23	72.47	14.75	5.913	
2,700.00	2,671.56	2,700.28	2,677.83	7.68	7.42	-128.92	-140.62	282.81	90.41	75.41	15.00	6.027	
2,800.00	2,770.26	2,800.23	2,776.77	7.84	7.56	-129.01	-147.61	295.11	93.60	78.33	15.27	6.128	
2,900.00	2,868.96	2,900.18	2,875.71	8.00	7.71	-129.10	-154.60	307.42	96.79	81.22	15.57	6.217	
3,000.00	2,967.66	3,000.13	2,974.65	8.18	7.88	-129.18	-161.59	319.72	99.98	84.09	15.88	6.294	
3,100.00	3,066.37	3,100.08	3,073.60	8.36	8.05	-129.25	-168.58	332.03	103.17	86.95	16.22	6.360	
3,200.00	3,165.07	3,200.03	3,172.54	8.56	8.23	-129.33	-175.57	344.33	106.35	89.78	16.57	6.417	
3,300.00	3,263.77	3,300.02	3,271.48	8.76	8.43	-129.39	-182.56	356.64	109.54	92.60	16.94	6.465	
3,400.00	3,362.47	3,400.07	3,370.42	8.97	8.63	-129.46	-189.55	368.94	112.73	95.40	17.33	6.505	
3,500.00	3,461.18	3,499.88	3,469.36	9.19	8.83	-129.52	-196.54	381.25	115.92	98.19	17.73	6.537	
3,600.00	3,559.88	3,600.17	3,568.31	9.42	9.05	-129.57	-203.53	393.55	119.11	100.96	18.15	6.563	
3,700.00	3,658.58	3,700.22	3,667.25	9.65	9.27	-129.62	-210.52	405.86	122.30	103.72	18.58	6.583	
3,800.00	3,757.28	3,800.28	3,766.19	9.89	9.50	-129.68	-217.51	418.16	125.49	106.47	19.02	6.599	
3,900.00	3,855.99	3,900.33	3,865.13	10.14	9.73	-129.72	-224.50	430.47	128.68	109.21	19.47	6.609	
4,000.00	3,954.69	4,000.38	3,964.07	10.39	9.97	-129.77	-231.49	442.77	131.87	111.94	19.93	6.616	
4,100.00	4,053.39	4,100.43	4,063.02	10.65	10.21	-129.81	-238.49	455.08	135.06	114.65	20.40	6.619	
4,200.00	4,152.09	4,200.48	4,161.96	10.91	10.46	-129.86	-245.48	467.38	138.25	117.36	20.88	6.620	
4,300.00	4,250.79	4,300.53	4,260.90	11.17	10.71	-129.89	-252.47	479.69	141.44	120.06	21.37	6.618	
4,400.00	4,349.50	4,400.58	4,359.84	11.44	10.97	-129.93	-259.46	492.00	144.63	122.76	21.87	6.613	
4,500.00	4,448.20	4,500.63	4,458.78	11.71	11.23	-129.97	-266.45	504.30	147.82	125.44	22.37	6.607	
4,600.00	4,546.90	4,599.32	4,557.73	11.99	11.49	-130.00	-273.44	516.61	151.01	128.13	22.88	6.600	
4,700.00	4,645.60	4,700.73	4,656.67	12.27	11.76	-130.04	-280.43	528.91	154.20	130.80	23.40	6.589	
4,800.00	4,744.31	4,800.79	4,755.61	12.55	12.02	-130.07	-287.42	541.22	157.39	133.46	23.92	6.579	
4,900.00	4,843.01	4,900.84	4,854.55	12.84	12.30	-130.10	-294.41	553.52	160.58	136.12	24.45	6.567	
5,000.00	4,941.71	5,000.89	4,953.50	13.12	12.57	-130.13	-301.40	565.83	163.77	138.78	24.99	6.554	
5,100.00	5,040.41	5,100.94	5,052.44	13.41	12.85	-130.16	-308.39	578.13	166.96	141.43	25.52	6.541	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,199.01	5,151.38	13.71	13.12	-130.19	-315.38	590.44	170.15	144.09	26.06	6.529		
5,300.00	5,237.82	5,301.04	5,250.32	14.00	13.41	-130.21	-322.37	602.74	173.34	146.72	26.61	6.513		
5,400.00	5,336.52	5,401.09	5,349.26	14.30	13.69	-130.24	-329.36	615.05	176.53	149.36	27.16	6.499		
5,500.00	5,435.22	5,501.14	5,448.21	14.60	13.98	-130.26	-336.35	627.35	179.72	152.00	27.72	6.484		
5,600.00	5,533.93	5,601.19	5,547.15	14.90	14.26	-130.29	-343.34	639.66	182.91	154.63	28.28	6.468		
5,700.00	5,632.63	5,701.24	5,646.09	15.20	14.55	-130.31	-350.33	651.96	186.10	157.26	28.84	6.453		
5,800.00	5,731.33	5,798.71	5,745.03	15.50	14.83	-130.33	-357.32	664.27	189.29	159.89	29.40	6.439		
5,900.00	5,830.03	5,901.35	5,843.97	15.81	15.13	-130.35	-364.31	676.57	192.48	162.51	29.97	6.422		
6,000.00	5,928.74	6,001.40	5,942.92	16.11	15.43	-130.37	-371.30	688.88	195.67	165.13	30.54	6.407		
6,100.00	6,027.44	6,101.45	6,041.86	16.42	15.72	-130.39	-378.29	701.18	198.86	167.75	31.11	6.392		
6,200.00	6,126.14	6,201.50	6,140.80	16.73	16.02	-130.41	-385.28	713.49	202.05	170.36	31.69	6.376		
6,300.00	6,224.84	6,301.55	6,239.74	17.04	16.31	-130.43	-392.27	725.79	205.24	172.98	32.27	6.361		
6,400.00	6,323.55	6,401.60	6,338.68	17.35	16.61	-130.45	-399.26	738.10	208.43	175.59	32.85	6.346		
6,500.00	6,422.25	6,501.65	6,437.63	17.67	16.91	-130.47	-406.25	750.40	211.62	178.20	33.43	6.331		
6,600.00	6,521.26	6,598.17	6,536.45	17.91	17.20	-168.61	-413.23	762.66	214.78	180.77	34.01	6.316		
6,700.00	6,620.47	6,698.28	6,636.14	18.07	17.38	128.96	-420.26	766.06	218.11	183.60	34.50	6.322		
6,800.00	6,717.57	6,799.86	6,736.59	18.18	17.50	113.40	-427.31	753.48	221.71	186.86	34.85	6.361		
6,900.00	6,810.17	6,902.95	6,835.17	18.24	17.58	108.99	-434.20	724.52	225.45	190.39	35.06	6.431		
7,000.00	6,895.98	7,007.53	6,929.09	18.27	17.62	107.61	-440.72	679.26	229.17	194.04	35.14	6.522		
7,100.00	6,972.90	7,113.53	7,015.45	18.27	17.64	107.32	-446.69	618.30	232.70	197.56	35.14	6.622		
7,200.00	7,039.03	7,220.82	7,091.37	18.25	17.64	107.45	-451.89	542.85	235.85	200.70	35.15	6.710		
7,300.00	7,092.74	7,329.22	7,154.17	18.23	17.65	107.71	-456.15	454.75	238.46	203.19	35.27	6.761		
7,400.00	7,132.71	7,438.50	7,201.48	18.23	17.72	107.95	-459.29	356.44	240.38	204.79	35.59	6.753		
7,500.00	7,157.96	7,548.37	7,231.45	18.28	17.89	108.09	-461.20	250.90	241.51	205.31	36.20	6.671		
7,600.00	7,167.85	7,658.51	7,242.90	18.46	18.23	108.08	-461.80	141.49	241.79	204.68	37.11	6.515		
7,700.00	7,168.14	7,759.58	7,242.98	18.86	18.73	108.05	-461.62	40.42	241.59	203.32	38.28	6.312		
7,800.00	7,168.31	7,859.58	7,242.96	19.49	19.38	108.01	-461.43	-59.58	241.40	201.74	39.66	6.087		
7,900.00	7,168.48	7,959.58	7,242.93	20.27	20.17	107.98	-461.23	-159.58	241.21	199.96	41.25	5.848		
8,000.00	7,168.64	8,059.58	7,242.90	21.18	21.07	107.95	-461.04	-259.58	241.02	197.99	43.02	5.602		
8,100.00	7,168.81	8,159.58	7,242.88	22.18	22.07	107.91	-460.85	-359.58	240.83	195.86	44.96	5.356		
8,200.00	7,168.98	8,259.58	7,242.85	23.25	23.14	107.88	-460.66	-459.58	240.63	193.59	47.05	5.115		
8,300.00	7,169.14	8,359.58	7,242.83	24.40	24.29	107.85	-460.47	-559.58	240.44	191.19	49.25	4.882		
8,400.00	7,169.31	8,459.58	7,242.80	25.60	25.49	107.81	-460.28	-659.58	240.25	188.68	51.57	4.659		
8,500.00	7,169.48	8,559.58	7,242.78	26.85	26.74	107.78	-460.09	-759.58	240.06	186.08	53.98	4.447		
8,600.00	7,169.64	8,659.58	7,242.75	28.14	28.03	107.75	-459.90	-859.58	239.87	183.39	56.47	4.247		
8,700.00	7,169.81	8,759.58	7,242.72	29.47	29.37	107.71	-459.71	-959.58	239.67	180.63	59.04	4.060		
8,800.00	7,169.98	8,859.58	7,242.70	30.83	30.73	107.68	-459.52	-1,059.58	239.48	177.81	61.67	3.883		
8,900.00	7,170.14	8,959.58	7,242.67	32.23	32.13	107.64	-459.32	-1,159.57	239.29	174.94	64.35	3.718		
9,000.00	7,170.31	9,059.58	7,242.65	33.64	33.55	107.61	-459.13	-1,259.57	239.10	172.01	67.09	3.564		
9,100.00	7,170.48	9,159.58	7,242.62	35.08	34.99	107.58	-458.94	-1,359.57	238.91	169.04	69.87	3.420		
9,200.00	7,170.64	9,259.58	7,242.60	36.54	36.45	107.54	-458.75	-1,459.57	238.72	166.03	72.68	3.284		
9,300.00	7,170.81	9,359.58	7,242.57	38.02	37.93	107.51	-458.56	-1,559.57	238.53	162.99	75.53	3.158		
9,400.00	7,170.98	9,459.58	7,242.54	39.51	39.42	107.47	-458.37	-1,659.57	238.33	159.92	78.41	3.039		
9,500.00	7,171.14	9,559.58	7,242.52	41.01	40.93	107.44	-458.18	-1,759.57	238.14	156.82	81.32	2.928		
9,600.00	7,171.31	9,659.58	7,242.49	42.53	42.45	107.41	-457.99	-1,859.57	237.95	153.70	84.25	2.824		
9,700.00	7,171.48	9,759.58	7,242.47	44.05	43.98	107.37	-457.80	-1,959.57	237.76	150.55	87.21	2.726		
9,800.00	7,171.64	9,859.58	7,242.44	45.59	45.52	107.34	-457.60	-2,059.57	237.57	147.39	90.18	2.634		
9,900.00	7,171.81	9,959.58	7,242.42	47.14	47.07	107.30	-457.41	-2,159.57	237.38	144.20	93.18	2.548		
10,000.00	7,171.98	10,059.58	7,242.39	48.69	48.63	107.27	-457.22	-2,259.57	237.19	141.00	96.19	2.466		
10,100.00	7,172.14	10,159.58	7,242.37	50.26	50.19	107.23	-457.03	-2,359.57	237.00	137.79	99.21	2.389		
10,200.00	7,172.31	10,259.58	7,242.34	51.83	51.76	107.20	-456.84	-2,459.57	236.81	134.56	102.25	2.316		
10,300.00	7,172.48	10,359.58	7,242.31	53.40	53.34	107.17	-456.65	-2,559.57	236.62	131.31	105.30	2.247		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,172.64	10,459.58	7,242.29	54.98	54.92	107.13	-456.46	-2,659.57	236.43	128.06	108.37	2.182	
10,500.00	7,172.81	10,559.58	7,242.26	56.57	56.51	107.10	-456.27	-2,759.57	236.24	124.80	111.44	2.120	
10,600.00	7,172.98	10,659.58	7,242.24	58.16	58.11	107.06	-456.08	-2,859.57	236.05	121.52	114.53	2.061	
10,700.00	7,173.14	10,759.57	7,242.21	59.75	59.70	107.03	-455.89	-2,959.57	235.86	118.24	117.62	2.005	
10,800.00	7,173.31	10,859.57	7,242.19	61.35	61.30	106.99	-455.69	-3,059.57	235.67	114.94	120.73	1.952	
10,900.00	7,173.48	10,959.57	7,242.16	62.96	62.91	106.96	-455.50	-3,159.57	235.48	111.64	123.84	1.902	
11,000.00	7,173.65	11,059.57	7,242.13	64.56	64.52	106.92	-455.31	-3,259.56	235.29	108.33	126.95	1.853	
11,100.00	7,173.81	11,159.57	7,242.11	66.17	66.13	106.89	-455.12	-3,359.56	235.10	105.02	130.08	1.807	
11,200.00	7,173.98	11,259.57	7,242.08	67.79	67.74	106.85	-454.93	-3,459.56	234.91	101.70	133.21	1.763	
11,300.00	7,174.15	11,359.57	7,242.06	69.40	69.36	106.82	-454.74	-3,559.56	234.72	98.37	136.35	1.721	
11,400.00	7,174.31	11,459.57	7,242.03	71.02	70.98	106.78	-454.55	-3,659.56	234.53	95.04	139.50	1.681	
11,500.00	7,174.48	11,559.57	7,242.01	72.64	72.60	106.75	-454.36	-3,759.56	234.34	91.70	142.64	1.643	
11,600.00	7,174.65	11,659.57	7,241.98	74.26	74.22	106.71	-454.17	-3,859.56	234.15	88.35	145.80	1.606	
11,700.00	7,174.81	11,759.57	7,241.95	75.89	75.85	106.68	-453.97	-3,959.56	233.96	85.00	148.96	1.571	
11,800.00	7,174.98	11,859.57	7,241.93	77.51	77.48	106.64	-453.78	-4,059.56	233.77	81.65	152.13	1.537	
11,900.00	7,175.15	11,959.57	7,241.90	79.14	79.11	106.61	-453.59	-4,159.56	233.59	78.29	155.29	1.504	
12,000.00	7,175.31	12,059.57	7,241.88	80.77	80.74	106.57	-453.40	-4,259.56	233.40	74.93	158.47	1.473 Level 3	
12,100.00	7,175.48	12,159.57	7,241.85	82.40	82.37	106.53	-453.21	-4,359.56	233.21	71.56	161.65	1.443 Level 3	
12,200.00	7,175.65	12,259.57	7,241.83	84.04	84.01	106.50	-453.02	-4,459.56	233.02	68.19	164.83	1.414 Level 3	
12,300.00	7,175.81	12,359.57	7,241.80	85.67	85.64	106.46	-452.83	-4,559.56	232.83	64.82	168.01	1.386 Level 3	
12,400.00	7,175.98	12,459.57	7,241.77	87.31	87.28	106.43	-452.64	-4,659.56	232.64	61.44	171.20	1.359 Level 3	
12,500.00	7,176.15	12,559.57	7,241.75	88.95	88.92	106.39	-452.45	-4,759.56	232.45	58.06	174.39	1.333 Level 3	
12,600.00	7,176.31	12,659.57	7,241.72	90.59	90.56	106.36	-452.26	-4,859.56	232.27	54.68	177.59	1.308 Level 3	
12,700.00	7,176.48	12,759.57	7,241.70	92.23	92.20	106.32	-452.06	-4,959.56	232.08	51.29	180.79	1.284 Level 3	
12,800.00	7,176.65	12,859.57	7,241.67	93.87	93.84	106.28	-451.87	-5,059.56	231.89	47.90	183.99	1.260 Level 3	
12,900.00	7,176.81	12,959.57	7,241.65	95.51	95.49	106.25	-451.68	-5,159.56	231.70	44.51	187.19	1.238 Level 2	
13,000.00	7,176.98	13,059.57	7,241.62	97.15	97.13	106.21	-451.49	-5,259.56	231.51	41.11	190.40	1.216 Level 2	
13,100.00	7,177.15	13,159.57	7,241.59	98.80	98.78	106.18	-451.30	-5,359.55	231.33	37.72	193.61	1.195 Level 2	
13,200.00	7,177.31	13,259.57	7,241.57	100.44	100.42	106.14	-451.11	-5,459.55	231.14	34.32	196.82	1.174 Level 2	
13,300.00	7,177.48	13,359.57	7,241.54	102.09	102.07	106.10	-450.92	-5,559.55	230.95	30.91	200.04	1.155 Level 2	
13,400.00	7,177.65	13,459.57	7,241.52	103.74	103.72	106.07	-450.73	-5,659.55	230.76	27.51	203.26	1.135 Level 2	
13,500.00	7,177.81	13,559.57	7,241.49	105.38	105.36	106.03	-450.54	-5,759.55	230.58	24.10	206.48	1.117 Level 2	
13,600.00	7,177.98	13,659.57	7,241.47	107.03	107.01	106.00	-450.34	-5,859.55	230.39	20.69	209.70	1.099 Level 2	
13,700.00	7,178.15	13,759.57	7,241.44	108.68	108.66	105.96	-450.15	-5,959.55	230.20	17.28	212.92	1.081 Level 2	
13,800.00	7,178.31	13,859.57	7,241.41	110.33	110.31	105.92	-449.96	-6,059.55	230.01	13.87	216.15	1.064 Level 2	
13,900.00	7,178.48	13,959.57	7,241.39	111.98	111.97	105.89	-449.77	-6,159.55	229.83	10.45	219.38	1.048 Level 2	
14,000.00	7,178.65	14,059.57	7,241.36	113.63	113.62	105.85	-449.58	-6,259.55	229.64	7.03	222.61	1.032 Level 2	
14,100.00	7,178.81	14,159.57	7,241.34	115.29	115.27	105.81	-449.39	-6,359.55	229.45	3.61	225.84	1.016 Level 2	
14,200.00	7,178.98	14,259.57	7,241.31	116.94	116.92	105.78	-449.20	-6,459.55	229.27	0.19	229.08	1.001 Level 2	
14,300.00	7,179.15	14,359.56	7,241.29	118.59	118.58	105.74	-449.01	-6,559.55	229.08	-3.23	232.31	0.986 Level 1	
14,400.00	7,179.31	14,459.56	7,241.26	120.24	120.23	105.70	-448.82	-6,659.55	228.89	-6.66	235.55	0.972 Level 1	
14,500.00	7,179.48	14,559.56	7,241.23	121.90	121.88	105.66	-448.63	-6,759.55	228.71	-10.08	238.79	0.958 Level 1	
14,600.00	7,179.65	14,659.56	7,241.21	123.55	123.54	105.63	-448.43	-6,859.55	228.52	-13.51	242.03	0.944 Level 1	
14,700.00	7,179.82	14,759.56	7,241.18	125.21	125.19	105.59	-448.24	-6,959.55	228.33	-16.94	245.28	0.931 Level 1	
14,800.00	7,179.98	14,859.56	7,241.16	126.86	126.85	105.55	-448.05	-7,059.55	228.15	-20.37	248.52	0.918 Level 1	
14,900.00	7,180.15	14,959.56	7,241.13	128.52	128.51	105.52	-447.86	-7,159.55	227.96	-23.81	251.77	0.905 Level 1	
15,000.00	7,180.32	15,059.56	7,241.11	130.17	130.16	105.48	-447.67	-7,259.55	227.78	-27.24	255.02	0.893 Level 1	
15,100.00	7,180.48	15,159.56	7,241.08	131.83	131.82	105.44	-447.48	-7,359.55	227.59	-30.68	258.27	0.881 Level 1	
15,200.00	7,180.65	15,259.56	7,241.05	133.49	133.48	105.40	-447.29	-7,459.55	227.40	-34.12	261.52	0.870 Level 1	
15,300.00	7,180.82	15,359.56	7,241.03	135.15	135.13	105.37	-447.10	-7,559.54	227.22	-37.56	264.77	0.858 Level 1	
15,400.00	7,180.98	15,459.56	7,241.00	136.80	136.79	105.33	-446.91	-7,659.54	227.03	-41.00	268.03	0.847 Level 1	
15,410.68	7,181.00	15,470.25	7,241.00	136.98	136.97	105.33	-446.89	-7,670.23	227.01	-41.36	268.38	0.846 Level 1, ES, SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.68	-99.81	0.56	99.81					
100.00	100.00	100.00	100.00	3.28	3.28	179.68	-99.81	0.56	99.81	92.29	7.53	13.258		
200.00	200.00	200.00	200.00	3.31	3.31	179.68	-99.81	0.56	99.81	92.24	7.57	13.179		
300.00	299.98	298.49	298.48	3.35	3.35	51.05	-100.18	0.74	99.09	91.43	7.66	12.944		
376.55	376.43	372.73	372.69	3.39	3.39	52.09	-102.17	1.73	98.82	91.09	7.73	12.776 CC		
400.00	399.84	395.48	395.42	3.41	3.40	52.48	-103.12	2.21	98.85	91.09	7.76	12.734 ES		
500.00	499.45	492.49	492.20	3.49	3.48	54.54	-108.99	5.13	99.56	91.65	7.91	12.585		
600.00	598.70	589.47	588.67	3.61	3.58	57.15	-117.79	9.52	101.35	93.25	8.11	12.501		
700.00	697.51	686.41	684.72	3.76	3.71	60.10	-129.50	15.36	104.48	96.12	8.36	12.497		
800.00	796.21	783.29	780.21	3.95	3.88	62.13	-144.11	22.64	110.21	101.54	8.67	12.710		
900.00	894.91	879.91	874.85	4.16	4.09	62.93	-161.54	31.33	118.66	109.63	9.03	13.138		
1,000.00	993.61	976.06	968.31	4.40	4.35	62.71	-181.71	41.39	129.72	120.29	9.44	13.748		
1,100.00	1,092.32	1,072.22	1,061.00	4.66	4.65	61.72	-204.64	52.82	143.35	133.47	9.88	14.509		
1,200.00	1,191.02	1,171.12	1,156.03	4.93	5.01	60.63	-229.15	65.04	157.88	147.49	10.39	15.191		
1,300.00	1,289.72	1,270.02	1,251.05	5.21	5.39	59.73	-253.67	77.27	172.47	161.53	10.94	15.770		
1,400.00	1,388.42	1,368.92	1,346.08	5.51	5.80	58.97	-278.18	89.49	187.09	175.58	11.51	16.257		
1,500.00	1,487.13	1,467.81	1,441.11	5.81	6.22	58.32	-302.69	101.71	201.73	189.64	12.09	16.687		
1,600.00	1,585.83	1,566.71	1,536.14	6.13	6.66	57.75	-327.21	113.93	216.40	203.70	12.70	17.041		
1,700.00	1,684.53	1,665.61	1,631.17	6.45	7.11	57.26	-351.72	126.16	231.09	217.77	13.32	17.347		
1,800.00	1,783.23	1,764.51	1,726.19	6.78	7.57	56.83	-376.24	138.38	245.79	231.83	13.96	17.612		
1,900.00	1,881.94	1,863.40	1,821.22	6.96	7.91	56.45	-400.75	150.60	260.50	246.54	13.97	18.651		
2,000.00	1,980.64	1,962.30	1,916.25	6.99	8.05	56.10	-425.27	162.82	275.23	261.15	14.08	19.550		
2,100.00	2,079.34	2,061.20	2,011.28	7.05	8.13	55.80	-449.78	175.05	289.96	275.80	14.16	20.475		
2,200.00	2,178.04	2,160.10	2,106.31	7.12	8.24	55.52	-474.30	187.27	304.70	290.42	14.28	21.336		
2,300.00	2,276.75	2,258.99	2,201.34	7.20	8.36	55.26	-498.81	199.49	319.45	305.01	14.44	22.129		
2,400.00	2,375.45	2,357.89	2,296.36	7.30	8.51	55.03	-523.33	211.71	334.20	319.57	14.62	22.853		
2,500.00	2,474.15	2,456.79	2,391.39	7.42	8.68	54.82	-547.84	223.94	348.95	334.11	14.84	23.509		
2,600.00	2,572.85	2,555.68	2,486.42	7.54	8.86	54.63	-572.35	236.16	363.71	348.62	15.09	24.097		
2,700.00	2,671.56	2,654.58	2,581.45	7.68	9.06	54.45	-596.87	248.38	378.48	363.11	15.37	24.619		
2,800.00	2,770.26	2,753.48	2,676.48	7.84	9.28	54.29	-621.38	260.60	393.25	377.57	15.68	25.080		
2,900.00	2,868.96	2,852.38	2,771.50	8.00	9.51	54.13	-645.90	272.83	408.02	392.01	16.01	25.482		
3,000.00	2,967.66	2,951.27	2,866.53	8.18	9.76	53.99	-670.41	285.05	422.79	406.42	16.37	25.831		
3,100.00	3,066.37	3,050.17	2,961.56	8.36	10.02	53.86	-694.93	297.27	437.57	420.82	16.75	26.130		
3,200.00	3,165.07	3,149.07	3,056.59	8.56	10.29	53.73	-719.44	309.49	452.34	435.20	17.14	26.384		
3,300.00	3,263.77	3,247.97	3,151.62	8.76	10.57	53.62	-743.96	321.72	467.12	449.56	17.56	26.597		
3,400.00	3,362.47	3,346.86	3,246.65	8.97	10.87	53.51	-768.47	333.94	481.91	463.91	18.00	26.775		
3,500.00	3,461.18	3,445.76	3,341.67	9.19	11.17	53.40	-792.98	346.16	496.69	478.24	18.45	26.920		
3,600.00	3,559.88	3,544.66	3,436.70	9.42	11.48	53.31	-817.50	358.38	511.47	492.56	18.92	27.036		
3,700.00	3,658.58	3,643.56	3,531.73	9.65	11.80	53.22	-842.01	370.61	526.26	506.86	19.40	27.127		
3,800.00	3,757.28	3,742.45	3,626.76	9.89	12.12	53.13	-866.53	382.83	541.05	521.15	19.89	27.196		
3,900.00	3,855.99	3,841.35	3,721.79	10.14	12.46	53.05	-891.04	395.05	555.84	535.44	20.40	27.246		
4,000.00	3,954.69	3,940.25	3,816.81	10.39	12.79	52.97	-915.56	407.27	570.63	549.71	20.92	27.278		
4,100.00	4,053.39	4,039.15	3,911.84	10.65	13.14	52.90	-940.07	419.49	585.42	563.97	21.45	27.296		
4,200.00	4,152.09	4,138.04	4,006.87	10.91	13.49	52.83	-964.59	431.72	600.21	578.22	21.98	27.302		
4,300.00	4,250.79	4,236.94	4,101.90	11.17	13.84	52.76	-989.10	443.94	615.00	592.47	22.53	27.296		
4,400.00	4,349.50	4,335.84	4,196.93	11.44	14.20	52.70	-1,013.62	456.16	629.79	606.71	23.08	27.282		
4,500.00	4,448.20	4,434.74	4,291.95	11.71	14.56	52.64	-1,038.13	468.38	644.59	620.94	23.65	27.259		
4,600.00	4,546.90	4,533.63	4,386.98	11.99	14.93	52.58	-1,062.64	480.61	659.38	635.17	24.22	27.229		
4,700.00	4,645.60	4,632.53	4,482.01	12.27	15.30	52.52	-1,087.16	492.83	674.18	649.39	24.79	27.194		
4,800.00	4,744.31	4,731.43	4,577.04	12.55	15.68	52.47	-1,111.67	505.05	688.97	663.60	25.37	27.154		
4,900.00	4,843.01	4,830.33	4,672.07	12.84	16.05	52.42	-1,136.19	517.27	703.77	677.81	25.96	27.109		
5,000.00	4,941.71	4,929.22	4,767.10	13.12	16.43	52.37	-1,160.70	529.50	718.57	692.01	26.55	27.061		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,040.41	5,028.12	4,862.12	13.41	16.82	52.32	-1,185.22	541.72	733.36	706.21	27.15	27.011		
5,200.00	5,139.12	5,127.02	4,957.15	13.71	17.20	52.28	-1,209.73	553.94	748.16	720.41	27.75	26.958		
5,300.00	5,237.82	5,225.92	5,052.18	14.00	17.59	52.24	-1,234.25	566.16	762.96	734.60	28.36	26.903		
5,400.00	5,336.52	5,324.81	5,147.21	14.30	17.98	52.19	-1,258.76	578.39	777.76	748.79	28.97	26.847		
5,500.00	5,435.22	5,423.71	5,242.24	14.60	18.37	52.15	-1,283.28	590.61	792.56	762.97	29.58	26.790		
5,600.00	5,533.93	5,522.61	5,337.26	14.90	18.76	52.12	-1,307.79	602.83	807.36	777.15	30.20	26.732		
5,700.00	5,632.63	5,621.50	5,432.29	15.20	19.16	52.08	-1,332.30	615.05	822.16	791.33	30.82	26.673		
5,800.00	5,731.33	5,720.40	5,527.32	15.50	19.56	52.04	-1,356.82	627.28	836.96	805.51	31.45	26.614		
5,900.00	5,830.03	5,819.30	5,622.35	15.81	19.95	52.01	-1,381.33	639.50	851.76	819.68	32.07	26.555		
6,000.00	5,928.74	5,918.20	5,717.38	16.11	20.36	51.98	-1,405.85	651.72	866.56	833.85	32.70	26.496		
6,100.00	6,027.44	6,017.09	5,812.41	16.42	20.76	51.94	-1,430.36	663.94	881.36	848.02	33.34	26.437		
6,200.00	6,126.14	6,115.99	5,907.43	16.73	21.16	51.91	-1,454.88	676.17	896.16	862.19	33.97	26.379		
6,300.00	6,224.84	6,214.89	6,002.46	17.04	21.56	51.88	-1,479.39	688.39	910.96	876.35	34.61	26.321		
6,400.00	6,323.55	6,313.79	6,097.49	17.35	21.97	51.85	-1,503.91	700.61	925.76	890.51	35.25	26.263		
6,500.00	6,422.25	6,412.68	6,192.52	17.67	22.38	51.83	-1,528.42	712.83	940.56	904.67	35.89	26.206		
6,600.00	6,521.26	6,511.46	6,287.43	17.91	22.78	13.63	-1,552.90	725.04	955.28	918.82	36.46	26.199		
6,700.00	6,620.47	6,608.60	6,380.77	18.07	23.18	-50.69	-1,576.98	737.05	969.67	932.81	36.86	26.309		
6,800.00	6,717.57	6,701.72	6,470.24	18.18	23.57	-68.80	-1,600.07	748.56	984.21	947.11	37.10	26.528		
6,900.00	6,810.17	6,796.74	6,562.02	18.24	23.87	-75.99	-1,623.73	753.95	999.64	962.40	37.24	26.845		
7,000.00	6,895.98	6,898.99	6,660.46	18.27	24.11	-80.04	-1,649.08	743.97	1,015.77	978.42	37.35	27.195		
7,100.00	6,972.90	7,010.15	6,764.22	18.27	24.31	-82.83	-1,675.76	714.85	1,032.10	994.63	37.47	27.544		
7,200.00	7,039.03	7,132.27	6,870.63	18.25	24.47	-85.03	-1,703.07	661.95	1,047.96	1,010.35	37.62	27.859		
7,300.00	7,092.74	7,267.28	6,974.50	18.23	24.57	-86.86	-1,729.68	580.34	1,062.46	1,024.63	37.83	28.088		
7,400.00	7,132.71	7,416.29	7,066.99	18.23	24.59	-88.36	-1,753.28	466.35	1,074.52	1,036.33	38.18	28.141		
7,500.00	7,157.96	7,578.46	7,135.56	18.28	24.52	-89.44	-1,770.66	320.91	1,082.98	1,044.15	38.83	27.887		
7,600.00	7,167.85	7,749.88	7,167.01	18.46	24.38	-89.97	-1,778.42	153.10	1,086.85	1,046.96	39.90	27.241		
7,700.00	7,168.14	7,864.81	7,168.11	18.86	24.29	-90.00	-1,778.47	38.19	1,087.15	1,046.15	40.99	26.519		
7,800.00	7,168.31	7,964.81	7,168.25	19.49	24.27	-90.00	-1,778.30	-61.81	1,087.31	1,045.07	42.24	25.740		
7,900.00	7,168.48	8,064.81	7,168.39	20.27	24.37	-90.00	-1,778.14	-161.81	1,087.47	1,043.76	43.71	24.878		
8,000.00	7,168.64	8,164.81	7,168.53	21.18	24.72	-89.99	-1,777.97	-261.81	1,087.64	1,042.25	45.38	23.965		
8,100.00	7,168.81	8,264.81	7,168.67	22.18	25.39	-89.99	-1,777.80	-361.81	1,087.80	1,040.57	47.24	23.029		
8,200.00	7,168.98	8,364.81	7,168.82	23.25	26.26	-89.99	-1,777.64	-461.81	1,087.97	1,038.72	49.25	22.092		
8,300.00	7,169.14	8,464.81	7,168.96	24.40	27.25	-89.99	-1,777.47	-561.81	1,088.13	1,036.73	51.40	21.170		
8,400.00	7,169.31	8,564.81	7,169.10	25.60	28.32	-89.99	-1,777.30	-661.81	1,088.29	1,034.62	53.67	20.276		
8,500.00	7,169.48	8,664.81	7,169.24	26.85	29.45	-89.99	-1,777.14	-761.81	1,088.46	1,032.40	56.06	19.417		
8,600.00	7,169.64	8,764.81	7,169.38	28.14	30.64	-89.99	-1,776.97	-861.81	1,088.62	1,030.09	58.53	18.598		
8,700.00	7,169.81	8,864.81	7,169.52	29.47	31.86	-89.99	-1,776.80	-961.81	1,088.79	1,027.69	61.10	17.821		
8,800.00	7,169.98	8,964.81	7,169.66	30.83	33.13	-89.98	-1,776.64	-1,061.81	1,088.95	1,025.22	63.73	17.087		
8,900.00	7,170.14	9,064.81	7,169.81	32.23	34.43	-89.98	-1,776.47	-1,161.81	1,089.11	1,022.69	66.43	16.396		
9,000.00	7,170.31	9,164.81	7,169.95	33.64	35.76	-89.98	-1,776.30	-1,261.81	1,089.28	1,020.10	69.18	15.745		
9,100.00	7,170.48	9,264.81	7,170.09	35.08	37.12	-89.98	-1,776.14	-1,361.81	1,089.44	1,017.46	71.99	15.134		
9,200.00	7,170.64	9,364.81	7,170.23	36.54	38.50	-89.98	-1,775.97	-1,461.81	1,089.61	1,014.77	74.84	14.560		
9,300.00	7,170.81	9,464.81	7,170.37	38.02	39.90	-89.98	-1,775.80	-1,561.81	1,089.77	1,012.05	77.73	14.021		
9,400.00	7,170.98	9,564.81	7,170.51	39.51	41.32	-89.98	-1,775.64	-1,661.80	1,089.94	1,009.28	80.65	13.514		
9,500.00	7,171.14	9,664.81	7,170.65	41.01	42.76	-89.97	-1,775.47	-1,761.80	1,090.10	1,006.49	83.61	13.038		
9,600.00	7,171.31	9,764.81	7,170.79	42.53	44.22	-89.97	-1,775.31	-1,861.80	1,090.26	1,003.67	86.59	12.591		
9,700.00	7,171.48	9,864.81	7,170.94	44.05	45.68	-89.97	-1,775.14	-1,961.80	1,090.43	1,000.83	89.60	12.170		
9,800.00	7,171.64	9,964.81	7,171.08	45.59	47.17	-89.97	-1,774.97	-2,061.80	1,090.59	997.96	92.63	11.773		
9,900.00	7,171.81	10,064.81	7,171.22	47.14	48.66	-89.97	-1,774.81	-2,161.80	1,090.76	995.07	95.69	11.399		
10,000.00	7,171.98	10,164.81	7,171.36	48.69	50.17	-89.97	-1,774.64	-2,261.80	1,090.92	992.16	98.76	11.046		
10,100.00	7,172.14	10,264.81	7,171.50	50.26	51.68	-89.97	-1,774.47	-2,361.80	1,091.08	989.23	101.85	10.713		
10,200.00	7,172.31	10,364.81	7,171.64	51.83	53.20	-89.97	-1,774.31	-2,461.80	1,091.25	986.29	104.96	10.397		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	7,172.48	10,464.81	7,171.78	53.40	54.74	-89.96	-1,774.14	-2,561.80	1,091.41	983.34	108.08	10.099	
10,400.00	7,172.64	10,564.81	7,171.93	54.98	56.28	-89.96	-1,773.97	-2,661.80	1,091.58	980.37	111.21	9.816	
10,500.00	7,172.81	10,664.81	7,172.07	56.57	57.82	-89.96	-1,773.81	-2,761.80	1,091.74	977.39	114.35	9.547	
10,600.00	7,172.98	10,764.81	7,172.21	58.16	59.38	-89.96	-1,773.64	-2,861.80	1,091.91	974.40	117.51	9.292	
10,700.00	7,173.14	10,864.81	7,172.35	59.75	60.94	-89.96	-1,773.47	-2,961.80	1,092.07	971.39	120.68	9.050	
10,800.00	7,173.31	10,964.81	7,172.49	61.35	62.50	-89.96	-1,773.31	-3,061.80	1,092.23	968.38	123.85	8.819	
10,900.00	7,173.48	11,064.81	7,172.63	62.96	64.07	-89.96	-1,773.14	-3,161.80	1,092.40	965.36	127.04	8.599	
11,000.00	7,173.65	11,164.81	7,172.77	64.56	65.65	-89.95	-1,772.97	-3,261.80	1,092.56	962.33	130.23	8.390	
11,100.00	7,173.81	11,264.81	7,172.91	66.17	67.23	-89.95	-1,772.81	-3,361.80	1,092.73	959.30	133.43	8.190	
11,200.00	7,173.98	11,364.81	7,173.06	67.79	68.81	-89.95	-1,772.64	-3,461.80	1,092.89	956.26	136.63	7.999	
11,300.00	7,174.15	11,464.81	7,173.20	69.40	70.40	-89.95	-1,772.47	-3,561.80	1,093.05	953.21	139.85	7.816	
11,400.00	7,174.31	11,564.81	7,173.34	71.02	71.99	-89.95	-1,772.31	-3,661.80	1,093.22	950.15	143.07	7.641	
11,500.00	7,174.48	11,664.81	7,173.48	72.64	73.59	-89.95	-1,772.14	-3,761.80	1,093.38	947.09	146.29	7.474	
11,600.00	7,174.65	11,764.81	7,173.62	74.26	75.19	-89.95	-1,771.97	-3,861.80	1,093.55	944.03	149.52	7.314	
11,700.00	7,174.81	11,864.81	7,173.76	75.89	76.79	-89.95	-1,771.81	-3,961.80	1,093.71	940.95	152.76	7.160	
11,800.00	7,174.98	11,964.81	7,173.90	77.51	78.39	-89.94	-1,771.64	-4,061.80	1,093.88	937.88	156.00	7.012	
11,900.00	7,175.15	12,064.81	7,174.04	79.14	80.00	-89.94	-1,771.47	-4,161.80	1,094.04	934.80	159.24	6.870	
12,000.00	7,175.31	12,164.81	7,174.19	80.77	81.61	-89.94	-1,771.31	-4,261.79	1,094.20	931.72	162.49	6.734	
12,100.00	7,175.48	12,264.81	7,174.33	82.40	83.22	-89.94	-1,771.14	-4,361.79	1,094.37	928.63	165.74	6.603	
12,200.00	7,175.65	12,364.81	7,174.47	84.04	84.83	-89.94	-1,770.97	-4,461.79	1,094.53	925.54	168.99	6.477	
12,300.00	7,175.81	12,464.81	7,174.61	85.67	86.45	-89.94	-1,770.81	-4,561.79	1,094.70	922.44	172.25	6.355	
12,400.00	7,175.98	12,564.81	7,174.75	87.31	88.07	-89.94	-1,770.64	-4,661.79	1,094.86	919.34	175.52	6.238	
12,500.00	7,176.15	12,664.81	7,174.89	88.95	89.69	-89.93	-1,770.47	-4,761.79	1,095.02	916.24	178.78	6.125	
12,600.00	7,176.31	12,764.81	7,175.03	90.59	91.31	-89.93	-1,770.31	-4,861.79	1,095.19	913.14	182.05	6.016	
12,700.00	7,176.48	12,864.81	7,175.18	92.23	92.94	-89.93	-1,770.14	-4,961.79	1,095.35	910.03	185.32	5.911	
12,800.00	7,176.65	12,964.81	7,175.32	93.87	94.56	-89.93	-1,769.97	-5,061.79	1,095.52	906.92	188.59	5.809	
12,900.00	7,176.81	13,064.81	7,175.46	95.51	96.19	-89.93	-1,769.81	-5,161.79	1,095.68	903.81	191.87	5.711	
13,000.00	7,176.98	13,164.81	7,175.60	97.15	97.82	-89.93	-1,769.64	-5,261.79	1,095.85	900.70	195.15	5.616	
13,100.00	7,177.15	13,264.81	7,175.74	98.80	99.45	-89.93	-1,769.47	-5,361.79	1,096.01	897.58	198.43	5.524	
13,200.00	7,177.31	13,364.81	7,175.88	100.44	101.08	-89.93	-1,769.31	-5,461.79	1,096.17	894.47	201.71	5.434	
13,300.00	7,177.48	13,464.81	7,176.02	102.09	102.71	-89.92	-1,769.14	-5,561.79	1,096.34	891.35	204.99	5.348	
13,400.00	7,177.65	13,564.81	7,176.16	103.74	104.34	-89.92	-1,768.97	-5,661.79	1,096.50	888.22	208.28	5.265	
13,500.00	7,177.81	13,664.81	7,176.31	105.38	105.98	-89.92	-1,768.81	-5,761.79	1,096.67	885.10	211.57	5.184	
13,600.00	7,177.98	13,764.81	7,176.45	107.03	107.62	-89.92	-1,768.64	-5,861.79	1,096.83	881.97	214.86	5.105	
13,700.00	7,178.15	13,864.81	7,176.59	108.68	109.25	-89.92	-1,768.47	-5,961.79	1,096.99	878.85	218.15	5.029	
13,800.00	7,178.31	13,964.81	7,176.73	110.33	110.89	-89.92	-1,768.31	-6,061.79	1,097.16	875.72	221.44	4.955	
13,900.00	7,178.48	14,064.81	7,176.87	111.98	112.53	-89.92	-1,768.14	-6,161.79	1,097.32	872.59	224.74	4.883	
14,000.00	7,178.65	14,164.81	7,177.01	113.63	114.17	-89.91	-1,767.97	-6,261.79	1,097.49	869.46	228.03	4.813	
14,100.00	7,178.81	14,264.80	7,177.15	115.29	115.81	-89.91	-1,767.81	-6,361.79	1,097.65	866.32	231.33	4.745	
14,200.00	7,178.98	14,364.80	7,177.30	116.94	117.45	-89.91	-1,767.64	-6,461.79	1,097.82	863.19	234.63	4.679	
14,300.00	7,179.15	14,464.80	7,177.44	118.59	119.09	-89.91	-1,767.47	-6,561.79	1,097.98	860.05	237.93	4.615	
14,400.00	7,179.31	14,564.80	7,177.58	120.24	120.74	-89.91	-1,767.31	-6,661.79	1,098.14	856.92	241.23	4.552	
14,500.00	7,179.48	14,664.80	7,177.72	121.90	122.38	-89.91	-1,767.14	-6,761.79	1,098.31	853.78	244.53	4.491	
14,600.00	7,179.65	14,764.80	7,177.86	123.55	124.03	-89.91	-1,766.98	-6,861.79	1,098.47	850.64	247.83	4.432	
14,700.00	7,179.82	14,864.80	7,178.00	125.21	125.67	-89.91	-1,766.81	-6,961.78	1,098.64	847.50	251.14	4.375	
14,800.00	7,179.98	14,964.80	7,178.14	126.86	127.32	-89.90	-1,766.64	-7,061.78	1,098.80	844.36	254.44	4.318	
14,900.00	7,180.15	15,064.80	7,178.28	128.52	128.97	-89.90	-1,766.48	-7,161.78	1,098.96	841.21	257.75	4.264	
15,000.00	7,180.32	15,164.80	7,178.43	130.17	130.61	-89.90	-1,766.31	-7,261.78	1,099.13	838.07	261.06	4.210	
15,100.00	7,180.48	15,264.80	7,178.57	131.83	132.26	-89.90	-1,766.14	-7,361.78	1,099.29	834.93	264.37	4.158	
15,200.00	7,180.65	15,364.80	7,178.71	133.49	133.91	-89.90	-1,765.98	-7,461.78	1,099.46	831.78	267.68	4.107	
15,300.00	7,180.82	15,464.80	7,178.85	135.15	135.56	-89.90	-1,765.81	-7,561.78	1,099.62	828.64	270.99	4.058	
15,400.00	7,180.98	15,564.80	7,178.99	136.80	137.21	-89.90	-1,765.64	-7,661.78	1,099.79	825.49	274.30	4.009	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,410.68	7,181.00	15,575.49	7,179.01	136.98	137.39	-89.90	-1,765.62	-7,672.47	1,099.80	825.15	274.65	4.004 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-79.78	0.56	79.78					
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-79.78	0.56	79.78	72.25	7.53	10.597		
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-79.78	0.56	79.78	72.21	7.57	10.534	CC, ES	
300.00	299.98	297.62	297.61	3.35	3.34	50.65	-81.23	1.38	80.16	72.50	7.65	10.476		
400.00	399.84	395.23	395.08	3.41	3.40	51.68	-85.56	3.85	81.29	73.54	7.76	10.478		
500.00	499.45	492.79	492.28	3.49	3.48	53.33	-92.77	7.95	83.25	75.34	7.91	10.526		
600.00	598.70	590.29	589.09	3.61	3.59	55.51	-102.85	13.69	86.09	77.99	8.11	10.618		
700.00	697.51	687.72	685.36	3.76	3.74	57.98	-115.77	21.05	90.06	81.69	8.37	10.764		
800.00	796.21	784.99	780.93	3.95	3.93	59.36	-131.51	30.00	96.48	87.80	8.68	11.111		
900.00	894.91	881.92	875.49	4.16	4.16	59.42	-149.98	40.52	105.57	96.52	9.05	11.667		
1,000.00	993.61	980.28	970.85	4.40	4.44	58.66	-170.95	52.46	116.75	107.27	9.48	12.320		
1,100.00	1,092.32	1,079.62	1,067.11	4.66	4.76	57.96	-192.31	64.61	128.10	118.15	9.96	12.867		
1,200.00	1,191.02	1,178.96	1,163.36	4.93	5.11	57.38	-213.66	76.77	139.48	129.01	10.47	13.324		
1,300.00	1,289.72	1,278.31	1,259.62	5.21	5.48	56.89	-235.01	88.92	150.86	139.85	11.01	13.704		
1,400.00	1,388.42	1,377.65	1,355.87	5.51	5.86	56.47	-256.37	101.08	162.25	150.68	11.57	14.023		
1,500.00	1,487.13	1,476.99	1,452.13	5.81	6.27	56.10	-277.72	113.23	173.65	161.50	12.15	14.287		
1,600.00	1,585.83	1,576.33	1,548.38	6.13	6.68	55.78	-299.08	125.39	185.06	172.31	12.75	14.509		
1,700.00	1,684.53	1,675.67	1,644.64	6.45	7.10	55.49	-320.43	137.54	196.47	183.11	13.37	14.696		
1,800.00	1,783.23	1,775.02	1,740.89	6.78	7.53	55.24	-341.78	149.70	207.89	193.90	14.00	14.854		
1,900.00	1,881.94	1,874.36	1,837.15	6.96	7.82	55.01	-363.14	161.85	219.31	205.33	13.99	15.681		
2,000.00	1,980.64	1,973.70	1,933.41	6.99	7.93	54.80	-384.49	174.01	230.73	216.65	14.08	16.387		
2,100.00	2,079.34	2,073.04	2,029.66	7.05	8.00	54.62	-405.84	186.16	242.16	227.99	14.17	17.094		
2,200.00	2,178.04	2,172.38	2,125.92	7.12	8.10	54.45	-427.20	198.32	253.59	239.30	14.29	17.749		
2,300.00	2,276.75	2,271.73	2,222.17	7.20	8.21	54.30	-448.55	210.47	265.02	250.58	14.44	18.352		
2,400.00	2,375.45	2,371.07	2,318.43	7.30	8.35	54.15	-469.91	222.63	276.45	261.82	14.63	18.901		
2,500.00	2,474.15	2,470.41	2,414.68	7.42	8.50	54.02	-491.26	234.79	287.89	273.04	14.84	19.396		
2,600.00	2,572.85	2,569.75	2,510.94	7.54	8.67	53.90	-512.61	246.94	299.32	284.23	15.09	19.838		
2,700.00	2,671.56	2,669.10	2,607.19	7.68	8.85	53.79	-533.97	259.10	310.76	295.39	15.36	20.230		
2,800.00	2,770.26	2,768.44	2,703.45	7.84	9.05	53.69	-555.32	271.25	322.19	306.53	15.66	20.574		
2,900.00	2,868.96	2,867.78	2,799.71	8.00	9.27	53.59	-576.67	283.41	333.63	317.65	15.98	20.873		
3,000.00	2,967.66	2,967.12	2,895.96	8.18	9.49	53.50	-598.03	295.56	345.07	328.74	16.33	21.131		
3,100.00	3,066.37	3,066.46	2,992.22	8.36	9.73	53.42	-619.38	307.72	356.51	339.81	16.70	21.350		
3,200.00	3,165.07	3,165.81	3,088.47	8.56	9.98	53.34	-640.74	319.87	367.95	350.86	17.09	21.534		
3,300.00	3,263.77	3,265.15	3,184.73	8.76	10.24	53.26	-662.09	332.03	379.39	361.90	17.49	21.687		
3,400.00	3,362.47	3,364.49	3,280.98	8.97	10.51	53.20	-683.44	344.18	390.83	372.92	17.92	21.813		
3,500.00	3,461.18	3,463.83	3,377.24	9.19	10.79	53.13	-704.80	356.34	402.28	383.92	18.36	21.913		
3,600.00	3,559.88	3,563.18	3,473.49	9.42	11.07	53.07	-726.15	368.49	413.72	394.91	18.81	21.991		
3,700.00	3,658.58	3,662.52	3,569.75	9.65	11.37	53.01	-747.51	380.65	425.16	405.88	19.28	22.049		
3,800.00	3,757.28	3,761.86	3,666.01	9.89	11.67	52.95	-768.86	392.80	436.61	416.84	19.76	22.091		
3,900.00	3,855.99	3,861.20	3,762.26	10.14	11.97	52.90	-790.21	404.96	448.05	427.79	20.26	22.118		
4,000.00	3,954.69	3,960.54	3,858.52	10.39	12.29	52.85	-811.57	417.11	459.49	438.73	20.76	22.131		
4,100.00	4,053.39	4,059.89	3,954.77	10.65	12.61	52.80	-832.92	429.27	470.94	449.66	21.28	22.134		
4,200.00	4,152.09	4,159.23	4,051.03	10.91	12.93	52.76	-854.27	441.43	482.38	460.58	21.80	22.127		
4,300.00	4,250.79	4,258.57	4,147.28	11.17	13.26	52.71	-875.63	453.58	493.83	471.50	22.33	22.111		
4,400.00	4,349.50	4,357.91	4,243.54	11.44	13.59	52.67	-896.98	465.74	505.28	482.40	22.87	22.089		
4,500.00	4,448.20	4,457.25	4,339.80	11.71	13.93	52.63	-918.34	477.89	516.72	493.30	23.42	22.060		
4,600.00	4,546.90	4,556.60	4,436.05	11.99	14.27	52.59	-939.69	490.05	528.17	504.19	23.98	22.027		
4,700.00	4,645.60	4,655.94	4,532.31	12.27	14.62	52.56	-961.04	502.20	539.61	515.07	24.54	21.989		
4,800.00	4,744.31	4,755.28	4,628.56	12.55	14.97	52.52	-982.40	514.36	551.06	525.95	25.11	21.947		
4,900.00	4,843.01	4,854.62	4,724.82	12.84	15.32	52.49	-1,003.75	526.51	562.51	536.82	25.68	21.903		
5,000.00	4,941.71	4,953.97	4,821.07	13.12	15.67	52.46	-1,025.10	538.67	573.95	547.69	26.26	21.856		
5,100.00	5,040.41	5,053.31	4,917.33	13.41	16.03	52.42	-1,046.46	550.82	585.40	558.56	26.84	21.807		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-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	5,139.12	5,152.65	5,013.58	13.71	16.39	52.39	-1,067.81	562.98	596.85	569.41	27.43	21.756		
5,300.00	5,237.82	5,251.99	5,109.84	14.00	16.75	52.37	-1,089.17	575.13	608.30	580.27	28.03	21.705		
5,400.00	5,336.52	5,351.33	5,206.10	14.30	17.11	52.34	-1,110.52	587.29	619.74	591.12	28.62	21.652		
5,500.00	5,435.22	5,450.68	5,302.35	14.60	17.48	52.31	-1,131.87	599.44	631.19	601.97	29.22	21.599		
5,600.00	5,533.93	5,550.02	5,398.61	14.90	17.85	52.29	-1,153.23	611.60	642.64	612.81	29.83	21.545		
5,700.00	5,632.63	5,649.36	5,494.86	15.20	18.22	52.26	-1,174.58	623.75	654.09	623.65	30.44	21.491		
5,800.00	5,731.33	5,748.70	5,591.12	15.50	18.59	52.24	-1,195.93	635.91	665.53	634.49	31.05	21.437		
5,900.00	5,830.03	5,848.05	5,687.37	15.81	18.96	52.22	-1,217.29	648.07	676.98	645.32	31.66	21.383		
6,000.00	5,928.74	5,947.39	5,783.63	16.11	19.34	52.19	-1,238.64	660.22	688.43	656.16	32.28	21.330		
6,100.00	6,027.44	6,046.73	5,879.88	16.42	19.71	52.17	-1,260.00	672.38	699.88	666.98	32.89	21.276		
6,200.00	6,126.14	6,146.07	5,976.14	16.73	20.09	52.15	-1,281.35	684.53	711.33	677.81	33.52	21.223		
6,300.00	6,224.84	6,245.41	6,072.40	17.04	20.47	52.13	-1,302.70	696.69	722.78	688.64	34.14	21.171		
6,400.00	6,323.55	6,344.76	6,168.65	17.35	20.85	52.11	-1,324.06	708.84	734.23	699.46	34.77	21.119		
6,500.00	6,422.25	6,444.10	6,264.91	17.67	21.23	52.09	-1,345.41	721.00	745.67	710.28	35.39	21.068		
6,600.00	6,521.26	6,543.33	6,361.05	17.91	21.61	13.65	-1,366.74	733.14	757.03	721.08	35.95	21.059		
6,700.00	6,620.47	6,640.93	6,455.63	18.07	21.99	-51.24	-1,387.72	745.08	768.09	731.79	36.30	21.157		
6,800.00	6,717.57	6,734.76	6,546.54	18.18	22.34	-70.09	-1,407.89	756.53	779.64	743.14	36.49	21.364		
6,900.00	6,810.17	6,832.30	6,641.61	18.24	22.60	-78.04	-1,428.97	760.01	792.55	755.98	36.57	21.673		
7,000.00	6,895.98	6,936.95	6,742.90	18.27	22.81	-82.78	-1,451.40	747.19	806.59	769.96	36.63	22.021		
7,100.00	6,972.90	7,050.31	6,848.69	18.27	22.99	-86.20	-1,474.79	714.36	821.23	784.54	36.69	22.385		
7,200.00	7,039.03	7,174.05	6,955.68	18.25	23.11	-88.92	-1,498.42	657.25	835.72	798.96	36.76	22.736		
7,300.00	7,092.74	7,309.57	7,058.05	18.23	23.17	-91.16	-1,520.97	571.77	849.10	812.21	36.88	23.021		
7,400.00	7,132.71	7,457.32	7,146.81	18.23	23.15	-92.91	-1,540.46	455.70	860.22	823.05	37.17	23.140		
7,500.00	7,157.96	7,615.93	7,210.35	18.28	23.06	-94.10	-1,554.32	311.48	867.93	830.14	37.79	22.967		
7,600.00	7,167.85	7,781.57	7,237.52	18.46	22.89	-94.60	-1,560.08	148.67	871.27	832.42	38.84	22.431		
7,700.00	7,168.14	7,908.05	7,237.89	18.86	22.78	-94.59	-1,559.99	38.29	871.46	831.48	39.98	21.799		
7,800.00	7,168.31	8,008.05	7,237.76	19.49	22.77	-94.57	-1,559.80	-61.71	871.58	830.35	41.23	21.139		
7,900.00	7,168.48	8,108.05	7,237.63	20.27	23.04	-94.55	-1,559.61	-161.71	871.70	828.98	42.71	20.408		
8,000.00	7,168.64	8,208.05	7,237.50	21.18	23.74	-94.53	-1,559.43	-261.71	871.82	827.42	44.40	19.635		
8,100.00	7,168.81	8,308.05	7,237.38	22.18	24.64	-94.51	-1,559.24	-361.71	871.94	825.67	46.27	18.844		
8,200.00	7,168.98	8,408.05	7,237.25	23.25	25.65	-94.49	-1,559.05	-461.71	872.06	823.76	48.30	18.054		
8,300.00	7,169.14	8,508.05	7,237.12	24.40	26.72	-94.47	-1,558.87	-561.71	872.18	821.70	50.47	17.280		
8,400.00	7,169.31	8,608.06	7,236.99	25.60	27.85	-94.45	-1,558.68	-661.71	872.30	819.53	52.77	16.530		
8,500.00	7,169.48	8,691.94	7,236.86	26.85	28.84	-94.43	-1,558.49	-761.70	872.42	817.44	54.98	15.867		
8,600.00	7,169.64	8,808.06	7,236.73	28.14	30.26	-94.41	-1,558.31	-861.70	872.54	814.87	57.67	15.129		
8,700.00	7,169.81	8,908.06	7,236.61	29.47	31.52	-94.39	-1,558.12	-961.70	872.66	812.41	60.25	14.483		
8,800.00	7,169.98	9,008.06	7,236.48	30.83	32.82	-94.37	-1,557.93	-1,061.70	872.78	809.88	62.91	13.874		
8,900.00	7,170.14	9,108.06	7,236.35	32.23	34.15	-94.35	-1,557.75	-1,161.70	872.90	807.28	65.62	13.302		
9,000.00	7,170.31	9,208.06	7,236.22	33.64	35.51	-94.33	-1,557.56	-1,261.70	873.03	804.63	68.40	12.764		
9,100.00	7,170.48	9,308.06	7,236.09	35.08	36.89	-94.31	-1,557.37	-1,361.70	873.15	801.93	71.22	12.260		
9,200.00	7,170.64	9,408.06	7,235.96	36.54	38.29	-94.29	-1,557.19	-1,461.70	873.27	799.18	74.08	11.787		
9,300.00	7,170.81	9,508.06	7,235.84	38.02	39.72	-94.27	-1,557.00	-1,561.70	873.39	796.40	76.99	11.344		
9,400.00	7,170.98	9,608.06	7,235.71	39.51	41.16	-94.25	-1,556.81	-1,661.70	873.51	793.58	79.93	10.929		
9,500.00	7,171.14	9,708.06	7,235.58	41.01	42.62	-94.23	-1,556.63	-1,761.70	873.63	790.73	82.90	10.539		
9,600.00	7,171.31	9,808.06	7,235.45	42.53	44.09	-94.21	-1,556.44	-1,861.70	873.76	787.86	85.90	10.172		
9,700.00	7,171.48	9,908.06	7,235.32	44.05	45.58	-94.19	-1,556.25	-1,961.70	873.88	784.96	88.92	9.828		
9,800.00	7,171.64	10,008.06	7,235.19	45.59	47.08	-94.17	-1,556.07	-2,061.69	874.00	782.04	91.96	9.504		
9,900.00	7,171.81	10,108.06	7,235.07	47.14	48.58	-94.15	-1,555.88	-2,161.69	874.12	779.09	95.03	9.198		
10,000.00	7,171.98	10,208.06	7,234.94	48.69	50.10	-94.13	-1,555.69	-2,261.69	874.24	776.13	98.11	8.911		
10,100.00	7,172.14	10,308.06	7,234.81	50.26	51.63	-94.11	-1,555.51	-2,361.69	874.37	773.15	101.21	8.639		
10,200.00	7,172.31	10,408.07	7,234.68	51.83	53.17	-94.09	-1,555.32	-2,461.69	874.49	770.16	104.33	8.382		
10,300.00	7,172.48	10,508.07	7,234.55	53.40	54.71	-94.07	-1,555.13	-2,561.69	874.61	767.15	107.46	8.139		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,172.64	10,608.07	7,234.42	54.98	56.26	-94.05	-1,554.95	-2,661.69	874.73	764.14	110.60	7.909	
10,500.00	7,172.81	10,708.07	7,234.30	56.57	57.82	-94.03	-1,554.76	-2,761.69	874.86	761.10	113.75	7.691	
10,600.00	7,172.98	10,791.93	7,234.17	58.16	59.13	-94.01	-1,554.57	-2,861.69	874.98	758.32	116.66	7.500	
10,700.00	7,173.14	10,908.07	7,234.04	59.75	60.95	-93.99	-1,554.39	-2,961.69	875.10	755.01	120.09	7.287	
10,800.00	7,173.31	11,008.07	7,233.91	61.35	62.53	-93.97	-1,554.20	-3,061.69	875.23	751.95	123.28	7.100	
10,900.00	7,173.48	11,108.07	7,233.78	62.96	64.11	-93.95	-1,554.01	-3,161.69	875.35	748.88	126.47	6.922	
11,000.00	7,173.65	11,208.07	7,233.65	64.56	65.69	-93.93	-1,553.83	-3,261.68	875.47	745.81	129.67	6.752	
11,100.00	7,173.81	11,308.07	7,233.53	66.17	67.28	-93.91	-1,553.64	-3,361.68	875.60	742.72	132.87	6.590	
11,200.00	7,173.98	11,408.07	7,233.40	67.79	68.87	-93.89	-1,553.45	-3,461.68	875.72	739.63	136.09	6.435	
11,300.00	7,174.15	11,508.07	7,233.27	69.40	70.46	-93.87	-1,553.27	-3,561.68	875.84	736.54	139.31	6.287	
11,400.00	7,174.31	11,608.07	7,233.14	71.02	72.06	-93.85	-1,553.08	-3,661.68	875.97	733.44	142.53	6.146	
11,500.00	7,174.48	11,708.07	7,233.01	72.64	73.66	-93.83	-1,552.89	-3,761.68	876.09	730.33	145.76	6.010	
11,600.00	7,174.65	11,808.07	7,232.88	74.26	75.27	-93.81	-1,552.71	-3,861.68	876.22	727.22	149.00	5.881	
11,700.00	7,174.81	11,908.07	7,232.76	75.89	76.88	-93.79	-1,552.52	-3,961.68	876.34	724.10	152.24	5.756	
11,800.00	7,174.98	12,008.07	7,232.63	77.51	78.49	-93.77	-1,552.33	-4,061.68	876.46	720.98	155.49	5.637	
11,900.00	7,175.15	12,108.07	7,232.50	79.14	80.10	-93.75	-1,552.15	-4,161.68	876.59	717.85	158.74	5.522	
12,000.00	7,175.31	12,208.07	7,232.37	80.77	81.72	-93.73	-1,551.96	-4,261.68	876.71	714.72	161.99	5.412	
12,100.00	7,175.48	12,308.08	7,232.24	82.40	83.33	-93.71	-1,551.77	-4,361.68	876.84	711.59	165.25	5.306	
12,200.00	7,175.65	12,408.08	7,232.11	84.04	84.95	-93.69	-1,551.59	-4,461.68	876.96	708.45	168.51	5.204	
12,300.00	7,175.81	12,508.08	7,231.99	85.67	86.57	-93.67	-1,551.40	-4,561.67	877.09	705.32	171.77	5.106	
12,400.00	7,175.98	12,608.08	7,231.86	87.31	88.20	-93.65	-1,551.21	-4,661.67	877.21	702.17	175.04	5.011	
12,500.00	7,176.15	12,708.08	7,231.73	88.95	89.82	-93.63	-1,551.03	-4,761.67	877.34	699.03	178.31	4.920	
12,600.00	7,176.31	12,808.08	7,231.60	90.59	91.45	-93.61	-1,550.84	-4,861.67	877.46	695.88	181.58	4.832	
12,700.00	7,176.48	12,908.08	7,231.47	92.23	93.08	-93.59	-1,550.65	-4,961.67	877.59	692.73	184.86	4.747	
12,800.00	7,176.65	13,008.08	7,231.35	93.87	94.70	-93.57	-1,550.46	-5,061.67	877.71	689.58	188.14	4.665	
12,900.00	7,176.81	13,108.08	7,231.22	95.51	96.34	-93.55	-1,550.28	-5,161.67	877.84	686.42	191.42	4.586	
13,000.00	7,176.98	13,208.08	7,231.09	97.15	97.97	-93.53	-1,550.09	-5,261.67	877.96	683.26	194.70	4.509	
13,100.00	7,177.15	13,308.08	7,230.96	98.80	99.60	-93.51	-1,549.90	-5,361.67	878.09	680.10	197.99	4.435	
13,200.00	7,177.31	13,408.08	7,230.83	100.44	101.24	-93.49	-1,549.72	-5,461.67	878.22	676.94	201.27	4.363	
13,300.00	7,177.48	13,508.08	7,230.70	102.09	102.87	-93.47	-1,549.53	-5,561.67	878.34	673.78	204.56	4.294	
13,400.00	7,177.65	13,608.08	7,230.58	103.74	104.51	-93.45	-1,549.34	-5,661.67	878.47	670.61	207.86	4.226	
13,500.00	7,177.81	13,708.08	7,230.45	105.38	106.15	-93.43	-1,549.16	-5,761.67	878.59	667.44	211.15	4.161	
13,600.00	7,177.98	13,808.08	7,230.32	107.03	107.79	-93.41	-1,548.97	-5,861.66	878.72	664.28	214.44	4.098	
13,700.00	7,178.15	13,908.08	7,230.19	108.68	109.43	-93.40	-1,548.78	-5,961.66	878.85	661.11	217.74	4.036	
13,800.00	7,178.31	14,008.08	7,230.06	110.33	111.07	-93.38	-1,548.60	-6,061.66	878.97	657.93	221.04	3.977	
13,900.00	7,178.48	14,108.09	7,229.93	111.98	112.71	-93.36	-1,548.41	-6,161.66	879.10	654.76	224.34	3.919	
14,000.00	7,178.65	14,208.09	7,229.81	113.63	114.35	-93.34	-1,548.22	-6,261.66	879.23	651.59	227.64	3.862	
14,100.00	7,178.81	14,308.09	7,229.68	115.29	116.00	-93.32	-1,548.04	-6,361.66	879.35	648.41	230.94	3.808	
14,200.00	7,178.98	14,391.91	7,229.55	116.94	117.38	-93.30	-1,547.85	-6,461.66	879.48	645.50	233.98	3.759	
14,300.00	7,179.15	14,508.09	7,229.42	118.59	119.29	-93.28	-1,547.66	-6,561.66	879.61	642.06	237.55	3.703	
14,400.00	7,179.31	14,608.09	7,229.29	120.24	120.93	-93.26	-1,547.48	-6,661.66	879.73	638.88	240.85	3.653	
14,500.00	7,179.48	14,708.09	7,229.16	121.90	122.58	-93.24	-1,547.29	-6,761.66	879.86	635.70	244.16	3.604	
14,600.00	7,179.65	14,808.09	7,229.04	123.55	124.23	-93.22	-1,547.10	-6,861.66	879.99	632.52	247.47	3.556	
14,700.00	7,179.82	14,891.91	7,228.91	125.21	125.61	-93.20	-1,546.92	-6,961.66	880.11	629.60	250.51	3.513	
14,800.00	7,179.98	15,008.09	7,228.78	126.86	127.52	-93.18	-1,546.73	-7,061.65	880.24	626.15	254.09	3.464	
14,900.00	7,180.15	15,108.09	7,228.65	128.52	129.17	-93.16	-1,546.54	-7,161.65	880.37	622.97	257.40	3.420	
15,000.00	7,180.32	15,208.09	7,228.52	130.17	130.82	-93.14	-1,546.36	-7,261.65	880.50	619.78	260.71	3.377	
15,100.00	7,180.48	15,308.09	7,228.39	131.83	132.47	-93.12	-1,546.17	-7,361.65	880.62	616.60	264.03	3.335	
15,200.00	7,180.65	15,408.09	7,228.27	133.49	134.12	-93.10	-1,545.98	-7,461.65	880.75	613.41	267.34	3.294	
15,300.00	7,180.82	15,508.09	7,228.14	135.15	135.77	-93.08	-1,545.80	-7,561.65	880.88	610.22	270.66	3.255	
15,400.00	7,180.98	15,591.91	7,228.01	136.80	137.16	-93.06	-1,545.61	-7,661.65	881.01	607.30	273.70	3.219	
15,410.68	7,181.00	15,602.59	7,228.00	136.98	137.33	-93.06	-1,545.59	-7,672.33	881.02	606.96	274.06	3.215 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-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	-118.39	-80.87	-149.61	170.07					
100.00	100.00	101.00	101.00	3.28	3.28	-118.39	-80.87	-149.61	170.07	162.54	7.53	22.589		
200.00	200.00	201.00	201.00	3.31	3.31	-118.39	-80.87	-149.61	170.07	162.50	7.57	22.454	CC, ES	
300.00	299.98	297.96	297.94	3.35	3.34	112.32	-82.55	-149.70	171.63	163.98	7.65	22.429		
400.00	399.84	394.81	394.66	3.41	3.40	112.39	-87.49	-149.94	176.27	168.50	7.77	22.697		
500.00	499.45	491.39	490.89	3.49	3.48	112.49	-95.66	-150.35	183.97	176.04	7.93	23.201		
600.00	598.70	587.57	586.39	3.61	3.58	112.61	-107.02	-150.92	194.72	186.57	8.15	23.893		
700.00	697.51	683.23	680.94	3.76	3.72	112.77	-121.48	-151.64	208.40	199.96	8.43	24.711		
800.00	796.21	778.38	774.46	3.95	3.90	112.49	-138.99	-152.51	223.99	215.22	8.77	25.529		
900.00	894.91	875.14	869.02	4.16	4.12	111.67	-159.46	-153.53	241.02	231.84	9.18	26.264		
1,000.00	993.61	973.58	965.16	4.40	4.37	110.88	-180.61	-154.58	258.26	248.63	9.64	26.799		
1,100.00	1,092.32	1,072.03	1,061.30	4.66	4.66	110.20	-201.76	-155.63	275.55	265.41	10.14	27.178		
1,200.00	1,191.02	1,170.47	1,157.44	4.93	4.96	109.59	-222.90	-156.69	292.87	282.20	10.68	27.435		
1,300.00	1,289.72	1,268.92	1,253.58	5.21	5.28	109.06	-244.05	-157.74	310.22	298.98	11.24	27.597		
1,400.00	1,388.42	1,367.36	1,349.72	5.51	5.61	108.58	-265.20	-158.79	327.59	315.76	11.83	27.691		
1,500.00	1,487.13	1,465.80	1,445.86	5.81	5.96	108.14	-286.34	-159.84	344.98	332.54	12.44	27.729		
1,600.00	1,585.83	1,564.25	1,542.00	6.13	6.32	107.75	-307.49	-160.90	362.39	349.32	13.07	27.728		
1,700.00	1,684.53	1,662.69	1,638.14	6.45	6.68	107.40	-328.64	-161.95	379.82	366.10	13.71	27.699		
1,800.00	1,783.23	1,761.14	1,734.28	6.78	7.06	107.08	-349.78	-163.00	397.25	382.89	14.37	27.649		
1,900.00	1,881.94	1,859.58	1,830.42	6.96	7.33	106.78	-370.93	-164.06	414.70	400.29	14.41	28.782		
2,000.00	1,980.64	1,958.03	1,925.56	6.99	7.45	106.51	-392.08	-165.11	432.16	417.62	14.54	29.717		
2,100.00	2,079.34	2,056.47	2,022.70	7.05	7.51	106.25	-413.23	-166.16	449.63	434.98	14.64	30.706		
2,200.00	2,178.04	2,154.91	2,118.84	7.12	7.59	106.02	-434.37	-167.21	467.10	452.32	14.78	31.609		
2,300.00	2,276.75	2,253.36	2,214.99	7.20	7.69	105.81	-455.52	-168.27	484.58	469.64	14.94	32.427		
2,400.00	2,375.45	2,351.80	2,311.13	7.30	7.81	105.61	-476.67	-169.32	502.07	486.93	15.14	33.157		
2,500.00	2,474.15	2,450.25	2,407.27	7.42	7.94	105.42	-497.81	-170.37	519.56	504.19	15.37	33.804		
2,600.00	2,572.85	2,548.69	2,503.41	7.54	8.09	105.24	-518.96	-171.43	537.06	521.44	15.63	34.368		
2,700.00	2,671.56	2,647.14	2,599.55	7.68	8.25	105.08	-540.11	-172.48	554.57	538.65	15.91	34.855		
2,800.00	2,770.26	2,745.58	2,695.69	7.84	8.42	104.93	-561.25	-173.53	572.07	555.85	16.22	35.269		
2,900.00	2,868.96	2,844.02	2,791.83	8.00	8.61	104.78	-582.40	-174.58	589.58	573.03	16.55	35.616		
3,000.00	2,967.66	2,942.47	2,887.97	8.18	8.81	104.64	-603.55	-175.64	607.10	590.19	16.91	35.901		
3,100.00	3,066.37	3,040.91	2,984.11	8.36	9.03	104.52	-624.69	-176.69	624.61	607.33	17.29	36.130		
3,200.00	3,165.07	3,139.36	3,080.25	8.56	9.25	104.39	-645.84	-177.74	642.14	624.45	17.69	36.309		
3,300.00	3,263.77	3,237.80	3,176.39	8.76	9.48	104.28	-666.99	-178.80	659.66	641.56	18.10	36.443		
3,400.00	3,362.47	3,336.25	3,272.53	8.97	9.72	104.17	-688.13	-179.85	677.18	658.65	18.53	36.537		
3,500.00	3,461.18	3,434.69	3,368.67	9.19	9.97	104.07	-709.28	-180.90	694.71	675.73	18.98	36.596		
3,600.00	3,559.88	3,533.13	3,464.81	9.42	10.23	103.97	-730.43	-181.96	712.24	692.79	19.45	36.624		
3,700.00	3,658.58	3,631.58	3,560.95	9.65	10.50	103.87	-751.57	-183.01	729.77	709.85	19.92	36.626		
3,800.00	3,757.28	3,730.02	3,657.09	9.89	10.77	103.78	-772.72	-184.06	747.31	726.89	20.42	36.605		
3,900.00	3,855.99	3,828.47	3,753.23	10.14	11.05	103.70	-793.87	-185.11	764.84	743.92	20.92	36.565		
4,000.00	3,954.69	3,926.91	3,849.37	10.39	11.33	103.62	-815.02	-186.17	782.38	760.95	21.43	36.508		
4,100.00	4,053.39	4,025.36	3,945.51	10.65	11.62	103.54	-836.16	-187.22	799.92	777.96	21.95	36.436		
4,200.00	4,152.09	4,123.80	4,041.65	10.91	11.91	103.46	-857.31	-188.27	817.46	794.97	22.49	36.353		
4,300.00	4,250.79	4,222.24	4,137.79	11.17	12.21	103.39	-878.46	-189.33	835.00	811.97	23.03	36.260		
4,400.00	4,349.50	4,320.69	4,233.93	11.44	12.52	103.32	-899.60	-190.38	852.54	828.96	23.58	36.158		
4,500.00	4,448.20	4,419.13	4,330.08	11.71	12.82	103.26	-920.75	-191.43	870.08	845.95	24.14	36.050		
4,600.00	4,546.90	4,517.58	4,426.22	11.99	13.13	103.19	-941.90	-192.48	887.63	862.93	24.70	35.937		
4,700.00	4,645.60	4,616.02	4,522.36	12.27	13.45	103.13	-963.04	-193.54	905.17	879.90	25.27	35.819		
4,800.00	4,744.31	4,714.47	4,618.50	12.55	13.76	103.07	-984.19	-194.59	922.72	896.87	25.85	35.699		
4,900.00	4,843.01	4,812.91	4,714.64	12.84	14.08	103.02	-1,005.34	-195.64	940.27	913.84	26.43	35.575		
5,000.00	4,941.71	4,911.35	4,810.78	13.12	14.41	102.96	-1,026.48	-196.70	957.81	930.80	27.02	35.450		
5,100.00	5,040.41	5,009.80	4,906.92	13.41	14.73	102.91	-1,047.63	-197.75	975.36	947.75	27.61	35.324		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-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 Design5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
5,200.00	5,139.12	5,108.24	5,003.06	13.71	15.06	102.86	-1,068.78	-198.80	992.91	964.70	28.21	35.198	
5,300.00	5,237.82	5,206.69	5,099.20	14.00	15.39	102.81	-1,089.92	-199.85	1,010.46	981.65	28.81	35.071	
5,400.00	5,336.52	5,305.13	5,195.34	14.30	15.72	102.77	-1,111.07	-200.91	1,028.01	998.60	29.42	34.945	
5,500.00	5,435.22	5,403.58	5,291.48	14.60	16.06	102.72	-1,132.22	-201.96	1,045.57	1,015.54	30.03	34.819	
5,600.00	5,533.93	5,502.02	5,387.62	14.90	16.39	102.68	-1,153.36	-203.01	1,063.12	1,032.48	30.64	34.694	
5,700.00	5,632.63	5,600.46	5,483.76	15.20	16.73	102.63	-1,174.51	-204.07	1,080.67	1,049.41	31.26	34.571	
5,800.00	5,731.33	5,698.91	5,579.90	15.50	17.07	102.59	-1,195.66	-205.12	1,098.23	1,066.35	31.88	34.449	
5,900.00	5,830.03	5,802.65	5,676.04	15.81	17.43	102.55	-1,216.81	-206.17	1,115.78	1,083.26	32.52	34.309	
6,000.00	5,928.74	5,904.20	5,772.18	16.11	17.79	102.51	-1,237.95	-207.22	1,133.33	1,100.18	33.16	34.180	
6,100.00	6,027.44	6,005.76	5,868.32	16.42	18.14	102.48	-1,259.10	-208.28	1,150.89	1,117.09	33.80	34.053	
6,200.00	6,126.14	6,107.31	5,964.46	16.73	18.50	102.44	-1,280.25	-209.33	1,168.44	1,134.00	34.44	33.927	
6,300.00	6,224.84	6,208.87	6,060.60	17.04	18.85	102.40	-1,301.39	-210.38	1,186.00	1,150.92	35.08	33.804	
6,500.00	6,422.25	8,011.12	7,158.61	17.67	25.54	57.34	-1,545.77	752.56	1,184.42	1,150.19	34.23	34.605	
6,600.00	6,521.26	8,020.04	7,158.60	17.91	25.62	12.63	-1,545.79	761.49	1,117.25	1,081.91	35.34	31.613	
6,700.00	6,620.47	8,014.19	7,158.60	18.07	25.57	-58.66	-1,545.78	755.64	1,055.10	1,018.75	36.36	29.021	
6,800.00	6,717.57	7,992.82	7,158.63	18.18	25.38	-80.73	-1,545.72	734.26	1,000.21	962.99	37.22	26.876	
6,900.00	6,810.17	7,956.44	7,158.67	18.24	25.08	-89.40	-1,545.62	697.89	954.25	916.38	37.87	25.197	
7,000.00	6,895.98	7,905.95	7,158.73	18.27	24.68	-93.10	-1,545.49	647.40	918.07	879.81	38.26	23.995	
7,100.00	6,972.90	7,842.61	7,158.81	18.27	24.23	-94.15	-1,545.32	584.05	891.51	853.09	38.42	23.204	
7,200.00	7,039.03	7,767.95	7,158.90	18.25	23.77	-93.66	-1,545.12	509.40	873.53	835.15	38.37	22.764	
7,300.00	7,092.74	7,683.84	7,159.00	18.23	23.35	-92.39	-1,544.89	425.28	862.43	824.22	38.20	22.574	
7,400.00	7,132.71	7,551.36	7,146.51	18.23	22.84	-89.28	-1,541.76	293.67	854.18	816.15	38.03	22.458	
7,500.00	7,157.96	7,433.99	7,113.45	18.28	22.51	-86.11	-1,534.16	181.49	846.39	808.39	38.00	22.273	
7,600.00	7,167.85	7,329.84	7,067.71	18.46	22.26	-83.00	-1,523.82	88.62	839.87	801.78	38.09	22.048	
7,700.00	7,168.14	7,239.35	7,016.41	18.86	22.04	-79.46	-1,512.32	15.06	835.45	797.10	38.35	21.784	
7,752.02	7,168.23	7,199.23	6,990.51	19.18	21.95	-77.64	-1,506.54	-15.01	834.74	796.16	38.59	21.633	
7,800.00	7,168.31	7,166.01	6,967.69	19.49	21.86	-76.03	-1,501.45	-38.62	835.43	796.60	38.83	21.516	
7,900.00	7,168.48	7,106.86	6,924.21	20.27	21.72	-72.98	-1,491.77	-77.50	841.86	802.36	39.50	21.314	
8,000.00	7,168.64	7,058.93	6,886.51	21.18	21.59	-70.36	-1,483.39	-105.86	856.07	815.75	40.32	21.233 SF	
8,100.00	7,168.81	7,019.71	6,854.17	22.18	21.49	-68.13	-1,476.22	-126.86	878.70	837.46	41.24	21.308	
8,200.00	7,168.98	6,987.25	6,826.50	23.25	21.40	-66.25	-1,470.08	-142.67	909.78	867.60	42.18	21.568	
8,300.00	7,169.14	6,960.08	6,802.76	24.40	21.33	-64.65	-1,464.82	-154.78	948.97	905.88	43.09	22.023	
8,400.00	7,169.31	6,937.09	6,782.28	25.60	21.26	-63.29	-1,460.29	-164.20	995.61	951.69	43.92	22.667	
8,500.00	7,169.48	6,917.42	6,764.51	26.85	21.21	-62.13	-1,456.36	-171.66	1,048.94	1,004.28	44.66	23.487	
8,600.00	7,169.64	6,900.00	6,748.60	28.14	21.16	-61.09	-1,452.84	-177.80	1,108.13	1,062.84	45.29	24.467	
8,700.00	7,169.81	6,885.64	6,735.35	29.47	21.12	-60.24	-1,449.91	-182.52	1,172.42	1,126.60	45.82	25.585	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-124.05	-100.91	-149.34	180.24				
100.00	100.00	101.00	101.00	3.28	3.28	-124.05	-100.91	-149.34	180.24	172.71	7.53	23.939	
200.00	200.00	201.00	201.00	3.31	3.31	-124.05	-100.91	-149.34	180.24	172.66	7.57	23.796 CC, ES	
300.00	299.98	297.33	297.32	3.35	3.34	-106.71	-102.57	-149.41	181.76	174.10	7.65	23.753 SF	
400.00	399.84	393.57	393.42	3.41	3.40	-106.90	-107.44	-149.62	186.28	178.51	7.76	23.992	
500.00	499.45	489.54	489.05	3.49	3.48	-107.20	-115.52	-149.96	193.79	185.87	7.93	24.452	
600.00	598.70	585.13	583.97	3.61	3.58	-107.57	-126.74	-150.44	204.29	196.15	8.14	25.090	
700.00	697.51	680.21	677.96	3.76	3.72	-108.02	-141.03	-151.05	217.68	209.26	8.42	25.847	
800.00	796.21	774.80	770.95	3.95	3.89	-108.06	-158.33	-151.79	233.15	224.39	8.76	26.620	
900.00	894.91	868.75	862.70	4.16	4.11	-107.50	-178.54	-152.66	250.46	241.31	9.15	27.374	
1,000.00	993.61	962.94	953.97	4.40	4.36	-106.48	-201.74	-153.65	269.63	260.03	9.59	28.106	
1,100.00	1,092.32	1,060.81	1,048.58	4.66	4.67	-105.39	-226.80	-154.72	289.47	279.37	10.11	28.646	
1,200.00	1,191.02	1,158.69	1,143.18	4.93	5.00	-104.45	-251.87	-155.80	309.40	298.75	10.65	29.039	
1,300.00	1,289.72	1,256.56	1,237.79	5.21	5.35	-103.62	-276.93	-156.87	329.41	318.17	11.24	29.318	
1,400.00	1,388.42	1,354.43	1,332.39	5.51	5.73	-102.88	-301.99	-157.94	349.47	337.63	11.84	29.513	
1,500.00	1,487.13	1,452.31	1,427.00	5.81	6.11	-102.23	-327.05	-159.01	369.58	357.11	12.47	29.641	
1,600.00	1,585.83	1,550.18	1,521.60	6.13	6.51	-101.64	-352.11	-160.09	389.73	376.62	13.11	29.717	
1,700.00	1,684.53	1,648.06	1,616.20	6.45	6.92	-101.11	-377.17	-161.16	409.92	396.15	13.78	29.757	
1,800.00	1,783.23	1,745.93	1,710.81	6.78	7.33	-100.63	-402.23	-162.23	430.14	415.69	14.45	29.768	
1,900.00	1,881.94	1,843.80	1,805.41	6.96	7.67	-100.19	-427.29	-163.30	450.39	435.86	14.53	30.999	
2,000.00	1,980.64	1,941.68	1,900.02	6.99	7.83	-99.79	-452.35	-164.37	470.66	455.96	14.69	32.034	
2,100.00	2,079.34	2,039.55	1,994.62	7.05	7.91	-99.43	-477.41	-165.45	490.95	476.15	14.79	33.191	
2,200.00	2,178.04	2,137.42	2,089.23	7.12	8.00	-99.09	-502.48	-166.52	511.25	496.33	14.93	34.254	
2,300.00	2,276.75	2,235.30	2,183.83	7.20	8.11	-98.78	-527.54	-167.59	531.58	516.48	15.09	35.219	
2,400.00	2,375.45	2,333.17	2,278.44	7.30	8.24	-98.49	-552.60	-168.66	551.91	536.62	15.29	36.086	
2,500.00	2,474.15	2,431.05	2,373.04	7.42	8.39	-98.22	-577.66	-169.74	572.26	556.73	15.53	36.857	
2,600.00	2,572.85	2,528.92	2,467.65	7.54	8.55	-97.97	-602.72	-170.81	592.62	576.83	15.79	37.535	
2,700.00	2,671.56	2,626.79	2,562.25	7.68	8.74	-97.74	-627.78	-171.88	612.99	596.91	16.08	38.123	
2,800.00	2,770.26	2,724.67	2,656.86	7.84	8.93	-97.52	-652.84	-172.95	633.37	616.97	16.40	38.629	
2,900.00	2,868.96	2,822.54	2,751.46	8.00	9.14	-97.31	-677.90	-174.03	653.76	637.02	16.74	39.056	
3,000.00	2,967.66	2,920.41	2,846.07	8.18	9.37	-97.12	-702.96	-175.10	674.15	657.05	17.10	39.413	
3,100.00	3,066.37	3,018.29	2,940.67	8.36	9.60	-96.94	-728.03	-176.17	694.56	677.06	17.49	39.705	
3,200.00	3,165.07	3,116.16	3,035.28	8.56	9.85	-96.77	-753.09	-177.24	714.96	697.06	17.90	39.940	
3,300.00	3,263.77	3,214.04	3,129.88	8.76	10.11	-96.61	-778.15	-178.32	735.38	717.05	18.33	40.122	
3,400.00	3,362.47	3,311.91	3,224.49	8.97	10.38	-96.46	-803.21	-179.39	755.80	737.02	18.77	40.258	
3,500.00	3,461.18	3,409.78	3,319.09	9.19	10.65	-96.31	-828.27	-180.46	776.22	756.99	19.24	40.354	
3,600.00	3,559.88	3,507.66	3,413.70	9.42	10.94	-96.17	-853.33	-181.53	796.65	776.94	19.71	40.415	
3,700.00	3,658.58	3,605.53	3,508.30	9.65	11.23	-96.04	-878.39	-182.61	817.08	796.88	20.20	40.444	
3,800.00	3,757.28	3,703.40	3,602.91	9.89	11.53	-95.92	-903.45	-183.68	837.52	816.81	20.71	40.447	
3,900.00	3,855.99	3,801.28	3,697.51	10.14	11.84	-95.80	-928.51	-184.75	857.96	836.74	21.22	40.426	
4,000.00	3,954.69	3,899.15	3,792.12	10.39	12.15	-95.69	-953.58	-185.82	878.40	856.65	21.75	40.386	
4,100.00	4,053.39	3,997.03	3,886.72	10.65	12.47	-95.58	-978.64	-186.90	898.85	876.56	22.29	40.329	
4,200.00	4,152.09	4,105.10	3,981.32	10.91	12.82	-95.48	-1,003.70	-187.97	919.30	896.43	22.87	40.204	
4,300.00	4,250.79	4,207.23	4,075.93	11.17	13.17	-95.38	-1,028.76	-189.04	939.75	916.32	23.44	40.099	
4,400.00	4,349.50	4,309.35	4,170.53	11.44	13.52	-95.29	-1,053.82	-190.11	960.21	936.19	24.01	39.985	
4,500.00	4,448.20	4,388.52	4,265.14	11.71	13.79	-95.20	-1,078.88	-191.19	980.66	956.14	24.53	39.982	
4,600.00	4,546.90	4,486.39	4,359.74	11.99	14.13	-95.11	-1,103.94	-192.26	1,001.12	976.02	25.11	39.874	
4,700.00	4,645.60	4,584.27	4,454.35	12.27	14.47	-95.03	-1,129.00	-193.33	1,021.58	995.89	25.69	39.761	
4,800.00	4,744.31	4,682.14	4,548.95	12.55	14.82	-94.95	-1,154.06	-194.40	1,042.05	1,015.76	26.29	39.644	
4,900.00	4,843.01	4,780.02	4,643.56	12.84	15.17	-94.87	-1,179.12	-195.48	1,062.51	1,035.63	26.88	39.523	
5,000.00	4,941.71	4,877.89	4,738.16	13.12	15.52	-94.80	-1,204.19	-196.55	1,082.98	1,055.49	27.49	39.400	
5,100.00	5,040.41	4,975.76	4,832.77	13.41	15.88	-94.73	-1,229.25	-197.62	1,103.45	1,075.35	28.10	39.275	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,139.12	5,073.64	4,927.37	13.71	16.24	94.66	-1,254.31	-198.69	1,123.92	1,095.21	28.71	39.149	
5,300.00	5,237.82	5,171.51	5,021.98	14.00	16.60	94.59	-1,279.37	-199.77	1,144.39	1,115.06	29.33	39.023	
5,400.00	5,336.52	5,269.38	5,116.58	14.30	16.96	94.53	-1,304.43	-200.84	1,164.86	1,134.92	29.95	38.896	
5,500.00	5,435.22	5,367.26	5,211.19	14.60	17.33	94.47	-1,329.49	-201.91	1,185.34	1,154.76	30.57	38.770	
7,200.00	7,039.03	7,909.20	7,229.14	18.25	26.15	-94.71	-1,864.69	509.78	1,199.96	1,160.68	39.28	30.545	
7,300.00	7,092.74	7,825.22	7,229.01	18.23	25.80	-94.38	-1,864.58	425.80	1,187.37	1,148.23	39.14	30.336	
7,400.00	7,132.71	7,607.30	7,195.56	18.23	25.13	-90.27	-1,855.53	211.72	1,175.05	1,136.09	38.96	30.161	
7,500.00	7,157.96	7,441.55	7,124.43	18.28	24.72	-86.60	-1,836.56	63.73	1,159.49	1,120.45	39.04	29.699	
7,600.00	7,167.85	7,316.37	7,047.55	18.46	24.40	-83.66	-1,816.11	-32.65	1,144.09	1,104.90	39.20	29.188	
7,700.00	7,168.14	7,220.89	6,977.47	18.86	24.14	-80.16	-1,797.50	-94.65	1,130.70	1,091.22	39.47	28.644	
7,800.00	7,168.31	7,152.99	6,922.57	19.49	23.95	-77.26	-1,782.92	-131.79	1,121.75	1,081.80	39.95	28.080	
7,888.84	7,168.46	7,108.18	6,884.38	20.19	23.82	-75.24	-1,772.78	-152.90	1,119.01	1,078.45	40.56	27.590	
7,900.00	7,168.48	7,103.33	6,880.16	20.27	23.81	-75.02	-1,771.66	-155.01	1,119.06	1,078.42	40.64	27.535	
8,000.00	7,168.64	7,065.85	6,847.06	21.18	23.69	-73.26	-1,762.88	-170.23	1,123.60	1,082.08	41.52	27.061	
8,100.00	7,168.81	7,036.75	6,820.80	22.18	23.60	-71.88	-1,755.92	-180.65	1,135.84	1,093.30	42.54	26.701	
8,200.00	7,168.98	7,013.58	6,799.58	23.25	23.53	-70.76	-1,750.29	-188.05	1,155.88	1,112.24	43.64	26.490	
8,300.00	7,169.14	7,000.00	6,787.02	24.40	23.49	-70.10	-1,746.96	-192.01	1,183.53	1,138.76	44.78	26.432	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-82.67	19.31	-150.17	151.41				
100.00	100.00	101.00	101.00	3.28	3.28	-82.67	19.31	-150.17	151.41	143.88	7.53	20.110	
200.00	200.00	201.00	201.00	3.31	3.31	-82.67	19.31	-150.17	151.41	143.83	7.57	19.990	
200.00	200.00	201.00	201.00	3.31	3.31	-82.67	19.31	-150.17	151.41	143.83	7.57	19.990	CC, ES
300.00	299.98	300.99	300.97	3.35	3.35	147.69	17.54	-150.39	152.88	145.23	7.65	19.974	
400.00	399.84	400.82	400.65	3.41	3.41	146.74	12.33	-151.04	157.33	149.56	7.77	20.243	
500.00	499.45	500.51	500.12	3.49	3.49	145.95	5.57	-151.88	164.76	156.82	7.94	20.748	
600.00	598.70	600.02	599.35	3.61	3.59	145.83	-1.18	-152.72	175.08	166.92	8.16	21.458	
700.00	697.51	700.89	698.25	3.76	3.71	146.30	-7.91	-153.56	188.06	179.63	8.43	22.310	
800.00	796.21	801.83	797.07	3.95	3.86	146.89	-14.63	-154.40	201.62	192.89	8.73	23.084	
900.00	894.91	902.78	895.90	4.16	4.03	147.41	-21.35	-155.23	215.20	206.12	9.08	23.708	
1,000.00	993.61	1,003.72	994.72	4.40	4.20	147.86	-28.07	-156.07	228.79	219.34	9.45	24.204	
1,100.00	1,092.32	1,104.66	1,093.55	4.66	4.40	148.27	-34.79	-156.91	242.40	232.54	9.86	24.592	
1,200.00	1,191.02	1,205.61	1,192.37	4.93	4.60	148.63	-41.51	-157.75	256.01	245.73	10.29	24.889	
1,300.00	1,289.72	1,306.55	1,291.20	5.21	4.82	148.95	-48.23	-158.58	269.64	258.90	10.74	25.113	
1,400.00	1,388.42	1,407.49	1,390.02	5.51	5.04	149.25	-54.95	-159.42	283.27	272.06	11.21	25.278	
1,500.00	1,487.13	1,508.44	1,488.85	5.81	5.27	149.51	-61.66	-160.26	296.91	285.22	11.69	25.394	
1,600.00	1,585.83	1,609.38	1,587.67	6.13	5.51	149.76	-68.38	-161.09	310.56	298.36	12.19	25.473	
1,700.00	1,684.53	1,689.68	1,686.50	6.45	5.70	149.98	-75.10	-161.93	324.21	311.55	12.65	25.622	
1,800.00	1,783.23	1,788.73	1,785.32	6.78	5.95	150.18	-81.82	-162.77	337.86	324.69	13.17	25.653	
1,900.00	1,881.94	1,887.79	1,884.15	6.96	6.09	150.37	-88.54	-163.61	351.52	338.44	13.08	26.878	
2,000.00	1,980.64	1,986.84	1,982.97	6.99	6.12	150.55	-95.26	-164.44	365.18	352.05	13.13	27.812	
2,100.00	2,079.34	2,085.90	2,081.79	7.05	6.15	150.71	-101.98	-165.28	378.85	365.65	13.20	28.708	
2,200.00	2,178.04	2,184.96	2,180.62	7.12	6.20	150.86	-108.70	-166.12	392.51	379.22	13.29	29.532	
2,300.00	2,276.75	2,284.01	2,279.44	7.20	6.25	151.00	-115.42	-166.95	406.18	392.77	13.41	30.281	
2,400.00	2,375.45	2,383.07	2,378.27	7.30	6.32	151.13	-122.14	-167.79	419.86	406.29	13.56	30.953	
2,500.00	2,474.15	2,482.13	2,477.09	7.42	6.40	151.26	-128.86	-168.63	433.53	419.79	13.74	31.551	
2,600.00	2,572.85	2,581.18	2,575.92	7.54	6.50	151.37	-135.58	-169.46	447.21	433.26	13.94	32.075	
2,700.00	2,671.56	2,680.24	2,674.74	7.68	6.60	151.48	-142.30	-170.30	460.88	446.72	14.17	32.529	
2,800.00	2,770.26	2,779.30	2,773.57	7.84	6.72	151.58	-149.02	-171.14	474.56	460.15	14.42	32.917	
2,900.00	2,868.96	2,878.35	2,872.39	8.00	6.84	151.68	-155.74	-171.98	488.24	473.56	14.69	33.242	
3,000.00	2,967.66	2,977.41	2,971.22	8.18	6.98	151.77	-162.46	-172.81	501.93	486.95	14.98	33.509	
3,100.00	3,066.37	3,076.47	3,070.04	8.36	7.12	151.86	-169.18	-173.65	515.61	500.32	15.29	33.724	
3,200.00	3,165.07	3,175.52	3,168.87	8.56	7.28	151.94	-175.90	-174.49	529.30	513.68	15.62	33.891	
3,300.00	3,263.77	3,274.58	3,267.69	8.76	7.44	152.02	-182.62	-175.32	542.98	527.02	15.96	34.016	
3,400.00	3,362.47	3,373.64	3,366.52	8.97	7.61	152.09	-189.34	-176.16	556.67	540.34	16.32	34.102	
3,500.00	3,461.18	3,472.69	3,465.34	9.19	7.78	152.16	-196.06	-177.00	570.35	553.65	16.70	34.154	
3,600.00	3,559.88	3,571.75	3,564.17	9.42	7.96	152.23	-202.78	-177.84	584.04	566.95	17.09	34.176	
3,700.00	3,658.58	3,670.80	3,662.99	9.65	8.15	152.29	-209.50	-178.67	597.73	580.24	17.49	34.173	
3,800.00	3,757.28	3,769.86	3,761.82	9.89	8.35	152.36	-216.22	-179.51	611.42	593.52	17.91	34.147	
3,900.00	3,855.99	3,868.92	3,860.64	10.14	8.55	152.41	-222.94	-180.35	625.11	606.78	18.33	34.102	
4,000.00	3,954.69	3,967.97	3,959.46	10.39	8.75	152.47	-229.66	-181.18	638.80	620.04	18.77	34.040	
4,100.00	4,053.39	4,067.03	4,058.29	10.65	8.96	152.52	-236.38	-182.02	652.49	633.28	19.21	33.964	
4,200.00	4,152.09	4,166.09	4,157.11	10.91	9.18	152.58	-243.10	-182.86	666.19	646.52	19.67	33.876	
4,300.00	4,250.79	4,265.14	4,255.94	11.17	9.39	152.63	-249.82	-183.69	679.88	659.75	20.13	33.778	
4,400.00	4,349.50	4,364.20	4,354.76	11.44	9.61	152.67	-256.54	-184.53	693.57	672.97	20.60	33.673	
4,500.00	4,448.20	4,463.26	4,453.59	11.71	9.84	152.72	-263.26	-185.37	707.26	686.19	21.07	33.560	
4,600.00	4,546.90	4,562.31	4,552.41	11.99	10.07	152.76	-269.98	-186.21	720.96	699.40	21.56	33.442	
4,700.00	4,645.60	4,661.37	4,651.24	12.27	10.30	152.80	-276.70	-187.04	734.65	712.60	22.05	33.320	
4,800.00	4,744.31	4,760.43	4,750.06	12.55	10.53	152.85	-283.42	-187.88	748.35	725.80	22.54	33.195	
4,900.00	4,843.01	4,859.48	4,848.89	12.84	10.77	152.88	-290.14	-188.72	762.04	739.00	23.05	33.067	
5,000.00	4,941.71	4,958.54	4,947.71	13.12	11.01	152.92	-296.86	-189.55	775.74	752.19	23.55	32.937	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	5,040.41	5,057.60	5,046.54	13.41	11.25	152.96	-303.58	-190.39	789.43	765.37	24.06	32.807	
5,200.00	5,139.12	5,156.65	5,145.36	13.71	11.50	152.99	-310.30	-191.23	803.13	778.55	24.58	32.676	
5,300.00	5,237.82	5,255.71	5,244.19	14.00	11.74	153.03	-317.02	-192.07	816.83	791.73	25.10	32.545	
5,400.00	5,336.52	5,354.76	5,343.01	14.30	11.99	153.06	-323.74	-192.90	830.52	804.90	25.62	32.414	
5,500.00	5,435.22	5,453.82	5,441.84	14.60	12.24	153.09	-330.46	-193.74	844.22	818.07	26.15	32.285	
5,600.00	5,533.93	5,552.88	5,540.66	14.90	12.49	153.12	-337.18	-194.58	857.92	831.24	26.68	32.156	
5,700.00	5,632.63	5,651.93	5,639.48	15.20	12.74	153.15	-343.90	-195.41	871.61	844.40	27.21	32.028	
5,800.00	5,731.33	5,750.99	5,738.31	15.50	13.00	153.18	-350.62	-196.25	885.31	857.56	27.75	31.902	
5,900.00	5,830.03	5,850.05	5,837.13	15.81	13.25	153.21	-357.34	-197.09	899.01	870.72	28.29	31.777	
6,000.00	5,928.74	5,949.10	5,935.96	16.11	13.51	153.24	-364.06	-197.92	912.71	883.87	28.83	31.654	
6,100.00	6,027.44	6,048.16	6,034.78	16.42	13.77	153.27	-370.78	-198.76	926.40	897.03	29.38	31.532	
6,200.00	6,126.14	6,147.22	6,133.61	16.73	14.03	153.29	-377.50	-199.60	940.10	910.18	29.93	31.413	
6,300.00	6,224.84	6,246.27	6,232.43	17.04	14.29	153.32	-384.22	-200.44	953.80	923.32	30.48	31.296	
6,400.00	6,323.55	7,855.18	7,169.09	17.35	21.41	-152.16	-443.12	740.65	860.32	831.32	29.00	29.664	
6,500.00	6,422.25	7,867.58	7,169.10	17.67	21.55	-149.70	-443.05	753.06	765.93	736.36	29.57	25.903	
6,600.00	6,521.26	7,876.58	7,169.10	17.91	21.65	-171.76	-443.01	762.05	672.63	642.40	30.23	22.251	
6,700.00	6,620.47	7,870.80	7,169.10	18.07	21.58	142.67	-443.04	756.28	581.17	550.22	30.96	18.772	
6,800.00	6,717.57	7,849.50	7,169.09	18.18	21.34	135.56	-443.15	734.97	494.71	462.91	31.80	15.557	
6,900.00	6,810.17	7,813.19	7,169.08	18.24	20.94	133.26	-443.33	698.66	416.79	383.99	32.80	12.708	
7,000.00	6,895.98	7,762.76	7,169.06	18.27	20.41	129.56	-443.58	648.24	351.12	317.17	33.95	10.341	
7,100.00	6,972.90	7,700.53	7,169.04	18.27	19.77	123.63	-443.90	584.95	301.09	266.00	35.10	8.579	
7,200.00	7,039.03	7,624.87	7,169.02	18.25	19.06	115.64	-444.28	510.35	268.47	232.59	35.88	7.483	
7,300.00	7,092.74	7,540.04	7,168.94	18.23	18.32	106.53	-444.70	425.52	251.74	215.72	36.02	6.989	
7,400.00	7,132.71	7,447.19	7,160.99	18.23	17.61	96.40	-444.63	333.09	245.63	209.98	35.65	6.890 SF	
7,420.50	7,139.11	7,428.94	7,157.85	18.24	17.49	94.34	-444.50	315.12	245.45	209.88	35.57	6.901	
7,500.00	7,157.96	7,360.36	7,141.49	18.28	17.06	86.54	-443.73	248.55	248.03	212.87	35.16	7.055	
7,600.00	7,167.85	7,278.21	7,112.65	18.46	16.69	77.45	-442.16	171.71	257.70	223.01	34.69	7.428	
7,700.00	7,168.14	7,202.13	7,077.34	18.86	16.47	69.96	-440.10	104.40	275.12	240.76	34.36	8.006	
7,800.00	7,168.31	7,135.61	7,040.10	19.49	16.33	63.03	-437.84	49.37	304.54	270.35	34.19	8.908	
7,900.00	7,168.48	7,078.18	7,003.48	20.27	16.21	57.05	-435.58	5.21	346.29	312.12	34.17	10.134	
8,000.00	7,168.64	7,028.85	6,968.97	21.18	16.12	52.14	-433.41	-29.96	399.00	364.71	34.28	11.638	
8,100.00	7,168.81	6,986.50	6,937.25	22.18	16.03	48.21	-431.40	-57.93	460.66	426.20	34.46	13.369	
8,200.00	7,168.98	6,950.00	6,908.48	23.25	15.96	45.06	-429.55	-80.30	529.35	494.70	34.65	15.276	
8,300.00	7,169.14	6,918.55	6,882.69	24.40	15.89	42.53	-427.89	-98.23	603.50	568.66	34.84	17.324	
8,400.00	7,169.31	6,900.00	6,867.08	25.60	15.86	41.12	-426.88	-108.19	682.01	647.00	35.02	19.475	
8,500.00	7,169.48	6,867.25	6,838.84	26.85	15.79	38.79	-425.05	-124.66	763.63	728.49	35.14	21.730	
8,600.00	7,169.64	6,850.00	6,823.63	28.14	15.75	37.64	-424.05	-132.74	848.04	812.77	35.27	24.047	
8,700.00	7,169.81	6,827.63	6,803.60	29.47	15.70	36.22	-422.74	-142.60	934.53	899.16	35.37	26.421	
8,800.00	7,169.98	6,800.00	6,778.39	30.83	15.64	34.58	-421.09	-153.80	1,022.93	987.46	35.47	28.837	
8,900.00	7,170.14	6,800.00	6,778.39	32.23	15.64	34.58	-421.09	-153.80	1,112.46	1,076.93	35.54	31.305	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-90.28	-0.73	-149.89	149.89				
100.00	100.00	101.00	101.00	3.28	3.28	-90.28	-0.73	-149.89	149.89	142.37	7.53	19.909	
200.00	200.00	201.00	201.00	3.31	3.31	-90.28	-0.73	-149.89	149.89	142.32	7.57	19.790	
300.00	299.98	300.42	300.40	3.35	3.34	140.16	-2.48	-150.07	151.43	143.77	7.65	19.784	
400.00	399.84	399.68	399.52	3.41	3.40	139.42	-7.65	-150.59	156.03	148.26	7.77	20.077	
500.00	499.45	501.01	498.48	3.49	3.49	138.42	-15.87	-151.42	163.68	155.74	7.94	20.606	
600.00	598.70	601.55	597.55	3.61	3.59	138.08	-24.58	-152.29	174.02	165.85	8.17	21.305	
700.00	697.51	702.38	696.34	3.76	3.73	138.46	-33.26	-153.17	186.76	178.31	8.45	22.110	
800.00	796.21	803.28	795.06	3.95	3.88	139.01	-41.94	-154.04	200.01	191.25	8.76	22.820	
900.00	894.91	904.18	893.77	4.16	4.05	139.50	-50.62	-154.92	213.28	204.16	9.12	23.380	
1,000.00	993.61	1,005.08	992.49	4.40	4.24	139.93	-59.30	-155.79	226.57	217.05	9.52	23.810	
1,100.00	1,092.32	1,105.98	1,091.20	4.66	4.45	140.31	-67.98	-156.66	239.86	229.92	9.94	24.134	
1,200.00	1,191.02	1,206.88	1,189.92	4.93	4.66	140.65	-76.66	-157.54	253.17	242.78	10.39	24.371	
1,300.00	1,289.72	1,307.78	1,288.63	5.21	4.89	140.95	-85.34	-158.41	266.48	255.62	10.86	24.538	
1,400.00	1,388.42	1,408.68	1,387.35	5.51	5.13	141.23	-94.02	-159.29	279.80	268.45	11.35	24.650	
1,500.00	1,487.13	1,509.58	1,486.07	5.81	5.37	141.48	-102.70	-160.16	293.12	281.26	11.86	24.718	
1,600.00	1,585.83	1,589.52	1,584.78	6.13	5.57	141.71	-111.38	-161.03	306.45	294.12	12.33	24.857	
1,700.00	1,684.53	1,688.62	1,683.50	6.45	5.82	141.92	-120.06	-161.91	319.79	306.93	12.86	24.871	
1,800.00	1,783.23	1,787.72	1,782.21	6.78	6.08	142.12	-128.74	-162.78	333.12	319.73	13.40	24.865	
1,900.00	1,881.94	1,886.82	1,880.93	6.96	6.23	142.30	-137.42	-163.66	346.47	333.14	13.32	26.008	
2,000.00	1,980.64	1,985.92	1,979.64	6.99	6.26	142.46	-146.10	-164.53	359.81	346.43	13.38	26.889	
2,100.00	2,079.34	2,085.02	2,078.36	7.05	6.30	142.62	-154.78	-165.40	373.16	359.70	13.45	27.736	
2,200.00	2,178.04	2,184.12	2,177.08	7.12	6.35	142.76	-163.46	-166.28	386.51	372.95	13.56	28.512	
2,300.00	2,276.75	2,283.22	2,275.79	7.20	6.41	142.89	-172.14	-167.15	399.86	386.17	13.69	29.215	
2,400.00	2,375.45	2,382.33	2,374.51	7.30	6.48	143.02	-180.81	-168.03	413.21	399.37	13.85	29.845	
2,500.00	2,474.15	2,481.43	2,473.22	7.42	6.57	143.14	-189.49	-168.90	426.57	412.54	14.03	30.403	
2,600.00	2,572.85	2,580.53	2,571.94	7.54	6.67	143.25	-198.17	-169.77	439.93	425.69	14.24	30.891	
2,700.00	2,671.56	2,679.63	2,670.65	7.68	6.78	143.35	-206.85	-170.65	453.29	438.81	14.48	31.312	
2,800.00	2,770.26	2,778.73	2,769.37	7.84	6.90	143.45	-215.53	-171.52	466.65	451.91	14.74	31.669	
2,900.00	2,868.96	2,877.83	2,868.09	8.00	7.03	143.54	-224.21	-172.40	480.01	464.99	15.02	31.967	
3,000.00	2,967.66	2,976.93	2,966.80	8.18	7.17	143.63	-232.89	-173.27	493.37	478.05	15.32	32.211	
3,100.00	3,066.37	3,076.03	3,065.52	8.36	7.32	143.71	-241.57	-174.15	506.73	491.10	15.64	32.404	
3,200.00	3,165.07	3,175.13	3,164.23	8.56	7.48	143.79	-250.25	-175.02	520.10	504.12	15.98	32.553	
3,300.00	3,263.77	3,274.23	3,262.95	8.76	7.65	143.86	-258.93	-175.89	533.46	517.13	16.33	32.662	
3,400.00	3,362.47	3,373.33	3,361.67	8.97	7.83	143.93	-267.61	-176.77	546.83	530.13	16.71	32.734	
3,500.00	3,461.18	3,472.43	3,460.38	9.19	8.01	144.00	-276.29	-177.64	560.20	543.11	17.09	32.775	
3,600.00	3,559.88	3,571.53	3,559.10	9.42	8.20	144.06	-284.97	-178.52	573.57	556.07	17.49	32.788	
3,700.00	3,658.58	3,670.63	3,657.81	9.65	8.40	144.13	-293.65	-179.39	586.93	569.03	17.91	32.777	
3,800.00	3,757.28	3,769.73	3,756.53	9.89	8.60	144.18	-302.33	-180.26	600.30	581.97	18.33	32.745	
3,900.00	3,855.99	3,868.83	3,855.24	10.14	8.81	144.24	-311.01	-181.14	613.67	594.90	18.77	32.695	
4,000.00	3,954.69	3,967.93	3,953.96	10.39	9.02	144.29	-319.69	-182.01	627.04	607.83	19.22	32.630	
4,100.00	4,053.39	4,067.03	4,052.68	10.65	9.23	144.35	-328.37	-182.89	640.42	620.74	19.67	32.552	
4,200.00	4,152.09	4,166.13	4,151.39	10.91	9.46	144.40	-337.04	-183.76	653.79	633.65	20.14	32.463	
4,300.00	4,250.79	4,265.23	4,250.11	11.17	9.68	144.44	-345.72	-184.63	667.16	646.55	20.61	32.365	
4,400.00	4,349.50	4,364.33	4,348.82	11.44	9.91	144.49	-354.40	-185.51	680.53	659.44	21.10	32.259	
4,500.00	4,448.20	4,463.43	4,447.54	11.71	10.14	144.53	-363.08	-186.38	693.90	672.32	21.58	32.148	
4,600.00	4,546.90	4,562.54	4,546.25	11.99	10.38	144.57	-371.76	-187.26	707.28	685.20	22.08	32.031	
4,700.00	4,645.60	4,661.64	4,644.97	12.27	10.62	144.61	-380.44	-188.13	720.65	698.07	22.58	31.911	
4,800.00	4,744.31	4,760.74	4,743.69	12.55	10.86	144.65	-389.12	-189.00	734.02	710.93	23.09	31.788	
4,900.00	4,843.01	4,859.84	4,842.40	12.84	11.11	144.69	-397.80	-189.88	747.40	723.79	23.60	31.663	
5,000.00	4,941.71	4,958.94	4,941.12	13.12	11.35	144.73	-406.48	-190.75	760.77	736.65	24.12	31.537	
5,100.00	5,040.41	5,058.04	5,039.83	13.41	11.60	144.76	-415.16	-191.63	774.15	749.50	24.65	31.410	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,139.12	5,157.14	5,138.55	13.71	11.85	144.80	-423.84	-192.50	787.52	762.35	25.17	31.283	
5,300.00	5,237.82	5,256.24	5,237.26	14.00	12.11	144.83	-432.52	-193.37	800.90	775.19	25.71	31.155	
5,400.00	5,336.52	5,355.34	5,335.98	14.30	12.36	144.86	-441.20	-194.25	814.27	788.03	26.24	31.029	
5,500.00	5,435.22	5,454.44	5,434.70	14.60	12.62	144.89	-449.88	-195.12	827.65	800.87	26.78	30.903	
5,600.00	5,533.93	5,553.54	5,533.41	14.90	12.88	144.92	-458.56	-196.00	841.03	813.70	27.33	30.778	
5,700.00	5,632.63	5,652.64	5,632.13	15.20	13.14	144.95	-467.24	-196.87	854.40	826.53	27.87	30.654	
5,800.00	5,731.33	5,751.74	5,730.84	15.50	13.40	144.98	-475.92	-197.74	867.78	839.36	28.42	30.532	
5,900.00	5,830.03	5,850.84	5,829.56	15.81	13.67	145.01	-484.59	-198.62	881.16	852.18	28.97	30.411	
6,000.00	5,928.74	5,949.94	5,928.27	16.11	13.93	145.03	-493.27	-199.49	894.53	865.00	29.53	30.292	
6,100.00	6,027.44	6,049.04	6,026.99	16.42	14.20	145.06	-501.95	-200.37	907.91	877.82	30.09	30.175	
6,200.00	6,126.14	6,148.14	6,125.71	16.73	14.47	145.08	-510.63	-201.24	921.29	890.64	30.65	30.060	
6,300.00	6,224.84	6,247.24	6,224.42	17.04	14.74	145.11	-519.31	-202.11	934.66	903.45	31.21	29.947	
6,400.00	6,323.55	7,933.80	7,234.54	17.35	21.89	174.58	-622.52	739.93	910.13	881.73	28.40	32.044	
6,500.00	6,422.25	7,946.55	7,234.57	17.67	22.03	177.70	-622.71	752.67	911.34	882.60	28.74	28.234	
6,600.00	6,521.26	7,955.90	7,234.58	17.91	22.14	179.84	-622.85	762.02	912.34	883.27	29.07	24.503	
6,700.00	6,620.47	7,950.47	7,234.57	18.07	22.08	173.65	-622.77	756.59	913.28	883.93	29.36	20.891	
6,800.00	6,717.57	7,929.50	7,234.54	18.18	21.85	171.72	-622.45	735.63	916.57	886.99	29.58	17.461	
6,900.00	6,810.17	7,906.48	7,234.47	18.24	21.59	169.99	-621.90	699.65	924.75	894.91	29.84	14.235	
7,000.00	6,895.98	7,843.40	7,234.39	18.27	20.94	167.60	-621.14	649.53	930.31	901.30	30.01	11.341	
7,100.00	6,972.90	7,780.38	7,234.28	18.27	20.31	164.13	-620.17	586.52	936.72	905.39	30.33	8.761	
7,200.00	7,039.03	7,706.01	7,234.15	18.25	19.61	159.07	-619.04	512.16	943.38	912.50	30.88	6.586	
7,300.00	7,092.74	7,621.89	7,234.00	18.23	18.91	151.91	-617.75	428.05	955.52	923.74	31.78	4.894	
7,400.00	7,132.71	7,515.96	7,224.87	18.23	18.15	138.21	-615.35	322.66	967.78	934.60	33.18	3.549	
7,500.00	7,157.96	7,419.05	7,201.38	18.28	17.64	116.84	-611.86	228.80	974.40	943.30	35.09	2.576	
7,573.58	7,166.75	7,352.28	7,177.06	18.40	17.40	96.43	-608.78	166.74	983.36	952.68	35.68	2.336 CC, ES, SF	
7,600.00	7,167.85	7,329.09	7,167.12	18.46	17.33	88.90	-607.59	145.82	984.28	953.73	35.54	2.371	
7,700.00	7,168.14	7,247.40	7,126.17	18.86	17.14	64.14	-602.92	75.35	104.46	70.14	34.32	3.044	
7,800.00	7,168.31	7,177.70	7,084.37	19.49	16.99	47.60	-598.40	19.81	148.86	115.14	33.72	4.415	
7,900.00	7,168.48	7,118.89	7,044.56	20.27	16.87	37.85	-594.24	-23.25	208.81	174.96	33.84	6.170	
8,000.00	7,168.64	7,069.41	7,008.12	21.18	16.76	31.94	-590.53	-56.50	278.33	244.15	34.18	8.143	
8,100.00	7,168.81	7,027.67	6,975.44	22.18	16.68	28.13	-587.26	-82.26	354.22	319.70	34.53	10.259	
8,200.00	7,168.98	6,992.27	6,946.46	23.25	16.60	25.53	-584.40	-102.38	434.66	399.84	34.82	12.484	
8,300.00	7,169.14	6,962.04	6,920.87	24.40	16.54	23.66	-581.91	-118.26	518.47	483.41	35.06	14.788	
8,400.00	7,169.31	6,936.05	6,898.28	25.60	16.48	22.27	-579.73	-130.92	604.86	569.61	35.26	17.156	
8,500.00	7,169.48	6,913.52	6,878.30	26.85	16.43	21.20	-577.81	-141.14	693.28	657.86	35.42	19.574	
8,600.00	7,169.64	6,900.00	6,866.13	28.14	16.40	20.61	-576.65	-146.93	783.36	747.81	35.55	22.036	
8,700.00	7,169.81	6,876.58	6,844.79	29.47	16.35	19.67	-574.63	-156.34	874.64	838.98	35.66	24.526	
8,800.00	7,169.98	6,850.00	6,820.15	30.83	16.29	18.71	-572.32	-166.06	967.21	931.44	35.77	27.040	
8,900.00	7,170.14	6,850.00	6,820.15	32.23	16.29	18.71	-572.32	-166.06	1,060.34	1,024.51	35.83	29.592	
9,000.00	7,170.31	6,835.54	6,806.59	33.64	16.26	18.24	-571.05	-170.92	1,154.36	1,118.46	35.91	32.148	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.27	60.11	-0.28	60.11				
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	60.11	-0.28	60.11	52.58	7.53	7.984	
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	60.11	-0.28	60.11	52.54	7.57	7.936 CC, ES	
300.00	299.98	300.66	300.64	3.35	3.35	-129.25	59.56	1.40	60.67	53.01	7.66	7.924	
400.00	399.84	401.30	401.14	3.41	3.41	-128.34	57.90	6.44	62.34	54.57	7.78	8.017	
500.00	499.45	501.89	501.33	3.49	3.50	-126.93	55.15	14.82	65.17	57.22	7.95	8.199	
600.00	598.70	602.19	600.90	3.61	3.62	-125.34	51.38	26.28	69.23	61.05	8.18	8.464	
700.00	697.51	702.02	699.91	3.76	3.76	-125.46	47.40	38.36	75.01	66.54	8.47	8.857	
800.00	796.21	801.82	798.91	3.95	3.94	-125.99	43.43	50.44	81.18	72.38	8.81	9.219	
900.00	894.91	901.63	897.90	4.16	4.13	-126.45	39.46	62.52	87.36	78.18	9.19	9.511	
1,000.00	993.61	1,001.44	996.89	4.40	4.34	-126.85	35.49	74.61	93.54	83.94	9.60	9.742	
1,100.00	1,092.32	1,101.24	1,095.89	4.66	4.56	-127.19	31.52	86.69	99.73	89.68	10.05	9.924	
1,200.00	1,191.02	1,201.05	1,194.88	4.93	4.80	-127.50	27.54	98.77	105.92	95.40	10.53	10.064	
1,300.00	1,289.72	1,300.86	1,293.87	5.21	5.05	-127.77	23.57	110.85	112.12	101.09	11.02	10.170	
1,400.00	1,388.42	1,400.66	1,392.87	5.51	5.32	-128.02	19.60	122.93	118.31	106.77	11.54	10.250	
1,500.00	1,487.13	1,500.47	1,491.86	5.81	5.59	-128.24	15.63	135.01	124.51	112.43	12.08	10.309	
1,600.00	1,585.83	1,600.28	1,590.85	6.13	5.86	-128.44	11.66	147.09	130.71	118.08	12.63	10.350	
1,700.00	1,684.53	1,700.08	1,689.85	6.45	6.15	-128.62	7.69	159.17	136.91	123.72	13.19	10.379	
1,800.00	1,783.23	1,800.11	1,788.84	6.78	6.43	-128.79	3.71	171.25	143.11	129.34	13.77	10.396	
1,900.00	1,881.94	1,900.30	1,887.83	6.96	6.59	-128.94	-0.26	183.33	149.31	135.62	13.69	10.904	
2,000.00	1,980.64	2,000.50	1,986.83	6.99	6.62	-129.08	-4.23	195.41	155.52	141.77	13.75	11.313	
2,100.00	2,079.34	2,100.69	2,085.82	7.05	6.66	-129.21	-8.20	207.49	161.72	147.89	13.83	11.692	
2,200.00	2,178.04	2,200.88	2,184.81	7.12	6.72	-129.33	-12.17	219.57	167.93	153.98	13.94	12.042	
2,300.00	2,276.75	2,301.08	2,283.81	7.20	6.80	-129.44	-16.15	231.65	174.13	160.04	14.09	12.361	
2,400.00	2,375.45	2,401.27	2,382.80	7.30	6.88	-129.54	-20.12	243.73	180.34	166.08	14.26	12.649	
2,500.00	2,474.15	2,501.46	2,481.79	7.42	6.98	-129.64	-24.09	255.81	186.55	172.09	14.45	12.906	
2,600.00	2,572.85	2,601.66	2,580.79	7.54	7.09	-129.73	-28.06	267.89	192.75	178.08	14.68	13.133	
2,700.00	2,671.56	2,701.85	2,679.78	7.68	7.22	-129.81	-32.03	279.97	198.96	184.04	14.92	13.332	
2,800.00	2,770.26	2,802.04	2,778.77	7.84	7.36	-129.89	-36.00	292.05	205.17	189.98	15.19	13.504	
2,900.00	2,868.96	2,902.24	2,877.77	8.00	7.50	-129.97	-39.98	304.13	211.38	195.89	15.48	13.651	
3,000.00	2,967.66	3,002.43	2,976.76	8.18	7.66	-130.04	-43.95	316.21	217.59	201.79	15.80	13.774	
3,100.00	3,066.37	3,097.38	3,075.75	8.36	7.82	-130.10	-47.92	328.29	223.80	207.68	16.12	13.883	
3,200.00	3,165.07	3,202.82	3,174.75	8.56	8.00	-130.17	-51.89	340.37	230.01	213.53	16.48	13.958	
3,300.00	3,263.77	3,303.01	3,273.74	8.76	8.19	-130.23	-55.86	352.45	236.22	219.37	16.85	14.023	
3,400.00	3,362.47	3,396.80	3,372.73	8.97	8.37	-130.28	-59.83	364.53	242.43	225.21	17.22	14.082	
3,500.00	3,461.18	3,503.40	3,471.73	9.19	8.58	-130.34	-63.81	376.61	248.64	231.01	17.63	14.107	
3,600.00	3,559.88	3,603.59	3,570.72	9.42	8.78	-130.39	-67.78	388.69	254.85	236.81	18.04	14.130	
3,700.00	3,658.58	3,703.78	3,669.71	9.65	9.00	-130.44	-71.75	400.77	261.06	242.60	18.46	14.142	
3,800.00	3,757.28	3,803.98	3,768.70	9.89	9.22	-130.48	-75.72	412.85	267.27	248.38	18.90	14.144	
3,900.00	3,855.99	3,904.17	3,867.70	10.14	9.44	-130.53	-79.69	424.93	273.48	254.14	19.34	14.139	
4,000.00	3,954.69	4,004.36	3,966.69	10.39	9.67	-130.57	-83.67	437.01	279.69	259.89	19.80	14.126	
4,100.00	4,053.39	4,104.56	4,065.68	10.65	9.90	-130.61	-87.64	449.09	285.91	265.64	20.27	14.107	
4,200.00	4,152.09	4,204.75	4,164.68	10.91	10.14	-130.65	-91.61	461.17	292.12	271.38	20.74	14.083	
4,300.00	4,250.79	4,304.94	4,263.67	11.17	10.38	-130.69	-95.58	473.25	298.33	277.10	21.23	14.055	
4,400.00	4,349.50	4,405.14	4,362.66	11.44	10.63	-130.72	-99.55	485.33	304.54	282.82	21.72	14.023	
4,500.00	4,448.20	4,505.33	4,461.66	11.71	10.88	-130.76	-103.52	497.41	310.75	288.54	22.22	13.987	
4,600.00	4,546.90	4,605.52	4,560.65	11.99	11.13	-130.79	-107.50	509.50	316.97	294.24	22.72	13.950	
4,700.00	4,645.60	4,705.72	4,659.64	12.27	11.39	-130.82	-111.47	521.58	323.18	299.94	23.23	13.910	
4,800.00	4,744.31	4,805.91	4,758.64	12.55	11.65	-130.85	-115.44	533.66	329.39	305.64	23.75	13.868	
4,900.00	4,843.01	4,906.10	4,857.63	12.84	11.91	-130.88	-119.41	545.74	335.60	311.33	24.27	13.825	
5,000.00	4,941.71	5,006.30	4,956.62	13.12	12.18	-130.91	-123.38	557.82	341.82	317.01	24.80	13.781	
5,100.00	5,040.41	5,106.49	5,055.62	13.41	12.44	-130.94	-127.36	569.90	348.03	322.69	25.34	13.737	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,206.68	5,154.61	13.71	12.71	-130.96	-131.33	581.98	354.24	328.37	25.87	13.692		
5,300.00	5,237.82	5,306.88	5,253.60	14.00	12.99	-130.99	-135.30	594.06	360.45	334.04	26.41	13.646		
5,400.00	5,336.52	5,407.07	5,352.60	14.30	13.26	-131.01	-139.27	606.14	366.67	339.71	26.96	13.600		
5,500.00	5,435.22	5,507.26	5,451.59	14.60	13.54	-131.04	-143.24	618.22	372.88	345.37	27.51	13.555		
5,600.00	5,533.93	5,607.46	5,550.58	14.90	13.81	-131.06	-147.21	630.30	379.09	351.03	28.06	13.509		
5,700.00	5,632.63	5,707.65	5,649.58	15.20	14.09	-131.08	-151.19	642.38	385.31	356.69	28.62	13.464		
5,800.00	5,731.33	5,807.84	5,748.57	15.50	14.37	-131.10	-155.16	654.46	391.52	362.34	29.18	13.419		
5,900.00	5,830.03	5,908.04	5,847.56	15.81	14.65	-131.12	-159.13	666.54	397.73	367.99	29.74	13.374		
6,000.00	5,928.74	6,008.23	5,946.56	16.11	14.94	-131.14	-163.10	678.62	403.95	373.64	30.30	13.330		
6,100.00	6,027.44	6,108.42	6,045.55	16.42	15.22	-131.16	-167.07	690.70	410.16	379.29	30.87	13.286		
6,200.00	6,126.14	6,208.62	6,144.54	16.73	15.51	-131.18	-171.05	702.78	416.37	384.93	31.44	13.243		
6,300.00	6,224.84	6,308.81	6,243.54	17.04	15.79	-131.20	-175.02	714.86	422.59	390.57	32.01	13.201		
6,400.00	6,323.55	6,409.00	6,342.53	17.35	16.08	-131.22	-178.99	726.94	428.80	396.21	32.59	13.159		
6,500.00	6,422.25	6,490.81	6,441.52	17.67	16.32	-131.24	-182.96	739.02	435.01	401.90	33.11	13.138		
6,600.00	6,521.26	6,609.50	6,540.41	17.91	16.66	-170.01	-186.93	751.09	441.13	407.41	33.72	13.084		
6,700.00	6,620.47	6,688.62	6,637.72	18.07	16.89	127.16	-190.83	762.96	447.17	412.94	34.23	13.065		
6,800.00	6,717.57	6,787.28	6,736.02	18.18	17.10	112.36	-194.76	769.19	454.34	419.61	34.72	13.084		
6,900.00	6,810.17	6,890.70	6,838.79	18.24	17.24	108.79	-198.83	759.48	462.81	427.75	35.07	13.199		
7,000.00	6,895.98	6,999.41	6,943.62	18.27	17.33	108.29	-202.94	731.49	472.21	436.95	35.26	13.393		
7,100.00	6,972.90	7,113.92	7,047.19	18.27	17.37	108.89	-206.95	683.20	481.99	446.69	35.31	13.652		
7,200.00	7,039.03	7,234.51	7,145.07	18.25	17.40	109.89	-210.68	613.17	491.49	456.23	35.26	13.937		
7,300.00	7,092.74	7,361.10	7,231.71	18.23	17.43	110.92	-213.91	521.21	499.96	464.72	35.24	14.186		
7,400.00	7,132.71	7,493.05	7,300.84	18.23	17.54	111.79	-216.39	409.12	506.66	471.25	35.41	14.308		
7,500.00	7,157.96	7,629.07	7,346.41	18.28	17.80	112.34	-217.90	281.24	510.94	475.01	35.93	14.219		
7,600.00	7,167.85	7,767.26	7,363.89	18.46	18.29	112.50	-218.27	144.44	512.38	475.49	36.89	13.890		
7,700.00	7,168.14	7,870.33	7,364.12	18.86	18.83	112.49	-218.03	41.36	512.27	474.23	38.04	13.467		
7,800.00	7,168.31	7,970.33	7,364.24	19.49	19.49	112.49	-217.79	-58.64	512.16	472.78	39.39	13.003		
7,900.00	7,168.48	8,070.33	7,364.37	20.27	20.27	112.49	-217.56	-158.63	512.06	471.12	40.94	12.507		
8,000.00	7,168.64	8,170.33	7,364.50	21.18	21.17	112.49	-217.32	-258.63	511.96	469.29	42.67	11.997		
8,100.00	7,168.81	8,270.33	7,364.63	22.18	22.15	112.49	-217.09	-358.63	511.85	467.29	44.56	11.486		
8,200.00	7,168.98	8,370.33	7,364.76	23.25	23.22	112.49	-216.85	-458.63	511.75	465.16	46.59	10.984		
8,300.00	7,169.14	8,470.33	7,364.88	24.40	24.36	112.49	-216.62	-558.63	511.65	462.91	48.74	10.497		
8,400.00	7,169.31	8,570.33	7,365.01	25.60	25.55	112.49	-216.38	-658.63	511.55	460.55	51.00	10.031		
8,500.00	7,169.48	8,670.33	7,365.14	26.85	26.80	112.49	-216.15	-758.63	511.44	458.10	53.35	9.587		
8,600.00	7,169.64	8,770.33	7,365.27	28.14	28.09	112.49	-215.91	-858.63	511.34	455.56	55.78	9.168		
8,700.00	7,169.81	8,870.33	7,365.40	29.47	29.42	112.49	-215.68	-958.63	511.24	452.96	58.28	8.773		
8,800.00	7,169.98	8,970.33	7,365.53	30.83	30.78	112.49	-215.44	-1,058.63	511.13	450.30	60.84	8.402		
8,900.00	7,170.14	9,070.33	7,365.65	32.23	32.17	112.49	-215.21	-1,158.63	511.03	447.58	63.45	8.054		
9,000.00	7,170.31	9,170.33	7,365.78	33.64	33.59	112.49	-214.97	-1,258.63	510.93	444.81	66.11	7.728		
9,100.00	7,170.48	9,270.33	7,365.91	35.08	35.03	112.49	-214.74	-1,358.63	510.82	442.01	68.82	7.423		
9,200.00	7,170.64	9,370.33	7,366.04	36.54	36.49	112.49	-214.50	-1,458.63	510.72	439.16	71.56	7.137		
9,300.00	7,170.81	9,470.33	7,366.17	38.02	37.96	112.49	-214.27	-1,558.63	510.62	436.28	74.33	6.869		
9,400.00	7,170.98	9,570.33	7,366.29	39.51	39.46	112.49	-214.03	-1,658.63	510.51	433.38	77.14	6.618		
9,500.00	7,171.14	9,670.33	7,366.42	41.01	40.96	112.49	-213.80	-1,758.63	510.41	430.44	79.97	6.383		
9,600.00	7,171.31	9,770.33	7,366.55	42.53	42.48	112.49	-213.56	-1,858.63	510.31	427.48	82.82	6.161		
9,700.00	7,171.48	9,870.33	7,366.68	44.05	44.01	112.49	-213.33	-1,958.63	510.21	424.51	85.70	5.953		
9,800.00	7,171.64	9,970.33	7,366.81	45.59	45.55	112.49	-213.09	-2,058.63	510.10	421.51	88.59	5.758		
9,900.00	7,171.81	10,070.33	7,366.93	47.14	47.10	112.49	-212.86	-2,158.63	510.00	418.49	91.51	5.573		
10,000.00	7,171.98	10,170.33	7,367.06	48.69	48.66	112.49	-212.62	-2,258.63	509.90	415.46	94.43	5.400		
10,100.00	7,172.14	10,270.33	7,367.19	50.26	50.22	112.49	-212.39	-2,358.63	509.79	412.42	97.37	5.235		
10,200.00	7,172.31	10,370.33	7,367.32	51.83	51.79	112.49	-212.15	-2,458.63	509.69	409.36	100.33	5.080		
10,300.00	7,172.48	10,470.33	7,367.45	53.40	53.37	112.49	-211.92	-2,558.62	509.59	406.29	103.30	4.933		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.64	10,570.33	7,367.58	54.98	54.95	112.50	-211.68	-2,658.62	509.48	403.21	106.27	4.794		
10,500.00	7,172.81	10,670.33	7,367.70	56.57	56.54	112.50	-211.45	-2,758.62	509.38	400.12	109.26	4.662		
10,600.00	7,172.98	10,770.33	7,367.83	58.16	58.13	112.50	-211.21	-2,858.62	509.28	397.02	112.26	4.537		
10,700.00	7,173.14	10,870.33	7,367.96	59.75	59.73	112.50	-210.97	-2,958.62	509.17	393.91	115.26	4.417		
10,800.00	7,173.31	10,970.33	7,368.09	61.35	61.33	112.50	-210.74	-3,058.62	509.07	390.80	118.28	4.304		
10,900.00	7,173.48	11,070.33	7,368.22	62.96	62.93	112.50	-210.50	-3,158.62	508.97	387.67	121.30	4.196		
11,000.00	7,173.65	11,170.33	7,368.34	64.56	64.54	112.50	-210.27	-3,258.62	508.87	384.54	124.32	4.093		
11,100.00	7,173.81	11,270.33	7,368.47	66.17	66.15	112.50	-210.03	-3,358.62	508.76	381.41	127.36	3.995		
11,200.00	7,173.98	11,370.33	7,368.60	67.79	67.77	112.50	-209.80	-3,458.62	508.66	378.26	130.40	3.901		
11,300.00	7,174.15	11,470.33	7,368.73	69.40	69.38	112.50	-209.56	-3,558.62	508.56	375.12	133.44	3.811		
11,400.00	7,174.31	11,570.33	7,368.86	71.02	71.00	112.50	-209.33	-3,658.62	508.45	371.96	136.49	3.725		
11,500.00	7,174.48	11,670.33	7,368.99	72.64	72.62	112.50	-209.09	-3,758.62	508.35	368.81	139.54	3.643		
11,600.00	7,174.65	11,770.33	7,369.11	74.26	74.25	112.50	-208.86	-3,858.62	508.25	365.64	142.60	3.564		
11,700.00	7,174.81	11,870.33	7,369.24	75.89	75.87	112.50	-208.62	-3,958.62	508.14	362.48	145.67	3.488		
11,800.00	7,174.98	11,970.33	7,369.37	77.51	77.50	112.50	-208.39	-4,058.62	508.04	359.31	148.73	3.416		
11,900.00	7,175.15	12,070.33	7,369.50	79.14	79.13	112.50	-208.15	-4,158.62	507.94	356.14	151.80	3.346		
12,000.00	7,175.31	12,170.33	7,369.63	80.77	80.76	112.50	-207.92	-4,258.62	507.84	352.96	154.88	3.279		
12,100.00	7,175.48	12,270.33	7,369.75	82.40	82.40	112.50	-207.68	-4,358.62	507.73	349.78	157.95	3.214		
12,200.00	7,175.65	12,370.33	7,369.88	84.04	84.03	112.50	-207.45	-4,458.62	507.63	346.60	161.03	3.152		
12,300.00	7,175.81	12,470.33	7,370.01	85.67	85.67	112.50	-207.21	-4,558.62	507.53	343.41	164.11	3.093		
12,400.00	7,175.98	12,570.33	7,370.14	87.31	87.30	112.50	-206.98	-4,658.62	507.42	340.22	167.20	3.035		
12,500.00	7,176.15	12,670.33	7,370.27	88.95	88.94	112.50	-206.74	-4,758.62	507.32	337.03	170.29	2.979		
12,600.00	7,176.31	12,770.33	7,370.40	90.59	90.58	112.50	-206.51	-4,858.62	507.22	333.84	173.38	2.926		
12,700.00	7,176.48	12,870.33	7,370.52	92.23	92.22	112.50	-206.27	-4,958.62	507.11	330.64	176.47	2.874		
12,800.00	7,176.65	12,970.33	7,370.65	93.87	93.87	112.50	-206.04	-5,058.61	507.01	327.45	179.56	2.824		
12,900.00	7,176.81	13,070.33	7,370.78	95.51	95.51	112.50	-205.80	-5,158.61	506.91	324.25	182.66	2.775		
13,000.00	7,176.98	13,170.33	7,370.91	97.15	97.15	112.50	-205.57	-5,258.61	506.80	321.04	185.76	2.728		
13,100.00	7,177.15	13,270.33	7,371.04	98.80	98.80	112.50	-205.33	-5,358.61	506.70	317.84	188.86	2.683		
13,200.00	7,177.31	13,370.33	7,371.16	100.44	100.44	112.50	-205.10	-5,458.61	506.60	314.64	191.96	2.639		
13,300.00	7,177.48	13,470.33	7,371.29	102.09	102.09	112.50	-204.86	-5,558.61	506.50	311.43	195.07	2.597		
13,400.00	7,177.65	13,570.33	7,371.42	103.74	103.74	112.50	-204.63	-5,658.61	506.39	308.22	198.17	2.555		
13,500.00	7,177.81	13,670.33	7,371.55	105.38	105.39	112.50	-204.39	-5,758.61	506.29	305.01	201.28	2.515		
13,600.00	7,177.98	13,770.33	7,371.68	107.03	107.04	112.50	-204.16	-5,858.61	506.19	301.80	204.39	2.477		
13,700.00	7,178.15	13,870.33	7,371.80	108.68	108.69	112.50	-203.92	-5,958.61	506.08	298.58	207.50	2.439		
13,800.00	7,178.31	13,970.33	7,371.93	110.33	110.34	112.50	-203.68	-6,058.61	505.98	295.37	210.61	2.402		
13,900.00	7,178.48	14,070.33	7,372.06	111.98	111.99	112.50	-203.45	-6,158.61	505.88	292.15	213.72	2.367		
14,000.00	7,178.65	14,170.33	7,372.19	113.63	113.64	112.50	-203.21	-6,258.61	505.77	288.94	216.84	2.333		
14,100.00	7,178.81	14,270.33	7,372.32	115.29	115.29	112.50	-202.98	-6,358.61	505.67	285.72	219.95	2.299		
14,200.00	7,178.98	14,370.33	7,372.45	116.94	116.95	112.50	-202.74	-6,458.61	505.57	282.50	223.07	2.266		
14,300.00	7,179.15	14,470.33	7,372.57	118.59	118.60	112.50	-202.51	-6,558.61	505.46	279.28	226.18	2.235		
14,400.00	7,179.31	14,570.33	7,372.70	120.24	120.25	112.50	-202.27	-6,658.61	505.36	276.06	229.30	2.204		
14,500.00	7,179.48	14,670.33	7,372.83	121.90	121.91	112.50	-202.04	-6,758.61	505.26	272.84	232.42	2.174		
14,600.00	7,179.65	14,770.33	7,372.96	123.55	123.56	112.50	-201.80	-6,858.61	505.16	269.61	235.54	2.145		
14,700.00	7,179.82	14,870.33	7,373.09	125.21	125.22	112.50	-201.57	-6,958.61	505.05	266.39	238.66	2.116		
14,800.00	7,179.98	14,970.33	7,373.21	126.86	126.87	112.50	-201.33	-7,058.61	504.95	263.17	241.78	2.088		
14,900.00	7,180.15	15,070.33	7,373.34	128.52	128.53	112.50	-201.10	-7,158.61	504.85	259.94	244.91	2.061		
15,000.00	7,180.32	15,170.33	7,373.47	130.17	130.19	112.50	-200.86	-7,258.61	504.74	256.71	248.03	2.035		
15,100.00	7,180.48	15,270.33	7,373.60	131.83	131.84	112.50	-200.63	-7,358.61	504.64	253.49	251.15	2.009		
15,200.00	7,180.65	15,370.33	7,373.73	133.49	133.50	112.50	-200.39	-7,458.60	504.54	250.26	254.28	1.984		
15,300.00	7,180.82	15,470.33	7,373.86	135.15	135.16	112.50	-200.16	-7,558.60	504.43	247.03	257.41	1.960		
15,400.00	7,180.98	15,570.33	7,373.98	136.80	136.82	112.50	-199.92	-7,658.60	504.33	243.80	260.53	1.936		
15,410.68	7,181.00	15,581.01	7,374.00	136.98	136.99	112.50	-199.90	-7,669.29	504.32	243.45	260.87	1.933 SF		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	40.08	-0.28	40.08					
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	40.08	-0.28	40.08	32.55	7.53	5.323		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.08	-0.28	40.08	32.50	7.57	5.292 CC, ES		
300.00	299.98	300.49	300.47	3.35	3.35	-129.26	39.47	1.38	40.58	32.93	7.66	5.301		
400.00	399.84	400.95	400.79	3.41	3.41	-128.02	37.67	6.34	42.11	34.33	7.78	5.415		
500.00	499.45	501.37	500.82	3.49	3.50	-126.14	34.66	14.60	44.69	36.74	7.95	5.623		
600.00	598.70	601.68	600.37	3.61	3.62	-123.88	30.47	26.12	48.37	40.19	8.18	5.915		
700.00	697.51	701.55	699.31	3.76	3.77	-123.46	25.83	38.85	53.54	45.07	8.47	6.320		
800.00	796.21	801.39	798.23	3.95	3.94	-123.70	21.20	51.59	59.09	50.27	8.81	6.703		
900.00	894.91	901.24	897.15	4.16	4.14	-123.91	16.56	64.32	64.63	55.43	9.20	7.024		
1,000.00	993.61	1,001.08	996.08	4.40	4.35	-124.08	11.93	77.05	70.18	60.55	9.63	7.289		
1,100.00	1,092.32	1,100.93	1,095.00	4.66	4.59	-124.22	7.30	89.79	75.72	65.63	10.09	7.507		
1,200.00	1,191.02	1,200.78	1,193.92	4.93	4.83	-124.35	2.66	102.52	81.27	70.69	10.57	7.685		
1,300.00	1,289.72	1,300.62	1,292.84	5.21	5.09	-124.46	-1.97	115.25	86.81	75.73	11.09	7.831		
1,400.00	1,388.42	1,400.47	1,391.77	5.51	5.36	-124.55	-6.61	127.99	92.36	80.74	11.62	7.949		
1,500.00	1,487.13	1,500.31	1,490.69	5.81	5.64	-124.64	-11.24	140.72	97.91	85.74	12.17	8.046		
1,600.00	1,585.83	1,600.16	1,589.61	6.13	5.92	-124.71	-15.88	153.45	103.45	90.72	12.73	8.124		
1,700.00	1,684.53	1,700.01	1,688.53	6.45	6.22	-124.78	-20.51	166.19	109.00	95.69	13.31	8.188		
1,800.00	1,783.23	1,800.15	1,787.45	6.78	6.51	-124.84	-25.15	178.92	114.55	100.64	13.90	8.239		
1,900.00	1,881.94	1,900.30	1,886.38	6.96	6.67	-124.90	-29.78	191.66	120.09	106.25	13.84	8.677		
2,000.00	1,980.64	2,000.46	1,985.30	6.99	6.71	-124.95	-34.42	204.39	125.64	111.74	13.90	9.039		
2,100.00	2,079.34	2,100.61	2,084.22	7.05	6.75	-125.00	-39.05	217.12	131.19	117.20	13.99	9.377		
2,200.00	2,178.04	2,200.76	2,183.14	7.12	6.81	-125.04	-43.69	229.86	136.74	122.63	14.11	9.691		
2,300.00	2,276.75	2,300.92	2,282.07	7.20	6.89	-125.08	-48.32	242.59	142.28	128.03	14.26	9.979		
2,400.00	2,375.45	2,401.07	2,380.99	7.30	6.98	-125.12	-52.95	255.32	147.83	133.40	14.44	10.241		
2,500.00	2,474.15	2,501.23	2,479.91	7.42	7.08	-125.15	-57.59	268.06	153.38	138.74	14.64	10.477		
2,600.00	2,572.85	2,601.38	2,578.83	7.54	7.20	-125.18	-62.22	280.79	158.93	144.06	14.87	10.689		
2,700.00	2,671.56	2,701.53	2,677.75	7.68	7.32	-125.21	-66.86	293.52	164.48	149.35	15.12	10.876		
2,800.00	2,770.26	2,801.69	2,776.68	7.84	7.46	-125.24	-71.49	306.26	170.02	154.62	15.40	11.040		
2,900.00	2,868.96	2,901.84	2,875.60	8.00	7.62	-125.27	-76.13	318.99	175.57	159.87	15.70	11.183		
3,000.00	2,967.66	3,002.00	2,974.52	8.18	7.78	-125.29	-80.76	331.72	181.12	165.10	16.02	11.306		
3,100.00	3,066.37	3,102.15	3,073.44	8.36	7.95	-125.31	-85.40	344.46	186.67	170.31	16.36	11.410		
3,200.00	3,165.07	3,202.31	3,172.36	8.56	8.13	-125.33	-90.03	357.19	192.22	175.50	16.72	11.498		
3,300.00	3,263.77	3,302.46	3,271.29	8.76	8.32	-125.35	-94.67	369.92	197.76	180.67	17.09	11.570		
3,400.00	3,362.47	3,402.61	3,370.21	8.97	8.51	-125.37	-99.30	382.66	203.31	185.83	17.48	11.629		
3,500.00	3,461.18	3,502.77	3,469.13	9.19	8.72	-125.39	-103.94	395.39	208.86	190.97	17.89	11.675		
3,600.00	3,559.88	3,602.92	3,568.05	9.42	8.93	-125.41	-108.57	408.12	214.41	196.10	18.31	11.711		
3,700.00	3,658.58	3,703.08	3,666.98	9.65	9.14	-125.43	-113.20	420.86	219.96	201.22	18.74	11.736		
3,800.00	3,757.28	3,803.23	3,765.90	9.89	9.37	-125.44	-117.84	433.59	225.51	206.32	19.19	11.754		
3,900.00	3,855.99	3,903.38	3,864.82	10.14	9.59	-125.46	-122.47	446.32	231.05	211.41	19.64	11.763		
4,000.00	3,954.69	4,003.54	3,963.74	10.39	9.83	-125.47	-127.11	459.06	236.60	216.49	20.11	11.767		
4,100.00	4,053.39	4,103.69	4,062.66	10.65	10.07	-125.48	-131.74	471.79	242.15	221.57	20.58	11.765		
4,200.00	4,152.09	4,203.85	4,161.59	10.91	10.31	-125.50	-136.38	484.52	247.70	226.63	21.07	11.757		
4,300.00	4,250.79	4,304.00	4,260.51	11.17	10.56	-125.51	-141.01	497.26	253.25	231.69	21.56	11.746		
4,400.00	4,349.50	4,404.15	4,359.43	11.44	10.81	-125.52	-145.65	509.99	258.79	236.73	22.06	11.731		
4,500.00	4,448.20	4,504.31	4,458.35	11.71	11.06	-125.53	-150.28	522.72	264.34	241.77	22.57	11.713		
4,600.00	4,546.90	4,604.46	4,557.27	11.99	11.32	-125.54	-154.92	535.46	269.89	246.81	23.08	11.692		
4,700.00	4,645.60	4,704.62	4,656.20	12.27	11.58	-125.55	-159.55	548.19	275.44	251.84	23.60	11.669		
4,800.00	4,744.31	4,804.77	4,755.12	12.55	11.85	-125.56	-164.18	560.93	280.99	256.86	24.13	11.644		
4,900.00	4,843.01	4,904.92	4,854.04	12.84	12.12	-125.57	-168.82	573.66	286.54	261.87	24.66	11.618		
5,000.00	4,941.71	5,005.08	4,952.96	13.12	12.38	-125.58	-173.45	586.39	292.08	266.88	25.20	11.590		
5,100.00	5,040.41	5,105.23	5,051.89	13.41	12.66	-125.59	-178.09	599.13	297.63	271.89	25.74	11.562		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	5,139.12	5,205.39	5,150.81	13.71	12.93	-125.60	-182.72	611.86	303.18	276.89	26.29	11.533	
5,300.00	5,237.82	5,305.54	5,249.73	14.00	13.21	-125.61	-187.36	624.59	308.73	281.89	26.84	11.503	
5,400.00	5,336.52	5,405.69	5,348.65	14.30	13.49	-125.61	-191.99	637.33	314.28	286.88	27.39	11.472	
5,500.00	5,435.22	5,505.85	5,447.57	14.60	13.77	-125.62	-196.63	650.06	319.83	291.87	27.95	11.441	
5,600.00	5,533.93	5,606.00	5,546.50	14.90	14.05	-125.63	-201.26	662.79	325.37	296.86	28.52	11.410	
5,700.00	5,632.63	5,706.16	5,645.42	15.20	14.33	-125.64	-205.90	675.53	330.92	301.84	29.08	11.379	
5,800.00	5,731.33	5,806.31	5,744.34	15.50	14.62	-125.64	-210.53	688.26	336.47	306.82	29.65	11.348	
5,900.00	5,830.03	5,906.46	5,843.26	15.81	14.90	-125.65	-215.17	700.99	342.02	311.80	30.22	11.317	
6,000.00	5,928.74	6,006.62	5,942.19	16.11	15.19	-125.66	-219.80	713.73	347.57	316.77	30.79	11.287	
6,100.00	6,027.44	6,106.77	6,041.11	16.42	15.48	-125.66	-224.43	726.46	353.12	321.75	31.37	11.256	
6,200.00	6,126.14	6,206.93	6,140.03	16.73	15.77	-125.67	-229.07	739.19	358.66	326.71	31.95	11.226	
6,300.00	6,224.84	6,307.08	6,238.95	17.04	16.07	-125.68	-233.70	751.93	364.21	331.68	32.53	11.196	
6,400.00	6,323.55	6,393.02	6,338.13	17.35	16.31	-125.69	-238.35	764.65	369.76	336.69	33.07	11.181	
6,500.00	6,422.25	6,495.41	6,440.23	17.67	16.49	-127.13	-243.11	768.33	374.87	341.40	33.47	11.199	
6,600.00	6,521.26	6,593.46	6,537.36	17.91	16.61	-169.45	-247.59	756.46	380.28	346.63	33.65	11.300	
6,700.00	6,620.47	6,688.23	6,628.44	18.07	16.68	122.42	-251.76	730.95	386.86	353.16	33.70	11.481	
6,800.00	6,717.57	6,780.28	6,712.35	18.18	16.71	101.49	-255.56	693.48	394.31	360.65	33.66	11.715	
6,900.00	6,810.17	6,870.00	6,788.12	18.24	16.72	92.17	-258.96	645.68	402.21	368.65	33.57	11.983	
7,000.00	6,895.98	6,957.76	6,855.02	18.27	16.73	86.40	-261.92	589.07	410.15	376.69	33.46	12.259	
7,100.00	6,972.90	7,043.88	6,912.51	18.27	16.75	82.33	-264.42	525.08	417.70	384.32	33.39	12.510	
7,200.00	7,039.03	7,128.68	6,960.19	18.25	16.81	79.32	-266.45	455.06	424.51	391.08	33.42	12.701	
7,300.00	7,092.74	7,212.43	6,997.75	18.23	16.90	77.09	-267.99	380.29	430.23	396.62	33.61	12.800	
7,400.00	7,132.71	7,295.39	7,024.98	18.23	17.07	75.53	-269.05	302.00	434.62	400.61	34.00	12.782	
7,500.00	7,157.96	7,377.81	7,041.74	18.28	17.32	74.56	-269.61	221.36	437.47	402.86	34.61	12.640	
7,600.00	7,167.85	7,459.92	7,047.95	18.46	17.66	74.14	-269.68	139.54	438.67	403.25	35.42	12.385	
7,700.00	7,168.14	7,558.35	7,048.01	18.86	18.20	74.11	-269.42	41.12	438.68	402.22	36.46	12.031	
7,800.00	7,168.31	7,658.34	7,048.02	19.49	18.89	74.08	-269.15	-58.88	438.66	400.91	37.75	11.620	
7,900.00	7,168.48	7,758.34	7,048.03	20.27	19.71	74.06	-268.88	-158.88	438.65	399.38	39.27	11.170	
8,000.00	7,168.64	7,858.34	7,048.05	21.18	20.63	74.04	-268.61	-258.88	438.63	397.64	40.99	10.700	
8,100.00	7,168.81	7,958.34	7,048.06	22.18	21.65	74.02	-268.34	-358.88	438.61	395.71	42.90	10.224	
8,200.00	7,168.98	8,058.34	7,048.07	23.25	22.75	74.00	-268.07	-458.88	438.59	393.63	44.96	9.755	
8,300.00	7,169.14	8,158.34	7,048.09	24.40	23.91	73.98	-267.80	-558.88	438.58	391.42	47.16	9.300	
8,400.00	7,169.31	8,258.34	7,048.10	25.60	25.13	73.96	-267.54	-658.88	438.56	389.08	49.48	8.864	
8,500.00	7,169.48	8,358.34	7,048.11	26.85	26.40	73.93	-267.27	-758.88	438.54	386.65	51.90	8.450	
8,600.00	7,169.64	8,458.34	7,048.12	28.14	27.71	73.91	-267.00	-858.88	438.53	384.12	54.40	8.061	
8,700.00	7,169.81	8,558.34	7,048.14	29.47	29.06	73.89	-266.73	-958.88	438.51	381.52	56.99	7.695	
8,800.00	7,169.98	8,658.34	7,048.15	30.83	30.45	73.87	-266.46	-1,058.88	438.49	378.86	59.64	7.353	
8,900.00	7,170.14	8,758.34	7,048.16	32.23	31.86	73.85	-266.19	-1,158.88	438.47	376.13	62.34	7.033	
9,000.00	7,170.31	8,858.34	7,048.18	33.64	33.29	73.83	-265.93	-1,258.88	438.46	373.36	65.10	6.735	
9,100.00	7,170.48	8,958.34	7,048.19	35.08	34.75	73.80	-265.66	-1,358.88	438.44	370.54	67.90	6.457	
9,200.00	7,170.64	9,058.34	7,048.20	36.54	36.22	73.78	-265.39	-1,458.87	438.42	367.69	70.74	6.198	
9,300.00	7,170.81	9,158.34	7,048.21	38.02	37.71	73.76	-265.12	-1,558.87	438.41	364.79	73.61	5.956	
9,400.00	7,170.98	9,258.34	7,048.23	39.51	39.21	73.74	-264.85	-1,658.87	438.39	361.87	76.52	5.729	
9,500.00	7,171.14	9,358.34	7,048.24	41.01	40.73	73.72	-264.58	-1,758.87	438.37	358.93	79.45	5.518	
9,600.00	7,171.31	9,458.34	7,048.25	42.53	42.26	73.70	-264.31	-1,858.87	438.36	355.96	82.40	5.320	
9,700.00	7,171.48	9,558.34	7,048.27	44.05	43.80	73.67	-264.05	-1,958.87	438.34	352.97	85.38	5.134	
9,800.00	7,171.64	9,658.34	7,048.28	45.59	45.35	73.65	-263.78	-2,058.87	438.32	349.95	88.37	4.960	
9,900.00	7,171.81	9,758.34	7,048.29	47.14	46.91	73.63	-263.51	-2,158.87	438.31	346.93	91.38	4.796	
10,000.00	7,171.98	9,858.34	7,048.30	48.69	48.47	73.61	-263.24	-2,258.87	438.29	343.88	94.41	4.642	
10,100.00	7,172.14	9,958.34	7,048.32	50.26	50.05	73.59	-262.97	-2,358.87	438.28	340.83	97.45	4.497	
10,200.00	7,172.31	10,058.34	7,048.33	51.83	51.62	73.57	-262.70	-2,458.87	438.26	337.76	100.50	4.361	
10,300.00	7,172.48	10,158.34	7,048.34	53.40	53.21	73.55	-262.43	-2,558.87	438.24	334.68	103.57	4.231	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30A-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,172.64	10,258.34	7,048.36	54.98	54.80	73.52	-262.17	-2,658.87	438.23	331.58	106.64	4.109	
10,500.00	7,172.81	10,358.34	7,048.37	56.57	56.39	73.50	-261.90	-2,758.87	438.21	328.48	109.73	3.994	
10,600.00	7,172.98	10,458.34	7,048.38	58.16	57.99	73.48	-261.63	-2,858.87	438.20	325.37	112.82	3.884	
10,700.00	7,173.14	10,558.34	7,048.39	59.75	59.59	73.46	-261.36	-2,958.87	438.18	322.26	115.92	3.780	
10,800.00	7,173.31	10,658.34	7,048.41	61.35	61.20	73.44	-261.09	-3,058.87	438.16	319.13	119.03	3.681	
10,900.00	7,173.48	10,758.34	7,048.42	62.96	62.81	73.42	-260.82	-3,158.87	438.15	316.00	122.15	3.587	
11,000.00	7,173.65	10,858.34	7,048.43	64.56	64.42	73.39	-260.56	-3,258.87	438.13	312.86	125.27	3.498	
11,100.00	7,173.81	10,958.34	7,048.45	66.17	66.04	73.37	-260.29	-3,358.87	438.12	309.72	128.39	3.412	
11,200.00	7,173.98	11,058.34	7,048.46	67.79	67.66	73.35	-260.02	-3,458.86	438.10	306.57	131.53	3.331	
11,300.00	7,174.15	11,158.34	7,048.47	69.40	69.28	73.33	-259.75	-3,558.86	438.09	303.42	134.66	3.253	
11,400.00	7,174.31	11,258.34	7,048.48	71.02	70.90	73.31	-259.48	-3,658.86	438.07	300.27	137.80	3.179	
11,500.00	7,174.48	11,358.34	7,048.50	72.64	72.53	73.29	-259.21	-3,758.86	438.05	297.11	140.95	3.108	
11,600.00	7,174.65	11,458.34	7,048.51	74.26	74.15	73.26	-258.94	-3,858.86	438.04	293.94	144.10	3.040	
11,700.00	7,174.81	11,558.34	7,048.52	75.89	75.78	73.24	-258.68	-3,958.86	438.02	290.77	147.25	2.975	
11,800.00	7,174.98	11,658.34	7,048.54	77.51	77.41	73.22	-258.41	-4,058.86	438.01	287.60	150.41	2.912	
11,900.00	7,175.15	11,758.34	7,048.55	79.14	79.05	73.20	-258.14	-4,158.86	437.99	284.43	153.57	2.852	
12,000.00	7,175.31	11,858.34	7,048.56	80.77	80.68	73.18	-257.87	-4,258.86	437.98	281.25	156.73	2.795	
12,100.00	7,175.48	11,958.34	7,048.57	82.40	82.32	73.16	-257.60	-4,358.86	437.96	278.07	159.89	2.739	
12,200.00	7,175.65	12,058.34	7,048.59	84.04	83.96	73.13	-257.33	-4,458.86	437.95	274.89	163.06	2.686	
12,300.00	7,175.81	12,158.34	7,048.60	85.67	85.59	73.11	-257.06	-4,558.86	437.93	271.71	166.23	2.635	
12,400.00	7,175.98	12,258.34	7,048.61	87.31	87.23	73.09	-256.80	-4,658.86	437.92	268.52	169.40	2.585	
12,500.00	7,176.15	12,358.34	7,048.63	88.95	88.88	73.07	-256.53	-4,758.86	437.90	265.33	172.57	2.538	
12,600.00	7,176.31	12,458.34	7,048.64	90.59	90.52	73.05	-256.26	-4,858.86	437.89	262.14	175.75	2.492	
12,700.00	7,176.48	12,558.34	7,048.65	92.23	92.16	73.03	-255.99	-4,958.86	437.88	258.95	178.92	2.447	
12,800.00	7,176.65	12,658.34	7,048.66	93.87	93.81	73.00	-255.72	-5,058.86	437.86	255.76	182.10	2.404	
12,900.00	7,176.81	12,758.34	7,048.68	95.51	95.45	72.98	-255.45	-5,158.86	437.85	252.57	185.28	2.363	
13,000.00	7,176.98	12,858.34	7,048.69	97.15	97.10	72.96	-255.18	-5,258.86	437.83	249.37	188.46	2.323	
13,100.00	7,177.15	12,958.34	7,048.70	98.80	98.75	72.94	-254.92	-5,358.86	437.82	246.17	191.64	2.285	
13,200.00	7,177.31	13,058.34	7,048.72	100.44	100.39	72.92	-254.65	-5,458.86	437.80	242.98	194.83	2.247	
13,300.00	7,177.48	13,158.34	7,048.73	102.09	102.04	72.90	-254.38	-5,558.85	437.79	239.78	198.01	2.211	
13,400.00	7,177.65	13,258.34	7,048.74	103.74	103.69	72.87	-254.11	-5,658.85	437.77	236.58	201.20	2.176	
13,500.00	7,177.81	13,358.34	7,048.75	105.38	105.34	72.85	-253.84	-5,758.85	437.76	233.38	204.38	2.142	
13,600.00	7,177.98	13,458.34	7,048.77	107.03	106.99	72.83	-253.57	-5,858.85	437.75	230.18	207.57	2.109	
13,700.00	7,178.15	13,558.34	7,048.78	108.68	108.64	72.81	-253.31	-5,958.85	437.73	226.98	210.76	2.077	
13,800.00	7,178.31	13,658.34	7,048.79	110.33	110.30	72.79	-253.04	-6,058.85	437.72	223.77	213.95	2.046	
13,900.00	7,178.48	13,758.34	7,048.81	111.98	111.95	72.77	-252.77	-6,158.85	437.70	220.57	217.14	2.016	
14,000.00	7,178.65	13,858.34	7,048.82	113.63	113.60	72.75	-252.50	-6,258.85	437.69	217.37	220.33	1.987	
14,100.00	7,178.81	13,958.34	7,048.83	115.29	115.26	72.72	-252.23	-6,358.85	437.68	214.16	223.52	1.958	
14,200.00	7,178.98	14,058.34	7,048.84	116.94	116.91	72.70	-251.96	-6,458.85	437.66	210.96	226.71	1.931	
14,300.00	7,179.15	14,158.34	7,048.86	118.59	118.57	72.68	-251.69	-6,558.85	437.65	207.75	229.90	1.904	
14,400.00	7,179.31	14,258.34	7,048.87	120.24	120.22	72.66	-251.43	-6,658.85	437.64	204.55	233.09	1.878	
14,500.00	7,179.48	14,358.34	7,048.88	121.90	121.88	72.64	-251.16	-6,758.85	437.62	201.34	236.28	1.852	
14,600.00	7,179.65	14,458.34	7,048.90	123.55	123.53	72.62	-250.89	-6,858.85	437.61	198.13	239.48	1.827	
14,700.00	7,179.82	14,558.34	7,048.91	125.21	125.19	72.59	-250.62	-6,958.85	437.60	194.93	242.67	1.803	
14,800.00	7,179.98	14,658.34	7,048.92	126.86	126.85	72.57	-250.35	-7,058.85	437.58	191.72	245.86	1.780	
14,900.00	7,180.15	14,758.34	7,048.93	128.52	128.50	72.55	-250.08	-7,158.85	437.57	188.51	249.06	1.757	
15,000.00	7,180.32	14,858.34	7,048.95	130.17	130.16	72.53	-249.81	-7,258.85	437.56	185.31	252.25	1.735	
15,100.00	7,180.48	14,958.33	7,048.96	131.83	131.82	72.51	-249.55	-7,358.85	437.54	182.10	255.44	1.713	
15,200.00	7,180.65	15,058.33	7,048.97	133.49	133.48	72.49	-249.28	-7,458.85	437.53	178.89	258.64	1.692	
15,300.00	7,180.82	15,158.33	7,048.99	135.15	135.14	72.46	-249.01	-7,558.84	437.52	175.69	261.83	1.671	
15,400.00	7,180.98	15,258.33	7,049.00	136.80	136.80	72.44	-248.74	-7,658.84	437.50	172.48	265.03	1.651	
15,410.68	7,181.00	15,269.02	7,049.00	136.98	136.97	72.44	-248.71	-7,669.53	437.50	172.13	265.37	1.649 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.40	80.15	-0.56	80.15				
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.15	-0.56	80.15	72.62	7.53	10.646	
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.15	-0.56	80.15	72.58	7.57	10.583 CC, ES	
300.00	299.98	300.13	300.11	3.35	3.35	-129.40	80.07	1.19	81.18	73.52	7.66	10.602	
400.00	399.84	400.19	400.02	3.41	3.41	-128.54	79.84	6.43	84.27	76.49	7.78	10.831	
500.00	499.45	500.10	499.55	3.49	3.50	-127.24	79.46	15.13	89.45	81.50	7.96	11.244	
600.00	598.70	600.19	598.55	3.61	3.62	-125.80	78.95	27.01	96.76	88.57	8.19	11.815	
700.00	697.51	700.62	697.33	3.76	3.77	-125.67	78.40	39.51	105.98	97.50	8.48	12.495	
800.00	796.21	801.08	796.08	3.95	3.94	-125.91	77.85	52.01	115.59	106.77	8.82	13.104	
900.00	894.91	901.55	894.82	4.16	4.13	-126.11	77.31	64.51	125.21	116.01	9.20	13.604	
1,000.00	993.61	1,002.01	993.57	4.40	4.34	-126.29	76.76	77.00	134.83	125.20	9.62	14.009	
1,100.00	1,092.32	1,102.48	1,092.32	4.66	4.56	-126.44	76.22	89.50	144.44	134.37	10.08	14.334	
1,200.00	1,191.02	1,202.94	1,191.06	4.93	4.80	-126.57	75.67	102.00	154.06	143.51	10.56	14.593	
1,300.00	1,289.72	1,303.40	1,289.81	5.21	5.05	-126.68	75.13	114.50	163.68	152.62	11.06	14.798	
1,400.00	1,388.42	1,403.87	1,388.55	5.51	5.31	-126.79	74.58	127.00	173.30	161.72	11.59	14.958	
1,500.00	1,487.13	1,504.33	1,487.30	5.81	5.57	-126.88	74.03	139.49	182.92	170.80	12.13	15.083	
1,600.00	1,585.83	1,604.80	1,586.05	6.13	5.85	-126.96	73.49	151.99	192.55	179.86	12.68	15.179	
1,700.00	1,684.53	1,705.26	1,684.79	6.45	6.13	-127.04	72.94	164.49	202.17	188.91	13.25	15.252	
1,800.00	1,783.23	1,805.73	1,783.54	6.78	6.41	-127.11	72.40	176.99	211.79	197.96	13.83	15.316	
1,900.00	1,881.94	1,906.19	1,882.29	6.96	6.56	-127.17	71.85	189.48	221.41	207.66	13.75	16.097	
2,000.00	1,980.64	2,006.65	1,981.03	6.99	6.59	-127.22	71.31	201.98	231.03	217.22	13.81	16.726	
2,100.00	2,079.34	2,107.12	2,079.78	7.05	6.63	-127.28	70.76	214.48	240.66	226.75	13.90	17.311	
2,200.00	2,178.04	2,207.58	2,178.53	7.12	6.69	-127.33	70.21	226.98	250.28	236.26	14.02	17.851	
2,300.00	2,276.75	2,308.05	2,277.27	7.20	6.76	-127.37	69.67	239.47	259.90	245.73	14.17	18.345	
2,400.00	2,375.45	2,408.51	2,376.02	7.30	6.85	-127.41	69.12	251.97	269.52	255.18	14.34	18.793	
2,500.00	2,474.15	2,508.98	2,474.77	7.42	6.95	-127.45	68.58	264.47	279.15	264.60	14.54	19.194	
2,600.00	2,572.85	2,609.44	2,573.51	7.54	7.06	-127.49	68.03	276.97	288.77	274.00	14.77	19.551	
2,700.00	2,671.56	2,709.90	2,672.26	7.68	7.18	-127.52	67.49	289.47	298.39	283.37	15.02	19.865	
2,800.00	2,770.26	2,789.63	2,771.01	7.84	7.29	-127.55	66.94	301.96	308.02	292.75	15.27	20.176	
2,900.00	2,868.96	2,889.17	2,869.75	8.00	7.43	-127.58	66.39	314.46	317.64	302.08	15.56	20.415	
3,000.00	2,967.66	2,988.70	2,968.50	8.18	7.58	-127.61	65.85	326.96	327.26	311.39	15.87	20.618	
3,100.00	3,066.37	3,088.24	3,067.25	8.36	7.75	-127.64	65.30	339.46	336.89	320.68	16.20	20.790	
3,200.00	3,165.07	3,187.77	3,165.99	8.56	7.92	-127.66	64.76	351.95	346.51	329.96	16.55	20.931	
3,300.00	3,263.77	3,287.31	3,264.74	8.76	8.09	-127.69	64.21	364.45	356.14	339.21	16.92	21.045	
3,400.00	3,362.47	3,386.85	3,363.48	8.97	8.28	-127.71	63.67	376.95	365.76	348.45	17.31	21.136	
3,500.00	3,461.18	3,486.38	3,462.23	9.19	8.48	-127.73	63.12	389.45	375.38	357.68	17.70	21.205	
3,600.00	3,559.88	3,585.92	3,560.98	9.42	8.68	-127.75	62.58	401.94	385.01	366.89	18.11	21.254	
3,700.00	3,658.58	3,685.45	3,659.72	9.65	8.88	-127.77	62.03	414.44	394.63	376.09	18.54	21.287	
3,800.00	3,757.28	3,784.99	3,758.47	9.89	9.10	-127.79	61.48	426.94	404.26	385.28	18.97	21.305	
3,900.00	3,855.99	3,884.52	3,857.22	10.14	9.31	-127.81	60.94	439.44	413.88	394.46	19.42	21.310	
4,000.00	3,954.69	3,984.06	3,955.96	10.39	9.54	-127.82	60.39	451.94	423.50	403.63	19.88	21.304	
4,100.00	4,053.39	4,083.60	4,054.71	10.65	9.77	-127.84	59.85	464.43	433.13	412.78	20.35	21.288	
4,200.00	4,152.09	4,183.13	4,153.46	10.91	10.00	-127.85	59.30	476.93	442.75	421.93	20.82	21.264	
4,300.00	4,250.79	4,282.67	4,252.20	11.17	10.24	-127.87	58.76	489.43	452.38	431.07	21.31	21.232	
4,400.00	4,349.50	4,382.20	4,350.95	11.44	10.48	-127.88	58.21	501.93	462.00	440.20	21.80	21.195	
4,500.00	4,448.20	4,481.74	4,449.70	11.71	10.72	-127.90	57.66	514.42	471.63	449.33	22.30	21.152	
4,600.00	4,546.90	4,581.27	4,548.44	11.99	10.97	-127.91	57.12	526.92	481.25	458.45	22.80	21.104	
4,700.00	4,645.60	4,680.81	4,647.19	12.27	11.22	-127.92	56.57	539.42	490.87	467.56	23.32	21.054	
4,800.00	4,744.31	4,780.35	4,745.94	12.55	11.47	-127.93	56.03	551.92	500.50	476.67	23.83	21.000	
4,900.00	4,843.01	4,879.88	4,844.68	12.84	11.73	-127.94	55.48	564.41	510.12	485.77	24.36	20.944	
5,000.00	4,941.71	4,979.42	4,943.43	13.12	11.99	-127.95	54.94	576.91	519.75	494.86	24.89	20.885	
5,100.00	5,040.41	5,078.95	5,042.18	13.41	12.25	-127.97	54.39	589.41	529.37	503.95	25.42	20.826	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,178.49	5,140.92	13.71	12.51	-127.98	53.84	601.91	539.00	513.04	25.96	20.765		
5,300.00	5,237.82	5,278.02	5,239.67	14.00	12.78	-127.99	53.30	614.41	548.62	522.12	26.50	20.703		
5,400.00	5,336.52	5,377.56	5,338.41	14.30	13.05	-127.99	52.75	626.90	558.25	531.20	27.05	20.641		
5,500.00	5,435.22	5,477.10	5,437.16	14.60	13.32	-128.00	52.21	639.40	567.87	540.27	27.60	20.579		
5,600.00	5,533.93	5,576.63	5,535.91	14.90	13.59	-128.01	51.66	651.90	577.49	549.35	28.15	20.516		
5,700.00	5,632.63	5,676.17	5,634.65	15.20	13.86	-128.02	51.12	664.40	587.12	558.41	28.71	20.453		
5,800.00	5,731.33	5,775.70	5,733.40	15.50	14.14	-128.03	50.57	676.89	596.74	567.48	29.26	20.391		
5,900.00	5,830.03	5,875.24	5,832.15	15.81	14.41	-128.04	50.03	689.39	606.37	576.54	29.83	20.329		
6,000.00	5,928.74	5,974.77	5,930.89	16.11	14.69	-128.05	49.48	701.89	615.99	585.60	30.39	20.268		
6,100.00	6,027.44	6,074.31	6,029.64	16.42	14.97	-128.05	48.93	714.39	625.62	594.66	30.96	20.206		
6,200.00	6,126.14	6,173.85	6,128.39	16.73	15.25	-128.06	48.39	726.88	635.24	603.71	31.53	20.146		
6,300.00	6,224.84	6,273.38	6,227.13	17.04	15.53	-128.07	47.84	739.38	644.87	612.76	32.10	20.086		
6,400.00	6,323.55	6,372.92	6,325.88	17.35	15.81	-128.07	47.30	751.88	654.49	621.81	32.68	20.027		
6,500.00	6,422.25	6,472.45	6,424.63	17.67	16.10	-128.08	46.75	764.38	664.12	630.86	33.26	19.969		
6,600.00	6,521.26	6,576.16	6,527.91	17.91	16.33	-167.57	46.01	772.83	673.58	639.85	33.74	19.965		
6,700.00	6,620.47	6,681.30	6,632.61	18.07	16.47	126.91	44.65	764.79	682.43	648.40	34.03	20.055		
6,800.00	6,717.57	6,786.17	6,734.30	18.18	16.56	108.36	42.70	739.74	690.43	656.24	34.19	20.193		
6,900.00	6,810.17	6,890.64	6,830.15	18.24	16.60	101.16	40.21	698.55	697.39	663.14	34.26	20.358		
7,000.00	6,895.98	6,994.59	6,917.56	18.27	16.62	97.23	37.27	642.58	703.16	668.89	34.27	20.520		
7,100.00	6,972.90	7,097.91	6,994.26	18.27	16.65	94.70	33.96	573.61	707.59	673.30	34.29	20.637		
7,200.00	7,039.03	7,200.51	7,085.39	18.25	16.73	92.93	30.37	493.75	710.58	676.19	34.39	20.663		
7,300.00	7,092.74	7,302.29	7,108.52	18.23	16.87	91.66	26.62	405.38	712.08	677.43	34.65	20.553		
7,400.00	7,132.71	7,403.19	7,143.70	18.23	17.12	90.78	22.80	310.99	712.05	676.94	35.11	20.281		
7,500.00	7,157.96	7,503.19	7,163.41	18.28	17.48	90.21	19.01	213.14	710.49	674.69	35.80	19.845		
7,600.00	7,167.85	7,602.53	7,168.04	18.46	17.94	89.97	15.33	114.04	707.45	670.74	36.71	19.271		
7,700.00	7,168.14	7,702.45	7,168.22	18.86	18.53	90.00	11.66	14.19	703.46	665.58	37.88	18.572		
7,800.00	7,168.31	7,802.37	7,168.40	19.49	19.26	90.00	7.99	-85.66	699.46	660.16	39.30	17.799		
7,900.00	7,168.48	7,902.29	7,168.58	20.27	20.10	90.00	4.33	-185.51	695.46	654.52	40.95	16.985		
8,000.00	7,168.64	8,002.21	7,168.76	21.18	21.04	90.01	0.66	-285.37	691.46	648.67	42.79	16.158		
8,100.00	7,168.81	8,102.13	7,168.94	22.18	22.07	90.01	-3.00	-385.22	687.46	642.65	44.82	15.340		
8,200.00	7,168.98	8,202.05	7,169.12	23.25	23.17	90.01	-6.67	-485.07	683.46	636.47	46.99	14.545		
8,300.00	7,169.14	8,301.97	7,169.30	24.40	24.34	90.01	-10.34	-584.92	679.46	630.17	49.30	13.784		
8,400.00	7,169.31	8,401.89	7,169.48	25.60	25.56	90.01	-14.00	-684.78	675.47	623.75	51.72	13.061		
8,500.00	7,169.48	8,501.81	7,169.66	26.85	26.83	90.01	-17.67	-784.63	671.47	617.23	54.23	12.381		
8,600.00	7,169.64	8,601.73	7,169.84	28.14	28.14	90.01	-21.33	-884.48	667.47	610.63	56.84	11.744		
8,700.00	7,169.81	8,701.65	7,170.01	29.47	29.49	90.01	-25.00	-984.33	663.47	603.95	59.51	11.148		
8,800.00	7,169.98	8,801.57	7,170.19	30.83	30.86	90.02	-28.66	-1,084.19	659.47	597.21	62.26	10.593		
8,900.00	7,170.14	8,901.49	7,170.37	32.23	32.27	90.02	-32.33	-1,184.04	655.47	590.42	65.05	10.076		
9,000.00	7,170.31	9,001.41	7,170.55	33.64	33.70	90.02	-36.00	-1,283.89	651.47	583.57	67.90	9.595		
9,100.00	7,170.48	9,101.33	7,170.73	35.08	35.15	90.02	-39.66	-1,383.74	647.47	576.68	70.79	9.146		
9,200.00	7,170.64	9,201.25	7,170.91	36.54	36.62	90.02	-43.33	-1,483.60	643.47	569.75	73.72	8.729		
9,300.00	7,170.81	9,301.17	7,171.09	38.02	38.10	90.02	-46.99	-1,583.45	639.47	562.79	76.68	8.340		
9,400.00	7,170.98	9,401.09	7,171.27	39.51	39.60	90.02	-50.66	-1,683.30	635.47	555.80	79.67	7.976		
9,500.00	7,171.14	9,501.01	7,171.45	41.01	41.12	90.02	-54.33	-1,783.15	631.47	548.78	82.69	7.637		
9,600.00	7,171.31	9,600.00	7,171.63	42.53	42.62	90.03	-57.96	-1,882.08	627.48	541.76	85.71	7.321		
9,700.00	7,171.48	9,682.28	7,171.77	44.05	43.89	90.03	-59.71	-1,964.33	625.02	536.57	88.45	7.067		
9,800.00	7,171.64	9,779.24	7,171.95	45.59	45.39	90.03	-59.95	-2,061.29	624.44	532.97	91.47	6.827		
9,900.00	7,171.81	9,879.24	7,172.13	47.14	46.95	90.03	-60.16	-2,161.29	623.89	529.32	94.57	6.597		
10,000.00	7,171.98	9,979.24	7,172.31	48.69	48.51	90.03	-60.37	-2,261.29	623.35	525.66	97.69	6.381		
10,100.00	7,172.14	10,079.24	7,172.48	50.26	50.08	90.03	-60.58	-2,361.29	622.81	521.99	100.82	6.177		
10,200.00	7,172.31	10,179.23	7,172.66	51.83	51.65	90.03	-60.79	-2,461.29	622.27	518.30	103.97	5.985		
10,300.00	7,172.48	10,279.23	7,172.84	53.40	53.24	90.03	-61.00	-2,561.28	621.73	514.60	107.13	5.804		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,172.64	10,379.23	7,173.02	54.98	54.82	90.03	-61.21	-2,661.28	621.19	510.89	110.30	5.632	
10,500.00	7,172.81	10,479.23	7,173.20	56.57	56.42	90.04	-61.42	-2,761.28	620.65	507.17	113.48	5.469	
10,600.00	7,172.98	10,579.23	7,173.38	58.16	58.01	90.04	-61.62	-2,861.28	620.11	503.44	116.67	5.315	
10,700.00	7,173.14	10,679.23	7,173.56	59.75	59.61	90.04	-61.83	-2,961.28	619.57	499.71	119.86	5.169	
10,800.00	7,173.31	10,779.23	7,173.74	61.35	61.22	90.04	-62.04	-3,061.28	619.03	495.96	123.07	5.030	
10,900.00	7,173.48	10,879.22	7,173.92	62.96	62.82	90.04	-62.25	-3,161.27	618.49	492.21	126.28	4.898	
11,000.00	7,173.65	10,979.22	7,174.10	64.56	64.44	90.04	-62.46	-3,261.27	617.95	488.45	129.50	4.772	
11,100.00	7,173.81	11,079.22	7,174.28	66.17	66.05	90.04	-62.67	-3,361.27	617.41	484.68	132.73	4.652	
11,200.00	7,173.98	11,179.22	7,174.46	67.79	67.67	90.04	-62.88	-3,461.27	616.87	480.91	135.96	4.537	
11,300.00	7,174.15	11,279.22	7,174.63	69.40	69.29	90.04	-63.09	-3,561.27	616.33	477.14	139.19	4.428	
11,400.00	7,174.31	11,379.22	7,174.81	71.02	70.91	90.05	-63.30	-3,661.26	615.79	473.35	142.44	4.323	
11,500.00	7,174.48	11,479.21	7,174.99	72.64	72.53	90.05	-63.51	-3,761.26	615.25	469.57	145.68	4.223	
11,600.00	7,174.65	11,579.21	7,175.17	74.26	74.16	90.05	-63.72	-3,861.26	614.71	465.78	148.93	4.127	
11,700.00	7,174.81	11,679.21	7,175.35	75.89	75.79	90.05	-63.93	-3,961.26	614.17	461.98	152.19	4.036	
11,800.00	7,174.98	11,779.21	7,175.53	77.51	77.42	90.05	-64.14	-4,061.26	613.63	458.18	155.44	3.948	
11,900.00	7,175.15	11,879.21	7,175.71	79.14	79.05	90.05	-64.35	-4,161.26	613.09	454.38	158.71	3.863	
12,000.00	7,175.31	11,979.21	7,175.89	80.77	80.68	90.05	-64.56	-4,261.25	612.55	450.58	161.97	3.782	
12,100.00	7,175.48	12,079.21	7,176.07	82.40	82.31	90.05	-64.77	-4,361.25	612.01	446.77	165.24	3.704	
12,200.00	7,175.65	12,179.20	7,176.25	84.04	83.95	90.06	-64.98	-4,461.25	611.47	442.96	168.51	3.629	
12,300.00	7,175.81	12,279.20	7,176.43	85.67	85.59	90.06	-65.19	-4,561.25	610.93	439.14	171.78	3.556	
12,400.00	7,175.98	12,379.20	7,176.61	87.31	87.23	90.06	-65.40	-4,661.25	610.39	435.33	175.06	3.487	
12,500.00	7,176.15	12,479.20	7,176.78	88.95	88.87	90.06	-65.61	-4,761.24	609.84	431.51	178.34	3.420	
12,600.00	7,176.31	12,579.20	7,176.96	90.59	90.51	90.06	-65.82	-4,861.24	609.30	427.68	181.62	3.355	
12,700.00	7,176.48	12,679.20	7,177.14	92.23	92.15	90.06	-66.03	-4,961.24	608.76	423.86	184.90	3.292	
12,800.00	7,176.65	12,779.20	7,177.32	93.87	93.79	90.06	-66.24	-5,061.24	608.22	420.03	188.19	3.232	
12,900.00	7,176.81	12,879.19	7,177.50	95.51	95.44	90.06	-66.45	-5,161.24	607.68	416.21	191.48	3.174	
13,000.00	7,176.98	12,979.19	7,177.68	97.15	97.08	90.07	-66.66	-5,261.24	607.14	412.38	194.77	3.117	
13,100.00	7,177.15	13,079.19	7,177.86	98.80	98.73	90.07	-66.87	-5,361.23	606.60	408.54	198.06	3.063	
13,200.00	7,177.31	13,179.19	7,178.04	100.44	100.38	90.07	-67.08	-5,461.23	606.06	404.71	201.35	3.010	
13,300.00	7,177.48	13,279.19	7,178.22	102.09	102.03	90.07	-67.29	-5,561.23	605.52	400.88	204.65	2.959	
13,400.00	7,177.65	13,379.19	7,178.40	103.74	103.67	90.07	-67.50	-5,661.23	604.98	397.04	207.94	2.909	
13,500.00	7,177.81	13,479.19	7,178.58	105.38	105.32	90.07	-67.70	-5,761.23	604.44	393.20	211.24	2.861	
13,600.00	7,177.98	13,579.18	7,178.76	107.03	106.97	90.07	-67.91	-5,861.22	603.90	389.36	214.54	2.815	
13,700.00	7,178.15	13,679.18	7,178.93	108.68	108.62	90.07	-68.12	-5,961.22	603.36	385.52	217.84	2.770	
13,800.00	7,178.31	13,779.18	7,179.11	110.33	110.27	90.08	-68.33	-6,061.22	602.82	381.68	221.14	2.726	
13,900.00	7,178.48	13,879.18	7,179.29	111.98	111.93	90.08	-68.54	-6,161.22	602.28	377.83	224.45	2.683	
14,000.00	7,178.65	13,979.18	7,179.47	113.63	113.58	90.08	-68.75	-6,261.22	601.74	373.99	227.75	2.642	
14,100.00	7,178.81	14,079.18	7,179.65	115.29	115.23	90.08	-68.96	-6,361.22	601.20	370.14	231.06	2.602	
14,200.00	7,178.98	14,179.18	7,179.83	116.94	116.89	90.08	-69.17	-6,461.21	600.66	366.30	234.36	2.563	
14,300.00	7,179.15	14,279.17	7,180.01	118.59	118.54	90.08	-69.38	-6,561.21	600.12	362.45	237.67	2.525	
14,400.00	7,179.31	14,379.17	7,180.19	120.24	120.19	90.08	-69.59	-6,661.21	599.58	358.60	240.98	2.488	
14,500.00	7,179.48	14,479.17	7,180.37	121.90	121.85	90.08	-69.80	-6,761.21	599.04	354.75	244.29	2.452	
14,600.00	7,179.65	14,579.17	7,180.55	123.55	123.50	90.09	-70.01	-6,861.21	598.50	350.90	247.60	2.417	
14,700.00	7,179.82	14,679.17	7,180.73	125.21	125.16	90.09	-70.22	-6,961.20	597.96	347.05	250.91	2.383	
14,800.00	7,179.98	14,779.17	7,180.91	126.86	126.82	90.09	-70.43	-7,061.20	597.42	343.19	254.22	2.350	
14,900.00	7,180.15	14,879.17	7,181.09	128.52	128.47	90.09	-70.64	-7,161.20	596.88	339.34	257.53	2.318	
15,000.00	7,180.32	14,979.16	7,181.26	130.17	130.13	90.09	-70.85	-7,261.20	596.34	335.49	260.85	2.286	
15,100.00	7,180.48	15,079.16	7,181.44	131.83	131.79	90.09	-71.06	-7,361.20	595.80	331.63	264.16	2.255	
15,200.00	7,180.65	15,179.16	7,181.62	133.49	133.44	90.09	-71.27	-7,461.19	595.25	327.78	267.48	2.225	
15,300.00	7,180.82	15,279.16	7,181.80	135.15	135.10	90.09	-71.48	-7,561.19	594.71	323.92	270.79	2.196	
15,400.00	7,180.98	15,379.16	7,181.98	136.80	136.76	90.10	-71.69	-7,661.19	594.17	320.06	274.11	2.168	
15,410.68	7,181.00	15,389.84	7,182.00	136.98	136.94	90.10	-71.71	-7,671.88	594.12	319.65	274.46	2.165 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.32	100.18	-0.56	100.18				
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	100.18	-0.56	100.18	92.65	7.53	13.306	
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	100.18	-0.56	100.18	92.60	7.57	13.227	CC, ES
300.00	299.98	299.36	299.34	3.35	3.35	-129.39	100.49	1.14	101.60	93.94	7.66	13.269	
400.00	399.84	398.59	398.43	3.41	3.41	-128.75	101.44	6.21	105.88	98.09	7.78	13.605	
500.00	499.45	497.57	497.03	3.49	3.50	-127.79	103.02	14.62	113.01	105.05	7.96	14.202	
600.00	598.70	603.50	595.26	3.61	3.63	-126.71	105.18	26.17	122.97	114.77	8.20	14.998	
700.00	697.51	704.24	693.73	3.76	3.77	-126.62	107.48	38.46	135.03	126.54	8.49	15.898	
800.00	796.21	805.02	792.16	3.95	3.95	-126.85	109.78	50.75	147.49	138.66	8.83	16.698	
900.00	894.91	905.80	890.59	4.16	4.14	-127.05	112.08	63.05	159.96	150.74	9.22	17.358	
1,000.00	993.61	1,006.58	989.02	4.40	4.35	-127.22	114.38	75.34	172.42	162.79	9.63	17.896	
1,100.00	1,092.32	1,107.36	1,087.44	4.66	4.57	-127.37	116.68	87.63	184.89	174.80	10.09	18.331	
1,200.00	1,191.02	1,208.14	1,185.87	4.93	4.81	-127.50	118.98	99.92	197.35	186.79	10.56	18.680	
1,300.00	1,289.72	1,308.92	1,284.30	5.21	5.06	-127.61	121.28	112.21	209.82	198.75	11.07	18.959	
1,400.00	1,388.42	1,409.71	1,382.73	5.51	5.32	-127.71	123.58	124.50	222.29	210.70	11.59	19.179	
1,500.00	1,487.13	1,489.51	1,481.16	5.81	5.53	-127.80	125.88	136.79	234.76	222.69	12.07	19.443	
1,600.00	1,585.83	1,588.73	1,579.58	6.13	5.80	-127.88	128.18	149.08	247.23	234.61	12.62	19.585	
1,700.00	1,684.53	1,687.95	1,678.01	6.45	6.07	-127.95	130.48	161.37	259.70	246.51	13.19	19.695	
1,800.00	1,783.23	1,787.17	1,776.44	6.78	6.35	-128.02	132.78	173.66	272.17	258.41	13.76	19.780	
1,900.00	1,881.94	1,886.39	1,874.87	6.96	6.52	-128.08	135.08	185.95	284.64	270.93	13.71	20.765	
2,000.00	1,980.64	1,985.61	1,973.30	6.99	6.57	-128.13	137.38	198.24	297.11	283.33	13.78	21.559	
2,100.00	2,079.34	2,084.83	2,071.72	7.05	6.61	-128.18	139.68	210.53	309.58	295.72	13.87	22.326	
2,200.00	2,178.04	2,184.05	2,170.15	7.12	6.66	-128.23	141.98	222.83	322.05	308.07	13.98	23.037	
2,300.00	2,276.75	2,283.27	2,268.58	7.20	6.73	-128.27	144.28	235.12	334.53	320.40	14.12	23.688	
2,400.00	2,375.45	2,382.48	2,367.01	7.30	6.81	-128.31	146.58	247.41	347.00	332.71	14.29	24.280	
2,500.00	2,474.15	2,481.70	2,465.43	7.42	6.91	-128.35	148.88	259.70	359.47	344.98	14.49	24.812	
2,600.00	2,572.85	2,580.92	2,563.86	7.54	7.01	-128.39	151.18	271.99	371.94	357.23	14.71	25.287	
2,700.00	2,671.56	2,680.14	2,662.29	7.68	7.13	-128.42	153.48	284.28	384.41	369.46	14.95	25.706	
2,800.00	2,770.26	2,779.36	2,760.72	7.84	7.26	-128.45	155.78	296.57	396.89	381.66	15.22	26.073	
2,900.00	2,868.96	2,878.58	2,859.15	8.00	7.40	-128.48	158.08	308.86	409.36	393.85	15.51	26.389	
3,000.00	2,967.66	2,977.80	2,957.57	8.18	7.55	-128.51	160.38	321.15	421.83	406.01	15.82	26.660	
3,100.00	3,066.37	3,077.02	3,056.00	8.36	7.71	-128.53	162.68	333.44	434.30	418.15	16.15	26.888	
3,200.00	3,165.07	3,176.24	3,154.43	8.56	7.87	-128.56	164.98	345.73	446.78	430.28	16.50	27.078	
3,300.00	3,263.77	3,275.45	3,252.86	8.76	8.05	-128.58	167.28	358.02	459.25	442.39	16.86	27.232	
3,400.00	3,362.47	3,374.67	3,351.29	8.97	8.23	-128.60	169.58	370.31	471.72	454.48	17.24	27.355	
3,500.00	3,461.18	3,473.89	3,449.71	9.19	8.42	-128.62	171.88	382.61	484.20	466.56	17.64	27.449	
3,600.00	3,559.88	3,573.11	3,548.14	9.42	8.62	-128.64	174.18	394.90	496.67	478.62	18.05	27.519	
3,700.00	3,658.58	3,672.33	3,646.57	9.65	8.83	-128.66	176.48	407.19	509.14	490.67	18.47	27.566	
3,800.00	3,757.28	3,771.55	3,745.00	9.89	9.04	-128.68	178.78	419.48	521.62	502.71	18.90	27.594	
3,900.00	3,855.99	3,870.77	3,843.42	10.14	9.25	-128.69	181.08	431.77	534.09	514.74	19.35	27.605	
4,000.00	3,954.69	3,969.99	3,941.85	10.39	9.47	-128.71	183.38	444.06	546.56	526.76	19.80	27.601	
4,100.00	4,053.39	4,069.21	4,040.28	10.65	9.70	-128.72	185.68	456.35	559.04	538.77	20.27	27.584	
4,200.00	4,152.09	4,168.43	4,138.71	10.91	9.93	-128.74	187.99	468.64	571.51	550.77	20.74	27.556	
4,300.00	4,250.79	4,267.64	4,237.14	11.17	10.16	-128.75	190.29	480.93	583.98	562.76	21.22	27.519	
4,400.00	4,349.50	4,366.86	4,335.56	11.44	10.40	-128.77	192.59	493.22	596.46	574.74	21.71	27.473	
4,500.00	4,448.20	4,466.08	4,433.99	11.71	10.64	-128.78	194.89	505.51	608.93	586.72	22.21	27.420	
4,600.00	4,546.90	4,565.30	4,532.42	11.99	10.88	-128.79	197.19	517.80	621.40	598.69	22.71	27.362	
4,700.00	4,645.60	4,664.52	4,630.85	12.27	11.13	-128.80	199.49	530.09	633.88	610.66	23.22	27.299	
4,800.00	4,744.31	4,763.74	4,729.28	12.55	11.38	-128.81	201.79	542.39	646.35	622.61	23.74	27.231	
4,900.00	4,843.01	4,862.96	4,827.70	12.84	11.63	-128.83	204.09	554.68	658.82	634.57	24.26	27.161	
5,000.00	4,941.71	4,962.18	4,926.13	13.12	11.89	-128.84	206.39	566.97	671.30	646.51	24.78	27.087	
5,100.00	5,040.41	5,061.40	5,024.56	13.41	12.15	-128.85	208.69	579.26	683.77	658.46	25.31	27.012	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							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	5,139.12	5,160.61	5,122.99	13.71	12.41	-128.86	210.99	591.55	696.24	670.39	25.85	26.935		
5,300.00	5,237.82	5,259.83	5,221.41	14.00	12.67	-128.87	213.29	603.84	708.72	682.33	26.39	26.857		
5,400.00	5,336.52	5,359.05	5,319.84	14.30	12.94	-128.87	215.59	616.13	721.19	694.26	26.93	26.778		
5,500.00	5,435.22	5,458.27	5,418.27	14.60	13.20	-128.88	217.89	628.42	733.66	706.18	27.48	26.698		
5,600.00	5,533.93	5,557.49	5,516.70	14.90	13.47	-128.89	220.19	640.71	746.14	718.11	28.03	26.618		
5,700.00	5,632.63	5,656.71	5,615.13	15.20	13.74	-128.90	222.49	653.00	758.61	730.03	28.59	26.539		
5,800.00	5,731.33	5,755.93	5,713.55	15.50	14.01	-128.91	224.79	665.29	771.08	741.94	29.14	26.459		
5,900.00	5,830.03	5,855.15	5,811.98	15.81	14.29	-128.92	227.09	677.58	783.56	753.86	29.70	26.380		
6,000.00	5,928.74	5,954.37	5,910.41	16.11	14.56	-128.92	229.39	689.87	796.03	765.77	30.27	26.301		
6,100.00	6,027.44	6,053.58	6,008.84	16.42	14.84	-128.93	231.69	702.17	808.51	777.67	30.83	26.223		
6,200.00	6,126.14	6,152.80	6,107.27	16.73	15.11	-128.94	233.99	714.46	820.98	789.58	31.40	26.146		
6,300.00	6,224.84	6,252.02	6,205.69	17.04	15.39	-128.94	236.29	726.75	833.45	801.48	31.97	26.069		
6,400.00	6,323.55	6,351.24	6,304.12	17.35	15.67	-128.95	238.59	739.04	845.93	813.38	32.54	25.994		
6,500.00	6,422.25	6,450.46	6,402.55	17.67	15.95	-128.96	240.89	751.33	858.40	825.28	33.12	25.919		
6,600.00	6,521.26	6,549.56	6,500.86	17.91	16.23	-168.33	243.19	763.60	870.90	837.24	33.65	25.879		
6,700.00	6,620.47	6,648.59	6,599.41	18.07	16.46	126.93	245.49	772.37	883.50	849.43	34.07	25.930		
6,800.00	6,717.57	6,750.05	6,700.55	18.18	16.61	109.21	247.89	766.24	896.07	861.72	34.35	26.084		
6,900.00	6,810.17	6,854.22	6,802.02	18.24	16.70	102.80	250.31	743.32	908.28	873.75	34.53	26.306		
7,000.00	6,895.98	6,961.26	6,900.96	18.27	16.75	99.61	252.70	702.88	919.79	885.17	34.62	26.570		
7,100.00	6,972.90	7,071.19	6,994.05	18.27	16.79	97.75	254.98	644.71	930.26	895.59	34.67	26.833		
7,200.00	7,039.03	7,183.91	7,077.67	18.25	16.83	96.57	257.05	569.37	939.35	904.60	34.75	27.033		
7,300.00	7,092.74	7,299.13	7,148.06	18.23	16.95	95.80	258.85	478.36	946.77	911.83	34.94	27.095		
7,400.00	7,132.71	7,416.38	7,201.69	18.23	17.18	95.29	260.26	374.29	952.26	916.91	35.34	26.942		
7,500.00	7,157.96	7,535.00	7,235.63	18.28	17.56	94.97	261.23	260.82	955.60	919.60	36.01	26.538		
7,600.00	7,167.85	7,654.19	7,247.97	18.46	18.09	94.80	261.69	142.45	956.70	919.76	36.94	25.899		
7,700.00	7,168.14	7,755.19	7,248.05	18.86	18.68	94.79	261.84	41.45	956.51	918.43	38.08	25.119		
7,800.00	7,168.31	7,855.19	7,248.10	19.49	19.37	94.79	261.99	-58.55	956.32	916.87	39.45	24.239		
7,900.00	7,168.48	7,955.19	7,248.15	20.27	20.18	94.78	262.14	-158.55	956.13	915.07	41.06	23.287		
8,000.00	7,168.64	8,055.19	7,248.21	21.18	21.09	94.77	262.28	-258.55	955.94	913.07	42.86	22.301		
8,100.00	7,168.81	8,155.19	7,248.26	22.18	22.09	94.77	262.43	-358.55	955.74	910.89	44.85	21.310		
8,200.00	7,168.98	8,255.19	7,248.31	23.25	23.17	94.76	262.58	-458.55	955.55	908.56	46.99	20.336		
8,300.00	7,169.14	8,355.19	7,248.36	24.40	24.32	94.76	262.72	-558.55	955.36	906.10	49.26	19.394		
8,400.00	7,169.31	8,455.19	7,248.41	25.60	25.52	94.75	262.87	-658.55	955.17	903.51	51.65	18.493		
8,500.00	7,169.48	8,555.19	7,248.46	26.85	26.77	94.74	263.02	-758.55	954.97	900.83	54.14	17.638		
8,600.00	7,169.64	8,655.19	7,248.51	28.14	28.07	94.74	263.17	-858.55	954.78	898.06	56.72	16.833		
8,700.00	7,169.81	8,755.19	7,248.56	29.47	29.41	94.73	263.31	-958.55	954.59	895.21	59.38	16.077		
8,800.00	7,169.98	8,855.19	7,248.61	30.83	30.78	94.73	263.46	-1,058.55	954.40	892.30	62.10	15.369		
8,900.00	7,170.14	8,955.19	7,248.67	32.23	32.17	94.72	263.61	-1,158.55	954.21	889.33	64.88	14.708		
9,000.00	7,170.31	9,055.19	7,248.72	33.64	33.60	94.71	263.76	-1,258.55	954.01	886.31	67.71	14.091		
9,100.00	7,170.48	9,155.18	7,248.77	35.08	35.04	94.71	263.90	-1,358.55	953.82	883.24	70.58	13.514		
9,200.00	7,170.64	9,255.18	7,248.82	36.54	36.50	94.70	264.05	-1,458.55	953.63	880.14	73.49	12.976		
9,300.00	7,170.81	9,355.18	7,248.87	38.02	37.98	94.70	264.20	-1,558.55	953.44	877.00	76.44	12.473		
9,400.00	7,170.98	9,455.18	7,248.92	39.51	39.48	94.69	264.35	-1,658.55	953.24	873.83	79.42	12.003		
9,500.00	7,171.14	9,555.18	7,248.97	41.01	40.99	94.68	264.49	-1,758.55	953.05	870.63	82.42	11.563		
9,600.00	7,171.31	9,655.18	7,249.02	42.53	42.51	94.68	264.64	-1,858.55	952.86	867.41	85.46	11.150		
9,700.00	7,171.48	9,755.18	7,249.08	44.05	44.05	94.67	264.79	-1,958.55	952.67	864.16	88.51	10.764		
9,800.00	7,171.64	9,855.18	7,249.13	45.59	45.59	94.67	264.94	-2,058.55	952.48	860.90	91.58	10.400		
9,900.00	7,171.81	9,955.18	7,249.18	47.14	47.14	94.66	265.08	-2,158.55	952.28	857.61	94.67	10.059		
10,000.00	7,171.98	10,055.18	7,249.23	48.69	48.70	94.65	265.23	-2,258.54	952.09	854.32	97.78	9.737		
10,100.00	7,172.14	10,155.18	7,249.28	50.26	50.27	94.65	265.38	-2,358.54	951.90	851.00	100.90	9.434		
10,200.00	7,172.31	10,255.18	7,249.33	51.83	51.84	94.64	265.53	-2,458.54	951.71	847.68	104.03	9.148		
10,300.00	7,172.48	10,355.18	7,249.38	53.40	53.42	94.64	265.67	-2,558.54	951.52	844.34	107.18	8.878		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							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	7,172.64	10,455.18	7,249.43	54.98	55.00	94.63	265.82	-2,658.54	951.32	840.99	110.34	8.622	
10,500.00	7,172.81	10,555.18	7,249.49	56.57	56.59	94.62	265.97	-2,758.54	951.13	837.63	113.51	8.380	
10,600.00	7,172.98	10,655.18	7,249.54	58.16	58.19	94.62	266.12	-2,858.54	950.94	834.26	116.68	8.150	
10,700.00	7,173.14	10,755.18	7,249.59	59.75	59.79	94.61	266.26	-2,958.54	950.75	830.88	119.87	7.932	
10,800.00	7,173.31	10,855.18	7,249.64	61.35	61.39	94.61	266.41	-3,058.54	950.56	827.49	123.06	7.724	
10,900.00	7,173.48	10,955.18	7,249.69	62.96	62.99	94.60	266.56	-3,158.54	950.36	824.10	126.26	7.527	
11,000.00	7,173.65	11,055.18	7,249.74	64.56	64.60	94.59	266.71	-3,258.54	950.17	820.70	129.47	7.339	
11,100.00	7,173.81	11,155.18	7,249.79	66.17	66.22	94.59	266.85	-3,358.54	949.98	817.29	132.69	7.160	
11,200.00	7,173.98	11,255.18	7,249.84	67.79	67.83	94.58	267.00	-3,458.54	949.79	813.88	135.91	6.989	
11,300.00	7,174.15	11,355.18	7,249.89	69.40	69.45	94.58	267.15	-3,558.54	949.60	810.46	139.13	6.825	
11,400.00	7,174.31	11,455.18	7,249.95	71.02	71.07	94.57	267.30	-3,658.54	949.41	807.04	142.36	6.669	
11,500.00	7,174.48	11,555.18	7,250.00	72.64	72.69	94.56	267.44	-3,758.54	949.21	803.61	145.60	6.519	
11,600.00	7,174.65	11,655.18	7,250.05	74.26	74.32	94.56	267.59	-3,858.54	949.02	800.18	148.84	6.376	
11,700.00	7,174.81	11,755.18	7,250.10	75.89	75.95	94.55	267.74	-3,958.54	948.83	796.75	152.08	6.239	
11,800.00	7,174.98	11,855.18	7,250.15	77.51	77.57	94.54	267.89	-4,058.54	948.64	793.31	155.33	6.107	
11,900.00	7,175.15	11,955.18	7,250.20	79.14	79.21	94.54	268.03	-4,158.54	948.45	789.86	158.58	5.981	
12,000.00	7,175.31	12,055.18	7,250.25	80.77	80.84	94.53	268.18	-4,258.54	948.25	786.42	161.84	5.859	
12,100.00	7,175.48	12,155.18	7,250.30	82.40	82.47	94.53	268.33	-4,358.54	948.06	782.97	165.10	5.742	
12,200.00	7,175.65	12,255.18	7,250.36	84.04	84.11	94.52	268.48	-4,458.54	947.87	779.51	168.36	5.630	
12,300.00	7,175.81	12,355.18	7,250.41	85.67	85.74	94.51	268.62	-4,558.54	947.68	776.06	171.62	5.522	
12,400.00	7,175.98	12,455.18	7,250.46	87.31	87.38	94.51	268.77	-4,658.54	947.49	772.60	174.89	5.418	
12,500.00	7,176.15	12,555.18	7,250.51	88.95	89.02	94.50	268.92	-4,758.54	947.30	769.14	178.16	5.317	
12,600.00	7,176.31	12,655.18	7,250.56	90.59	90.66	94.50	269.07	-4,858.54	947.10	765.67	181.43	5.220	
12,700.00	7,176.48	12,755.18	7,250.61	92.23	92.31	94.49	269.21	-4,958.54	946.91	762.21	184.71	5.127	
12,800.00	7,176.65	12,855.18	7,250.66	93.87	93.95	94.48	269.36	-5,058.53	946.72	758.74	187.98	5.036	
12,900.00	7,176.81	12,955.18	7,250.71	95.51	95.59	94.48	269.51	-5,158.53	946.53	755.27	191.26	4.949	
13,000.00	7,176.98	13,055.18	7,250.76	97.15	97.24	94.47	269.66	-5,258.53	946.34	751.79	194.54	4.864	
13,100.00	7,177.15	13,155.18	7,250.82	98.80	98.88	94.47	269.80	-5,358.53	946.15	748.32	197.82	4.783	
13,200.00	7,177.31	13,255.18	7,250.87	100.44	100.53	94.46	269.95	-5,458.53	945.95	744.84	201.11	4.704	
13,300.00	7,177.48	13,355.18	7,250.92	102.09	102.18	94.45	270.10	-5,558.53	945.76	741.37	204.40	4.627	
13,400.00	7,177.65	13,455.17	7,250.97	103.74	103.82	94.45	270.25	-5,658.53	945.57	737.89	207.68	4.553	
13,500.00	7,177.81	13,555.17	7,251.02	105.38	105.47	94.44	270.39	-5,758.53	945.38	734.41	210.97	4.481	
13,600.00	7,177.98	13,655.17	7,251.07	107.03	107.12	94.43	270.54	-5,858.53	945.19	730.92	214.26	4.411	
13,700.00	7,178.15	13,755.17	7,251.12	108.68	108.77	94.43	270.69	-5,958.53	945.00	727.44	217.56	4.344	
13,800.00	7,178.31	13,855.17	7,251.17	110.33	110.42	94.42	270.84	-6,058.53	944.80	723.95	220.85	4.278	
13,900.00	7,178.48	13,955.17	7,251.23	111.98	112.08	94.42	270.98	-6,158.53	944.61	720.47	224.14	4.214	
14,000.00	7,178.65	14,055.17	7,251.28	113.63	113.73	94.41	271.13	-6,258.53	944.42	716.98	227.44	4.152	
14,100.00	7,178.81	14,155.17	7,251.33	115.29	115.38	94.40	271.28	-6,358.53	944.23	713.49	230.74	4.092	
14,200.00	7,178.98	14,255.17	7,251.38	116.94	117.03	94.40	271.43	-6,458.53	944.04	710.00	234.04	4.034	
14,300.00	7,179.15	14,355.17	7,251.43	118.59	118.69	94.39	271.57	-6,558.53	943.85	706.51	237.34	3.977	
14,400.00	7,179.31	14,455.17	7,251.48	120.24	120.34	94.39	271.72	-6,658.53	943.65	703.02	240.64	3.922	
14,500.00	7,179.48	14,555.17	7,251.53	121.90	122.00	94.38	271.87	-6,758.53	943.46	699.53	243.94	3.868	
14,600.00	7,179.65	14,655.17	7,251.58	123.55	123.65	94.37	272.02	-6,858.53	943.27	696.03	247.24	3.815	
14,700.00	7,179.82	14,755.17	7,251.63	125.21	125.31	94.37	272.16	-6,958.53	943.08	692.54	250.54	3.764	
14,800.00	7,179.98	14,855.17	7,251.69	126.86	126.96	94.36	272.31	-7,058.53	942.89	689.04	253.85	3.714	
14,900.00	7,180.15	14,955.17	7,251.74	128.52	128.62	94.36	272.46	-7,158.53	942.70	685.54	257.15	3.666	
15,000.00	7,180.32	15,055.17	7,251.79	130.17	130.28	94.35	272.61	-7,258.53	942.51	682.05	260.46	3.619	
15,100.00	7,180.48	15,155.17	7,251.84	131.83	131.94	94.34	272.75	-7,358.53	942.31	678.55	263.77	3.573	
15,200.00	7,180.65	15,255.17	7,251.89	133.49	133.59	94.34	272.90	-7,458.53	942.12	675.05	267.07	3.528	
15,300.00	7,180.82	15,355.17	7,251.94	135.15	135.25	94.33	273.05	-7,558.53	941.93	671.55	270.38	3.484	
15,400.00	7,180.98	15,455.17	7,251.99	136.80	136.91	94.32	273.20	-7,658.53	941.74	668.05	273.69	3.441	
15,410.68	7,181.00	15,465.85	7,252.00	136.98	137.09	94.32	273.21	-7,669.21	941.72	667.67	274.04	3.436 SF	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	179.60	-39.71	0.28	39.71				
100.00	100.00	100.00	100.00	3.28	3.28	179.60	-39.71	0.28	39.71	32.18	7.53	5.275	
200.00	200.00	200.00	200.00	3.31	3.31	179.60	-39.71	0.28	39.71	32.14	7.57	5.243 CC, ES	
300.00	299.98	298.89	298.87	3.35	3.35	50.77	-41.09	1.28	40.00	32.35	7.65	5.228	
400.00	399.84	397.76	397.60	3.41	3.40	52.14	-45.23	4.30	40.88	33.12	7.76	5.267	
500.00	499.45	496.61	496.08	3.49	3.49	54.30	-52.11	9.32	42.40	34.48	7.92	5.355	
600.00	598.70	595.44	594.18	3.61	3.60	57.05	-61.73	16.33	44.61	36.49	8.12	5.491	
700.00	697.51	694.22	691.77	3.76	3.75	59.96	-74.07	25.33	47.72	39.32	8.40	5.683	
800.00	796.21	792.92	788.69	3.95	3.94	60.43	-89.11	36.30	52.96	44.23	8.73	6.069	
900.00	894.91	907.29	886.38	4.16	4.22	59.68	-105.60	48.32	59.33	50.17	9.15	6.481	
1,000.00	993.61	1,007.49	984.06	4.40	4.49	59.08	-122.09	60.35	65.71	56.11	9.60	6.846	
1,100.00	1,092.32	1,092.30	1,081.75	4.66	4.74	58.58	-138.58	72.37	72.09	62.05	10.04	7.181	
1,200.00	1,191.02	1,207.91	1,179.44	4.93	5.10	58.17	-155.07	84.40	78.48	67.89	10.59	7.412	
1,300.00	1,289.72	1,308.11	1,277.12	5.21	5.43	57.82	-171.56	96.42	84.87	73.75	11.13	7.628	
1,400.00	1,388.42	1,408.32	1,374.81	5.51	5.78	57.51	-188.04	108.44	91.27	79.59	11.68	7.811	
1,500.00	1,487.13	1,508.52	1,472.49	5.81	6.14	57.25	-204.53	120.47	97.67	85.41	12.26	7.965	
1,600.00	1,585.83	1,608.73	1,570.18	6.13	6.50	57.02	-221.02	132.49	104.07	91.21	12.85	8.096	
1,700.00	1,684.53	1,708.93	1,667.86	6.45	6.88	56.81	-237.51	144.52	110.47	97.01	13.46	8.206	
1,800.00	1,783.23	1,809.14	1,765.55	6.78	7.24	56.63	-254.00	156.54	116.87	102.81	14.07	8.309	
1,900.00	1,881.94	1,909.35	1,863.23	6.96	7.44	56.47	-270.49	168.56	123.28	109.27	14.00	8.805	
2,000.00	1,980.64	2,009.55	1,960.92	6.99	7.49	56.32	-286.98	180.59	129.68	115.62	14.06	9.222	
2,100.00	2,079.34	2,109.76	2,058.60	7.05	7.56	56.19	-303.47	192.61	136.09	121.93	14.15	9.614	
2,200.00	2,178.04	2,190.04	2,156.29	7.12	7.63	56.07	-319.96	204.64	142.49	128.23	14.27	9.989	
2,300.00	2,276.75	2,289.83	2,253.97	7.20	7.73	55.96	-336.45	216.66	148.90	134.48	14.42	10.327	
2,400.00	2,375.45	2,389.62	2,351.66	7.30	7.85	55.86	-352.94	228.68	155.31	140.70	14.60	10.636	
2,500.00	2,474.15	2,489.42	2,449.34	7.42	7.98	55.76	-369.42	240.71	161.71	146.90	14.81	10.916	
2,600.00	2,572.85	2,589.21	2,547.03	7.54	8.13	55.68	-385.91	252.73	168.12	153.07	15.06	11.167	
2,700.00	2,671.56	2,689.01	2,644.71	7.68	8.29	55.60	-402.40	264.76	174.53	159.21	15.32	11.391	
2,800.00	2,770.26	2,788.80	2,742.40	7.84	8.47	55.52	-418.89	276.78	180.94	165.32	15.61	11.588	
2,900.00	2,868.96	2,888.60	2,840.08	8.00	8.65	55.45	-435.38	288.81	187.35	171.42	15.93	11.762	
3,000.00	2,967.66	2,988.39	2,937.77	8.18	8.86	55.39	-451.87	300.83	193.76	177.49	16.27	11.912	
3,100.00	3,066.37	3,088.18	3,035.46	8.36	9.07	55.33	-468.36	312.85	200.17	183.54	16.62	12.041	
3,200.00	3,165.07	3,187.98	3,133.14	8.56	9.29	55.27	-484.85	324.88	206.58	189.57	17.00	12.151	
3,300.00	3,263.77	3,287.77	3,230.83	8.76	9.52	55.22	-501.34	336.90	212.99	195.59	17.40	12.243	
3,400.00	3,362.47	3,387.57	3,328.51	8.97	9.76	55.17	-517.83	348.93	219.40	201.59	17.81	12.320	
3,500.00	3,461.18	3,487.36	3,426.20	9.19	10.01	55.12	-534.32	360.95	225.81	207.57	18.24	12.383	
3,600.00	3,559.88	3,587.15	3,523.88	9.42	10.27	55.07	-550.80	372.97	232.22	213.54	18.68	12.433	
3,700.00	3,658.58	3,686.95	3,621.57	9.65	10.53	55.03	-567.29	385.00	238.63	219.49	19.13	12.472	
3,800.00	3,757.28	3,786.74	3,719.25	9.89	10.80	54.99	-583.78	397.02	245.04	225.44	19.60	12.502	
3,900.00	3,855.99	3,886.54	3,816.94	10.14	11.08	54.95	-600.27	409.05	251.45	231.37	20.08	12.523	
4,000.00	3,954.69	3,986.33	3,914.62	10.39	11.36	54.92	-616.76	421.07	257.86	237.29	20.57	12.536	
4,100.00	4,053.39	4,086.13	4,012.31	10.65	11.65	54.88	-633.25	433.09	264.27	243.20	21.07	12.543	
4,200.00	4,152.09	4,185.92	4,109.99	10.91	11.94	54.85	-649.74	445.12	270.68	249.10	21.58	12.544	
4,300.00	4,250.79	4,285.71	4,207.68	11.17	12.24	54.82	-666.23	457.14	277.09	255.00	22.10	12.541	
4,400.00	4,349.50	4,385.51	4,305.36	11.44	12.54	54.79	-682.72	469.17	283.50	260.88	22.62	12.533	
4,500.00	4,448.20	4,485.30	4,403.05	11.71	12.84	54.76	-699.21	481.19	289.91	266.76	23.15	12.521	
4,600.00	4,546.90	4,585.10	4,500.73	11.99	13.15	54.73	-715.69	493.21	296.32	272.63	23.69	12.506	
4,700.00	4,645.60	4,684.89	4,598.42	12.27	13.46	54.71	-732.18	505.24	302.74	278.50	24.24	12.489	
4,800.00	4,744.31	4,784.68	4,696.10	12.55	13.78	54.68	-748.67	517.26	309.15	284.35	24.79	12.469	
4,900.00	4,843.01	4,884.48	4,793.79	12.84	14.09	54.66	-765.16	529.29	315.56	290.21	25.35	12.448	
5,000.00	4,941.71	4,984.27	4,891.48	13.12	14.41	54.63	-781.65	541.31	321.97	296.06	25.91	12.425	
5,100.00	5,040.41	5,084.07	4,989.16	13.41	14.74	54.61	-798.14	553.33	328.38	301.90	26.48	12.400	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,139.12	5,183.86	5,086.85	13.71	15.06	54.59	-814.63	565.36	334.79	307.74	27.05	12.375	
5,300.00	5,237.82	5,283.66	5,184.53	14.00	15.39	54.57	-831.12	577.38	341.21	313.57	27.63	12.349	
5,400.00	5,336.52	5,383.45	5,282.22	14.30	15.72	54.55	-847.61	589.41	347.62	319.41	28.21	12.322	
5,500.00	5,435.22	5,483.24	5,379.90	14.60	16.05	54.53	-864.10	601.43	354.03	325.23	28.80	12.294	
5,600.00	5,533.93	5,583.04	5,477.59	14.90	16.39	54.51	-880.59	613.45	360.44	331.06	29.38	12.267	
5,700.00	5,632.63	5,682.83	5,575.27	15.20	16.72	54.49	-897.07	625.48	366.85	336.88	29.98	12.238	
5,800.00	5,731.33	5,782.63	5,672.96	15.50	17.06	54.48	-913.56	637.50	373.26	342.69	30.57	12.210	
5,900.00	5,830.03	5,882.42	5,770.64	15.81	17.40	54.46	-930.05	649.53	379.68	348.51	31.17	12.182	
6,000.00	5,928.74	5,982.21	5,868.33	16.11	17.74	54.45	-946.54	661.55	386.09	354.32	31.77	12.154	
6,100.00	6,027.44	6,082.01	5,966.01	16.42	18.08	54.43	-963.03	673.57	392.50	360.13	32.37	12.125	
6,200.00	6,126.14	6,181.80	6,063.70	16.73	18.42	54.41	-979.52	685.60	398.91	365.94	32.98	12.097	
6,300.00	6,224.84	6,281.60	6,161.38	17.04	18.77	54.40	-996.01	697.62	405.32	371.74	33.58	12.069	
6,400.00	6,323.55	6,381.39	6,259.07	17.35	19.11	54.39	-1,012.50	709.65	411.74	377.54	34.19	12.042	
6,500.00	6,422.25	6,481.19	6,356.75	17.67	19.46	54.37	-1,028.99	721.67	418.15	383.34	34.80	12.014	
6,600.00	6,521.26	6,580.87	6,454.33	17.91	19.81	54.35	-1,045.46	733.68	424.34	389.01	35.32	12.013	
6,700.00	6,620.47	6,678.97	6,550.36	18.07	20.15	-50.99	-1,061.67	745.50	429.96	394.38	35.58	12.084	
6,800.00	6,717.57	6,773.09	6,642.49	18.18	20.48	-72.06	-1,077.22	756.84	436.70	401.09	35.61	12.265	
6,900.00	6,810.17	6,869.22	6,736.99	18.24	20.72	-82.71	-1,093.16	763.31	446.89	411.41	35.49	12.593	
7,000.00	6,895.98	6,973.45	6,839.26	18.27	20.91	-90.05	-1,110.40	754.16	460.54	425.16	35.38	13.017	
7,100.00	6,972.90	7,087.11	6,947.45	18.27	21.06	-95.87	-1,128.62	725.07	476.81	441.54	35.27	13.519	
7,200.00	7,039.03	7,212.25	7,058.57	18.25	21.16	-100.73	-1,147.29	671.10	494.43	459.32	35.11	14.083	
7,300.00	7,092.74	7,350.73	7,166.77	18.23	21.20	-104.77	-1,165.44	587.05	511.68	476.78	34.90	14.661	
7,400.00	7,132.71	7,503.42	7,262.21	18.23	21.16	-107.94	-1,181.41	469.41	526.59	491.78	34.81	15.128	
7,500.00	7,157.96	7,668.99	7,331.35	18.28	21.05	-110.05	-1,192.89	319.92	537.09	501.94	35.15	15.280	
7,600.00	7,167.85	7,842.87	7,360.60	18.46	20.88	-110.87	-1,197.63	149.13	541.53	505.36	36.17	14.971	
7,700.00	7,168.14	7,952.66	7,360.98	18.86	20.75	-110.85	-1,197.57	39.34	541.72	504.59	37.13	14.591	
7,800.00	7,168.31	8,052.66	7,360.95	19.49	20.88	-110.83	-1,197.45	-60.66	541.85	503.61	38.24	14.170	
7,900.00	7,168.48	8,152.66	7,360.92	20.27	21.67	-110.80	-1,197.33	-160.66	541.98	502.40	39.58	13.693	
8,000.00	7,168.64	8,252.66	7,360.90	21.18	22.57	-110.77	-1,197.21	-260.65	542.11	500.97	41.13	13.179	
8,100.00	7,168.81	8,352.66	7,360.87	22.18	23.54	-110.74	-1,197.09	-360.65	542.24	499.36	42.87	12.648	
8,200.00	7,168.98	8,452.66	7,360.85	23.25	24.58	-110.72	-1,196.97	-460.65	542.37	497.59	44.78	12.113	
8,300.00	7,169.14	8,552.66	7,360.82	24.40	25.68	-110.69	-1,196.85	-560.65	542.50	495.67	46.82	11.586	
8,400.00	7,169.31	8,652.66	7,360.80	25.60	26.84	-110.66	-1,196.73	-660.65	542.62	493.63	49.00	11.074	
8,500.00	7,169.48	8,752.66	7,360.77	26.85	28.04	-110.64	-1,196.61	-760.65	542.75	491.47	51.28	10.584	
8,600.00	7,169.64	8,852.66	7,360.75	28.14	29.29	-110.61	-1,196.49	-860.65	542.88	489.22	53.66	10.116	
8,700.00	7,169.81	8,952.66	7,360.72	29.47	30.58	-110.58	-1,196.37	-960.65	543.01	486.89	56.13	9.675	
8,800.00	7,169.98	9,052.66	7,360.69	30.83	31.90	-110.56	-1,196.25	-1,060.65	543.14	484.48	58.67	9.258	
8,900.00	7,170.14	9,152.66	7,360.67	32.23	33.25	-110.53	-1,196.13	-1,160.65	543.27	482.01	61.27	8.867	
9,000.00	7,170.31	9,252.66	7,360.64	33.64	34.63	-110.50	-1,196.01	-1,260.65	543.40	479.48	63.93	8.500	
9,100.00	7,170.48	9,352.66	7,360.62	35.08	36.03	-110.48	-1,195.89	-1,360.65	543.53	476.90	66.64	8.157	
9,200.00	7,170.64	9,452.66	7,360.59	36.54	37.45	-110.45	-1,195.77	-1,460.65	543.66	474.28	69.39	7.835	
9,300.00	7,170.81	9,564.38	7,360.56	38.02	39.06	-110.45	-1,194.87	-1,572.36	543.21	470.98	72.23	7.520	
9,400.00	7,170.98	9,685.78	7,360.53	39.51	40.83	-110.61	-1,189.36	-1,693.63	539.20	464.17	75.03	7.187	
9,500.00	7,171.14	9,800.64	7,360.50	41.01	42.52	-110.94	-1,179.77	-1,806.79	531.48	453.75	77.73	6.837	
9,600.00	7,171.31	9,901.06	7,360.48	42.53	44.00	-111.28	-1,170.39	-1,905.94	522.93	442.46	80.47	6.499	
9,700.00	7,171.48	10,001.47	7,360.45	44.05	45.50	-111.63	-1,161.01	-2,005.08	514.40	431.19	83.21	6.182	
9,800.00	7,171.64	10,098.11	7,360.43	45.59	46.95	-111.99	-1,151.64	-2,104.23	505.89	419.98	85.91	5.888	
9,900.00	7,171.81	10,202.30	7,360.40	47.14	48.53	-112.36	-1,142.26	-2,203.37	497.40	408.68	88.72	5.606	
10,000.00	7,171.98	10,302.71	7,360.38	48.69	50.06	-112.74	-1,132.88	-2,302.51	488.93	397.45	91.48	5.345	
10,100.00	7,172.14	10,396.87	7,360.35	50.26	51.51	-113.14	-1,123.51	-2,401.66	480.48	386.34	94.14	5.104	
10,200.00	7,172.31	10,503.54	7,360.33	51.83	53.16	-113.55	-1,114.13	-2,500.80	472.06	375.08	96.97	4.868	
10,300.00	7,172.48	10,596.05	7,360.30	53.40	54.59	-113.98	-1,104.75	-2,599.94	463.66	364.06	99.59	4.656	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						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	7,172.64	10,704.37	7,360.27	54.98	56.28	-114.42	-1,095.37	-2,699.09	455.29	352.85	102.43	4.445	
10,500.00	7,172.81	10,795.22	7,360.25	56.57	57.70	-114.88	-1,086.00	-2,798.23	446.94	341.94	105.00	4.257	
10,600.00	7,172.98	10,894.80	7,360.22	58.16	59.26	-115.36	-1,076.62	-2,897.38	438.63	330.95	107.68	4.073	
10,700.00	7,173.14	10,984.15	7,360.20	59.75	60.67	-115.74	-1,069.20	-2,986.41	431.36	320.87	110.49	3.904	
10,800.00	7,173.31	11,072.17	7,360.18	61.35	62.07	-115.97	-1,064.58	-3,074.30	426.85	313.50	113.34	3.766	
10,900.00	7,173.48	11,160.37	7,360.16	62.96	63.47	-116.05	-1,062.65	-3,162.48	425.10	308.87	116.23	3.657	
10,910.93	7,173.50	11,175.06	7,360.15	63.13	63.70	-116.05	-1,062.61	-3,171.80	425.08	308.45	116.62	3.645	
11,000.00	7,173.65	11,258.76	7,360.13	64.56	65.04	-116.02	-1,062.41	-3,260.87	425.09	305.87	119.22	3.566	
11,100.00	7,173.81	11,358.76	7,360.10	66.17	66.63	-115.99	-1,062.19	-3,360.87	425.10	302.87	122.23	3.478	
11,200.00	7,173.98	11,458.76	7,360.08	67.79	68.23	-115.96	-1,061.97	-3,460.87	425.11	299.87	125.25	3.394	
11,300.00	7,174.15	11,558.76	7,360.05	69.40	69.84	-115.93	-1,061.74	-3,560.87	425.13	296.86	128.27	3.314	
11,400.00	7,174.31	11,658.76	7,360.03	71.02	71.45	-115.90	-1,061.52	-3,660.87	425.14	293.84	131.30	3.238	
11,500.00	7,174.48	11,758.76	7,360.00	72.64	73.06	-115.87	-1,061.30	-3,760.87	425.15	290.82	134.34	3.165	
11,600.00	7,174.65	11,858.76	7,359.98	74.26	74.67	-115.84	-1,061.08	-3,860.87	425.17	287.79	137.38	3.095	
11,700.00	7,174.81	11,958.76	7,359.95	75.89	76.29	-115.81	-1,060.85	-3,960.87	425.18	284.75	140.43	3.028	
11,800.00	7,174.98	12,058.76	7,359.93	77.51	77.91	-115.78	-1,060.63	-4,060.87	425.20	281.71	143.48	2.963	
11,900.00	7,175.15	12,158.76	7,359.90	79.14	79.53	-115.75	-1,060.41	-4,160.87	425.21	278.67	146.54	2.902	
12,000.00	7,175.31	12,258.76	7,359.87	80.77	81.15	-115.72	-1,060.19	-4,260.87	425.22	275.62	149.60	2.842	
12,100.00	7,175.48	12,358.76	7,359.85	82.40	82.77	-115.69	-1,059.97	-4,360.87	425.24	272.57	152.67	2.785	
12,200.00	7,175.65	12,458.76	7,359.82	84.04	84.40	-115.66	-1,059.74	-4,460.87	425.25	269.51	155.74	2.730	
12,300.00	7,175.81	12,558.76	7,359.80	85.67	86.03	-115.63	-1,059.52	-4,560.87	425.27	266.45	158.82	2.678	
12,400.00	7,175.98	12,658.76	7,359.77	87.31	87.66	-115.61	-1,059.30	-4,660.87	425.28	263.38	161.90	2.627	
12,500.00	7,176.15	12,758.76	7,359.75	88.95	89.29	-115.58	-1,059.08	-4,760.87	425.30	260.31	164.98	2.578	
12,600.00	7,176.31	12,858.76	7,359.72	90.59	90.92	-115.55	-1,058.85	-4,860.87	425.31	257.24	168.07	2.531	
12,700.00	7,176.48	12,958.76	7,359.69	92.23	92.55	-115.52	-1,058.63	-4,960.87	425.33	254.17	171.16	2.485	
12,800.00	7,176.65	13,058.76	7,359.67	93.87	94.19	-115.49	-1,058.41	-5,060.87	425.34	251.09	174.25	2.441	
12,900.00	7,176.81	13,158.76	7,359.64	95.51	95.83	-115.46	-1,058.19	-5,160.86	425.36	248.01	177.35	2.398	
13,000.00	7,176.98	13,258.76	7,359.62	97.15	97.46	-115.43	-1,057.97	-5,260.86	425.37	244.92	180.45	2.357	
13,100.00	7,177.15	13,358.76	7,359.59	98.80	99.10	-115.40	-1,057.74	-5,360.86	425.39	241.84	183.55	2.318	
13,200.00	7,177.31	13,458.76	7,359.57	100.44	100.74	-115.37	-1,057.52	-5,460.86	425.40	238.75	186.66	2.279	
13,300.00	7,177.48	13,558.76	7,359.54	102.09	102.38	-115.34	-1,057.30	-5,560.86	425.42	235.65	189.77	2.242	
13,400.00	7,177.65	13,658.76	7,359.52	103.74	104.03	-115.31	-1,057.08	-5,660.86	425.44	232.56	192.88	2.206	
13,500.00	7,177.81	13,758.76	7,359.49	105.38	105.67	-115.28	-1,056.85	-5,760.86	425.45	229.46	195.99	2.171	
13,600.00	7,177.98	13,858.76	7,359.46	107.03	107.31	-115.25	-1,056.63	-5,860.86	425.47	226.36	199.11	2.137	
13,700.00	7,178.15	13,958.76	7,359.44	108.68	108.96	-115.22	-1,056.41	-5,960.86	425.48	223.26	202.22	2.104	
13,800.00	7,178.31	14,058.76	7,359.41	110.33	110.60	-115.19	-1,056.19	-6,060.86	425.50	220.15	205.35	2.072	
13,900.00	7,178.48	14,158.76	7,359.39	111.98	112.25	-115.16	-1,055.97	-6,160.86	425.52	217.05	208.47	2.041	
14,000.00	7,178.65	14,258.76	7,359.36	113.63	113.90	-115.13	-1,055.74	-6,260.86	425.53	213.94	211.59	2.011	
14,100.00	7,178.81	14,358.76	7,359.34	115.29	115.54	-115.10	-1,055.52	-6,360.86	425.55	210.83	214.72	1.982	
14,200.00	7,178.98	14,458.76	7,359.31	116.94	117.19	-115.07	-1,055.30	-6,460.86	425.57	207.71	217.85	1.953	
14,300.00	7,179.15	14,558.76	7,359.28	118.59	118.84	-115.04	-1,055.08	-6,560.86	425.58	204.60	220.98	1.926	
14,400.00	7,179.31	14,658.76	7,359.26	120.24	120.49	-115.01	-1,054.85	-6,660.86	425.60	201.48	224.12	1.899	
14,500.00	7,179.48	14,758.76	7,359.23	121.90	122.14	-114.98	-1,054.63	-6,760.86	425.62	198.36	227.25	1.873	
14,600.00	7,179.65	14,858.76	7,359.21	123.55	123.79	-114.95	-1,054.41	-6,860.86	425.63	195.24	230.39	1.847	
14,700.00	7,179.82	14,958.75	7,359.18	125.21	125.44	-114.92	-1,054.19	-6,960.86	425.65	192.12	233.53	1.823	
14,800.00	7,179.98	15,058.75	7,359.16	126.86	127.10	-114.89	-1,053.97	-7,060.86	425.67	189.00	236.67	1.799	
14,900.00	7,180.15	15,158.75	7,359.13	128.52	128.75	-114.86	-1,053.74	-7,160.85	425.69	185.87	239.81	1.775	
15,000.00	7,180.32	15,258.75	7,359.10	130.17	130.40	-114.83	-1,053.52	-7,260.85	425.70	182.74	242.96	1.752	
15,100.00	7,180.48	15,358.75	7,359.08	131.83	132.05	-114.80	-1,053.30	-7,360.85	425.72	179.62	246.11	1.730	
15,200.00	7,180.65	15,458.75	7,359.05	133.49	133.71	-114.77	-1,053.08	-7,460.85	425.74	176.48	249.25	1.708	
15,300.00	7,180.82	15,558.75	7,359.03	135.15	135.36	-114.74	-1,052.85	-7,560.85	425.76	173.35	252.40	1.687	
15,400.00	7,180.98	15,658.75	7,359.00	136.80	137.02	-114.72	-1,052.63	-7,660.85	425.77	170.22	255.56	1.666	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,410.68	7,181.00	15,669.44	7,359.00	136.98	137.19	-114.71	-1,052.61	-7,671.54	425.78	169.88	255.89	1.664 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	179.73	-59.74	0.28	59.75				
100.00	100.00	100.00	100.00	3.28	3.28	179.73	-59.74	0.28	59.75	52.22	7.53	7.935	
200.00	200.00	200.00	200.00	3.31	3.31	179.73	-59.74	0.28	59.75	52.17	7.57	7.888	CC, ES
300.00	299.98	298.28	298.26	3.35	3.34	50.81	-61.15	1.21	60.07	52.42	7.65	7.850	
400.00	399.84	396.55	396.40	3.41	3.40	51.90	-65.36	4.00	61.05	53.29	7.76	7.867	
500.00	499.45	494.80	494.28	3.49	3.49	53.65	-72.37	8.65	62.75	54.83	7.91	7.929	
600.00	598.70	593.00	591.77	3.61	3.60	55.93	-82.17	15.15	65.20	57.09	8.12	8.033	
700.00	697.51	691.15	688.75	3.76	3.74	58.46	-94.75	23.49	68.64	60.26	8.38	8.189	
800.00	796.21	789.17	785.02	3.95	3.94	59.42	-110.06	33.64	74.36	65.65	8.70	8.542	
900.00	894.91	887.68	881.15	4.16	4.17	58.76	-127.98	45.53	82.40	73.32	9.08	9.071	
1,000.00	993.61	987.31	978.25	4.40	4.45	57.96	-146.60	57.88	90.92	81.40	9.52	9.548	
1,100.00	1,092.32	1,086.93	1,075.34	4.66	4.76	57.29	-165.22	70.22	99.45	89.45	10.00	9.946	
1,200.00	1,191.02	1,186.56	1,172.43	4.93	5.08	56.73	-183.84	82.57	108.00	97.49	10.51	10.279	
1,300.00	1,289.72	1,286.19	1,269.52	5.21	5.43	56.25	-202.46	94.92	116.55	105.51	11.04	10.556	
1,400.00	1,388.42	1,385.82	1,366.61	5.51	5.80	55.84	-221.09	107.27	125.11	113.51	11.60	10.788	
1,500.00	1,487.13	1,485.45	1,463.70	5.81	6.17	55.48	-239.71	119.62	133.68	121.50	12.17	10.981	
1,600.00	1,585.83	1,585.08	1,560.79	6.13	6.56	55.16	-258.33	131.97	142.25	129.48	12.77	11.143	
1,700.00	1,684.53	1,684.71	1,657.88	6.45	6.95	54.88	-276.95	144.32	150.82	137.45	13.37	11.280	
1,800.00	1,783.23	1,784.34	1,754.98	6.78	7.36	54.63	-295.57	156.67	159.40	145.41	13.99	11.395	
1,900.00	1,881.94	1,883.97	1,852.07	6.96	7.61	54.40	-314.19	169.01	167.98	154.02	13.96	12.034	
2,000.00	1,980.64	1,983.60	1,949.16	6.99	7.69	54.20	-332.81	181.36	176.56	162.52	14.04	12.578	
2,100.00	2,079.34	2,083.23	2,046.25	7.05	7.76	54.02	-351.44	193.71	185.14	171.02	14.12	13.109	
2,200.00	2,178.04	2,182.86	2,143.34	7.12	7.85	53.85	-370.06	206.06	193.73	179.49	14.24	13.602	
2,300.00	2,276.75	2,282.48	2,240.43	7.20	7.96	53.69	-388.68	218.41	202.32	187.92	14.39	14.055	
2,400.00	2,375.45	2,382.11	2,337.52	7.30	8.08	53.55	-407.30	230.76	210.91	196.33	14.58	14.468	
2,500.00	2,474.15	2,481.74	2,434.62	7.42	8.23	53.42	-425.92	243.11	219.50	204.71	14.79	14.841	
2,600.00	2,572.85	2,581.37	2,531.71	7.54	8.38	53.30	-444.54	255.45	228.09	213.06	15.03	15.175	
2,700.00	2,671.56	2,681.00	2,628.80	7.68	8.56	53.19	-463.16	267.80	236.68	221.38	15.30	15.472	
2,800.00	2,770.26	2,780.63	2,725.89	7.84	8.74	53.09	-481.79	280.15	245.27	229.68	15.59	15.732	
2,900.00	2,868.96	2,880.26	2,822.98	8.00	8.94	52.99	-500.41	292.50	253.87	237.96	15.91	15.958	
3,000.00	2,967.66	2,979.89	2,920.07	8.18	9.16	52.90	-519.03	304.85	262.46	246.21	16.25	16.154	
3,100.00	3,066.37	3,079.52	3,017.16	8.36	9.38	52.82	-537.65	317.20	271.05	254.45	16.61	16.321	
3,200.00	3,165.07	3,179.15	3,114.25	8.56	9.61	52.74	-556.27	329.55	279.65	262.66	16.99	16.461	
3,300.00	3,263.77	3,278.78	3,211.35	8.76	9.86	52.66	-574.89	341.90	288.25	270.86	17.39	16.579	
3,400.00	3,362.47	3,378.41	3,308.44	8.97	10.11	52.59	-593.52	354.24	296.84	279.04	17.80	16.675	
3,500.00	3,461.18	3,478.04	3,405.53	9.19	10.37	52.52	-612.14	366.59	305.44	287.21	18.23	16.752	
3,600.00	3,559.88	3,577.66	3,502.62	9.42	10.65	52.46	-630.76	378.94	314.04	295.36	18.68	16.812	
3,700.00	3,658.58	3,677.29	3,599.71	9.65	10.92	52.40	-649.38	391.29	322.63	303.50	19.14	16.858	
3,800.00	3,757.28	3,776.92	3,696.80	9.89	11.21	52.35	-668.00	403.64	331.23	311.62	19.61	16.890	
3,900.00	3,855.99	3,876.55	3,793.89	10.14	11.50	52.29	-686.62	415.99	339.83	319.74	20.09	16.912	
4,000.00	3,954.69	3,976.18	3,890.98	10.39	11.79	52.24	-705.24	428.34	348.43	327.84	20.59	16.923	
4,100.00	4,053.39	4,075.81	3,988.08	10.65	12.10	52.19	-723.87	440.69	357.03	335.93	21.09	16.926	
4,200.00	4,152.09	4,175.44	4,085.17	10.91	12.40	52.15	-742.49	453.03	365.63	344.02	21.61	16.921	
4,300.00	4,250.79	4,275.07	4,182.26	11.17	12.71	52.10	-761.11	465.38	374.23	352.10	22.13	16.910	
4,400.00	4,349.50	4,374.70	4,279.35	11.44	13.03	52.06	-779.73	477.73	382.82	360.16	22.66	16.894	
4,500.00	4,448.20	4,474.33	4,376.44	11.71	13.35	52.02	-798.35	490.08	391.42	368.23	23.20	16.873	
4,600.00	4,546.90	4,573.96	4,473.53	11.99	13.67	51.98	-816.97	502.43	400.02	376.28	23.74	16.848	
4,700.00	4,645.60	4,673.59	4,570.62	12.27	14.00	51.95	-835.60	514.78	408.62	384.33	24.29	16.819	
4,800.00	4,744.31	4,773.21	4,667.72	12.55	14.33	51.91	-854.22	527.13	417.22	392.37	24.85	16.788	
4,900.00	4,843.01	4,872.84	4,764.81	12.84	14.66	51.88	-872.84	539.47	425.82	400.41	25.42	16.755	
5,000.00	4,941.71	4,972.47	4,861.90	13.12	15.00	51.84	-891.46	551.82	434.42	408.44	25.98	16.719	
5,100.00	5,040.41	5,072.10	4,958.99	13.41	15.34	51.81	-910.08	564.17	443.03	416.47	26.56	16.682	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.00	5,139.12	5,171.73	5,056.08	13.71	15.68	51.78	-928.70	576.52	451.63	424.49	27.13	16.644		
5,300.00	5,237.82	5,271.36	5,153.17	14.00	16.02	51.75	-947.32	588.87	460.23	432.51	27.72	16.605		
5,400.00	5,336.52	5,370.99	5,250.26	14.30	16.37	51.72	-965.95	601.22	468.83	440.53	28.30	16.565		
5,500.00	5,435.22	5,470.62	5,347.35	14.60	16.71	51.70	-984.57	613.57	477.43	448.54	28.89	16.525		
5,600.00	5,533.93	5,570.25	5,444.45	14.90	17.06	51.67	-1,003.19	625.92	486.03	456.54	29.49	16.484		
5,700.00	5,632.63	5,669.88	5,541.54	15.20	17.42	51.65	-1,021.81	638.26	494.63	464.55	30.08	16.443		
5,800.00	5,731.33	5,769.51	5,638.63	15.50	17.77	51.62	-1,040.43	650.61	503.23	472.55	30.68	16.402		
5,900.00	5,830.03	5,869.14	5,735.72	15.81	18.12	51.60	-1,059.05	662.96	511.83	480.55	31.28	16.361		
6,000.00	5,928.74	5,968.76	5,832.81	16.11	18.48	51.58	-1,077.67	675.31	520.43	488.55	31.89	16.320		
6,100.00	6,027.44	6,068.39	5,929.90	16.42	18.84	51.55	-1,096.30	687.66	529.04	496.54	32.50	16.279		
6,200.00	6,126.14	6,168.02	6,026.99	16.73	19.19	51.53	-1,114.92	700.01	537.64	504.53	33.11	16.239		
6,300.00	6,224.84	6,267.65	6,124.09	17.04	19.55	51.51	-1,133.54	712.36	546.24	512.52	33.72	16.199		
6,400.00	6,323.55	6,367.28	6,221.18	17.35	19.92	51.49	-1,152.16	724.70	554.84	520.51	34.34	16.159		
6,500.00	6,422.25	6,466.91	6,318.27	17.67	20.28	51.47	-1,170.78	737.05	563.44	528.49	34.95	16.120		
6,600.00	6,521.26	6,566.42	6,415.24	17.91	20.64	12.78	-1,189.38	749.39	571.99	536.50	35.49	16.117		
6,700.00	6,620.47	6,664.01	6,510.50	18.07	20.96	-52.61	-1,207.67	759.93	580.56	544.76	35.79	16.221		
6,800.00	6,717.57	6,762.55	6,607.12	18.18	21.17	-71.21	-1,226.38	757.66	589.70	553.75	35.95	16.403		
6,900.00	6,810.17	6,864.17	6,705.13	18.24	21.35	-78.47	-1,245.55	739.46	599.27	563.23	36.04	16.628		
7,000.00	6,895.98	6,969.14	6,802.01	18.27	21.47	-82.48	-1,264.72	704.24	608.99	572.91	36.09	16.875		
7,100.00	6,972.90	7,077.68	6,894.76	18.27	21.55	-85.09	-1,283.31	651.30	618.53	582.41	36.13	17.120		
7,200.00	7,039.03	7,189.86	6,979.89	18.25	21.59	-86.93	-1,300.64	580.54	627.53	591.31	36.22	17.326		
7,300.00	7,092.74	7,305.60	7,053.50	18.23	21.58	-88.27	-1,315.95	492.76	635.59	599.16	36.43	17.449		
7,400.00	7,132.71	7,424.56	7,111.60	18.23	21.52	-89.19	-1,328.45	389.91	642.34	605.50	36.84	17.436		
7,500.00	7,157.96	7,546.15	7,150.52	18.28	21.42	-89.76	-1,337.39	275.26	647.45	609.94	37.51	17.261		
7,600.00	7,167.85	7,669.53	7,167.42	18.46	21.29	-89.99	-1,342.15	153.33	650.64	612.18	38.46	16.917		
7,700.00	7,168.14	7,774.63	7,168.15	18.86	21.17	-90.00	-1,343.59	48.25	652.31	612.76	39.55	16.494		
7,800.00	7,168.31	7,874.62	7,168.32	19.49	21.13	-90.00	-1,344.85	-51.73	653.91	613.06	40.84	16.010		
7,900.00	7,168.48	7,974.61	7,168.50	20.27	21.68	-90.00	-1,346.11	-151.71	655.50	613.14	42.37	15.472		
8,000.00	7,168.64	8,074.59	7,168.68	21.18	22.56	-90.01	-1,347.38	-251.69	657.10	613.00	44.09	14.902		
8,100.00	7,168.81	8,174.58	7,168.86	22.18	23.53	-90.01	-1,348.64	-351.67	658.69	612.69	46.00	14.319		
8,200.00	7,168.98	8,274.57	7,169.04	23.25	24.57	-90.01	-1,349.91	-451.65	660.29	612.22	48.07	13.737		
8,300.00	7,169.14	8,374.55	7,169.22	24.40	25.67	-90.01	-1,351.17	-551.63	661.88	611.61	50.27	13.166		
8,400.00	7,169.31	8,474.54	7,169.40	25.60	26.82	-90.01	-1,352.44	-651.60	663.48	610.88	52.60	12.614		
8,500.00	7,169.48	8,574.53	7,169.58	26.85	28.02	-90.01	-1,353.70	-751.58	665.07	610.04	55.03	12.086		
8,600.00	7,169.64	8,674.52	7,169.76	28.14	29.27	-90.01	-1,354.97	-851.56	666.67	609.12	57.55	11.584		
8,700.00	7,169.81	8,774.50	7,169.94	29.47	30.55	-90.01	-1,356.23	-951.54	668.26	608.11	60.16	11.109		
8,800.00	7,169.98	8,874.49	7,170.12	30.83	31.87	-90.01	-1,357.49	-1,051.52	669.86	607.03	62.83	10.661		
8,900.00	7,170.14	8,974.48	7,170.30	32.23	33.22	-90.01	-1,358.76	-1,151.50	671.45	605.89	65.57	10.240		
9,000.00	7,170.31	9,074.47	7,170.47	33.64	34.59	-90.02	-1,360.02	-1,251.48	673.05	604.69	68.36	9.846		
9,100.00	7,170.48	9,174.45	7,170.65	35.08	35.99	-90.02	-1,361.29	-1,351.46	674.65	603.45	71.20	9.476		
9,200.00	7,170.64	9,274.44	7,170.83	36.54	37.41	-90.02	-1,362.55	-1,451.44	676.24	602.16	74.08	9.129		
9,300.00	7,170.81	9,374.43	7,171.01	38.02	38.85	-90.02	-1,363.82	-1,551.42	677.84	600.84	77.00	8.803		
9,400.00	7,170.98	9,474.41	7,171.19	39.51	40.30	-90.02	-1,365.08	-1,651.40	679.43	599.48	79.95	8.498		
9,500.00	7,171.14	9,574.40	7,171.37	41.01	41.77	-90.02	-1,366.35	-1,751.37	681.03	598.10	82.93	8.212		
9,600.00	7,171.31	9,674.39	7,171.55	42.53	43.26	-90.02	-1,367.61	-1,851.35	682.62	596.68	85.94	7.943		
9,700.00	7,171.48	9,774.38	7,171.73	44.05	44.76	-90.02	-1,368.87	-1,951.33	684.22	595.25	88.97	7.690		
9,800.00	7,171.64	9,874.36	7,171.91	45.59	46.27	-90.02	-1,370.14	-2,051.31	685.81	593.79	92.03	7.452		
9,900.00	7,171.81	9,974.35	7,172.09	47.14	47.78	-90.02	-1,371.40	-2,151.29	687.41	592.31	95.10	7.228		
10,000.00	7,171.98	10,074.34	7,172.27	48.69	49.31	-90.03	-1,372.67	-2,251.27	689.00	590.81	98.19	7.017		
10,100.00	7,172.14	10,174.33	7,172.45	50.26	50.85	-90.03	-1,373.93	-2,351.25	690.60	589.30	101.30	6.818		
10,200.00	7,172.31	10,274.31	7,172.63	51.83	52.40	-90.03	-1,375.20	-2,451.23	692.19	587.78	104.42	6.629		
10,300.00	7,172.48	10,374.30	7,172.80	53.40	53.95	-90.03	-1,376.46	-2,551.21	693.79	586.24	107.55	6.451		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.64	10,474.29	7,172.98	54.98	55.51	-90.03	-1,377.73	-2,651.19	695.38	584.68	110.70	6.282		
10,500.00	7,172.81	10,574.27	7,173.16	56.57	57.07	-90.03	-1,378.99	-2,751.17	696.98	583.12	113.86	6.121		
10,600.00	7,172.98	10,674.26	7,173.34	58.16	58.64	-90.03	-1,380.26	-2,851.14	698.58	581.55	117.03	5.969		
10,700.00	7,173.14	10,808.80	7,173.55	59.75	60.76	-90.03	-1,380.39	-2,968.08	699.03	578.50	120.53	5.800		
10,800.00	7,173.31	10,908.81	7,173.73	61.35	62.34	-90.03	-1,379.23	-3,068.07	698.21	574.48	123.72	5.643		
10,900.00	7,173.48	11,008.81	7,173.91	62.96	63.93	-90.03	-1,378.07	-3,168.06	697.38	570.46	126.92	5.495		
11,000.00	7,173.65	11,091.19	7,174.09	64.56	65.24	-90.04	-1,376.92	-3,268.05	696.55	566.71	129.84	5.364		
11,100.00	7,173.81	11,208.82	7,174.27	66.17	67.11	-90.04	-1,375.76	-3,368.04	695.72	562.38	133.34	5.218		
11,200.00	7,173.98	11,308.82	7,174.45	67.79	68.71	-90.04	-1,374.60	-3,468.03	694.90	558.34	136.56	5.089		
11,300.00	7,174.15	11,408.82	7,174.63	69.40	70.31	-90.04	-1,373.44	-3,568.01	694.07	554.29	139.78	4.965		
11,400.00	7,174.31	11,508.83	7,174.81	71.02	71.92	-90.04	-1,372.28	-3,668.00	693.24	550.23	143.01	4.847		
11,500.00	7,174.48	11,608.83	7,174.99	72.64	73.52	-90.04	-1,371.12	-3,767.99	692.41	546.16	146.25	4.735		
11,600.00	7,174.65	11,708.83	7,175.17	74.26	75.13	-90.04	-1,369.97	-3,867.98	691.58	542.10	149.49	4.626		
11,700.00	7,174.81	11,791.16	7,175.35	75.89	76.46	-90.04	-1,368.81	-3,967.97	690.76	538.31	152.45	4.531		
11,800.00	7,174.98	11,908.84	7,175.53	77.51	78.36	-90.04	-1,367.65	-4,067.96	689.93	533.95	155.98	4.423		
11,900.00	7,175.15	11,991.16	7,175.71	79.14	79.69	-90.05	-1,366.49	-4,167.95	689.10	530.15	158.95	4.335		
12,000.00	7,175.31	12,108.85	7,175.89	80.77	81.60	-90.05	-1,365.33	-4,267.94	688.27	525.78	162.49	4.236		
12,100.00	7,175.48	12,208.85	7,176.07	82.40	83.22	-90.05	-1,364.17	-4,367.93	687.45	521.69	165.75	4.147		
12,200.00	7,175.65	12,308.85	7,176.25	84.04	84.84	-90.05	-1,363.02	-4,467.92	686.62	517.60	169.01	4.062		
12,300.00	7,175.81	12,408.86	7,176.43	85.67	86.47	-90.05	-1,361.86	-4,567.91	685.79	513.51	172.28	3.981		
12,400.00	7,175.98	12,508.86	7,176.61	87.31	88.09	-90.05	-1,360.70	-4,667.90	684.96	509.41	175.55	3.902		
12,500.00	7,176.15	12,608.86	7,176.79	88.95	89.72	-90.05	-1,359.54	-4,767.89	684.13	505.31	178.82	3.826		
12,600.00	7,176.31	12,708.87	7,176.97	90.59	91.35	-90.05	-1,358.38	-4,867.88	683.31	501.21	182.10	3.752		
12,700.00	7,176.48	12,808.87	7,177.15	92.23	92.99	-90.06	-1,357.22	-4,967.87	682.48	497.10	185.38	3.682		
12,800.00	7,176.65	12,908.87	7,177.33	93.87	94.62	-90.06	-1,356.06	-5,067.86	681.65	493.00	188.66	3.613		
12,900.00	7,176.81	13,008.88	7,177.51	95.51	96.25	-90.06	-1,354.91	-5,167.85	680.82	488.89	191.94	3.547		
13,000.00	7,176.98	13,108.88	7,177.68	97.15	97.89	-90.06	-1,353.75	-5,267.84	680.00	484.77	195.22	3.483		
13,100.00	7,177.15	13,208.88	7,177.86	98.80	99.53	-90.06	-1,352.59	-5,367.83	679.17	480.66	198.51	3.421		
13,200.00	7,177.31	13,308.89	7,178.04	100.44	101.16	-90.06	-1,351.43	-5,467.82	678.34	476.54	201.80	3.361		
13,300.00	7,177.48	13,408.89	7,178.22	102.09	102.80	-90.06	-1,350.27	-5,567.81	677.51	472.43	205.09	3.304		
13,400.00	7,177.65	13,508.89	7,178.40	103.74	104.44	-90.06	-1,349.11	-5,667.80	676.69	468.31	208.38	3.247		
13,500.00	7,177.81	13,608.90	7,178.58	105.38	106.09	-90.06	-1,347.96	-5,767.79	675.86	464.18	211.67	3.193		
13,600.00	7,177.98	13,691.10	7,178.76	107.03	107.44	-90.07	-1,346.80	-5,867.78	675.03	460.35	214.67	3.144		
13,700.00	7,178.15	13,808.90	7,178.94	108.68	109.37	-90.07	-1,345.64	-5,967.77	674.20	455.94	218.26	3.089		
13,800.00	7,178.31	13,908.91	7,179.12	110.33	111.02	-90.07	-1,344.48	-6,067.76	673.37	451.81	221.56	3.039		
13,900.00	7,178.48	14,008.91	7,179.30	111.98	112.66	-90.07	-1,343.32	-6,167.75	672.55	447.68	224.86	2.991		
14,000.00	7,178.65	14,108.92	7,179.48	113.63	114.31	-90.07	-1,342.16	-6,267.74	671.72	443.56	228.16	2.944		
14,100.00	7,178.81	14,208.92	7,179.66	115.29	115.95	-90.07	-1,341.01	-6,367.73	670.89	439.43	231.46	2.898		
14,200.00	7,178.98	14,308.92	7,179.84	116.94	117.60	-90.07	-1,339.85	-6,467.72	670.06	435.30	234.77	2.854		
14,300.00	7,179.15	14,408.93	7,180.02	118.59	119.25	-90.07	-1,338.69	-6,567.71	669.24	431.16	238.07	2.811		
14,400.00	7,179.31	14,491.07	7,180.20	120.24	120.60	-90.08	-1,337.53	-6,667.70	668.41	427.32	241.08	2.773		
14,500.00	7,179.48	14,608.93	7,180.38	121.90	122.55	-90.08	-1,336.37	-6,767.69	667.58	422.90	244.68	2.728		
14,600.00	7,179.65	14,708.94	7,180.56	123.55	124.20	-90.08	-1,335.21	-6,867.68	666.75	418.76	247.99	2.689		
14,700.00	7,179.82	14,808.94	7,180.74	125.21	125.85	-90.08	-1,334.05	-6,967.66	665.92	414.62	251.30	2.650		
14,800.00	7,179.98	14,908.94	7,180.92	126.86	127.50	-90.08	-1,332.90	-7,067.65	665.10	410.49	254.61	2.612		
14,900.00	7,180.15	15,008.95	7,181.10	128.52	129.15	-90.08	-1,331.74	-7,167.64	664.27	406.35	257.92	2.575		
15,000.00	7,180.32	15,108.95	7,181.28	130.17	130.80	-90.08	-1,330.58	-7,267.63	663.44	402.21	261.23	2.540		
15,100.00	7,180.48	15,208.95	7,181.46	131.83	132.45	-90.08	-1,329.42	-7,367.62	662.61	398.07	264.54	2.505		
15,200.00	7,180.65	15,308.96	7,181.64	133.49	134.11	-90.08	-1,328.26	-7,467.61	661.79	393.93	267.86	2.471		
15,300.00	7,180.82	15,408.96	7,181.82	135.15	135.76	-90.09	-1,327.10	-7,567.60	660.96	389.79	271.17	2.437		
15,400.00	7,180.98	15,491.04	7,182.00	136.80	137.12	-90.09	-1,325.95	-7,667.59	660.13	385.94	274.19	2.408		
15,410.68	7,181.00	15,501.72	7,182.02	136.98	137.30	-90.09	-1,325.82	-7,678.28	660.04	385.50	274.54	2.404 SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	180.00	-19.67	0.00	19.67					
100.00	100.00	100.00	100.00	3.28	3.28	180.00	-19.67	0.00	19.67	12.14	7.53	2.613		
200.00	200.00	200.00	200.00	3.31	3.31	180.00	-19.67	0.00	19.67	12.10	7.57	2.597 CC		
300.00	299.98	299.51	299.49	3.35	3.35	51.12	-20.92	1.20	19.82	12.17	7.65	2.590		
400.00	399.84	399.01	398.85	3.41	3.41	52.36	-24.66	4.78	20.27	12.51	7.77	2.611		
500.00	499.45	498.51	497.97	3.49	3.49	54.30	-30.89	10.75	21.05	13.12	7.92	2.656		
600.00	598.70	598.01	596.73	3.61	3.61	56.78	-39.59	19.11	22.16	14.02	8.14	2.723		
700.00	697.51	697.49	694.99	3.76	3.76	59.10	-50.77	29.82	23.78	15.36	8.42	2.825		
800.00	796.21	797.38	793.29	3.95	3.95	58.50	-63.57	42.10	26.43	17.67	8.76	3.017		
900.00	894.91	902.66	891.66	4.16	4.19	57.96	-76.41	54.41	29.11	19.94	9.17	3.176		
1,000.00	993.61	1,002.69	990.03	4.40	4.44	57.50	-89.25	66.72	31.79	22.19	9.60	3.311		
1,100.00	1,092.32	1,102.73	1,088.40	4.66	4.71	57.12	-102.09	79.03	34.47	24.40	10.07	3.422		
1,200.00	1,191.02	1,202.77	1,186.77	4.93	5.00	56.79	-114.93	91.35	37.16	26.58	10.57	3.514		
1,300.00	1,289.72	1,302.80	1,285.14	5.21	5.30	56.51	-127.76	103.66	39.84	28.74	11.10	3.589		
1,400.00	1,388.42	1,402.84	1,383.50	5.51	5.62	56.26	-140.60	115.97	42.53	30.88	11.65	3.651		
1,500.00	1,487.13	1,502.88	1,481.87	5.81	5.94	56.04	-153.44	128.28	45.22	33.00	12.21	3.702		
1,600.00	1,585.83	1,602.91	1,580.24	6.13	6.28	55.85	-166.28	140.59	47.90	35.11	12.79	3.744		
1,700.00	1,684.53	1,697.05	1,678.61	6.45	6.60	55.67	-179.12	152.90	50.59	37.22	13.37	3.784		
1,800.00	1,783.23	1,802.98	1,776.98	6.78	6.96	55.52	-191.96	165.22	53.28	39.29	13.99	3.808		
1,900.00	1,881.94	1,903.02	1,875.35	6.96	7.15	55.37	-204.80	177.53	55.97	42.04	13.93	4.018		
2,000.00	1,980.64	2,003.06	1,973.72	6.99	7.19	55.25	-217.64	189.84	58.65	44.67	13.99	4.194		
2,100.00	2,079.34	2,103.09	2,072.08	7.05	7.25	55.13	-230.47	202.15	61.34	47.27	14.08	4.358		
2,200.00	2,178.04	2,203.13	2,170.45	7.12	7.33	55.02	-243.31	214.46	64.03	49.83	14.20	4.510		
2,300.00	2,276.75	2,303.17	2,268.82	7.20	7.42	54.92	-256.15	226.78	66.72	52.37	14.35	4.650		
2,400.00	2,375.45	2,396.80	2,367.19	7.30	7.52	54.83	-268.99	239.09	69.41	54.89	14.52	4.779		
2,500.00	2,474.15	2,503.24	2,465.56	7.42	7.65	54.75	-281.83	251.40	72.10	57.36	14.74	4.892		
2,600.00	2,572.85	2,596.73	2,563.93	7.54	7.78	54.67	-294.67	263.71	74.79	59.82	14.97	4.997		
2,700.00	2,671.56	2,696.69	2,662.29	7.68	7.93	54.60	-307.51	276.02	77.48	62.25	15.23	5.088		
2,800.00	2,770.26	2,803.35	2,760.66	7.84	8.10	54.53	-320.34	288.33	80.17	64.65	15.52	5.164		
2,900.00	2,868.96	2,903.38	2,859.03	8.00	8.27	54.47	-333.18	300.65	82.86	67.03	15.83	5.234		
3,000.00	2,967.66	3,003.42	2,957.40	8.18	8.46	54.41	-346.02	312.96	85.55	69.39	16.16	5.293		
3,100.00	3,066.37	3,103.46	3,055.77	8.36	8.66	54.35	-358.86	325.27	88.24	71.73	16.51	5.344		
3,200.00	3,165.07	3,203.49	3,154.14	8.56	8.86	54.30	-371.70	337.58	90.93	74.05	16.88	5.386		
3,300.00	3,263.77	3,303.53	3,252.50	8.76	9.08	54.25	-384.54	349.89	93.62	76.35	17.27	5.422		
3,400.00	3,362.47	3,403.56	3,350.87	8.97	9.30	54.20	-397.38	362.20	96.31	78.64	17.67	5.450		
3,500.00	3,461.18	3,503.60	3,449.24	9.19	9.53	54.16	-410.21	374.52	99.00	80.91	18.09	5.473		
3,600.00	3,559.88	3,596.36	3,547.61	9.42	9.76	54.12	-423.05	386.83	101.69	83.19	18.51	5.495		
3,700.00	3,658.58	3,703.67	3,645.98	9.65	10.02	54.08	-435.89	399.14	104.38	85.42	18.97	5.503		
3,800.00	3,757.28	3,803.71	3,744.35	9.89	10.27	54.04	-448.73	411.45	107.07	87.65	19.43	5.512		
3,900.00	3,855.99	3,903.75	3,842.72	10.14	10.53	54.01	-461.57	423.76	109.77	89.87	19.89	5.517		
4,000.00	3,954.69	4,003.78	3,941.08	10.39	10.79	53.97	-474.41	436.08	112.46	92.08	20.37	5.519		
4,100.00	4,053.39	4,103.82	4,039.45	10.65	11.06	53.94	-487.25	448.39	115.15	94.28	20.86	5.519		
4,200.00	4,152.09	4,196.15	4,137.82	10.91	11.32	53.91	-500.08	460.70	117.84	96.50	21.34	5.521		
4,300.00	4,250.79	4,303.89	4,236.19	11.17	11.61	53.88	-512.92	473.01	120.53	98.66	21.87	5.511		
4,400.00	4,349.50	4,403.93	4,334.56	11.44	11.90	53.85	-525.76	485.32	123.22	100.84	22.38	5.505		
4,500.00	4,448.20	4,496.04	4,432.93	11.71	12.16	53.82	-538.60	497.63	125.91	103.03	22.89	5.502		
4,600.00	4,546.90	4,604.00	4,531.29	11.99	12.47	53.80	-551.44	509.95	128.60	105.17	23.44	5.487		
4,700.00	4,645.60	4,695.97	4,629.66	12.27	12.74	53.77	-564.28	522.26	131.29	107.34	23.95	5.482		
4,800.00	4,744.31	4,795.93	4,728.03	12.55	13.03	53.75	-577.12	534.57	133.98	109.49	24.49	5.471		
4,900.00	4,843.01	4,904.11	4,826.40	12.84	13.36	53.73	-589.95	546.88	136.68	111.62	25.06	5.454		
5,000.00	4,941.71	5,004.14	4,924.77	13.12	13.66	53.70	-602.79	559.19	139.37	113.76	25.61	5.442		
5,100.00	5,040.41	5,104.18	5,023.14	13.41	13.96	53.68	-615.63	571.51	142.06	115.89	26.17	5.429		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	5,139.12	5,204.22	5,121.50	13.71	14.27	53.66	-628.47	583.82	144.75	118.02	26.73	5.415	
5,300.00	5,237.82	5,304.25	5,219.87	14.00	14.58	53.64	-641.31	596.13	147.44	120.15	27.29	5.402	
5,400.00	5,336.52	5,404.29	5,318.24	14.30	14.89	53.62	-654.15	608.44	150.13	122.27	27.86	5.388	
5,500.00	5,435.22	5,495.68	5,416.61	14.60	15.17	53.60	-666.99	620.75	152.82	124.41	28.41	5.379	
5,600.00	5,533.93	5,595.64	5,514.98	14.90	15.48	53.59	-679.82	633.06	155.51	126.52	28.99	5.365	
5,700.00	5,632.63	5,704.40	5,613.35	15.20	15.83	53.57	-692.66	645.38	158.20	128.61	29.59	5.346	
5,800.00	5,731.33	5,795.57	5,711.72	15.50	16.12	53.55	-705.50	657.69	160.90	130.74	30.15	5.336	
5,900.00	5,830.03	5,904.47	5,810.08	15.81	16.46	53.54	-718.34	670.00	163.59	132.82	30.76	5.318	
6,000.00	5,928.74	6,004.51	5,908.45	16.11	16.78	53.52	-731.18	682.31	166.28	134.93	31.35	5.304	
6,100.00	6,027.44	6,104.54	6,006.82	16.42	17.11	53.51	-744.02	694.62	168.97	137.03	31.94	5.290	
6,200.00	6,126.14	6,204.58	6,105.19	16.73	17.43	53.49	-756.86	706.93	171.66	139.12	32.54	5.276	
6,300.00	6,224.84	6,304.61	6,203.56	17.04	17.75	53.48	-769.70	719.25	174.35	141.22	33.13	5.262	
6,400.00	6,323.55	6,395.35	6,301.93	17.35	18.05	53.46	-782.53	731.56	177.04	143.34	33.70	5.253	
6,500.00	6,422.25	6,504.69	6,400.29	17.67	18.40	53.45	-795.37	743.87	179.73	145.40	34.33	5.235	
6,600.00	6,521.26	6,595.16	6,498.55	17.91	18.70	13.67	-808.20	756.17	182.28	147.52	34.77	5.243	
6,700.00	6,620.47	6,694.34	6,596.47	18.07	18.96	-55.07	-820.97	764.72	185.05	150.22	34.82	5.314	
6,800.00	6,717.57	6,795.59	6,696.56	18.18	19.13	-76.91	-833.99	758.29	188.96	154.19	34.77	5.435	
6,900.00	6,810.17	6,899.39	6,796.80	18.24	19.25	-87.17	-847.00	735.20	193.83	159.17	34.66	5.592	
7,000.00	6,895.98	7,005.84	6,894.34	18.27	19.33	-93.81	-859.62	694.80	199.33	164.83	34.50	5.777	
7,100.00	6,972.90	7,114.93	6,985.95	18.27	19.36	-98.66	-871.43	637.02	205.07	170.75	34.32	5.976	
7,200.00	7,039.03	7,226.53	7,068.16	18.25	19.35	-102.31	-881.98	562.49	210.60	176.43	34.16	6.165	
7,300.00	7,092.74	7,340.41	7,137.45	18.23	19.32	-105.01	-890.82	472.74	215.48	181.33	34.14	6.311	
7,400.00	7,132.71	7,456.16	7,190.51	18.23	19.27	-106.87	-897.51	370.27	219.33	184.95	34.38	6.379	
7,500.00	7,157.96	7,573.26	7,224.59	18.28	19.21	-107.96	-901.72	258.49	221.85	186.88	34.97	6.344	
7,600.00	7,167.85	7,691.05	7,237.85	18.46	19.21	-108.31	-903.20	141.62	222.84	186.93	35.90	6.207	
7,700.00	7,168.14	7,806.79	7,237.92	18.86	19.48	-108.24	-902.99	39.47	222.87	185.92	36.95	6.032	
7,800.00	7,168.31	7,906.79	7,237.83	19.49	20.09	-108.17	-902.77	-60.53	222.89	184.74	38.16	5.842	
7,900.00	7,168.48	8,006.79	7,237.74	20.27	20.89	-108.10	-902.55	-160.53	222.92	183.32	39.60	5.629	
8,000.00	7,168.64	8,106.79	7,237.65	21.18	21.80	-108.03	-902.32	-260.53	222.94	181.69	41.25	5.404	
8,100.00	7,168.81	8,206.79	7,237.56	22.18	22.80	-107.96	-902.10	-360.53	222.96	179.87	43.09	5.174	
8,200.00	7,168.98	8,306.79	7,237.47	23.25	23.88	-107.89	-901.88	-460.53	222.99	177.90	45.09	4.945	
8,300.00	7,169.14	8,406.79	7,237.38	24.40	25.01	-107.82	-901.66	-560.53	223.01	175.78	47.23	4.722	
8,400.00	7,169.31	8,506.79	7,237.29	25.60	26.21	-107.75	-901.44	-660.53	223.04	173.54	49.50	4.506	
8,500.00	7,169.48	8,606.79	7,237.20	26.85	27.45	-107.67	-901.21	-760.53	223.06	171.19	51.87	4.300	
8,600.00	7,169.64	8,706.79	7,237.11	28.14	28.73	-107.60	-900.99	-860.53	223.09	168.75	54.34	4.106	
8,700.00	7,169.81	8,806.79	7,237.02	29.47	30.05	-107.53	-900.77	-960.53	223.11	166.23	56.88	3.922	
8,800.00	7,169.98	8,906.79	7,236.93	30.83	31.41	-107.46	-900.55	-1,060.53	223.14	163.64	59.50	3.750	
8,900.00	7,170.14	9,006.79	7,236.84	32.23	32.79	-107.39	-900.32	-1,160.52	223.17	160.98	62.19	3.589	
9,000.00	7,170.31	9,106.79	7,236.75	33.64	34.19	-107.32	-900.10	-1,260.52	223.19	158.27	64.92	3.438	
9,100.00	7,170.48	9,206.79	7,236.66	35.08	35.62	-107.25	-899.88	-1,360.52	223.22	155.51	67.71	3.297	
9,200.00	7,170.64	9,306.79	7,236.57	36.54	37.07	-107.18	-899.66	-1,460.52	223.25	152.71	70.54	3.165	
9,300.00	7,170.81	9,406.80	7,236.48	38.02	38.54	-107.11	-899.44	-1,560.52	223.28	149.88	73.40	3.042	
9,400.00	7,170.98	9,506.80	7,236.39	39.51	40.02	-107.03	-899.21	-1,660.52	223.31	147.00	76.30	2.927	
9,500.00	7,171.14	9,606.80	7,236.30	41.01	41.51	-106.96	-898.99	-1,760.52	223.33	144.10	79.23	2.819	
9,600.00	7,171.31	9,706.80	7,236.21	42.53	43.02	-106.89	-898.77	-1,860.52	223.36	141.17	82.19	2.718	
9,700.00	7,171.48	9,806.80	7,236.12	44.05	44.54	-106.82	-898.55	-1,960.52	223.39	138.22	85.17	2.623	
9,800.00	7,171.64	9,906.80	7,236.03	45.59	46.07	-106.75	-898.32	-2,060.52	223.42	135.25	88.18	2.534	
9,900.00	7,171.81	10,006.80	7,235.94	47.14	47.61	-106.68	-898.10	-2,160.52	223.45	132.25	91.20	2.450	
10,000.00	7,171.98	10,106.80	7,235.85	48.69	49.16	-106.61	-897.88	-2,260.52	223.48	129.24	94.24	2.371	
10,100.00	7,172.14	10,206.80	7,235.76	50.26	50.72	-106.54	-897.66	-2,360.52	223.51	126.21	97.30	2.297	
10,200.00	7,172.31	10,306.80	7,235.67	51.83	52.28	-106.47	-897.44	-2,460.52	223.55	123.17	100.38	2.227	
10,300.00	7,172.48	10,406.80	7,235.58	53.40	53.85	-106.40	-897.21	-2,560.52	223.58	120.11	103.47	2.161	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,400.00	7,172.64	10,506.80	7,235.49	54.98	55.42	-106.32	-896.99	-2,660.51	223.61	117.04	106.57	2.098		
10,500.00	7,172.81	10,606.80	7,235.40	56.57	57.00	-106.25	-896.77	-2,760.51	223.64	113.96	109.68	2.039		
10,600.00	7,172.98	10,706.80	7,235.32	58.16	58.59	-106.18	-896.55	-2,860.51	223.67	110.86	112.81	1.983		
10,700.00	7,173.14	10,806.80	7,235.23	59.75	60.18	-106.11	-896.32	-2,960.51	223.71	107.76	115.95	1.929		
10,800.00	7,173.31	10,906.80	7,235.14	61.35	61.77	-106.04	-896.10	-3,060.51	223.74	104.65	119.09	1.879		
10,900.00	7,173.48	11,006.80	7,235.05	62.96	63.37	-105.97	-895.88	-3,160.51	223.77	101.53	122.25	1.831		
11,000.00	7,173.65	11,106.80	7,234.96	64.56	64.97	-105.90	-895.66	-3,260.51	223.81	98.40	125.41	1.785		
11,100.00	7,173.81	11,206.80	7,234.87	66.17	66.58	-105.83	-895.44	-3,360.51	223.84	95.26	128.58	1.741		
11,200.00	7,173.98	11,306.80	7,234.78	67.79	68.19	-105.76	-895.21	-3,460.51	223.88	92.12	131.76	1.699		
11,300.00	7,174.15	11,406.80	7,234.69	69.40	69.80	-105.69	-894.99	-3,560.51	223.91	88.97	134.94	1.659		
11,400.00	7,174.31	11,506.80	7,234.60	71.02	71.41	-105.62	-894.77	-3,660.51	223.95	85.81	138.14	1.621		
11,500.00	7,174.48	11,606.80	7,234.51	72.64	73.03	-105.55	-894.55	-3,760.51	223.98	82.65	141.33	1.585		
11,600.00	7,174.65	11,706.80	7,234.42	74.26	74.65	-105.48	-894.32	-3,860.51	224.02	79.48	144.54	1.550		
11,700.00	7,174.81	11,806.80	7,234.33	75.89	76.27	-105.40	-894.10	-3,960.51	224.06	76.31	147.75	1.516		
11,800.00	7,174.98	11,906.81	7,234.24	77.51	77.89	-105.33	-893.88	-4,060.51	224.09	73.13	150.96	1.484 Level 3		
11,900.00	7,175.15	12,006.81	7,234.15	79.14	79.52	-105.26	-893.66	-4,160.50	224.13	69.95	154.18	1.454 Level 3		
12,000.00	7,175.31	12,106.81	7,234.06	80.77	81.14	-105.19	-893.44	-4,260.50	224.17	66.76	157.41	1.424 Level 3		
12,100.00	7,175.48	12,206.81	7,233.97	82.40	82.77	-105.12	-893.21	-4,360.50	224.20	63.57	160.64	1.396 Level 3		
12,200.00	7,175.65	12,306.81	7,233.88	84.04	84.40	-105.05	-892.99	-4,460.50	224.24	60.37	163.87	1.368 Level 3		
12,300.00	7,175.81	12,406.81	7,233.79	85.67	86.04	-104.98	-892.77	-4,560.50	224.28	57.17	167.11	1.342 Level 3		
12,400.00	7,175.98	12,506.81	7,233.70	87.31	87.67	-104.91	-892.55	-4,660.50	224.32	53.97	170.35	1.317 Level 3		
12,500.00	7,176.15	12,593.19	7,233.61	88.95	89.08	-104.84	-892.33	-4,760.50	224.36	50.98	173.38	1.294 Level 3		
12,600.00	7,176.31	12,706.81	7,233.52	90.59	90.94	-104.77	-892.10	-4,860.50	224.40	47.55	176.85	1.269 Level 3		
12,700.00	7,176.48	12,806.81	7,233.43	92.23	92.58	-104.70	-891.88	-4,960.50	224.44	44.34	180.10	1.246 Level 2		
12,800.00	7,176.65	12,906.81	7,233.34	93.87	94.22	-104.63	-891.66	-5,060.50	224.48	41.12	183.36	1.224 Level 2		
12,900.00	7,176.81	13,006.81	7,233.25	95.51	95.86	-104.56	-891.44	-5,160.50	224.52	37.90	186.62	1.203 Level 2		
13,000.00	7,176.98	13,106.81	7,233.16	97.15	97.50	-104.49	-891.21	-5,260.50	224.56	34.68	189.88	1.183 Level 2		
13,100.00	7,177.15	13,206.81	7,233.07	98.80	99.14	-104.42	-890.99	-5,360.50	224.60	31.45	193.15	1.163 Level 2		
13,200.00	7,177.31	13,306.81	7,232.98	100.44	100.78	-104.35	-890.77	-5,460.50	224.64	28.23	196.42	1.144 Level 2		
13,300.00	7,177.48	13,406.81	7,232.89	102.09	102.43	-104.28	-890.55	-5,560.50	224.68	24.99	199.69	1.125 Level 2		
13,400.00	7,177.65	13,493.19	7,232.80	103.74	103.85	-104.21	-890.33	-5,660.49	224.72	21.98	202.74	1.108 Level 2		
13,500.00	7,177.81	13,606.81	7,232.71	105.38	105.72	-104.14	-890.10	-5,760.49	224.77	18.53	206.24	1.090 Level 2		
13,600.00	7,177.98	13,706.81	7,232.62	107.03	107.37	-104.07	-889.88	-5,860.49	224.81	15.29	209.52	1.073 Level 2		
13,700.00	7,178.15	13,806.81	7,232.53	108.68	109.01	-104.00	-889.66	-5,960.49	224.85	12.05	212.80	1.057 Level 2		
13,800.00	7,178.31	13,906.81	7,232.44	110.33	110.66	-103.93	-889.44	-6,060.49	224.90	8.81	216.09	1.041 Level 2		
13,900.00	7,178.48	14,006.81	7,232.35	111.98	112.31	-103.86	-889.21	-6,160.49	224.94	5.56	219.38	1.025 Level 2		
14,000.00	7,178.65	14,093.19	7,232.26	113.63	113.73	-103.79	-888.99	-6,260.49	224.98	2.54	222.44	1.011 Level 2		
14,100.00	7,178.81	14,206.81	7,232.18	115.29	115.61	-103.72	-888.77	-6,360.49	225.03	-0.93	225.96	0.996 Level 1		
14,200.00	7,178.98	14,306.81	7,232.09	116.94	117.26	-103.65	-888.55	-6,460.49	225.07	-4.18	229.25	0.982 Level 1		
14,300.00	7,179.15	14,406.81	7,232.00	118.59	118.91	-103.58	-888.33	-6,560.49	225.12	-7.43	232.55	0.968 Level 1		
14,400.00	7,179.31	14,506.82	7,231.91	120.24	120.56	-103.51	-888.10	-6,660.49	225.16	-10.68	235.85	0.955 Level 1		
14,500.00	7,179.48	14,606.82	7,231.82	121.90	122.22	-103.44	-887.88	-6,760.49	225.21	-13.94	239.15	0.942 Level 1		
14,600.00	7,179.65	14,706.82	7,231.73	123.55	123.87	-103.37	-887.66	-6,860.49	225.26	-17.19	242.45	0.929 Level 1		
14,700.00	7,179.82	14,806.82	7,231.64	125.21	125.52	-103.30	-887.44	-6,960.49	225.30	-20.45	245.75	0.917 Level 1		
14,800.00	7,179.98	14,906.82	7,231.55	126.86	127.18	-103.23	-887.21	-7,060.48	225.35	-23.71	249.06	0.905 Level 1		
14,900.00	7,180.15	15,006.82	7,231.46	128.52	128.83	-103.16	-886.99	-7,160.48	225.40	-26.97	252.37	0.893 Level 1		
15,000.00	7,180.32	15,106.82	7,231.37	130.17	130.48	-103.09	-886.77	-7,260.48	225.44	-30.23	255.68	0.882 Level 1		
15,100.00	7,180.48	15,206.82	7,231.28	131.83	132.14	-103.02	-886.55	-7,360.48	225.49	-33.50	258.99	0.871 Level 1		
15,200.00	7,180.65	15,293.18	7,231.19	133.49	133.57	-102.95	-886.33	-7,460.48	225.54	-36.54	262.08	0.861 Level 1		
15,300.00	7,180.82	15,393.18	7,231.10	135.15	135.23	-102.88	-886.10	-7,560.48	225.59	-39.81	265.40	0.850 Level 1		
15,400.00	7,180.98	15,493.18	7,231.01	136.80	136.88	-102.81	-885.88	-7,660.48	225.64	-43.08	268.71	0.840 Level 1		
15,410.68	7,181.00	15,503.87	7,231.00	136.98	137.06	-102.80	-885.86	-7,671.16	225.64	-43.42	269.07	0.839 Level 1, ES, SF		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1											Offset Site Error:		0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance							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	CC, ES	
300.00	299.98	299.86	299.84	3.35	3.34	132.63	-22.50	-150.02	152.88	145.23	7.65	19.975		
400.00	399.84	398.58	398.42	3.41	3.40	132.11	-27.62	-150.41	157.55	149.77	7.77	20.274		
500.00	499.45	497.00	496.46	3.49	3.49	131.33	-36.10	-151.05	165.32	157.38	7.94	20.822		
600.00	598.70	604.53	594.25	3.61	3.60	130.40	-47.74	-151.92	176.17	167.99	8.18	21.540		
700.00	697.51	694.61	692.59	3.76	3.73	130.13	-60.18	-152.86	189.30	180.84	8.46	22.388		
800.00	796.21	806.32	790.88	3.95	3.92	130.16	-72.62	-153.79	202.85	194.04	8.81	23.022		
900.00	894.91	907.24	889.17	4.16	4.11	130.18	-85.05	-154.73	216.41	207.22	9.20	23.535		
1,000.00	993.61	1,008.16	987.46	4.40	4.33	130.20	-97.48	-155.66	229.97	220.35	9.62	23.908		
1,100.00	1,092.32	1,109.09	1,085.74	4.66	4.55	130.22	-109.92	-156.60	243.52	233.45	10.08	24.169		
1,200.00	1,191.02	1,189.99	1,184.03	4.93	4.75	130.23	-122.35	-157.53	257.08	246.57	10.51	24.453		
1,300.00	1,289.72	1,289.07	1,282.32	5.21	4.99	130.24	-134.79	-158.47	270.64	259.62	11.02	24.565		
1,400.00	1,388.42	1,388.14	1,380.61	5.51	5.25	130.26	-147.22	-159.40	284.20	272.65	11.54	24.623		
1,500.00	1,487.13	1,487.22	1,478.90	5.81	5.52	130.27	-159.65	-160.34	297.75	285.67	12.08	24.638		
1,600.00	1,585.83	1,586.30	1,577.19	6.13	5.79	130.28	-172.09	-161.27	311.31	298.67	12.64	24.622		
1,700.00	1,684.53	1,685.37	1,675.48	6.45	6.07	130.29	-184.52	-162.21	324.87	311.65	13.22	24.582		
1,800.00	1,783.23	1,784.45	1,773.77	6.78	6.36	130.29	-196.96	-163.14	338.43	324.63	13.80	24.525		
1,900.00	1,881.94	1,883.53	1,872.06	6.96	6.54	130.30	-209.39	-164.08	351.98	338.23	13.76	25.586		
2,000.00	1,980.64	1,982.60	1,970.34	6.99	6.59	130.31	-221.82	-165.01	365.54	351.70	13.84	26.420		
2,100.00	2,079.34	2,081.68	2,068.63	7.05	6.63	130.32	-234.26	-165.95	379.10	365.17	13.92	27.230		
2,200.00	2,178.04	2,180.76	2,166.92	7.12	6.69	130.32	-246.69	-166.88	392.65	378.61	14.04	27.968		
2,300.00	2,276.75	2,279.83	2,265.21	7.20	6.76	130.33	-259.13	-167.82	406.21	392.03	14.19	28.635		
2,400.00	2,375.45	2,378.91	2,363.50	7.30	6.84	130.33	-271.56	-168.75	419.77	405.41	14.36	29.229		
2,500.00	2,474.15	2,477.99	2,461.79	7.42	6.94	130.34	-283.99	-169.69	433.33	418.76	14.56	29.752		
2,600.00	2,572.85	2,577.06	2,560.08	7.54	7.05	130.34	-296.43	-170.62	446.88	432.09	14.79	30.207		
2,700.00	2,671.56	2,676.14	2,658.37	7.68	7.17	130.35	-308.86	-171.56	460.44	445.39	15.05	30.596		
2,800.00	2,770.26	2,775.22	2,756.66	7.84	7.31	130.35	-321.30	-172.49	474.00	458.67	15.33	30.925		
2,900.00	2,868.96	2,874.29	2,854.95	8.00	7.46	130.36	-333.73	-173.43	487.55	471.93	15.63	31.196		
3,000.00	2,967.66	2,973.37	2,953.23	8.18	7.61	130.36	-346.16	-174.36	501.11	485.16	15.95	31.415		
3,100.00	3,066.37	3,072.45	3,051.52	8.36	7.78	130.36	-358.60	-175.30	514.67	498.38	16.29	31.587		
3,200.00	3,165.07	3,171.52	3,149.81	8.56	7.96	130.37	-371.03	-176.23	528.23	511.57	16.65	31.716		
3,300.00	3,263.77	3,270.60	3,248.10	8.76	8.14	130.37	-383.47	-177.17	541.78	524.75	17.03	31.807		
3,400.00	3,362.47	3,369.68	3,346.39	8.97	8.33	130.37	-395.90	-178.10	555.34	537.91	17.43	31.865		
3,500.00	3,461.18	3,468.75	3,444.68	9.19	8.53	130.38	-408.33	-179.04	568.90	551.06	17.84	31.892		
3,600.00	3,559.88	3,567.83	3,542.97	9.42	8.74	130.38	-420.77	-179.97	582.46	564.19	18.26	31.894		
3,700.00	3,658.58	3,666.91	3,641.26	9.65	8.95	130.38	-433.20	-180.91	596.01	577.31	18.70	31.873		
3,800.00	3,757.28	3,765.98	3,739.55	9.89	9.17	130.39	-445.64	-181.84	609.57	590.42	19.15	31.833		
3,900.00	3,855.99	3,865.06	3,837.84	10.14	9.40	130.39	-458.07	-182.78	623.13	603.52	19.61	31.777		
4,000.00	3,954.69	3,964.14	3,936.12	10.39	9.63	130.39	-470.50	-183.71	636.68	616.60	20.08	31.706		
4,100.00	4,053.39	4,063.21	4,034.41	10.65	9.86	130.39	-482.94	-184.65	650.24	629.68	20.56	31.624		
4,200.00	4,152.09	4,162.29	4,132.70	10.91	10.10	130.39	-495.37	-185.58	663.80	642.75	21.05	31.531		
4,300.00	4,250.79	4,261.37	4,230.99	11.17	10.35	130.40	-507.81	-186.52	677.36	655.81	21.55	31.431		
4,400.00	4,349.50	4,360.44	4,329.28	11.44	10.59	130.40	-520.24	-187.45	690.91	668.86	22.06	31.324		
4,500.00	4,448.20	4,459.52	4,427.57	11.71	10.84	130.40	-532.67	-188.39	704.47	681.90	22.57	31.211		
4,600.00	4,546.90	4,558.60	4,525.86	11.99	11.10	130.40	-545.11	-189.32	718.03	694.94	23.09	31.094		
4,700.00	4,645.60	4,657.67	4,624.15	12.27	11.36	130.40	-557.54	-190.26	731.59	707.97	23.62	30.974		
4,800.00	4,744.31	4,756.75	4,722.44	12.55	11.62	130.41	-569.98	-191.19	745.14	720.99	24.15	30.852		
4,900.00	4,843.01	4,855.83	4,820.73	12.84	11.88	130.41	-582.41	-192.13	758.70	734.01	24.69	30.728		
5,000.00	4,941.71	4,954.91	4,919.01	13.12	12.15	130.41	-594.84	-193.06	772.26	747.02	25.23	30.603		
5,100.00	5,040.41	5,053.98	5,017.30	13.41	12.41	130.41	-607.28	-194.00	785.81	760.03	25.78	30.478		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,139.12	5,153.06	5,115.59	13.71	12.69	130.41	-619.71	-194.93	799.37	773.04	26.34	30.352	
5,300.00	5,237.82	5,252.14	5,213.88	14.00	12.96	130.41	-632.15	-195.87	812.93	786.04	26.89	30.227	
5,400.00	5,336.52	5,351.21	5,312.17	14.30	13.23	130.41	-644.58	-196.80	826.49	799.03	27.46	30.103	
5,500.00	5,435.22	5,450.29	5,410.46	14.60	13.51	130.42	-657.01	-197.74	840.04	812.02	28.02	29.980	
5,600.00	5,533.93	5,549.37	5,508.75	14.90	13.79	130.42	-669.45	-198.67	853.60	825.01	28.59	29.857	
5,700.00	5,632.63	5,648.44	5,607.04	15.20	14.07	130.42	-681.88	-199.61	867.16	838.00	29.16	29.736	
5,800.00	5,731.33	5,747.52	5,705.33	15.50	14.35	130.42	-694.32	-200.54	880.72	850.98	29.74	29.617	
5,900.00	5,830.03	5,846.60	5,803.61	15.81	14.63	130.42	-706.75	-201.48	894.27	863.96	30.32	29.499	
6,000.00	5,928.74	5,945.67	5,901.90	16.11	14.92	130.42	-719.18	-202.41	907.83	876.93	30.90	29.383	
6,100.00	6,027.44	6,044.75	6,000.19	16.42	15.20	130.42	-731.62	-203.35	921.39	889.91	31.48	29.269	
6,200.00	6,126.14	6,143.83	6,098.48	16.73	15.49	130.42	-744.05	-204.28	934.94	902.88	32.07	29.157	
6,300.00	6,224.84	6,242.90	6,196.77	17.04	15.78	130.43	-756.49	-205.22	948.50	915.85	32.65	29.047	
6,400.00	6,323.55	6,341.98	6,295.06	17.35	16.07	130.43	-768.92	-206.15	962.06	928.81	33.25	28.938	
6,500.00	6,422.25	8,107.10	7,357.46	17.67	22.96	85.00	-878.57	759.47	970.07	940.85	29.22	33.200	
6,600.00	6,521.26	8,115.99	7,357.47	17.91	23.06	15.91	-878.35	768.36	872.09	842.51	29.58	29.485	
6,700.00	6,620.47	8,110.12	7,357.46	18.07	23.00	-86.22	-878.50	762.49	774.42	744.54	29.88	25.919	
6,800.00	6,717.57	8,088.72	7,357.43	18.18	22.77	-120.31	-879.03	741.10	679.53	649.41	30.12	22.561	
6,900.00	6,810.17	8,052.33	7,357.38	18.24	22.41	-133.26	-879.95	704.72	590.02	559.71	30.31	19.464	
7,000.00	6,895.98	8,001.84	7,357.31	18.27	21.91	-138.76	-881.22	654.24	508.38	477.91	30.47	16.684	
7,100.00	6,972.90	7,938.49	7,357.23	18.27	21.33	-140.63	-882.82	590.92	436.92	406.27	30.65	14.255	
7,200.00	7,039.03	7,863.85	7,357.12	18.25	20.71	-140.34	-884.70	516.30	377.60	346.74	30.86	12.235	
7,300.00	7,092.74	7,779.75	7,357.01	18.23	20.09	-138.69	-886.81	432.23	331.79	300.67	31.12	10.660	
7,400.00	7,132.71	7,635.78	7,341.80	18.23	19.33	-132.13	-888.52	289.39	292.22	259.99	32.23	9.067	
7,500.00	7,157.96	7,510.32	7,302.89	18.28	18.95	-123.54	-886.62	170.34	252.52	218.89	33.62	7.510	
7,600.00	7,167.85	7,401.28	7,250.84	18.46	18.72	-112.89	-882.48	74.76	217.70	182.77	34.94	6.231	
7,700.00	7,168.14	7,308.34	7,194.27	18.86	18.53	-97.67	-877.19	1.31	191.51	155.43	36.07	5.309	
7,781.87	7,168.28	7,246.70	7,151.16	19.37	18.41	-84.31	-872.86	-42.50	182.71	145.81	36.90	4.952	
7,800.00	7,168.31	7,234.58	7,142.20	19.49	18.39	-81.48	-871.94	-50.61	183.20	146.16	37.04	4.946 SF	
7,900.00	7,168.48	7,176.12	7,096.93	20.27	18.27	-67.66	-867.15	-87.25	204.21	166.56	37.65	5.424	
8,000.00	7,168.64	7,129.39	7,058.47	21.18	18.17	-57.20	-862.96	-113.44	252.26	214.32	37.94	6.649	
8,100.00	7,168.81	7,091.56	7,026.01	22.18	18.08	-49.61	-859.34	-132.52	317.96	279.88	38.08	8.351	
8,200.00	7,168.98	7,060.51	6,998.57	23.25	18.02	-44.09	-856.24	-146.71	394.04	355.89	38.15	10.329	
8,300.00	7,169.14	7,034.68	6,975.25	24.40	17.96	-39.99	-853.57	-157.48	476.41	438.22	38.20	12.472	
8,400.00	7,169.31	7,012.93	6,955.29	25.60	17.91	-36.86	-851.26	-165.81	562.83	524.60	38.23	14.722	
8,500.00	7,169.48	7,000.00	6,943.29	26.85	17.88	-35.14	-849.86	-170.42	652.06	613.80	38.26	17.044	
8,600.00	7,169.64	6,978.44	6,923.10	28.14	17.83	-32.48	-847.49	-177.58	743.16	704.89	38.27	19.419	
8,700.00	7,169.81	6,964.58	6,909.99	29.47	17.80	-30.91	-845.95	-181.81	835.78	797.49	38.28	21.831	
8,800.00	7,169.98	6,950.00	6,896.11	30.83	17.76	-29.35	-844.30	-185.96	929.52	891.22	38.30	24.271	
8,900.00	7,170.14	6,950.00	6,896.11	32.23	17.76	-29.35	-844.30	-185.96	1,024.21	985.91	38.30	26.742	
9,000.00	7,170.31	6,932.20	6,879.04	33.64	17.72	-27.57	-842.26	-190.58	1,119.44	1,081.12	38.32	29.213	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						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	-40.80	-149.61	155.08				
100.00	100.00	101.00	101.00	3.28	3.28	-105.26	-40.80	-149.61	155.08	147.55	7.53	20.598	
200.00	200.00	201.00	201.00	3.31	3.31	-105.26	-40.80	-149.61	155.08	147.50	7.57	20.475	CC, ES
300.00	299.98	299.23	299.21	3.35	3.34	125.34	-42.52	-149.72	156.66	149.00	7.65	20.470	
400.00	399.84	397.34	397.18	3.41	3.40	125.04	-47.58	-150.05	161.37	153.60	7.77	20.770	
500.00	499.45	495.15	494.63	3.49	3.48	124.59	-55.96	-150.58	169.21	161.27	7.94	21.319	
600.00	598.70	592.54	591.31	3.61	3.59	124.02	-67.60	-151.32	180.16	172.00	8.16	22.072	
700.00	697.51	709.71	687.95	3.76	3.77	123.47	-82.30	-152.26	193.98	185.49	8.49	22.861	
800.00	796.21	789.24	785.67	3.95	3.91	123.11	-97.77	-153.25	208.38	199.58	8.80	23.681	
900.00	894.91	888.19	883.40	4.16	4.11	122.80	-113.23	-154.23	222.78	213.59	9.19	24.231	
1,000.00	993.61	987.14	981.13	4.40	4.33	122.52	-128.69	-155.22	237.19	227.56	9.63	24.628	
1,100.00	1,092.32	1,086.09	1,078.86	4.66	4.58	122.28	-144.16	-156.21	251.61	241.50	10.10	24.901	
1,200.00	1,191.02	1,185.04	1,176.59	4.93	4.84	122.06	-159.62	-157.19	266.03	255.42	10.61	25.076	
1,300.00	1,289.72	1,283.99	1,274.32	5.21	5.11	121.87	-175.09	-158.18	280.45	269.31	11.14	25.176	
1,400.00	1,388.42	1,382.94	1,372.05	5.51	5.39	121.70	-190.55	-159.17	294.88	283.18	11.69	25.219	
1,500.00	1,487.13	1,481.89	1,469.78	5.81	5.68	121.54	-206.02	-160.15	309.31	297.04	12.27	25.218	
1,600.00	1,585.83	1,580.84	1,567.51	6.13	5.98	121.39	-221.48	-161.14	323.74	310.88	12.85	25.186	
1,700.00	1,684.53	1,679.79	1,665.24	6.45	6.29	121.26	-236.95	-162.13	338.17	324.71	13.46	25.130	
1,800.00	1,783.23	1,778.74	1,762.97	6.78	6.61	121.14	-252.41	-163.11	352.60	338.53	14.07	25.057	
1,900.00	1,881.94	1,877.69	1,860.70	6.96	6.81	121.03	-267.88	-164.10	367.04	352.98	14.06	26.109	
2,000.00	1,980.64	1,976.64	1,958.43	6.99	6.88	120.92	-283.34	-165.09	381.47	367.32	14.15	26.951	
2,100.00	2,079.34	2,075.59	2,056.15	7.05	6.93	120.83	-298.81	-166.07	395.91	381.66	14.25	27.784	
2,200.00	2,178.04	2,174.54	2,153.88	7.12	6.99	120.74	-314.27	-167.06	410.35	395.98	14.38	28.544	
2,300.00	2,276.75	2,273.49	2,251.61	7.20	7.07	120.65	-329.74	-168.05	424.79	410.26	14.53	29.229	
2,400.00	2,375.45	2,372.44	2,349.34	7.30	7.17	120.58	-345.20	-169.03	439.23	424.51	14.72	29.839	
2,500.00	2,474.15	2,471.39	2,447.07	7.42	7.28	120.50	-360.67	-170.02	453.67	438.74	14.94	30.376	
2,600.00	2,572.85	2,570.34	2,544.80	7.54	7.40	120.44	-376.13	-171.01	468.12	452.94	15.18	30.843	
2,700.00	2,671.56	2,669.29	2,642.53	7.68	7.54	120.37	-391.60	-171.99	482.56	467.11	15.45	31.243	
2,800.00	2,770.26	2,768.24	2,740.26	7.84	7.68	120.31	-407.06	-172.98	497.00	481.26	15.74	31.580	
2,900.00	2,868.96	2,867.19	2,837.99	8.00	7.84	120.25	-422.53	-173.97	511.44	495.39	16.05	31.859	
3,000.00	2,967.66	2,966.14	2,935.72	8.18	8.01	120.20	-437.99	-174.95	525.89	509.50	16.39	32.085	
3,100.00	3,066.37	3,065.09	3,033.45	8.36	8.20	120.15	-453.46	-175.94	540.33	523.59	16.75	32.262	
3,200.00	3,165.07	3,164.04	3,131.18	8.56	8.39	120.10	-468.92	-176.93	554.78	537.65	17.12	32.396	
3,300.00	3,263.77	3,263.00	3,228.91	8.76	8.59	120.05	-484.39	-177.91	569.22	551.70	17.52	32.491	
3,400.00	3,362.47	3,361.95	3,326.63	8.97	8.79	120.01	-499.85	-178.90	583.67	565.74	17.93	32.552	
3,500.00	3,461.18	3,460.90	3,424.36	9.19	9.01	119.97	-515.32	-179.89	598.12	579.76	18.36	32.583	
3,600.00	3,559.88	3,559.85	3,522.09	9.42	9.23	119.93	-530.78	-180.87	612.56	593.76	18.80	32.588	
3,700.00	3,658.58	3,658.80	3,619.82	9.65	9.46	119.89	-546.25	-181.86	627.01	607.76	19.25	32.570	
3,800.00	3,757.28	3,757.75	3,717.55	9.89	9.70	119.86	-561.71	-182.85	641.46	621.74	19.72	32.532	
3,900.00	3,855.99	3,856.70	3,815.28	10.14	9.94	119.82	-577.18	-183.83	655.90	635.71	20.20	32.477	
4,000.00	3,954.69	3,955.65	3,913.01	10.39	10.19	119.79	-592.64	-184.82	670.35	649.67	20.68	32.409	
4,100.00	4,053.39	4,054.60	4,010.74	10.65	10.44	119.76	-608.10	-185.81	684.80	663.61	21.18	32.328	
4,200.00	4,152.09	4,153.55	4,108.47	10.91	10.70	119.73	-623.57	-186.79	699.24	677.55	21.69	32.238	
4,300.00	4,250.79	4,252.50	4,206.20	11.17	10.96	119.70	-639.03	-187.78	713.69	691.49	22.21	32.139	
4,400.00	4,349.50	4,351.45	4,303.93	11.44	11.22	119.67	-654.50	-188.77	728.14	705.41	22.73	32.033	
4,500.00	4,448.20	4,450.40	4,401.66	11.71	11.49	119.64	-669.96	-189.75	742.59	719.33	23.26	31.922	
4,600.00	4,546.90	4,549.35	4,499.38	11.99	11.76	119.62	-685.43	-190.74	757.04	733.24	23.80	31.807	
4,700.00	4,645.60	4,648.30	4,597.11	12.27	12.04	119.59	-700.89	-191.73	771.49	747.14	24.35	31.688	
4,800.00	4,744.31	4,747.25	4,694.84	12.55	12.32	119.57	-716.36	-192.71	785.93	761.04	24.90	31.567	
4,900.00	4,843.01	4,846.20	4,792.57	12.84	12.60	119.55	-731.82	-193.70	800.38	774.93	25.45	31.444	
5,000.00	4,941.71	4,945.15	4,890.30	13.12	12.88	119.52	-747.29	-194.69	814.83	788.82	26.02	31.320	
5,100.00	5,040.41	5,044.10	4,988.03	13.41	13.17	119.50	-762.75	-195.67	829.28	802.70	26.58	31.196	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1										Offset Site Error:		0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA										Offset Well Error:		3.28 usft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
5,200.00	5,139.12	5,143.05	5,085.76	13.71	13.46	119.48	-778.22	-196.66	843.73	816.58	27.15	31.072	
5,300.00	5,237.82	5,242.00	5,183.49	14.00	13.75	119.46	-793.68	-197.65	858.18	830.45	27.73	30.947	
5,400.00	5,336.52	5,340.95	5,281.22	14.30	14.04	119.44	-809.15	-198.63	872.63	844.32	28.31	30.824	
5,500.00	5,435.22	5,439.90	5,378.95	14.60	14.34	119.42	-824.61	-199.62	887.08	858.18	28.89	30.701	
5,600.00	5,533.93	5,538.85	5,476.68	14.90	14.63	119.40	-840.08	-200.61	901.53	872.05	29.48	30.580	
5,700.00	5,632.63	5,637.80	5,574.41	15.20	14.93	119.39	-855.54	-201.59	915.98	885.91	30.07	30.460	
5,800.00	5,731.33	5,736.75	5,672.14	15.50	15.23	119.37	-871.01	-202.58	930.43	899.76	30.67	30.341	
5,900.00	5,830.03	5,835.70	5,769.86	15.81	15.53	119.35	-886.47	-203.57	944.88	913.61	31.26	30.224	
6,000.00	5,928.74	5,934.65	5,867.59	16.11	15.84	119.34	-901.94	-204.55	959.33	927.46	31.86	30.109	
6,100.00	6,027.44	6,033.60	5,965.32	16.42	16.14	119.32	-917.40	-205.54	973.78	941.31	32.46	29.995	
6,200.00	6,126.14	6,132.55	6,063.05	16.73	16.44	119.31	-932.87	-206.52	988.23	955.16	33.07	29.884	
6,300.00	6,224.84	6,231.50	6,160.78	17.04	16.75	119.29	-948.33	-207.51	1,002.68	969.00	33.68	29.774	
6,400.00	6,323.55	7,920.86	7,159.78	17.35	23.27	65.45	-1,103.21	741.09	971.46	941.52	29.93	32.455	
6,500.00	6,422.25	7,933.50	7,159.81	17.67	23.40	63.80	-1,103.18	753.73	982.39	951.71	30.68	28.762	
6,600.00	6,521.26	7,942.74	7,159.83	17.91	23.49	13.52	-1,103.15	762.97	995.47	963.93	31.54	25.221	
6,700.00	6,620.47	7,937.20	7,159.82	18.07	23.44	-64.02	-1,103.17	757.44	711.72	679.27	32.45	21.934	
6,800.00	6,717.57	7,916.13	7,159.76	18.18	23.22	-89.60	-1,103.23	736.36	634.29	600.89	33.40	18.993	
6,900.00	6,810.17	7,880.05	7,159.67	18.24	22.87	-99.61	-1,103.33	700.28	566.36	532.00	34.36	16.482	
7,000.00	6,895.98	7,829.83	7,159.55	18.27	22.40	-103.13	-1,103.48	650.06	510.63	475.37	35.27	14.480	
7,100.00	6,972.90	7,766.73	7,159.39	18.27	21.85	-102.88	-1,103.67	586.96	468.73	432.74	35.99	13.022	
7,200.00	7,039.03	7,707.72	7,159.20	18.25	21.38	-100.30	-1,103.89	512.52	440.59	404.02	36.57	12.049	
7,300.00	7,092.74	7,609.48	7,158.96	18.23	20.72	-96.61	-1,104.12	429.71	424.24	387.62	36.61	11.587	
7,400.00	7,132.71	7,503.54	7,150.93	18.23	20.18	-91.11	-1,103.21	324.20	415.01	378.31	36.70	11.308	
7,500.00	7,157.96	7,406.39	7,128.47	18.28	19.83	-85.42	-1,099.97	229.84	410.24	373.50	36.74	11.167	
7,553.64	7,165.20	7,357.20	7,111.75	18.36	19.70	-82.33	-1,097.48	183.66	409.59	372.82	36.77	11.140 SF	
7,600.00	7,167.85	7,316.08	7,095.10	18.46	19.59	-79.66	-1,094.97	146.14	410.06	373.27	36.79	11.146	
7,700.00	7,168.14	7,233.91	7,054.87	18.86	19.40	-73.96	-1,088.84	74.84	415.08	378.10	36.97	11.226	
7,800.00	7,168.31	7,163.65	7,013.50	19.49	19.25	-68.30	-1,082.48	18.44	428.59	391.25	37.34	11.478	
7,900.00	7,168.48	7,104.26	6,973.93	20.27	19.12	-63.12	-1,076.37	-25.39	452.91	415.06	37.85	11.967	
8,000.00	7,168.64	7,054.24	6,937.59	21.18	19.01	-58.61	-1,070.73	-59.29	488.71	450.28	38.43	12.718	
8,100.00	7,168.81	7,012.01	6,904.95	22.18	18.91	-54.80	-1,065.66	-85.58	535.32	496.34	38.99	13.730	
8,200.00	7,168.98	6,976.19	6,875.96	23.25	18.83	-51.61	-1,061.14	-106.12	591.32	551.83	39.49	14.974	
8,300.00	7,169.14	6,950.00	6,854.07	24.40	18.77	-49.32	-1,057.72	-120.08	655.08	615.15	39.93	16.406	
8,400.00	7,169.31	6,919.28	6,827.70	25.60	18.70	-46.72	-1,053.60	-135.28	725.01	684.78	40.23	18.023	
8,500.00	7,169.48	6,900.00	6,810.79	26.85	18.65	-45.13	-1,050.96	-144.15	799.93	759.43	40.49	19.755	
8,600.00	7,169.64	6,876.58	6,789.90	28.14	18.59	-43.25	-1,047.68	-154.23	878.75	838.08	40.67	21.606	
8,700.00	7,169.81	6,850.00	6,765.77	29.47	18.53	-41.19	-1,043.90	-164.71	960.83	920.03	40.79	23.553	
8,800.00	7,169.98	6,850.00	6,765.77	30.83	18.53	-41.19	-1,043.90	-164.71	1,045.28	1,004.34	40.94	25.531	
8,900.00	7,170.14	6,829.87	6,747.22	32.23	18.48	-39.68	-1,040.99	-171.96	1,131.80	1,090.78	41.02	27.594	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-112.13	-60.84	-149.61	161.51					
100.00	100.00	101.00	101.00	3.28	3.28	-112.13	-60.84	-149.61	161.51	153.98	7.53	21.452		
200.00	200.00	201.00	201.00	3.31	3.31	-112.13	-60.84	-149.61	161.51	153.94	7.57	21.324	CC, ES	
300.00	299.98	298.61	298.59	3.35	3.34	118.53	-62.53	-149.71	163.09	155.43	7.65	21.311		
400.00	399.84	396.09	395.94	3.41	3.40	118.43	-67.54	-149.98	167.78	160.01	7.77	21.599		
500.00	499.45	493.30	492.79	3.49	3.48	118.28	-75.82	-150.43	175.58	167.64	7.93	22.131		
600.00	598.70	590.10	588.89	3.61	3.59	118.08	-87.32	-151.05	186.46	178.30	8.16	22.860		
700.00	697.51	686.36	684.03	3.76	3.73	117.88	-101.96	-151.84	200.29	191.84	8.44	23.719		
800.00	796.21	783.65	779.70	3.95	3.91	117.29	-119.59	-152.80	215.68	206.89	8.79	24.534		
900.00	894.91	882.40	876.73	4.16	4.12	116.68	-137.90	-153.79	231.29	222.09	9.20	25.148		
1,000.00	993.61	981.15	973.76	4.40	4.36	116.15	-156.21	-154.78	246.91	237.26	9.65	25.592		
1,100.00	1,092.32	1,079.90	1,070.79	4.66	4.63	115.68	-174.52	-155.77	262.56	252.42	10.14	25.898		
1,200.00	1,191.02	1,178.64	1,167.82	4.93	4.91	115.26	-192.82	-156.76	278.22	267.56	10.66	26.096		
1,300.00	1,289.72	1,277.39	1,264.85	5.21	5.20	114.89	-211.13	-157.75	293.89	282.68	11.21	26.211		
1,400.00	1,388.42	1,376.14	1,361.88	5.51	5.51	114.55	-229.44	-158.75	309.57	297.79	11.79	26.266		
1,500.00	1,487.13	1,474.88	1,458.91	5.81	5.83	114.25	-247.75	-159.74	325.27	312.89	12.38	26.272		
1,600.00	1,585.83	1,573.63	1,555.94	6.13	6.16	113.98	-266.05	-160.73	340.97	327.98	12.99	26.244		
1,700.00	1,684.53	1,672.38	1,652.98	6.45	6.49	113.72	-284.36	-161.72	356.68	343.06	13.62	26.192		
1,800.00	1,783.23	1,771.12	1,750.01	6.78	6.84	113.49	-302.67	-162.71	372.39	358.14	14.26	26.122		
1,900.00	1,881.94	1,869.87	1,847.04	6.96	7.07	113.28	-320.97	-163.70	388.11	373.84	14.27	27.200		
2,000.00	1,980.64	1,968.62	1,944.07	6.99	7.16	113.09	-339.28	-164.70	403.84	389.45	14.38	28.077		
2,100.00	2,079.34	2,067.37	2,041.10	7.05	7.22	112.91	-357.59	-165.69	419.57	405.08	14.48	28.970		
2,200.00	2,178.04	2,166.11	2,138.13	7.12	7.29	112.74	-375.90	-166.68	435.30	420.68	14.61	29.785		
2,300.00	2,276.75	2,264.86	2,235.16	7.20	7.38	112.59	-394.20	-167.67	451.03	436.26	14.78	30.520		
2,400.00	2,375.45	2,363.61	2,332.19	7.30	7.48	112.44	-412.51	-168.66	466.77	451.80	14.97	31.176		
2,500.00	2,474.15	2,462.35	2,429.22	7.42	7.61	112.31	-430.82	-169.65	482.52	467.32	15.20	31.755		
2,600.00	2,572.85	2,561.10	2,526.25	7.54	7.74	112.18	-449.12	-170.65	498.26	482.81	15.45	32.258		
2,700.00	2,671.56	2,659.85	2,623.28	7.68	7.89	112.06	-467.43	-171.64	514.01	498.28	15.72	32.691		
2,800.00	2,770.26	2,758.59	2,720.31	7.84	8.05	111.95	-485.74	-172.63	529.75	513.73	16.03	33.057		
2,900.00	2,868.96	2,857.34	2,817.34	8.00	8.22	111.84	-504.05	-173.62	545.50	529.15	16.35	33.361		
3,000.00	2,967.66	2,956.09	2,914.37	8.18	8.41	111.74	-522.35	-174.61	561.26	544.56	16.70	33.609		
3,100.00	3,066.37	3,054.84	3,011.40	8.36	8.61	111.65	-540.66	-175.60	577.01	559.94	17.07	33.805		
3,200.00	3,165.07	3,153.58	3,108.43	8.56	8.81	111.56	-558.97	-176.59	592.77	575.31	17.46	33.956		
3,300.00	3,263.77	3,252.33	3,205.46	8.76	9.03	111.48	-577.27	-177.59	608.52	590.66	17.86	34.066		
3,400.00	3,362.47	3,351.08	3,302.49	8.97	9.25	111.40	-595.58	-178.58	624.28	605.99	18.29	34.139		
3,500.00	3,461.18	3,449.82	3,399.52	9.19	9.48	111.32	-613.89	-179.57	640.04	621.31	18.73	34.180		
3,600.00	3,559.88	3,548.57	3,496.55	9.42	9.72	111.25	-632.20	-180.56	655.80	636.62	19.18	34.194		
3,700.00	3,658.58	3,647.32	3,593.58	9.65	9.97	111.18	-650.50	-181.55	671.56	651.91	19.65	34.184		
3,800.00	3,757.28	3,746.07	3,690.61	9.89	10.22	111.11	-668.81	-182.54	687.32	667.19	20.13	34.152		
3,900.00	3,855.99	3,844.81	3,787.64	10.14	10.48	111.05	-687.12	-183.54	703.08	682.47	20.62	34.103		
4,000.00	3,954.69	3,943.56	3,884.67	10.39	10.75	110.99	-705.42	-184.53	718.85	697.73	21.12	34.039		
4,100.00	4,053.39	4,042.31	3,981.70	10.65	11.02	110.93	-723.73	-185.52	734.61	712.98	21.63	33.962		
4,200.00	4,152.09	4,141.05	4,078.73	10.91	11.29	110.87	-742.04	-186.51	750.37	728.22	22.15	33.875		
4,300.00	4,250.79	4,239.80	4,175.76	11.17	11.57	110.82	-760.35	-187.50	766.14	743.46	22.68	33.778		
4,400.00	4,349.50	4,338.55	4,272.79	11.44	11.86	110.77	-778.65	-188.49	781.91	758.69	23.22	33.675		
4,500.00	4,448.20	4,437.29	4,369.82	11.71	12.14	110.72	-796.96	-189.49	797.67	773.91	23.77	33.565		
4,600.00	4,546.90	4,536.04	4,466.85	11.99	12.43	110.68	-815.27	-190.48	813.44	789.12	24.32	33.451		
4,700.00	4,645.60	4,634.79	4,563.88	12.27	12.73	110.63	-833.58	-191.47	829.21	804.33	24.88	33.333		
4,800.00	4,744.31	4,733.54	4,660.91	12.55	13.02	110.59	-851.88	-192.46	844.98	819.53	25.44	33.212		
4,900.00	4,843.01	4,832.28	4,757.94	12.84	13.32	110.54	-870.19	-193.45	860.74	834.73	26.01	33.089		
5,000.00	4,941.71	4,931.03	4,854.97	13.12	13.63	110.50	-888.50	-194.44	876.51	849.92	26.59	32.965		
5,100.00	5,040.41	5,029.78	4,952.00	13.41	13.93	110.47	-906.80	-195.44	892.28	865.11	27.17	32.841		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-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	5,139.12	5,128.52	5,049.03	13.71	14.24	110.43	-925.11	-196.43	908.05	880.30	27.76	32.716		
5,300.00	5,237.82	5,227.27	5,146.06	14.00	14.55	110.39	-943.42	-197.42	923.82	895.48	28.35	32.591		
5,400.00	5,336.52	5,326.02	5,243.09	14.30	14.86	110.36	-961.73	-198.41	939.59	910.65	28.94	32.467		
5,500.00	5,435.22	5,424.76	5,340.12	14.60	15.18	110.32	-980.03	-199.40	955.36	925.83	29.54	32.343		
5,600.00	5,533.93	5,523.51	5,437.15	14.90	15.49	110.29	-998.34	-200.39	971.13	940.99	30.14	32.221		
5,700.00	5,632.63	5,622.26	5,534.18	15.20	15.81	110.26	-1,016.65	-201.38	986.91	956.16	30.74	32.100		
5,800.00	5,731.33	5,721.01	5,631.21	15.50	16.13	110.23	-1,034.95	-202.38	1,002.68	971.32	31.35	31.980		
5,900.00	5,830.03	5,819.75	5,728.24	15.81	16.45	110.20	-1,053.26	-203.37	1,018.45	986.49	31.96	31.862		
6,000.00	5,928.74	5,918.50	5,825.27	16.11	16.77	110.17	-1,071.57	-204.36	1,034.22	1,001.64	32.58	31.746		
6,100.00	6,027.44	6,017.25	5,922.30	16.42	17.09	110.14	-1,089.88	-205.35	1,049.99	1,016.80	33.20	31.631		
6,200.00	6,126.14	6,115.99	6,019.33	16.73	17.42	110.11	-1,108.18	-206.34	1,065.77	1,031.95	33.81	31.518		
6,300.00	6,224.84	6,214.74	6,116.36	17.04	17.74	110.09	-1,126.49	-207.33	1,081.54	1,047.10	34.44	31.407		
6,400.00	6,323.55	6,313.49	6,213.39	17.35	18.07	110.06	-1,144.80	-208.33	1,097.31	1,062.25	35.06	31.298		
6,500.00	6,422.25	6,412.12	6,310.33	17.67	18.39	110.03	-1,163.11	-209.32	1,113.08	1,077.38	35.68	31.189		
6,600.00	6,521.26	6,511.24	6,407.36	17.99	18.71	110.00	-1,181.42	-210.31	1,128.95	1,092.45	36.30	31.080		
6,700.00	6,620.47	6,610.48	6,504.37	18.31	19.03	109.97	-1,200.00	-211.30	1,144.82	1,107.52	36.92	30.971		
6,800.00	6,719.68	6,709.69	6,601.38	18.63	19.35	109.94	-1,218.69	-212.29	1,160.69	1,122.59	37.54	30.862		
6,900.00	6,818.89	6,808.90	6,698.39	18.95	19.67	109.91	-1,237.38	-213.28	1,176.56	1,137.66	38.16	30.753		
7,000.00	6,918.10	6,908.11	6,795.40	19.27	19.99	109.88	-1,256.07	-214.27	1,192.43	1,152.73	38.78	30.644		
7,100.00	7,017.31	7,007.32	6,892.41	19.59	20.31	109.85	-1,274.76	-215.26	1,208.30	1,167.80	39.40	30.535		
7,200.00	7,116.52	7,106.53	6,989.42	19.91	20.63	109.82	-1,293.45	-216.25	1,224.17	1,182.87	40.02	30.426		
7,300.00	7,215.73	7,205.74	7,086.43	20.23	20.95	109.79	-1,312.14	-217.24	1,240.04	1,197.94	40.64	30.317		
7,400.00	7,314.94	7,304.95	7,183.44	20.55	21.27	109.76	-1,330.83	-218.23	1,255.91	1,213.01	41.26	30.208		
7,500.00	7,414.15	7,404.16	7,280.45	20.87	21.59	109.73	-1,349.52	-219.22	1,271.78	1,228.08	41.88	30.099		
7,600.00	7,513.36	7,503.37	7,377.46	21.19	21.91	109.70	-1,368.21	-220.21	1,287.65	1,243.15	42.50	29.990		
7,700.00	7,612.57	7,602.58	7,474.47	21.51	22.23	109.67	-1,386.90	-221.20	1,303.52	1,258.22	43.12	29.881		
7,800.00	7,711.78	7,701.79	7,571.48	21.83	22.55	109.64	-1,405.59	-222.19	1,319.39	1,273.29	43.74	29.772		
7,900.00	7,810.99	7,800.99	7,668.49	22.15	22.87	109.61	-1,424.28	-223.18	1,335.26	1,288.36	44.36	29.663		
8,000.00	7,910.20	7,900.20	7,765.50	22.47	23.19	109.58	-1,442.97	-224.17	1,351.13	1,303.43	44.98	29.554		
8,100.00	8,009.41	8,000.00	7,862.51	22.79	23.51	109.55	-1,461.66	-225.16	1,367.00	1,318.50	45.60	29.445		
8,200.00	8,108.62	8,100.00	7,959.52	23.11	23.83	109.52	-1,480.35	-226.15	1,382.87	1,333.57	46.22	29.336		
8,300.00	8,207.83	8,200.00	8,056.53	23.43	24.15	109.49	-1,500.00	-227.14	1,398.74	1,348.64	46.84	29.227		
8,400.00	8,307.04	8,300.00	8,153.54	23.75	24.47	109.46	-1,519.65	-228.13	1,414.61	1,363.71	47.46	29.118		
8,500.00	8,406.25	8,400.00	8,250.55	24.07	24.79	109.43	-1,539.30	-229.12	1,430.48	1,378.78	48.08	29.009		
8,600.00	8,505.46	8,500.00	8,347.56	24.39	25.11	109.40	-1,558.95	-230.11	1,446.35	1,393.85	48.70	28.900		
8,700.00	8,604.67	8,600.00	8,444.57	24.71	25.43	109.37	-1,578.60	-231.10	1,462.22	1,408.92	49.32	28.791		
8,800.00	8,703.88	8,700.00	8,541.58	25.03	25.75	109.34	-1,598.25	-232.09	1,478.09	1,423.99	49.94	28.682		
8,900.00	8,803.09	8,800.00	8,638.59	25.35	26.07	109.31	-1,617.90	-233.08	1,493.96	1,439.06	50.56	28.573		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 1 - XOG PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2° CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,300.00	7,174.15	7,236.15	7,236.15	69.40	254.64	89.89	86.37	-4,435.74	1,163.36	858.31	305.05	3.814	
11,400.00	7,174.31	7,236.31	7,236.31	71.02	254.65	89.90	86.37	-4,435.74	1,089.84	781.03	308.81	3.529	
11,500.00	7,174.48	7,236.48	7,236.48	72.64	254.66	89.92	86.37	-4,435.74	1,020.83	707.91	312.92	3.262	
11,600.00	7,174.65	7,236.65	7,236.65	74.26	254.66	89.93	86.37	-4,435.74	957.30	639.98	317.32	3.017	
11,700.00	7,174.81	7,236.81	7,236.81	75.89	254.67	89.94	86.37	-4,435.74	900.43	578.50	321.93	2.797	
11,800.00	7,174.98	7,236.98	7,236.98	77.51	254.67	89.95	86.37	-4,435.74	851.53	524.98	326.55	2.608	
11,900.00	7,175.15	7,237.15	7,237.15	79.14	254.68	89.97	86.37	-4,435.74	812.07	481.14	330.93	2.454	
12,000.00	7,175.31	7,237.31	7,237.31	80.77	254.68	89.98	86.37	-4,435.74	783.45	448.74	334.71	2.341	
12,100.00	7,175.48	7,237.48	7,237.48	82.40	254.69	89.99	86.37	-4,435.74	766.90	429.36	337.53	2.272	
12,178.30	7,175.61	7,237.61	7,237.61	83.68	254.70	90.00	86.37	-4,435.74	762.89	424.00	338.90	2.251 CC, ES	
12,200.00	7,175.65	7,237.65	7,237.65	84.04	254.70	90.00	86.37	-4,435.74	763.20	424.07	339.13	2.250 SF	
12,300.00	7,175.81	7,237.81	7,237.81	85.67	254.70	90.02	86.37	-4,435.74	772.54	433.17	339.37	2.276	
12,400.00	7,175.98	7,237.98	7,237.98	87.31	254.71	90.03	86.37	-4,435.74	794.45	456.12	338.34	2.348	
12,500.00	7,176.15	7,238.15	7,238.15	88.95	254.71	90.04	86.37	-4,435.74	827.95	491.67	336.28	2.462	
12,600.00	7,176.31	7,238.31	7,238.31	90.59	254.72	90.05	86.37	-4,435.74	871.69	538.17	333.52	2.614	
12,700.00	7,176.48	7,238.48	7,238.48	92.23	254.73	90.07	86.37	-4,435.74	924.22	593.86	330.36	2.798	
12,800.00	7,176.65	7,238.65	7,238.65	93.87	254.73	90.08	86.37	-4,435.74	984.13	657.09	327.05	3.009	
12,900.00	7,176.81	7,238.81	7,238.81	95.51	254.74	90.09	86.37	-4,435.74	1,050.17	726.41	323.77	3.244	
13,000.00	7,176.98	7,238.98	7,238.98	97.15	254.74	90.10	86.37	-4,435.74	1,121.25	800.63	320.62	3.497	
13,100.00	7,177.15	7,239.15	7,239.15	98.80	254.75	90.12	86.37	-4,435.74	1,196.47	878.79	317.68	3.766	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-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	
9,700.00	7,171.48	7,201.48	7,201.48	44.05	253.42	-89.82	-1,226.76	-2,994.65	1,168.06	890.05	278.01	4.201	
9,800.00	7,171.64	7,201.64	7,201.64	45.59	253.42	-89.84	-1,226.76	-2,994.65	1,080.64	800.92	279.72	3.863	
9,900.00	7,171.81	7,201.81	7,201.81	47.14	253.43	-89.85	-1,226.76	-2,994.65	995.60	713.77	281.82	3.533	
10,000.00	7,171.98	7,201.98	7,201.98	48.69	253.43	-89.87	-1,226.76	-2,994.65	913.58	629.19	284.39	3.212	
10,100.00	7,172.14	7,202.14	7,202.14	50.26	253.44	-89.89	-1,226.76	-2,994.65	835.50	547.99	287.51	2.906	
10,200.00	7,172.31	7,202.31	7,202.31	51.83	253.44	-89.91	-1,226.76	-2,994.65	762.55	471.33	291.22	2.618	
10,300.00	7,172.48	7,202.48	7,202.48	53.40	253.45	-89.92	-1,226.76	-2,994.65	696.36	400.82	295.54	2.356	
10,400.00	7,172.64	7,202.64	7,202.64	54.98	253.46	-89.94	-1,226.76	-2,994.65	639.02	338.67	300.35	2.128	
10,500.00	7,172.81	7,202.81	7,202.81	56.57	253.46	-89.96	-1,226.76	-2,994.65	593.10	287.76	305.33	1.942	
10,600.00	7,172.98	7,202.98	7,202.98	58.16	253.47	-89.98	-1,226.76	-2,994.65	561.42	251.48	309.94	1.811	
10,700.00	7,173.14	7,203.14	7,203.14	59.75	253.47	-89.99	-1,226.76	-2,994.65	546.46	233.01	313.45	1.743	
10,732.87	7,173.20	7,203.20	7,203.20	60.28	253.48	-90.00	-1,226.76	-2,994.65	545.47	231.21	314.26	1.736	CC, ES, SF
10,800.00	7,173.31	7,203.31	7,203.31	61.35	253.48	-90.01	-1,226.76	-2,994.65	549.59	234.30	315.29	1.743	
10,900.00	7,173.48	7,203.48	7,203.48	62.96	253.49	-90.03	-1,226.76	-2,994.65	570.50	255.19	315.31	1.809	
11,000.00	7,173.65	7,203.65	7,203.65	64.56	253.49	-90.05	-1,226.76	-2,994.65	607.37	293.49	313.88	1.935	
11,100.00	7,173.81	7,203.81	7,203.81	66.17	253.50	-90.06	-1,226.76	-2,994.65	657.51	345.95	311.56	2.110	
11,200.00	7,173.98	7,203.98	7,203.98	67.79	253.50	-90.08	-1,226.76	-2,994.65	718.16	409.29	308.87	2.325	
11,300.00	7,174.15	7,204.15	7,204.15	69.40	253.51	-90.10	-1,226.76	-2,994.65	786.88	480.73	306.14	2.570	
11,400.00	7,174.31	7,204.31	7,204.31	71.02	253.52	-90.12	-1,226.76	-2,994.65	861.74	558.16	303.58	2.839	
11,500.00	7,174.48	7,204.48	7,204.48	72.64	253.52	-90.13	-1,226.76	-2,994.65	941.29	640.03	301.25	3.125	
11,600.00	7,174.65	7,204.65	7,204.65	74.26	253.53	-90.15	-1,226.76	-2,994.65	1,024.43	725.24	299.19	3.424	
11,700.00	7,174.81	7,204.81	7,204.81	75.89	253.53	-90.17	-1,226.76	-2,994.65	1,110.35	812.98	297.37	3.734	
11,800.00	7,174.98	7,204.98	7,204.98	77.51	253.54	-90.19	-1,226.76	-2,994.65	1,198.46	902.68	295.78	4.052	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 3 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,800.00	7,178.31	7,233.31	7,233.31	110.33	254.54	-89.81	-1,185.86	-7,070.92	1,134.44	828.47	305.97	3.708	
13,900.00	7,178.48	7,233.48	7,233.48	111.98	254.55	-89.83	-1,185.86	-7,070.92	1,046.47	735.81	310.66	3.369	
14,000.00	7,178.65	7,233.65	7,233.65	113.63	254.55	-89.85	-1,185.86	-7,070.92	960.86	644.71	316.15	3.039	
14,100.00	7,178.81	7,233.81	7,233.81	115.29	254.56	-89.87	-1,185.86	-7,070.92	878.30	555.73	322.57	2.723	
14,200.00	7,178.98	7,233.98	7,233.98	116.94	254.57	-89.89	-1,185.86	-7,070.92	799.72	469.67	330.05	2.423	
14,300.00	7,179.15	7,234.15	7,234.15	118.59	254.57	-89.91	-1,185.86	-7,070.92	726.43	387.78	338.66	2.145	
14,400.00	7,179.31	7,234.31	7,234.31	120.24	254.58	-89.92	-1,185.86	-7,070.92	660.19	311.88	348.32	1.895	
14,500.00	7,179.48	7,234.48	7,234.48	121.90	254.58	-89.94	-1,185.86	-7,070.92	603.33	244.70	358.63	1.682	
14,600.00	7,179.65	7,234.65	7,234.65	123.55	254.59	-89.96	-1,185.86	-7,070.92	558.71	190.01	368.70	1.515	
14,700.00	7,179.82	7,234.82	7,234.82	125.21	254.60	-89.98	-1,185.86	-7,070.92	529.44	152.42	377.02	1.404	Level 3
14,800.00	7,179.98	7,234.98	7,234.98	126.86	254.60	-90.00	-1,185.86	-7,070.92	518.13	136.21	381.92	1.357	Level 3
14,809.25	7,180.00	7,235.00	7,235.00	127.02	254.60	-90.00	-1,185.86	-7,070.92	518.05	135.89	382.15	1.356	Level 3, CC, ES, SF
14,900.00	7,180.15	7,235.15	7,235.15	128.52	254.61	-90.02	-1,185.86	-7,070.92	525.93	143.55	382.39	1.375	Level 3
15,000.00	7,180.32	7,235.32	7,235.32	130.17	254.61	-90.04	-1,185.86	-7,070.92	552.05	173.31	378.74	1.458	Level 3
15,100.00	7,180.48	7,235.48	7,235.48	131.83	254.62	-90.05	-1,185.86	-7,070.92	594.06	221.74	372.32	1.596	
15,200.00	7,180.65	7,235.65	7,235.65	133.49	254.63	-90.07	-1,185.86	-7,070.92	648.89	284.23	364.66	1.779	
15,300.00	7,180.82	7,235.82	7,235.82	135.15	254.63	-90.09	-1,185.86	-7,070.92	713.59	356.72	356.86	2.000	
15,400.00	7,180.98	7,235.98	7,235.98	136.80	254.64	-90.11	-1,185.86	-7,070.92	785.72	436.17	349.55	2.248	
15,410.68	7,181.00	7,236.00	7,236.00	136.98	254.64	-90.11	-1,185.86	-7,070.92	793.78	444.98	348.81	2.276	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 4 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,600.00	7,176.31	7,262.31	7,262.31	90.59	255.57	89.89	121.61	-5,738.79	1,186.22	865.38	320.84	3.697	
12,700.00	7,176.48	7,262.48	7,262.48	92.23	255.58	89.91	121.61	-5,738.79	1,113.92	788.38	325.54	3.422	
12,800.00	7,176.65	7,262.65	7,262.65	93.87	255.58	89.92	121.61	-5,738.79	1,046.20	715.58	330.62	3.164	
12,900.00	7,176.81	7,262.81	7,262.81	95.51	255.59	89.93	121.61	-5,738.79	983.99	647.99	336.00	2.929	
13,000.00	7,176.98	7,262.98	7,262.98	97.15	255.59	89.94	121.61	-5,738.79	928.41	586.86	341.55	2.718	
13,100.00	7,177.15	7,263.15	7,263.15	98.80	255.60	89.95	121.61	-5,738.79	880.72	533.67	347.04	2.538	
13,200.00	7,177.31	7,263.31	7,263.31	100.44	255.61	89.97	121.61	-5,738.79	842.24	490.08	352.16	2.392	
13,300.00	7,177.48	7,263.48	7,263.48	102.09	255.61	89.98	121.61	-5,738.79	814.30	457.79	356.51	2.284	
13,400.00	7,177.65	7,263.65	7,263.65	103.74	255.62	89.99	121.61	-5,738.79	797.99	438.29	359.70	2.218	
13,481.46	7,177.78	7,263.78	7,263.78	105.08	255.62	90.00	121.61	-5,738.79	793.82	432.59	361.23	2.198 CC, ES	
13,500.00	7,177.81	7,263.81	7,263.81	105.38	255.62	90.00	121.61	-5,738.79	794.04	432.61	361.43	2.197 SF	
13,600.00	7,177.98	7,263.98	7,263.98	107.03	255.63	90.01	121.61	-5,738.79	802.63	441.06	361.56	2.220	
13,700.00	7,178.15	7,264.15	7,264.15	108.68	255.64	90.03	121.61	-5,738.79	823.36	463.16	360.20	2.286	
13,800.00	7,178.31	7,264.31	7,264.31	110.33	255.64	90.04	121.61	-5,738.79	855.35	497.74	357.61	2.392	
13,900.00	7,178.48	7,264.48	7,264.48	111.98	255.65	90.05	121.61	-5,738.79	897.40	543.25	354.15	2.534	
14,000.00	7,178.65	7,264.65	7,264.65	113.63	255.65	90.06	121.61	-5,738.79	948.18	598.00	350.18	2.708	
14,100.00	7,178.81	7,264.81	7,264.81	115.29	255.66	90.07	121.61	-5,738.79	1,006.36	660.36	346.00	2.909	
14,200.00	7,178.98	7,264.98	7,264.98	116.94	255.67	90.09	121.61	-5,738.79	1,070.73	728.91	341.82	3.132	
14,300.00	7,179.15	7,265.15	7,265.15	118.59	255.67	90.10	121.61	-5,738.79	1,140.25	802.46	337.79	3.376	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 1023-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,000.00	7,176.98	7,379.46	7,268.74	97.15	42.90	82.48	-562.77	-6,403.74	1,149.22	1,084.10	65.12	17.648	
13,100.00	7,177.15	7,380.78	7,270.06	98.80	42.90	83.18	-562.77	-6,403.76	1,049.70	983.91	65.79	15.955	
13,200.00	7,177.31	7,382.10	7,271.38	100.44	42.90	83.87	-562.78	-6,403.77	950.29	883.67	66.62	14.265	
13,300.00	7,177.48	7,383.40	7,272.68	102.09	42.90	84.56	-562.78	-6,403.78	851.01	783.34	67.67	12.576	
13,400.00	7,177.65	7,384.70	7,273.98	103.74	42.91	85.25	-562.79	-6,403.80	751.92	682.88	69.04	10.891	
13,500.00	7,177.81	7,385.99	7,275.27	105.38	42.91	85.94	-562.79	-6,403.81	653.11	582.21	70.90	9.212	
13,600.00	7,177.98	7,387.27	7,276.55	107.03	42.91	86.62	-562.80	-6,403.83	554.71	481.19	73.52	7.545	
13,700.00	7,178.15	7,388.54	7,277.82	108.68	42.91	87.29	-562.80	-6,403.84	457.01	379.56	77.45	5.901	
13,800.00	7,178.31	7,389.80	7,279.08	110.33	42.91	87.96	-562.81	-6,403.85	360.57	276.84	83.74	4.306	
13,900.00	7,178.48	7,391.05	7,280.33	111.98	42.91	88.63	-562.81	-6,403.87	266.76	172.03	94.73	2.816	
14,000.00	7,178.65	7,392.29	7,281.57	113.63	42.91	89.30	-562.82	-6,403.88	179.75	63.87	115.88	1.551	
14,100.00	7,178.81	7,393.52	7,282.81	115.29	42.92	89.96	-562.82	-6,403.89	115.98	-34.78	150.76	0.769 Level 1	
14,144.30	7,178.89	7,394.07	7,283.35	116.02	42.92	90.25	-562.82	-6,403.90	107.19	-49.72	156.91	0.683 Level 1, CC, ES, SF	
14,200.00	7,178.98	7,394.75	7,284.03	116.94	42.92	90.61	-562.83	-6,403.91	120.80	-20.84	141.64	0.853 Level 1	
14,300.00	7,179.15	7,395.97	7,285.25	118.59	42.92	91.26	-562.83	-6,403.92	189.02	83.32	105.70	1.788	
14,400.00	7,179.31	7,397.18	7,286.46	120.24	42.92	91.91	-562.84	-6,403.93	277.24	190.07	87.17	3.180	
14,500.00	7,179.48	7,398.38	7,287.66	121.90	42.92	92.55	-562.84	-6,403.94	371.48	293.53	77.95	4.766	
14,600.00	7,179.65	7,399.57	7,288.85	123.55	42.92	93.18	-562.85	-6,403.96	468.11	395.20	72.90	6.421	
14,700.00	7,179.82	7,400.75	7,290.03	125.21	42.92	93.82	-562.85	-6,403.97	565.91	495.97	69.93	8.092	
14,800.00	7,179.98	7,401.93	7,291.21	126.86	42.92	94.44	-562.86	-6,403.98	664.36	596.27	68.09	9.757	
14,900.00	7,180.15	7,403.10	7,292.38	128.52	42.93	95.06	-562.86	-6,403.99	763.21	696.31	66.90	11.408	
15,000.00	7,180.32	7,404.26	7,293.54	130.17	42.93	95.68	-562.87	-6,404.00	862.33	796.20	66.12	13.041	
15,100.00	7,180.48	7,405.41	7,294.69	131.83	42.93	96.29	-562.87	-6,404.02	961.63	896.02	65.61	14.658	
15,200.00	7,180.65	7,406.56	7,295.84	133.49	42.93	96.89	-562.88	-6,404.03	1,061.05	995.79	65.26	16.258	
15,300.00	7,180.82	7,407.69	7,296.97	135.15	42.93	97.49	-562.89	-6,404.04	1,160.58	1,095.54	65.04	17.845	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-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 - STEVE J 30-6 - Noble PR Well - Actual Multishot Surveys													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-SRC Energy_2" CONE_2.448													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,300.00	7,175.81	7,445.35	7,250.55	85.67	41.81	-91.23	-1,184.46	-5,616.86	1,172.86	1,101.83	71.03	16.512		
12,400.00	7,175.98	7,444.24	7,249.44	87.31	41.81	-91.10	-1,184.46	-5,616.88	1,083.77	1,008.84	74.93	14.465		
12,500.00	7,176.15	7,443.14	7,248.33	88.95	41.81	-90.98	-1,184.46	-5,616.89	996.75	917.20	79.54	12.531		
12,600.00	7,176.31	7,442.03	7,247.23	90.59	41.81	-90.86	-1,184.46	-5,616.90	912.39	827.37	85.02	10.731		
12,700.00	7,176.48	7,440.94	7,246.13	92.23	41.81	-90.73	-1,184.46	-5,616.92	831.51	739.99	91.51	9.086		
12,800.00	7,176.65	7,439.84	7,245.04	93.87	41.80	-90.61	-1,184.45	-5,616.93	755.21	656.08	99.14	7.618		
12,900.00	7,176.81	7,438.76	7,243.95	95.51	41.80	-90.49	-1,184.45	-5,616.94	685.05	577.12	107.92	6.348		
13,000.00	7,176.98	7,437.67	7,242.87	97.15	41.80	-90.37	-1,184.45	-5,616.96	623.08	505.41	117.67	5.295		
13,100.00	7,177.15	7,436.59	7,241.79	98.80	41.80	-90.25	-1,184.45	-5,616.97	571.98	444.22	127.76	4.477		
13,200.00	7,177.31	7,435.52	7,240.72	100.44	41.80	-90.13	-1,184.45	-5,616.98	534.88	397.96	136.92	3.906		
13,300.00	7,177.48	7,434.45	7,239.65	102.09	41.80	-90.01	-1,184.45	-5,617.00	514.81	371.38	143.43	3.589		
13,355.35	7,177.57	7,433.86	7,239.06	103.00	41.80	-89.94	-1,184.45	-5,617.00	511.83	366.52	145.31	3.522 CC, ES, SF		
13,400.00	7,177.65	7,433.39	7,238.58	103.74	41.80	-89.89	-1,184.45	-5,617.01	513.77	367.97	145.80	3.524		
13,500.00	7,177.81	7,432.33	7,237.52	105.38	41.80	-89.77	-1,184.45	-5,617.02	531.87	388.16	143.72	3.701		
13,600.00	7,177.98	7,431.27	7,236.46	107.03	41.79	-89.65	-1,184.45	-5,617.03	567.29	429.06	138.23	4.104		
13,700.00	7,178.15	7,430.22	7,235.41	108.68	41.79	-89.53	-1,184.44	-5,617.05	617.04	486.08	130.96	4.712		
13,800.00	7,178.31	7,429.17	7,234.37	110.33	41.79	-89.42	-1,184.44	-5,617.06	677.98	554.72	123.27	5.500		
13,900.00	7,178.48	7,428.13	7,233.32	111.98	41.79	-89.30	-1,184.44	-5,617.07	747.38	631.43	115.95	6.446		
14,000.00	7,178.65	7,440.91	7,232.28	113.63	41.80	-89.18	-1,184.44	-5,617.09	823.10	713.72	109.39	7.525		
14,100.00	7,178.81	7,441.96	7,231.23	115.29	41.81	-89.07	-1,184.44	-5,617.10	903.56	799.92	103.64	8.718		
14,200.00	7,178.98	7,443.01	7,230.18	116.94	41.81	-88.95	-1,184.44	-5,617.11	987.59	888.90	98.68	10.008		
14,300.00	7,179.15	7,424.00	7,229.19	118.59	41.79	-88.84	-1,184.44	-5,617.12	1,074.35	979.95	94.40	11.381		
14,400.00	7,179.31	7,422.98	7,228.17	120.24	41.78	-88.72	-1,184.44	-5,617.13	1,163.25	1,072.50	90.75	12.819		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

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

Offset Depths are relative to Offset Datum

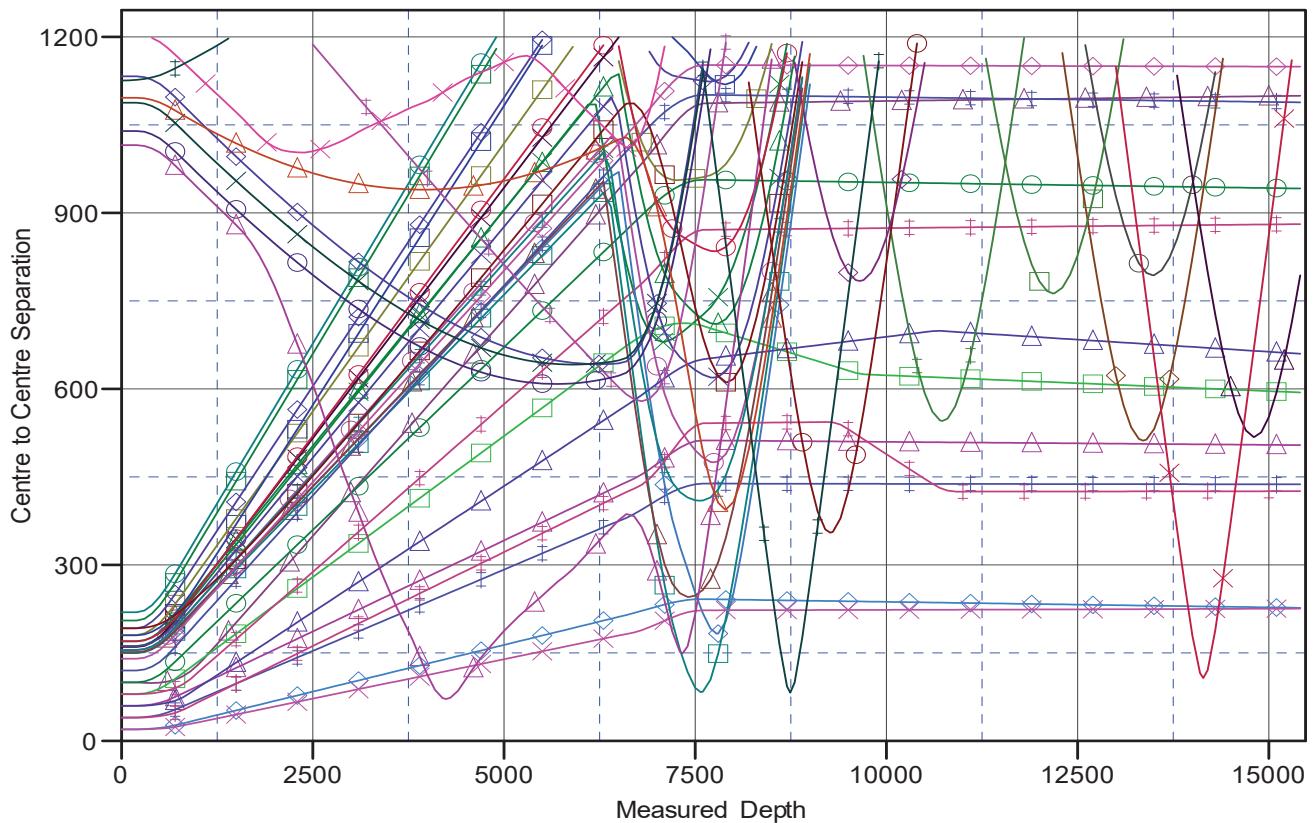
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 31N-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 8N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 1 XOG PR Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 10C-27-XR, Wellbore #1, Design #1 V0	LUNDVALL 3 30-19, Noble PR Well, Actual Eneign Surveys V0
SANFORD 4C-30A-M, Wellbore #1, Design #1 V0	SANFORD 10C-27-XR, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Eneign Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 4N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Eneign Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qnos V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	

Hewlett-Packard

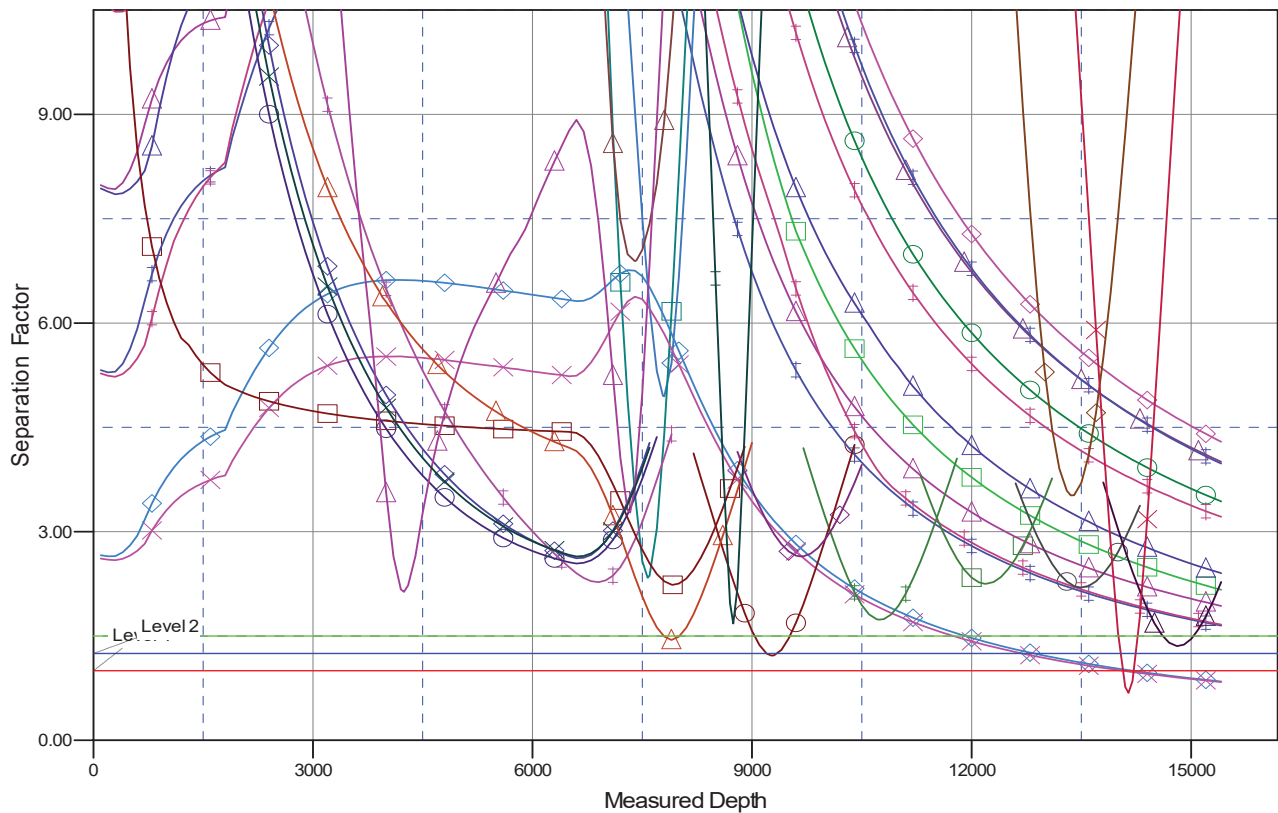
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 31N-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 31N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 4' @ 4908.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 31N-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	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 10C-27-XR, Wellbore #1, Design #1 V0	LUNDVALL 1 30-19, Noble PR Well, Actual Ensign Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 26C-27-XR, Wellbore #1, Design #1 V0	BENSLEY J29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 9C-27-XR, Wellbore #1, Design #1 V0	SANFORD 26N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-5, XOG PR Well, No Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	LUNDVALL 4, Noble PR Well, No Surveys V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	STEVE J 3D-6, Noble PR Well, Actual Multishot Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech Qiros V0
SANFORD 5N-30C-M, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0		