

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

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

SANFORD 31N-30C-M

Wellbore #1

Plan: Design #1

Standard Planning Report

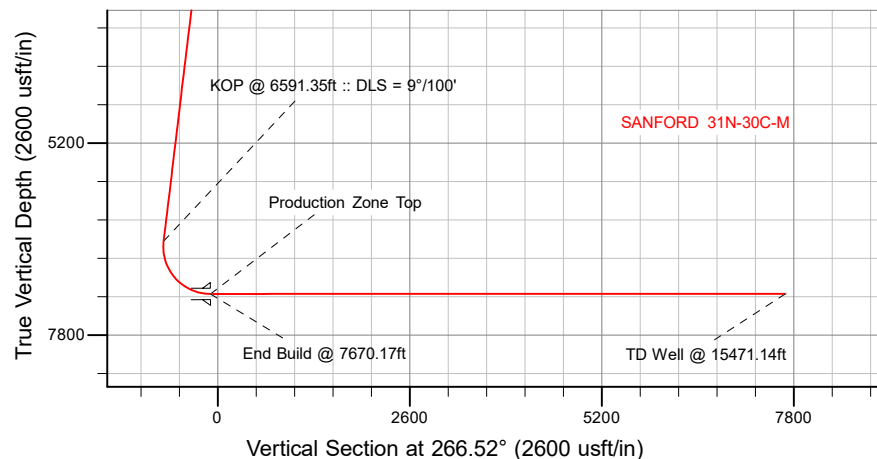
25 October, 2018

Project: WELD COUNTY (NAD83, TRUE NORTH)
Site: 5N-66W-29 SANFORD 21-29 PAD
Well: SANFORD 31N-30C-M
Wellbore: Wellbore #1
Design: Design #1

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1813.52	9 5/8"
7243.00	7670.17	Production Zone Top



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	607.00	8.14	119.60	605.63	-14.26	25.10	2.00	119.60	-24.18	
4	6591.35	8.14	119.60	6529.69	-432.79	761.85	0.00	0.00	-734.15	
5	7670.17	90.01	270.11	7243.00	-481.82	129.83	9.00	150.26	-100.32	
6	15471.14	90.01	270.11	7241.00	-466.92	-7671.12	0.00	0.00	7685.32	SANFORD 31N-30C-M_BHL

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
SANFORD 31N-30C-M_BPZ	0.00	-466.95	-7571.10	40.374408	-104.831546
SANFORD 31N-30C-M_SHL	0.00	0.00	0.00	40.375693	-104.804372
SANFORD 31N-30C-M_BHL	7241.00	-466.92	-7671.12	40.374408	-104.831905

WELL DETAILS: SANFORD 31N-30C-M

GL = 4904'

RKB = 4' @ 4908.00usft (RIG)

Plan: Design #1 (SANFORD 31N-30C-M/Wellbore #1)

Date: 10/25/2015

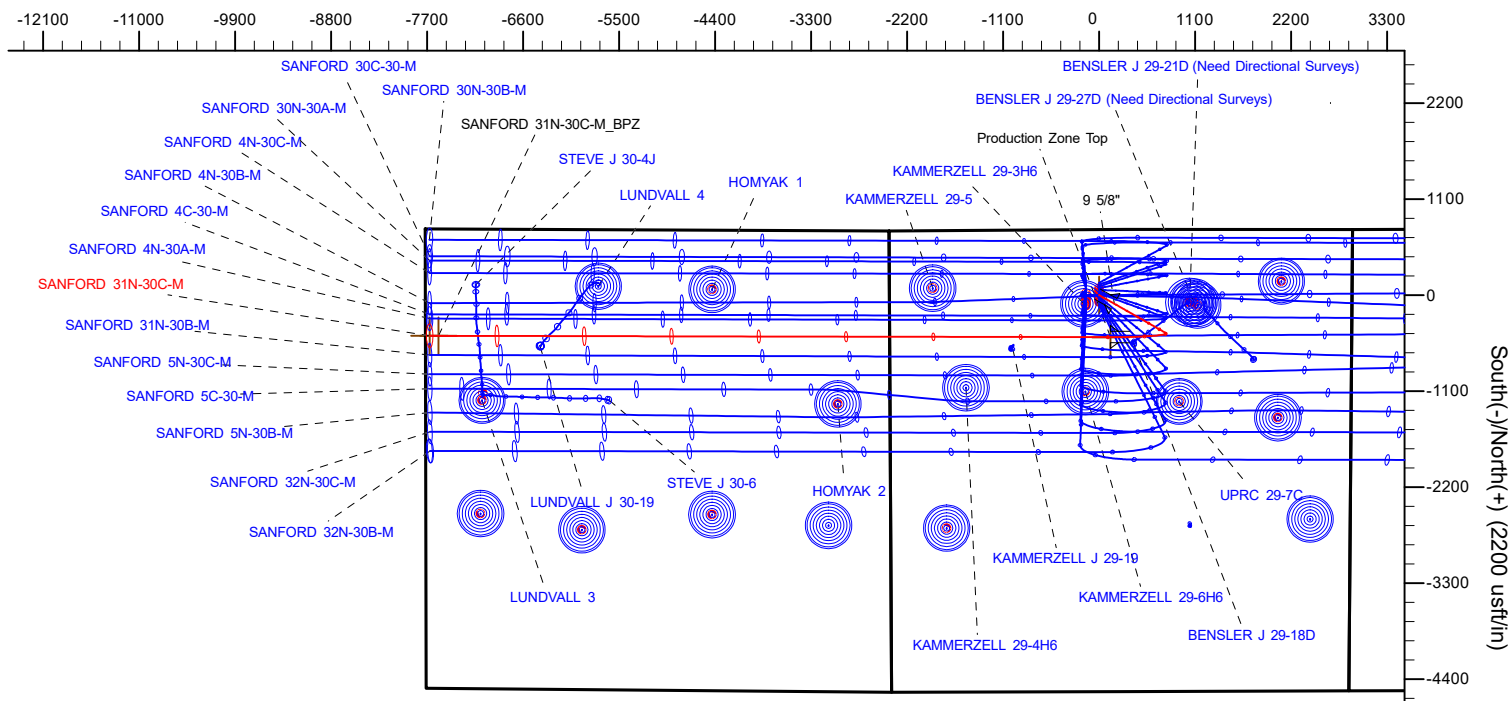
SHL
751' FNL
2393' FWL

LP
1235' FNL
2514' FWL
40.374368° Lat
-104.803906° Long

BPZ
1225' FNL
150' FWL

BHL
1225' FNL
50' FWL

West(-)/East(+) (2200 usft/in)



T Azimuths to True North
M Magnetic North: 8.09°
Magnetic Field
Strength: 52221.9snT
Dip Angle: 66.79°
Date: 10/20/2018
Model: IGRF2015

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 31N-30C-M	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 31N-30C-M			
Well Position	+N/-S	-139.17 usft	Northing:	1,380,465.63 usft
	+E/-W	151.01 usft	Easting:	3,193,807.08 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Latitude: 40.375693
				Longitude: -104.804372
				Ground Level: 4,904.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/20/2018	8.09	66.79	52,221.87800898

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	266.52

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	15,471.14	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2
				Fixed:v2:Rockies, crustal dec +

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	
607.00	8.14	119.60	605.63	-14.26	25.10	2.00	2.00	0.00	119.60	
6,591.35	8.14	119.60	6,529.69	-432.79	761.85	0.00	0.00	0.00	0.00	
7,670.18	90.01	270.11	7,243.00	-481.82	129.83	9.00	7.59	13.95	150.26	
15,471.14	90.01	270.11	7,241.00	-466.92	-7,671.12	0.00	0.00	0.00	0.00	SANFORD 31N-30C-M

Hewlett-Packard

Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 31N-30C-M	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	119.60	299.98	-0.86	1.52	-1.46	2.00	2.00	0.00
400.00	4.00	119.60	399.84	-3.45	6.07	-5.85	2.00	2.00	0.00
500.00	6.00	119.60	499.45	-7.75	13.65	-13.15	2.00	2.00	0.00
600.00	8.00	119.60	598.70	-13.77	24.24	-23.36	2.00	2.00	0.00
607.00	8.14	119.60	605.63	-14.26	25.10	-24.18	2.00	2.00	0.00
Hold Tangent @ 607.00ft									
700.00	8.14	119.60	697.70	-20.76	36.55	-35.22	0.00	0.00	0.00
800.00	8.14	119.60	796.69	-27.75	48.86	-47.08	0.00	0.00	0.00
900.00	8.14	119.60	895.68	-34.75	61.17	-58.94	0.00	0.00	0.00
1,000.00	8.14	119.60	994.67	-41.74	73.48	-70.81	0.00	0.00	0.00
1,100.00	8.14	119.60	1,093.67	-48.74	85.79	-82.67	0.00	0.00	0.00
1,200.00	8.14	119.60	1,192.66	-55.73	98.10	-94.54	0.00	0.00	0.00
1,300.00	8.14	119.60	1,291.65	-62.72	110.41	-106.40	0.00	0.00	0.00
1,400.00	8.14	119.60	1,390.64	-69.72	122.73	-118.26	0.00	0.00	0.00
1,500.00	8.14	119.60	1,489.64	-76.71	135.04	-130.13	0.00	0.00	0.00
1,600.00	8.14	119.60	1,588.63	-83.71	147.35	-141.99	0.00	0.00	0.00
1,700.00	8.14	119.60	1,687.62	-90.70	159.66	-153.85	0.00	0.00	0.00
1,800.00	8.14	119.60	1,786.61	-97.69	171.97	-165.72	0.00	0.00	0.00
1,813.52	8.14	119.60	1,800.00	-98.64	173.64	-167.32	0.00	0.00	0.00
9 5/8"									
1,900.00	8.14	119.60	1,885.61	-104.69	184.28	-177.58	0.00	0.00	0.00
2,000.00	8.14	119.60	1,984.60	-111.68	196.59	-189.45	0.00	0.00	0.00
2,100.00	8.14	119.60	2,083.59	-118.67	208.90	-201.31	0.00	0.00	0.00
2,200.00	8.14	119.60	2,182.58	-125.67	221.22	-213.17	0.00	0.00	0.00
2,300.00	8.14	119.60	2,281.58	-132.66	233.53	-225.04	0.00	0.00	0.00
2,400.00	8.14	119.60	2,380.57	-139.66	245.84	-236.90	0.00	0.00	0.00
2,500.00	8.14	119.60	2,479.56	-146.65	258.15	-248.76	0.00	0.00	0.00
2,600.00	8.14	119.60	2,578.55	-153.64	270.46	-260.63	0.00	0.00	0.00
2,700.00	8.14	119.60	2,677.55	-160.64	282.77	-272.49	0.00	0.00	0.00
2,800.00	8.14	119.60	2,776.54	-167.63	295.08	-284.36	0.00	0.00	0.00
2,900.00	8.14	119.60	2,875.53	-174.63	307.40	-296.22	0.00	0.00	0.00
3,000.00	8.14	119.60	2,974.52	-181.62	319.71	-308.08	0.00	0.00	0.00
3,100.00	8.14	119.60	3,073.52	-188.61	332.02	-319.95	0.00	0.00	0.00
3,200.00	8.14	119.60	3,172.51	-195.61	344.33	-331.81	0.00	0.00	0.00
3,300.00	8.14	119.60	3,271.50	-202.60	356.64	-343.68	0.00	0.00	0.00
3,400.00	8.14	119.60	3,370.49	-209.59	368.95	-355.54	0.00	0.00	0.00
3,500.00	8.14	119.60	3,469.49	-216.59	381.26	-367.40	0.00	0.00	0.00
3,600.00	8.14	119.60	3,568.48	-223.58	393.58	-379.27	0.00	0.00	0.00
3,700.00	8.14	119.60	3,667.47	-230.58	405.89	-391.13	0.00	0.00	0.00
3,800.00	8.14	119.60	3,766.46	-237.57	418.20	-402.99	0.00	0.00	0.00
3,900.00	8.14	119.60	3,865.46	-244.56	430.51	-414.86	0.00	0.00	0.00
4,000.00	8.14	119.60	3,964.45	-251.56	442.82	-426.72	0.00	0.00	0.00
4,100.00	8.14	119.60	4,063.44	-258.55	455.13	-438.59	0.00	0.00	0.00
4,200.00	8.14	119.60	4,162.43	-265.55	467.44	-450.45	0.00	0.00	0.00
4,300.00	8.14	119.60	4,261.43	-272.54	479.76	-462.31	0.00	0.00	0.00
4,400.00	8.14	119.60	4,360.42	-279.53	492.07	-474.18	0.00	0.00	0.00
4,500.00	8.14	119.60	4,459.41	-286.53	504.38	-486.04	0.00	0.00	0.00
4,600.00	8.14	119.60	4,558.40	-293.52	516.69	-497.90	0.00	0.00	0.00
4,700.00	8.14	119.60	4,657.40	-300.51	529.00	-509.77	0.00	0.00	0.00

Hewlett-Packard

Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 31N-30C-M	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	8.14	119.60	4,756.39	-307.51	541.31	-521.63	0.00	0.00	0.00
4,900.00	8.14	119.60	4,855.38	-314.50	553.62	-533.50	0.00	0.00	0.00
5,000.00	8.14	119.60	4,954.37	-321.50	565.94	-545.36	0.00	0.00	0.00
5,100.00	8.14	119.60	5,053.37	-328.49	578.25	-557.22	0.00	0.00	0.00
5,200.00	8.14	119.60	5,152.36	-335.48	590.56	-569.09	0.00	0.00	0.00
5,300.00	8.14	119.60	5,251.35	-342.48	602.87	-580.95	0.00	0.00	0.00
5,400.00	8.14	119.60	5,350.34	-349.47	615.18	-592.81	0.00	0.00	0.00
5,500.00	8.14	119.60	5,449.34	-356.47	627.49	-604.68	0.00	0.00	0.00
5,600.00	8.14	119.60	5,548.33	-363.46	639.80	-616.54	0.00	0.00	0.00
5,700.00	8.14	119.60	5,647.32	-370.45	652.11	-628.41	0.00	0.00	0.00
5,800.00	8.14	119.60	5,746.31	-377.45	664.43	-640.27	0.00	0.00	0.00
5,900.00	8.14	119.60	5,845.31	-384.44	676.74	-652.13	0.00	0.00	0.00
6,000.00	8.14	119.60	5,944.30	-391.43	689.05	-664.00	0.00	0.00	0.00
6,100.00	8.14	119.60	6,043.29	-398.43	701.36	-675.86	0.00	0.00	0.00
6,200.00	8.14	119.60	6,142.28	-405.42	713.67	-687.73	0.00	0.00	0.00
6,300.00	8.14	119.60	6,241.28	-412.42	725.98	-699.59	0.00	0.00	0.00
6,400.00	8.14	119.60	6,340.27	-419.41	738.29	-711.45	0.00	0.00	0.00
6,500.00	8.14	119.60	6,439.26	-426.40	750.61	-723.32	0.00	0.00	0.00
6,591.35	8.14	119.60	6,529.69	-432.79	761.85	-734.15	0.00	0.00	0.00
KOP @ 6591.35ft :: DLS = 9°/100'									
6,600.00	7.47	122.57	6,538.26	-433.40	762.86	-735.12	9.00	-7.70	34.34
6,700.00	4.85	213.98	6,637.86	-440.42	765.99	-737.82	9.00	-2.63	91.41
6,800.00	12.36	251.37	6,736.73	-447.35	753.45	-724.89	9.00	7.52	37.40
6,900.00	21.07	259.58	6,832.42	-454.04	725.57	-696.65	9.00	8.71	8.21
7,000.00	29.95	263.09	6,922.59	-460.31	683.03	-653.80	9.00	8.88	3.51
7,100.00	38.88	265.10	7,005.01	-466.01	626.87	-597.40	9.00	8.93	2.01
7,200.00	47.83	266.45	7,077.65	-470.99	558.47	-528.83	9.00	8.95	1.35
7,300.00	56.79	267.47	7,138.73	-475.14	479.53	-449.78	9.00	8.96	1.02
7,400.00	65.76	268.29	7,186.74	-478.36	391.99	-362.20	9.00	8.97	0.83
7,500.00	74.74	269.01	7,220.49	-480.56	297.99	-268.25	9.00	8.97	0.72
7,600.00	83.71	269.66	7,239.17	-481.69	199.86	-170.23	9.00	8.98	0.66
7,670.17	90.01	270.11	7,243.00	-481.82	129.83	-100.32	9.00	8.98	0.63
End Build @ 7670.17ft - Production Zone Top									
7,700.00	90.01	270.11	7,243.00	-481.77	100.00	-70.55	0.00	0.00	0.00
7,800.00	90.01	270.11	7,242.97	-481.58	0.00	29.25	0.00	0.00	0.00
7,900.00	90.01	270.11	7,242.95	-481.39	-100.00	129.06	0.00	0.00	0.00
8,000.00	90.01	270.11	7,242.92	-481.19	-200.00	228.86	0.00	0.00	0.00
8,100.00	90.01	270.11	7,242.89	-481.00	-300.00	328.66	0.00	0.00	0.00
8,200.00	90.01	270.11	7,242.87	-480.81	-400.00	428.47	0.00	0.00	0.00
8,300.00	90.01	270.11	7,242.84	-480.62	-500.00	528.27	0.00	0.00	0.00
8,400.00	90.01	270.11	7,242.82	-480.43	-600.00	628.07	0.00	0.00	0.00
8,500.00	90.01	270.11	7,242.79	-480.24	-700.00	727.88	0.00	0.00	0.00
8,600.00	90.01	270.11	7,242.77	-480.05	-800.00	827.68	0.00	0.00	0.00
8,700.00	90.01	270.11	7,242.74	-479.86	-900.00	927.48	0.00	0.00	0.00
8,800.00	90.01	270.11	7,242.71	-479.67	-1,000.00	1,027.29	0.00	0.00	0.00
8,900.00	90.01	270.11	7,242.69	-479.47	-1,099.99	1,127.09	0.00	0.00	0.00
9,000.00	90.01	270.11	7,242.66	-479.28	-1,199.99	1,226.89	0.00	0.00	0.00
9,100.00	90.01	270.11	7,242.64	-479.09	-1,299.99	1,326.70	0.00	0.00	0.00
9,200.00	90.01	270.11	7,242.61	-478.90	-1,399.99	1,426.50	0.00	0.00	0.00
9,300.00	90.01	270.11	7,242.59	-478.71	-1,499.99	1,526.30	0.00	0.00	0.00
9,400.00	90.01	270.11	7,242.56	-478.52	-1,599.99	1,626.11	0.00	0.00	0.00
9,500.00	90.01	270.11	7,242.53	-478.33	-1,699.99	1,725.91	0.00	0.00	0.00
9,600.00	90.01	270.11	7,242.51	-478.14	-1,799.99	1,825.72	0.00	0.00	0.00
9,700.00	90.01	270.11	7,242.48	-477.95	-1,899.99	1,925.52	0.00	0.00	0.00

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Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
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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	90.01	270.11	7,242.46	-477.75	-1,999.99	2,025.32	0.00	0.00	0.00	
9,900.00	90.01	270.11	7,242.43	-477.56	-2,099.99	2,125.13	0.00	0.00	0.00	
10,000.00	90.01	270.11	7,242.41	-477.37	-2,199.99	2,224.93	0.00	0.00	0.00	
10,100.00	90.01	270.11	7,242.38	-477.18	-2,299.99	2,324.73	0.00	0.00	0.00	
10,200.00	90.01	270.11	7,242.35	-476.99	-2,399.99	2,424.54	0.00	0.00	0.00	
10,300.00	90.01	270.11	7,242.33	-476.80	-2,499.99	2,524.34	0.00	0.00	0.00	
10,400.00	90.01	270.11	7,242.30	-476.61	-2,599.99	2,624.14	0.00	0.00	0.00	
10,500.00	90.01	270.11	7,242.28	-476.42	-2,699.99	2,723.95	0.00	0.00	0.00	
10,600.00	90.01	270.11	7,242.25	-476.23	-2,799.99	2,823.75	0.00	0.00	0.00	
10,700.00	90.01	270.11	7,242.23	-476.04	-2,899.99	2,923.55	0.00	0.00	0.00	
10,800.00	90.01	270.11	7,242.20	-475.84	-2,999.99	3,023.36	0.00	0.00	0.00	
10,900.00	90.01	270.11	7,242.17	-475.65	-3,099.99	3,123.16	0.00	0.00	0.00	
11,000.00	90.01	270.11	7,242.15	-475.46	-3,199.99	3,222.96	0.00	0.00	0.00	
11,100.00	90.01	270.11	7,242.12	-475.27	-3,299.99	3,322.77	0.00	0.00	0.00	
11,200.00	90.01	270.11	7,242.10	-475.08	-3,399.99	3,422.57	0.00	0.00	0.00	
11,300.00	90.01	270.11	7,242.07	-474.89	-3,499.99	3,522.37	0.00	0.00	0.00	
11,400.00	90.01	270.11	7,242.05	-474.70	-3,599.99	3,622.18	0.00	0.00	0.00	
11,500.00	90.01	270.11	7,242.02	-474.51	-3,699.99	3,721.98	0.00	0.00	0.00	
11,600.00	90.01	270.11	7,241.99	-474.32	-3,799.99	3,821.79	0.00	0.00	0.00	
11,700.00	90.01	270.11	7,241.97	-474.12	-3,899.99	3,921.59	0.00	0.00	0.00	
11,800.00	90.01	270.11	7,241.94	-473.93	-3,999.99	4,021.39	0.00	0.00	0.00	
11,900.00	90.01	270.11	7,241.92	-473.74	-4,099.99	4,121.20	0.00	0.00	0.00	
12,000.00	90.01	270.11	7,241.89	-473.55	-4,199.99	4,221.00	0.00	0.00	0.00	
12,100.00	90.01	270.11	7,241.87	-473.36	-4,299.99	4,320.80	0.00	0.00	0.00	
12,200.00	90.01	270.11	7,241.84	-473.17	-4,399.99	4,420.61	0.00	0.00	0.00	
12,300.00	90.01	270.11	7,241.82	-472.98	-4,499.99	4,520.41	0.00	0.00	0.00	
12,400.00	90.01	270.11	7,241.79	-472.79	-4,599.99	4,620.21	0.00	0.00	0.00	
12,500.00	90.01	270.11	7,241.76	-472.60	-4,699.99	4,720.02	0.00	0.00	0.00	
12,600.00	90.01	270.11	7,241.74	-472.41	-4,799.99	4,819.82	0.00	0.00	0.00	
12,700.00	90.01	270.11	7,241.71	-472.21	-4,899.99	4,919.62	0.00	0.00	0.00	
12,800.00	90.01	270.11	7,241.69	-472.02	-4,999.99	5,019.43	0.00	0.00	0.00	
12,900.00	90.01	270.11	7,241.66	-471.83	-5,099.99	5,119.23	0.00	0.00	0.00	
13,000.00	90.01	270.11	7,241.64	-471.64	-5,199.99	5,219.03	0.00	0.00	0.00	
13,100.00	90.01	270.11	7,241.61	-471.45	-5,299.99	5,318.84	0.00	0.00	0.00	
13,200.00	90.01	270.11	7,241.58	-471.26	-5,399.99	5,418.64	0.00	0.00	0.00	
13,300.00	90.01	270.11	7,241.56	-471.07	-5,499.99	5,518.45	0.00	0.00	0.00	
13,400.00	90.01	270.11	7,241.53	-470.88	-5,599.99	5,618.25	0.00	0.00	0.00	
13,500.00	90.01	270.11	7,241.51	-470.69	-5,699.99	5,718.05	0.00	0.00	0.00	
13,600.00	90.01	270.11	7,241.48	-470.49	-5,799.99	5,817.86	0.00	0.00	0.00	
13,700.00	90.01	270.11	7,241.46	-470.30	-5,899.99	5,917.66	0.00	0.00	0.00	
13,800.00	90.01	270.11	7,241.43	-470.11	-5,999.99	6,017.46	0.00	0.00	0.00	
13,900.00	90.01	270.11	7,241.40	-469.92	-6,099.99	6,117.27	0.00	0.00	0.00	
14,000.00	90.01	270.11	7,241.38	-469.73	-6,199.99	6,217.07	0.00	0.00	0.00	
14,100.00	90.01	270.11	7,241.35	-469.54	-6,299.99	6,316.87	0.00	0.00	0.00	
14,200.00	90.01	270.11	7,241.33	-469.35	-6,399.99	6,416.68	0.00	0.00	0.00	
14,300.00	90.01	270.11	7,241.30	-469.16	-6,499.98	6,516.48	0.00	0.00	0.00	
14,400.00	90.01	270.11	7,241.28	-468.97	-6,599.98	6,616.28	0.00	0.00	0.00	
14,500.00	90.01	270.11	7,241.25	-468.78	-6,699.98	6,716.09	0.00	0.00	0.00	
14,600.00	90.01	270.11	7,241.22	-468.58	-6,799.98	6,815.89	0.00	0.00	0.00	
14,700.00	90.01	270.11	7,241.20	-468.39	-6,899.98	6,915.69	0.00	0.00	0.00	
14,800.00	90.01	270.11	7,241.17	-468.20	-6,999.98	7,015.50	0.00	0.00	0.00	
14,900.00	90.01	270.11	7,241.15	-468.01	-7,099.98	7,115.30	0.00	0.00	0.00	
15,000.00	90.01	270.11	7,241.12	-467.82	-7,199.98	7,215.11	0.00	0.00	0.00	
15,100.00	90.01	270.11	7,241.10	-467.63	-7,299.98	7,314.91	0.00	0.00	0.00	

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well SANFORD 31N-30C-M
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4908.00usft (RIG)
Site:	5N-66W-29 SANFORD 21-29 PAD	North Reference:	True
Well:	SANFORD 31N-30C-M	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)	
15,200.00	90.01	270.11	7,241.07	-467.44	-7,399.98	7,414.71	0.00	0.00	0.00	
15,300.00	90.01	270.11	7,241.04	-467.25	-7,499.98	7,514.52	0.00	0.00	0.00	
15,400.00	90.01	270.11	7,241.02	-467.06	-7,599.98	7,614.32	0.00	0.00	0.00	
15,471.14	90.01	270.11	7,241.00	-466.92	-7,671.12	7,685.32	0.00	0.00	0.00	
TD Well @ 15471.14ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,813.52	1,800.00	9 5/8"	9-5/8	13-1/2	
7,670.17	7,243.00	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	
607.00	605.63	-14.26	25.10	Hold Tangent @ 607.00ft	
6,591.35	6,529.69	-432.79	761.85	KOP @ 6591.35ft :: DLS = 9°/100'	
7,670.18	7,243.00	-481.82	129.83	End Build @ 7670.17ft	
15,471.14	7,241.00	-466.92	-7,671.12	TD Well @ 15471.14ft	