

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

5N-66W-29 SANFORD 21-29 PAD

SANFORD 40N-27C-XR

Wellbore #1

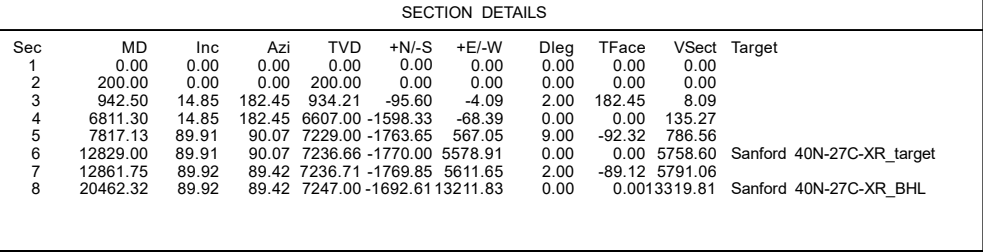
Plan: Design #1

Standard Planning Report

25 October, 2018

SRC ENERGY

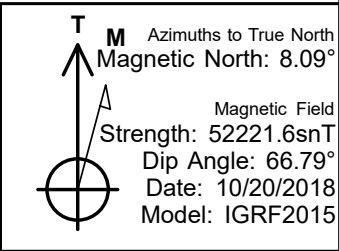
CASING DETAILS		
TVD	MD	Name
1800.00	1838.20	9 5/8"
7229.00	7817.13	Production Zone Top



WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Sanford 40N-27C-XR_BPZ	0.00	-1692.30	13111.80	40.370706	-104.757850
Sanford 40N-27C-XR_SHL	0.00	0.00	0.00	40.375361	-104.804908
Sanford 40N-27C-XR_BHL	7247.00	-1692.61	13211.83	40.370705	-104.757491

BHL
2583' FNL
360' FEL

WELL DETAILS: SANFORD 40N-27C-XR
GL = 4905'
RKB = 4' @ 4909.00usft (RIG)
Plan: Design #1 (SANFORD 40N-27C-XR/Wellbore #1)
Date: 10/25/2015



South(-)/North(+) (2400 usft/in)

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SANFORD 40N-27C-XR
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	WELD COUNTY (NAD83, TRUE NORTH)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	5N-66W-29 SANFORD 21-29 PAD			
Site Position:		Northing:	1,380,603.61 usft	Latitude: 40.376075
From:	Lat/Long	Easting:	3,193,654.99 usft	Longitude: -104.804914
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.45 °

Well	SANFORD 40N-27C-XR			
Well Position	+N/-S	-260.12 usft	Northing:	1,380,343.51 usft
	+E/-W	1.67 usft	Easting:	3,193,658.70 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Latitude: 40.375361
				Longitude: -104.804908
				Ground Level: 4,905.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/20/2018	8.09	66.79	52,221.64183581

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	97.30

Plan Survey Tool Program	Date	10/25/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	1,800.00	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2
				Fixed:v2:crustal field declinatio
2	1,800.00	20,462.32	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2
				Fixed:v2:Rockies, crustal dec +

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Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
942.50	14.85	182.45	934.22	-95.60	-4.09	2.00	2.00	0.00	182.45	
6,811.30	14.85	182.45	6,607.00	-1,598.33	-68.39	0.00	0.00	0.00	0.00	
7,817.13	89.91	90.07	7,229.00	-1,763.65	567.05	9.00	7.46	-9.18	-92.32	
12,829.00	89.91	90.07	7,236.66	-1,770.00	5,578.91	0.00	0.00	0.00	0.00	Sanford 40N-27C-XR
12,861.75	89.92	89.42	7,236.71	-1,769.85	5,611.66	2.00	0.03	-2.00	-89.12	
20,462.32	89.92	89.42	7,247.00	-1,692.61	13,211.83	0.00	0.00	0.00	0.00	Sanford 40N-27C-XR

Hewlett-Packard

Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 200.00ft									
300.00	2.00	182.45	299.98	-1.74	-0.07	0.15	2.00	2.00	0.00
400.00	4.00	182.45	399.84	-6.97	-0.30	0.59	2.00	2.00	0.00
500.00	6.00	182.45	499.45	-15.68	-0.67	1.33	2.00	2.00	0.00
600.00	8.00	182.45	598.70	-27.85	-1.19	2.36	2.00	2.00	0.00
700.00	10.00	182.45	697.47	-43.48	-1.86	3.68	2.00	2.00	0.00
800.00	12.00	182.45	795.62	-62.55	-2.68	5.29	2.00	2.00	0.00
900.00	14.00	182.45	893.06	-85.02	-3.64	7.20	2.00	2.00	0.00
942.50	14.85	182.45	934.22	-95.60	-4.09	8.09	2.00	2.00	0.00
Hold Tangent @ 942.50ft									
1,000.00	14.85	182.45	989.79	-110.32	-4.72	9.34	0.00	0.00	0.00
1,100.00	14.85	182.45	1,086.45	-135.92	-5.82	11.50	0.00	0.00	0.00
1,200.00	14.85	182.45	1,183.11	-161.53	-6.91	13.67	0.00	0.00	0.00
1,300.00	14.85	182.45	1,279.77	-187.14	-8.01	15.84	0.00	0.00	0.00
1,400.00	14.85	182.45	1,376.43	-212.74	-9.10	18.00	0.00	0.00	0.00
1,500.00	14.85	182.45	1,473.09	-238.35	-10.20	20.17	0.00	0.00	0.00
1,600.00	14.85	182.45	1,569.75	-263.95	-11.29	22.34	0.00	0.00	0.00
1,700.00	14.85	182.45	1,666.41	-289.56	-12.39	24.51	0.00	0.00	0.00
1,800.00	14.85	182.45	1,763.07	-315.16	-13.48	26.67	0.00	0.00	0.00
1,838.20	14.85	182.45	1,800.00	-324.95	-13.90	27.50	0.00	0.00	0.00
9 5/8"									
1,900.00	14.85	182.45	1,859.73	-340.77	-14.58	28.84	0.00	0.00	0.00
2,000.00	14.85	182.45	1,956.39	-366.37	-15.68	31.01	0.00	0.00	0.00
2,100.00	14.85	182.45	2,053.05	-391.98	-16.77	33.17	0.00	0.00	0.00
2,200.00	14.85	182.45	2,149.71	-417.59	-17.87	35.34	0.00	0.00	0.00
2,300.00	14.85	182.45	2,246.37	-443.19	-18.96	37.51	0.00	0.00	0.00
2,400.00	14.85	182.45	2,343.03	-468.80	-20.06	39.67	0.00	0.00	0.00
2,500.00	14.85	182.45	2,439.69	-494.40	-21.15	41.84	0.00	0.00	0.00
2,600.00	14.85	182.45	2,536.35	-520.01	-22.25	44.01	0.00	0.00	0.00
2,700.00	14.85	182.45	2,633.01	-545.61	-23.34	46.18	0.00	0.00	0.00
2,800.00	14.85	182.45	2,729.67	-571.22	-24.44	48.34	0.00	0.00	0.00
2,900.00	14.85	182.45	2,826.33	-596.82	-25.54	50.51	0.00	0.00	0.00
3,000.00	14.85	182.45	2,922.99	-622.43	-26.63	52.68	0.00	0.00	0.00
3,100.00	14.85	182.45	3,019.65	-648.04	-27.73	54.84	0.00	0.00	0.00
3,200.00	14.85	182.45	3,116.31	-673.64	-28.82	57.01	0.00	0.00	0.00
3,300.00	14.85	182.45	3,212.97	-699.25	-29.92	59.18	0.00	0.00	0.00
3,400.00	14.85	182.45	3,309.63	-724.85	-31.01	61.34	0.00	0.00	0.00
3,500.00	14.85	182.45	3,406.29	-750.46	-32.11	63.51	0.00	0.00	0.00
3,600.00	14.85	182.45	3,502.95	-776.06	-33.21	65.68	0.00	0.00	0.00
3,700.00	14.85	182.45	3,599.61	-801.67	-34.30	67.85	0.00	0.00	0.00
3,800.00	14.85	182.45	3,696.27	-827.27	-35.40	70.01	0.00	0.00	0.00
3,900.00	14.85	182.45	3,792.93	-852.88	-36.49	72.18	0.00	0.00	0.00
4,000.00	14.85	182.45	3,889.59	-878.48	-37.59	74.35	0.00	0.00	0.00
4,100.00	14.85	182.45	3,986.25	-904.09	-38.68	76.51	0.00	0.00	0.00
4,200.00	14.85	182.45	4,082.91	-929.70	-39.78	78.68	0.00	0.00	0.00
4,300.00	14.85	182.45	4,179.57	-955.30	-40.87	80.85	0.00	0.00	0.00
4,400.00	14.85	182.45	4,276.23	-980.91	-41.97	83.01	0.00	0.00	0.00
4,500.00	14.85	182.45	4,372.89	-1,006.51	-43.07	85.18	0.00	0.00	0.00
4,600.00	14.85	182.45	4,469.55	-1,032.12	-44.16	87.35	0.00	0.00	0.00
4,700.00	14.85	182.45	4,566.21	-1,057.72	-45.26	89.52	0.00	0.00	0.00

Hewlett-Packard

Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	14.85	182.45	4,662.87	-1,083.33	-46.35	91.68	0.00	0.00	0.00
4,900.00	14.85	182.45	4,759.53	-1,108.93	-47.45	93.85	0.00	0.00	0.00
5,000.00	14.85	182.45	4,856.19	-1,134.54	-48.54	96.02	0.00	0.00	0.00
5,100.00	14.85	182.45	4,952.86	-1,160.15	-49.64	98.18	0.00	0.00	0.00
5,200.00	14.85	182.45	5,049.52	-1,185.75	-50.73	100.35	0.00	0.00	0.00
5,300.00	14.85	182.45	5,146.18	-1,211.36	-51.83	102.52	0.00	0.00	0.00
5,400.00	14.85	182.45	5,242.84	-1,236.96	-52.93	104.68	0.00	0.00	0.00
5,500.00	14.85	182.45	5,339.50	-1,262.57	-54.02	106.85	0.00	0.00	0.00
5,600.00	14.85	182.45	5,436.16	-1,288.17	-55.12	109.02	0.00	0.00	0.00
5,700.00	14.85	182.45	5,532.82	-1,313.78	-56.21	111.19	0.00	0.00	0.00
5,800.00	14.85	182.45	5,629.48	-1,339.38	-57.31	113.35	0.00	0.00	0.00
5,900.00	14.85	182.45	5,726.14	-1,364.99	-58.40	115.52	0.00	0.00	0.00
6,000.00	14.85	182.45	5,822.80	-1,390.59	-59.50	117.69	0.00	0.00	0.00
6,100.00	14.85	182.45	5,919.46	-1,416.20	-60.59	119.85	0.00	0.00	0.00
6,200.00	14.85	182.45	6,016.12	-1,441.81	-61.69	122.02	0.00	0.00	0.00
6,300.00	14.85	182.45	6,112.78	-1,467.41	-62.79	124.19	0.00	0.00	0.00
6,400.00	14.85	182.45	6,209.44	-1,493.02	-63.88	126.35	0.00	0.00	0.00
6,500.00	14.85	182.45	6,306.10	-1,518.62	-64.98	128.52	0.00	0.00	0.00
6,600.00	14.85	182.45	6,402.76	-1,544.23	-66.07	130.69	0.00	0.00	0.00
6,700.00	14.85	182.45	6,499.42	-1,569.83	-67.17	132.86	0.00	0.00	0.00
6,800.00	14.85	182.45	6,596.08	-1,595.44	-68.26	135.02	0.00	0.00	0.00
6,811.30	14.85	182.45	6,607.00	-1,598.33	-68.39	135.27	0.00	0.00	0.00
KOP @ 6811.30ft :: DLS = 9°100'									
6,900.00	16.53	153.26	6,692.52	-1,620.99	-63.19	143.31	9.00	1.89	-32.91
7,000.00	21.95	131.13	6,787.02	-1,646.05	-42.66	166.85	9.00	5.43	-22.12
7,100.00	29.14	118.42	6,877.26	-1,669.98	-7.10	205.16	9.00	7.18	-12.71
7,200.00	37.07	110.58	6,961.00	-1,692.21	42.63	257.31	9.00	7.93	-7.84
7,300.00	45.35	105.22	7,036.18	-1,712.18	105.30	322.01	9.00	8.29	-5.36
7,400.00	53.83	101.22	7,100.96	-1,729.40	179.37	397.67	9.00	8.47	-4.00
7,500.00	62.41	98.01	7,153.74	-1,743.46	263.01	482.42	9.00	8.58	-3.21
7,600.00	71.05	95.27	7,193.22	-1,753.99	354.17	574.18	9.00	8.64	-2.74
7,700.00	79.73	92.80	7,218.43	-1,760.76	450.60	670.69	9.00	8.68	-2.47
7,800.00	88.42	90.47	7,228.75	-1,763.57	549.92	769.56	9.00	8.70	-2.33
7,817.13	89.91	90.07	7,229.00	-1,763.65	567.05	786.56	9.00	8.70	-2.30
End Build @ 7817.13ft - Production Zone Top									
7,900.00	89.91	90.07	7,229.12	-1,763.76	649.92	868.77	0.00	0.00	0.00
8,000.00	89.91	90.07	7,229.28	-1,763.89	749.92	967.98	0.00	0.00	0.00
8,100.00	89.91	90.07	7,229.43	-1,764.01	849.92	1,067.18	0.00	0.00	0.00
8,200.00	89.91	90.07	7,229.58	-1,764.14	949.92	1,166.39	0.00	0.00	0.00
8,300.00	89.91	90.07	7,229.73	-1,764.27	1,049.92	1,265.59	0.00	0.00	0.00
8,400.00	89.91	90.07	7,229.89	-1,764.39	1,149.92	1,364.80	0.00	0.00	0.00
8,500.00	89.91	90.07	7,230.04	-1,764.52	1,249.92	1,464.00	0.00	0.00	0.00
8,600.00	89.91	90.07	7,230.19	-1,764.65	1,349.92	1,563.21	0.00	0.00	0.00
8,700.00	89.91	90.07	7,230.35	-1,764.77	1,449.92	1,662.41	0.00	0.00	0.00
8,800.00	89.91	90.07	7,230.50	-1,764.90	1,549.92	1,761.62	0.00	0.00	0.00
8,900.00	89.91	90.07	7,230.65	-1,765.03	1,649.92	1,860.82	0.00	0.00	0.00
9,000.00	89.91	90.07	7,230.80	-1,765.15	1,749.92	1,960.03	0.00	0.00	0.00
9,100.00	89.91	90.07	7,230.96	-1,765.28	1,849.92	2,059.24	0.00	0.00	0.00
9,200.00	89.91	90.07	7,231.11	-1,765.41	1,949.92	2,158.44	0.00	0.00	0.00
9,300.00	89.91	90.07	7,231.26	-1,765.53	2,049.92	2,257.65	0.00	0.00	0.00
9,400.00	89.91	90.07	7,231.42	-1,765.66	2,149.92	2,356.85	0.00	0.00	0.00
9,500.00	89.91	90.07	7,231.57	-1,765.79	2,249.92	2,456.06	0.00	0.00	0.00
9,600.00	89.91	90.07	7,231.72	-1,765.91	2,349.92	2,555.26	0.00	0.00	0.00
9,700.00	89.91	90.07	7,231.88	-1,766.04	2,449.92	2,654.47	0.00	0.00	0.00

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Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,800.00	89.91	90.07	7,232.03	-1,766.17	2,549.92	2,753.67	0.00	0.00	0.00	
9,900.00	89.91	90.07	7,232.18	-1,766.29	2,649.92	2,852.88	0.00	0.00	0.00	
10,000.00	89.91	90.07	7,232.33	-1,766.42	2,749.92	2,952.08	0.00	0.00	0.00	
10,100.00	89.91	90.07	7,232.49	-1,766.54	2,849.91	3,051.29	0.00	0.00	0.00	
10,200.00	89.91	90.07	7,232.64	-1,766.67	2,949.91	3,150.49	0.00	0.00	0.00	
10,300.00	89.91	90.07	7,232.79	-1,766.80	3,049.91	3,249.70	0.00	0.00	0.00	
10,400.00	89.91	90.07	7,232.95	-1,766.92	3,149.91	3,348.90	0.00	0.00	0.00	
10,500.00	89.91	90.07	7,233.10	-1,767.05	3,249.91	3,448.11	0.00	0.00	0.00	
10,600.00	89.91	90.07	7,233.25	-1,767.18	3,349.91	3,547.31	0.00	0.00	0.00	
10,700.00	89.91	90.07	7,233.40	-1,767.30	3,449.91	3,646.52	0.00	0.00	0.00	
10,800.00	89.91	90.07	7,233.56	-1,767.43	3,549.91	3,745.72	0.00	0.00	0.00	
10,900.00	89.91	90.07	7,233.71	-1,767.56	3,649.91	3,844.93	0.00	0.00	0.00	
11,000.00	89.91	90.07	7,233.86	-1,767.68	3,749.91	3,944.14	0.00	0.00	0.00	
11,100.00	89.91	90.07	7,234.02	-1,767.81	3,849.91	4,043.34	0.00	0.00	0.00	
11,200.00	89.91	90.07	7,234.17	-1,767.94	3,949.91	4,142.55	0.00	0.00	0.00	
11,300.00	89.91	90.07	7,234.32	-1,768.06	4,049.91	4,241.75	0.00	0.00	0.00	
11,400.00	89.91	90.07	7,234.47	-1,768.19	4,149.91	4,340.96	0.00	0.00	0.00	
11,500.00	89.91	90.07	7,234.63	-1,768.32	4,249.91	4,440.16	0.00	0.00	0.00	
11,600.00	89.91	90.07	7,234.78	-1,768.44	4,349.91	4,539.37	0.00	0.00	0.00	
11,700.00	89.91	90.07	7,234.93	-1,768.57	4,449.91	4,638.57	0.00	0.00	0.00	
11,800.00	89.91	90.07	7,235.09	-1,768.70	4,549.91	4,737.78	0.00	0.00	0.00	
11,900.00	89.91	90.07	7,235.24	-1,768.82	4,649.91	4,836.98	0.00	0.00	0.00	
12,000.00	89.91	90.07	7,235.39	-1,768.95	4,749.91	4,936.19	0.00	0.00	0.00	
12,100.00	89.91	90.07	7,235.55	-1,769.08	4,849.91	5,035.39	0.00	0.00	0.00	
12,200.00	89.91	90.07	7,235.70	-1,769.20	4,949.91	5,134.60	0.00	0.00	0.00	
12,300.00	89.91	90.07	7,235.85	-1,769.33	5,049.91	5,233.80	0.00	0.00	0.00	
12,400.00	89.91	90.07	7,236.00	-1,769.46	5,149.91	5,333.01	0.00	0.00	0.00	
12,500.00	89.91	90.07	7,236.16	-1,769.58	5,249.91	5,432.21	0.00	0.00	0.00	
12,600.00	89.91	90.07	7,236.31	-1,769.71	5,349.91	5,531.42	0.00	0.00	0.00	
12,700.00	89.91	90.07	7,236.46	-1,769.84	5,449.91	5,630.62	0.00	0.00	0.00	
12,800.00	89.91	90.07	7,236.62	-1,769.96	5,549.91	5,729.83	0.00	0.00	0.00	
12,829.00	89.91	90.07	7,236.66	-1,770.00	5,578.91	5,758.60	0.00	0.00	0.00	
Begin Turn to BHL @ 12829.00ft										
12,861.75	89.92	89.42	7,236.71	-1,769.85	5,611.66	5,791.06	2.00	0.03	-2.00	
End Turn @ 12861.75ft										
12,900.00	89.92	89.42	7,236.76	-1,769.47	5,649.91	5,828.95	0.00	0.00	0.00	
13,000.00	89.92	89.42	7,236.89	-1,768.45	5,749.90	5,928.01	0.00	0.00	0.00	
13,100.00	89.92	89.42	7,237.03	-1,767.43	5,849.90	6,027.06	0.00	0.00	0.00	
13,200.00	89.92	89.42	7,237.17	-1,766.42	5,949.89	6,126.12	0.00	0.00	0.00	
13,300.00	89.92	89.42	7,237.30	-1,765.40	6,049.89	6,225.17	0.00	0.00	0.00	
13,400.00	89.92	89.42	7,237.44	-1,764.38	6,149.88	6,324.23	0.00	0.00	0.00	
13,500.00	89.92	89.42	7,237.57	-1,763.37	6,249.88	6,423.28	0.00	0.00	0.00	
13,600.00	89.92	89.42	7,237.71	-1,762.35	6,349.87	6,522.34	0.00	0.00	0.00	
13,700.00	89.92	89.42	7,237.84	-1,761.34	6,449.86	6,621.39	0.00	0.00	0.00	
13,800.00	89.92	89.42	7,237.98	-1,760.32	6,549.86	6,720.45	0.00	0.00	0.00	
13,900.00	89.92	89.42	7,238.11	-1,759.30	6,649.85	6,819.50	0.00	0.00	0.00	
14,000.00	89.92	89.42	7,238.25	-1,758.29	6,749.85	6,918.56	0.00	0.00	0.00	
14,100.00	89.92	89.42	7,238.38	-1,757.27	6,849.84	7,017.61	0.00	0.00	0.00	
14,200.00	89.92	89.42	7,238.52	-1,756.25	6,949.84	7,116.67	0.00	0.00	0.00	
14,300.00	89.92	89.42	7,238.66	-1,755.24	7,049.83	7,215.72	0.00	0.00	0.00	
14,400.00	89.92	89.42	7,238.79	-1,754.22	7,149.83	7,314.78	0.00	0.00	0.00	
14,500.00	89.92	89.42	7,238.93	-1,753.21	7,249.82	7,413.83	0.00	0.00	0.00	
14,600.00	89.92	89.42	7,239.06	-1,752.19	7,349.82	7,512.89	0.00	0.00	0.00	
14,700.00	89.92	89.42	7,239.20	-1,751.17	7,449.81	7,611.94	0.00	0.00	0.00	

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SANFORD 40N-27C-XR
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,800.00	89.92	89.42	7,239.33	-1,750.16	7,549.81	7,711.00	0.00	0.00	0.00
14,900.00	89.92	89.42	7,239.47	-1,749.14	7,649.80	7,810.05	0.00	0.00	0.00
15,000.00	89.92	89.42	7,239.60	-1,748.12	7,749.80	7,909.11	0.00	0.00	0.00
15,100.00	89.92	89.42	7,239.74	-1,747.11	7,849.79	8,008.16	0.00	0.00	0.00
15,200.00	89.92	89.42	7,239.87	-1,746.09	7,949.79	8,107.22	0.00	0.00	0.00
15,300.00	89.92	89.42	7,240.01	-1,745.08	8,049.78	8,206.27	0.00	0.00	0.00
15,400.00	89.92	89.42	7,240.14	-1,744.06	8,149.78	8,305.33	0.00	0.00	0.00
15,500.00	89.92	89.42	7,240.28	-1,743.04	8,249.77	8,404.38	0.00	0.00	0.00
15,600.00	89.92	89.42	7,240.42	-1,742.03	8,349.77	8,503.44	0.00	0.00	0.00
15,700.00	89.92	89.42	7,240.55	-1,741.01	8,449.76	8,602.49	0.00	0.00	0.00
15,800.00	89.92	89.42	7,240.69	-1,739.99	8,549.75	8,701.55	0.00	0.00	0.00
15,900.00	89.92	89.42	7,240.82	-1,738.98	8,649.75	8,800.60	0.00	0.00	0.00
16,000.00	89.92	89.42	7,240.96	-1,737.96	8,749.74	8,899.66	0.00	0.00	0.00
16,100.00	89.92	89.42	7,241.09	-1,736.94	8,849.74	8,998.71	0.00	0.00	0.00
16,200.00	89.92	89.42	7,241.23	-1,735.93	8,949.73	9,097.77	0.00	0.00	0.00
16,300.00	89.92	89.42	7,241.36	-1,734.91	9,049.73	9,196.82	0.00	0.00	0.00
16,400.00	89.92	89.42	7,241.50	-1,733.90	9,149.72	9,295.88	0.00	0.00	0.00
16,500.00	89.92	89.42	7,241.63	-1,732.88	9,249.72	9,394.93	0.00	0.00	0.00
16,600.00	89.92	89.42	7,241.77	-1,731.86	9,349.71	9,493.99	0.00	0.00	0.00
16,700.00	89.92	89.42	7,241.91	-1,730.85	9,449.71	9,593.04	0.00	0.00	0.00
16,800.00	89.92	89.42	7,242.04	-1,729.83	9,549.70	9,692.10	0.00	0.00	0.00
16,900.00	89.92	89.42	7,242.18	-1,728.81	9,649.70	9,791.15	0.00	0.00	0.00
17,000.00	89.92	89.42	7,242.31	-1,727.80	9,749.69	9,890.21	0.00	0.00	0.00
17,100.00	89.92	89.42	7,242.45	-1,726.78	9,849.69	9,989.26	0.00	0.00	0.00
17,200.00	89.92	89.42	7,242.58	-1,725.77	9,949.68	10,088.32	0.00	0.00	0.00
17,300.00	89.92	89.42	7,242.72	-1,724.75	10,049.68	10,187.37	0.00	0.00	0.00
17,400.00	89.92	89.42	7,242.85	-1,723.73	10,149.67	10,286.43	0.00	0.00	0.00
17,500.00	89.92	89.42	7,242.99	-1,722.72	10,249.67	10,385.48	0.00	0.00	0.00
17,600.00	89.92	89.42	7,243.12	-1,721.70	10,349.66	10,484.54	0.00	0.00	0.00
17,700.00	89.92	89.42	7,243.26	-1,720.68	10,449.65	10,583.59	0.00	0.00	0.00
17,800.00	89.92	89.42	7,243.39	-1,719.67	10,549.65	10,682.65	0.00	0.00	0.00
17,900.00	89.92	89.42	7,243.53	-1,718.65	10,649.64	10,781.70	0.00	0.00	0.00
18,000.00	89.92	89.42	7,243.67	-1,717.64	10,749.64	10,880.76	0.00	0.00	0.00
18,100.00	89.92	89.42	7,243.80	-1,716.62	10,849.63	10,979.81	0.00	0.00	0.00
18,200.00	89.92	89.42	7,243.94	-1,715.60	10,949.63	11,078.87	0.00	0.00	0.00
18,300.00	89.92	89.42	7,244.07	-1,714.59	11,049.62	11,177.92	0.00	0.00	0.00
18,400.00	89.92	89.42	7,244.21	-1,713.57	11,149.62	11,276.98	0.00	0.00	0.00
18,500.00	89.92	89.42	7,244.34	-1,712.55	11,249.61	11,376.03	0.00	0.00	0.00
18,600.00	89.92	89.42	7,244.48	-1,711.54	11,349.61	11,475.09	0.00	0.00	0.00
18,700.00	89.92	89.42	7,244.61	-1,710.52	11,449.60	11,574.15	0.00	0.00	0.00
18,800.00	89.92	89.42	7,244.75	-1,709.51	11,549.60	11,673.20	0.00	0.00	0.00
18,900.00	89.92	89.42	7,244.88	-1,708.49	11,649.59	11,772.26	0.00	0.00	0.00
19,000.00	89.92	89.42	7,245.02	-1,707.47	11,749.59	11,871.31	0.00	0.00	0.00
19,100.00	89.92	89.42	7,245.16	-1,706.46	11,849.58	11,970.37	0.00	0.00	0.00
19,200.00	89.92	89.42	7,245.29	-1,705.44	11,949.58	12,069.42	0.00	0.00	0.00
19,300.00	89.92	89.42	7,245.43	-1,704.42	12,049.57	12,168.48	0.00	0.00	0.00
19,400.00	89.92	89.42	7,245.56	-1,703.41	12,149.57	12,267.53	0.00	0.00	0.00
19,500.00	89.92	89.42	7,245.70	-1,702.39	12,249.56	12,366.59	0.00	0.00	0.00
19,600.00	89.92	89.42	7,245.83	-1,701.38	12,349.55	12,465.64	0.00	0.00	0.00
19,700.00	89.92	89.42	7,245.97	-1,700.36	12,449.55	12,564.70	0.00	0.00	0.00
19,800.00	89.92	89.42	7,246.10	-1,699.34	12,549.54	12,663.75	0.00	0.00	0.00
19,900.00	89.92	89.42	7,246.24	-1,698.33	12,649.54	12,762.81	0.00	0.00	0.00
20,000.00	89.92	89.42	7,246.37	-1,697.31	12,749.53	12,861.86	0.00	0.00	0.00
20,100.00	89.92	89.42	7,246.51	-1,696.29	12,849.53	12,960.92	0.00	0.00	0.00

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SANFORD 40N-27C-XR
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4909.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4909.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 40N-27C-XR	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
20,200.00	89.92	89.42	7,246.64	-1,695.28	12,949.52	13,059.97	0.00	0.00	0.00
20,300.00	89.92	89.42	7,246.78	-1,694.26	13,049.52	13,159.03	0.00	0.00	0.00
20,400.00	89.92	89.42	7,246.92	-1,693.25	13,149.51	13,258.08	0.00	0.00	0.00
20,462.32	89.92	89.42	7,247.00	-1,692.61	13,211.83	13,319.81	0.00	0.00	0.00
TD Well @ 20462.32ft									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,838.20	1,800.00	9 5/8"	9-5/8	13-1/2
7,817.13	7,229.00	Production Zone Top	5-1/2	8-1/2

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft
942.50	934.22	-95.60	-4.09	Hold Tangent @ 942.50ft
6,811.30	6,607.00	-1,598.33	-68.39	KOP @ 6811.30ft :: DLS = 9°100'
7,817.13	7,229.00	-1,763.65	567.05	End Build @ 7817.13ft
12,829.00	7,236.66	-1,770.00	5,578.91	Begin Turn to BHL @ 12829.00ft
12,861.75	7,236.71	-1,769.85	5,611.66	End Turn @ 12861.75ft
20,462.32	7,247.00	-1,692.61	13,211.83	TD Well @ 20462.32ft