

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

5N-66W-05 VOLT 19-5 PAD

VOLT 36N-3B-L

Wellbore #1

Plan: Design #1

Standard Planning Report

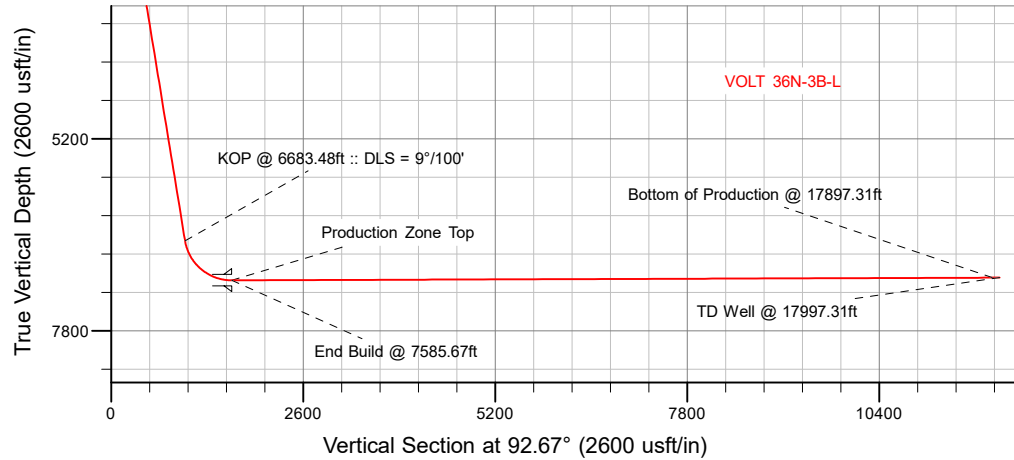
18 November, 2018

Project: WELD COUNTY (NAD83, TRUE NORTH)
Site: 5N-66W-05 VOLT 19-5 PAD
Well: VOLT 36N-3B-L
Wellbore: Wellbore #1
Design: Design #1

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1821.01	9 5/8"
7117.00	7585.67	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	721.00	10.42	119.85	718.13	-23.52	40.98	2.00	119.85	42.03	
4	6683.48	10.42	119.85	6582.28	-560.26	976.30	0.00	0.00	1001.36	
5	7585.67	90.20	89.75	7117.00	-606.97	1607.50	9.00	-30.50	1634.05	
6	17897.31	90.20	89.75	7081.00	-561.41	11918.98	0.00	0.00	11932.19	VOLT 36N-3B-L_BPZ
7	17997.31	90.20	89.75	7080.65	-560.97	12018.98	0.00	0.00	12032.06	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VOLT 36N-3B-L_SHL	0.00	0.00	0.00	40.424562	-104.809017
VOLT 36N-3B-L_BHL	7080.65	-560.97	12018.98	40.423014	-104.765848
VOLT 36N-3B-L_BPZ	7081.00	-561.41	11918.98	40.423013	-104.766207

SHL
1175' FSL
1127' FWL

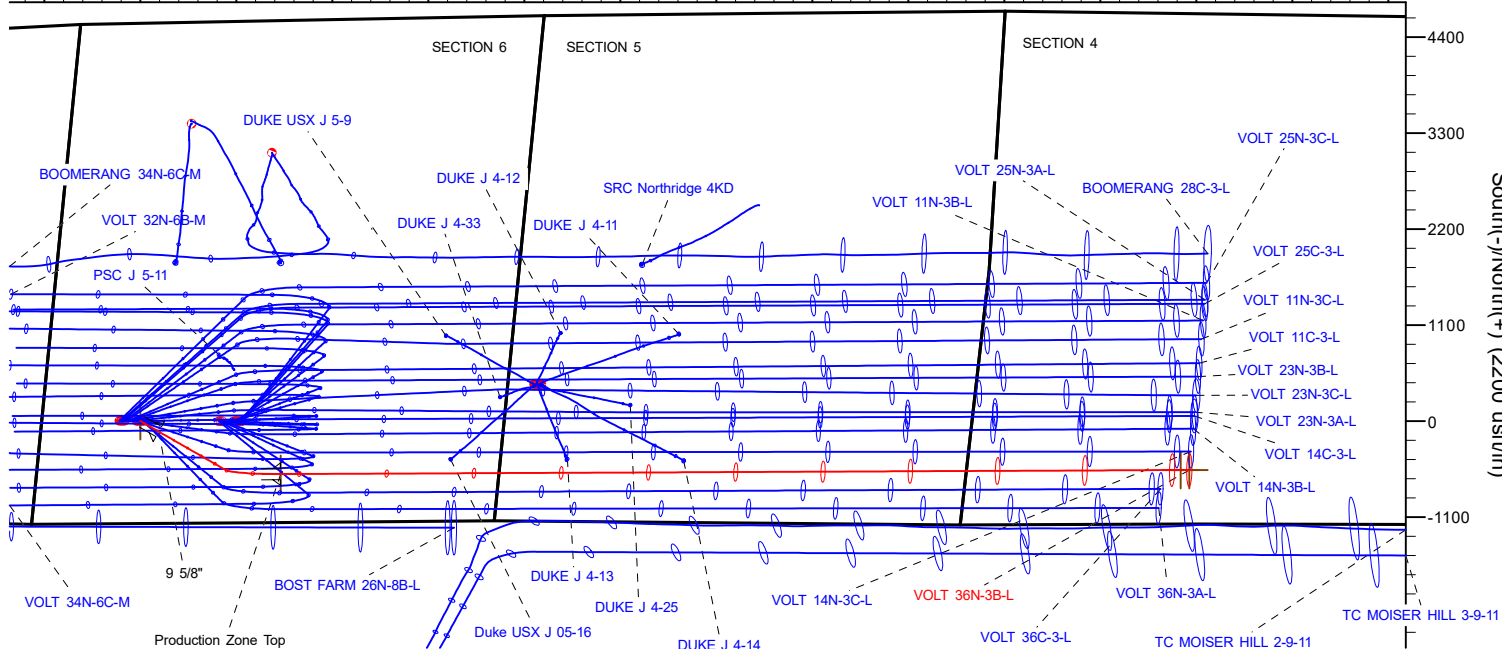
LP
557' FSL
2486' FEL
40.422897° Lat
-104.803240° Long

BPZ
620' FSL
2438' FWL

BHL
620' FSL
2538' FWL

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

-1100 0 1100 2200 3300 4400 5500 6600 7700 8800 9900 11000 12100 13200 14300



WELL DETAILS: VOLT 36N-3B-L

GL = 4813'
RKB = 4' @ 4817.00usft (IKON 12)

Plan: Design #1 (VOLT 36N-3B-L/Wellbore #1)

Date: 11/18/2018

T Azimuths to True North
M Magnetic North: 8.09°
Magnetic Field
Strength: 52243.4snT
Dip Angle: 66.83°
Date: 11/2/2018
Model: IGRF2015

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 36N-3B-L
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 36N-3B-L	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-05 VOLT 19-5 PAD			
Site Position:		Northing:	1,398,257.75 usft	Latitude:	40.424567
From:	Lat/Long	Easting:	3,192,134.26 usft	Longitude:	-104.809879
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	VOLT 36N-3B-L					
Well Position	+N/-S	-1.83 usft	Northing:	1,398,257.79 usft	Latitude:	40.424562
	+E/-W	239.99 usft	Easting:	3,192,374.25 usft	Longitude:	-104.809017
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,813.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/2/2018	8.09	66.83	52,243.35463752

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	92.67	

Plan Survey Tool Program	Date	11/18/2018			
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	17,997.31	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2	
				Fixed:v2:Rockies, crustal dec +	

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Well:	VOLT 36N-3B-L	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	
721.00	10.42	119.85	718.13	-23.52	40.98	2.00	2.00	0.00	119.85	
6,683.48	10.42	119.85	6,582.28	-560.26	976.30	0.00	0.00	0.00	0.00	
7,585.67	90.20	89.75	7,117.00	-606.97	1,607.50	9.00	8.84	-3.34	-30.50	
17,897.31	90.20	89.75	7,081.00	-561.41	11,918.98	0.00	0.00	0.00	0.00	VOLT 36N-3B-L_BPZ
17,997.31	90.20	89.75	7,080.65	-560.97	12,018.98	0.00	0.00	0.00	0.00	

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Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 36N-3B-L	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	119.85	299.98	-0.87	1.51	1.55	2.00	2.00	0.00
400.00	4.00	119.85	399.84	-3.47	6.05	6.21	2.00	2.00	0.00
500.00	6.00	119.85	499.45	-7.81	13.61	13.96	2.00	2.00	0.00
600.00	8.00	119.85	598.70	-13.88	24.18	24.80	2.00	2.00	0.00
700.00	10.00	119.85	697.47	-21.66	37.75	38.72	2.00	2.00	0.00
721.00	10.42	119.85	718.13	-23.52	40.98	42.03	2.00	2.00	0.00
Hold Tangent @ 721.00ft									
800.00	10.42	119.85	795.83	-30.63	53.37	54.74	0.00	0.00	0.00
900.00	10.42	119.85	894.18	-39.63	69.06	70.83	0.00	0.00	0.00
1,000.00	10.42	119.85	992.53	-48.63	84.74	86.92	0.00	0.00	0.00
1,100.00	10.42	119.85	1,090.88	-57.63	100.43	103.01	0.00	0.00	0.00
1,200.00	10.42	119.85	1,189.23	-66.64	116.12	119.10	0.00	0.00	0.00
1,300.00	10.42	119.85	1,287.58	-75.64	131.80	135.19	0.00	0.00	0.00
1,400.00	10.42	119.85	1,385.94	-84.64	147.49	151.28	0.00	0.00	0.00
1,500.00	10.42	119.85	1,484.29	-93.64	163.18	167.37	0.00	0.00	0.00
1,600.00	10.42	119.85	1,582.64	-102.64	178.86	183.45	0.00	0.00	0.00
1,700.00	10.42	119.85	1,680.99	-111.65	194.55	199.54	0.00	0.00	0.00
1,800.00	10.42	119.85	1,779.34	-120.65	210.24	215.63	0.00	0.00	0.00
1,821.01	10.42	119.85	1,800.00	-122.54	213.53	219.01	0.00	0.00	0.00
9 5/8"									
1,900.00	10.42	119.85	1,877.69	-129.65	225.92	231.72	0.00	0.00	0.00
2,000.00	10.42	119.85	1,976.04	-138.65	241.61	247.81	0.00	0.00	0.00
2,100.00	10.42	119.85	2,074.39	-147.65	257.30	263.90	0.00	0.00	0.00
2,200.00	10.42	119.85	2,172.74	-156.66	272.98	279.99	0.00	0.00	0.00
2,300.00	10.42	119.85	2,271.09	-165.66	288.67	296.08	0.00	0.00	0.00
2,400.00	10.42	119.85	2,369.44	-174.66	304.36	312.17	0.00	0.00	0.00
2,500.00	10.42	119.85	2,467.79	-183.66	320.04	328.26	0.00	0.00	0.00
2,600.00	10.42	119.85	2,566.15	-192.66	335.73	344.35	0.00	0.00	0.00
2,700.00	10.42	119.85	2,664.50	-201.67	351.42	360.44	0.00	0.00	0.00
2,800.00	10.42	119.85	2,762.85	-210.67	367.10	376.53	0.00	0.00	0.00
2,900.00	10.42	119.85	2,861.20	-219.67	382.79	392.62	0.00	0.00	0.00
3,000.00	10.42	119.85	2,959.55	-228.67	398.48	408.71	0.00	0.00	0.00
3,100.00	10.42	119.85	3,057.90	-237.67	414.17	424.80	0.00	0.00	0.00
3,200.00	10.42	119.85	3,156.25	-246.68	429.85	440.89	0.00	0.00	0.00
3,300.00	10.42	119.85	3,254.60	-255.68	445.54	456.97	0.00	0.00	0.00
3,400.00	10.42	119.85	3,352.95	-264.68	461.23	473.06	0.00	0.00	0.00
3,500.00	10.42	119.85	3,451.30	-273.68	476.91	489.15	0.00	0.00	0.00
3,600.00	10.42	119.85	3,549.65	-282.69	492.60	505.24	0.00	0.00	0.00
3,700.00	10.42	119.85	3,648.00	-291.69	508.29	521.33	0.00	0.00	0.00
3,800.00	10.42	119.85	3,746.36	-300.69	523.97	537.42	0.00	0.00	0.00
3,900.00	10.42	119.85	3,844.71	-309.69	539.66	553.51	0.00	0.00	0.00
4,000.00	10.42	119.85	3,943.06	-318.69	555.35	569.60	0.00	0.00	0.00
4,100.00	10.42	119.85	4,041.41	-327.70	571.03	585.69	0.00	0.00	0.00
4,200.00	10.42	119.85	4,139.76	-336.70	586.72	601.78	0.00	0.00	0.00
4,300.00	10.42	119.85	4,238.11	-345.70	602.41	617.87	0.00	0.00	0.00
4,400.00	10.42	119.85	4,336.46	-354.70	618.09	633.96	0.00	0.00	0.00
4,500.00	10.42	119.85	4,434.81	-363.70	633.78	650.05	0.00	0.00	0.00
4,600.00	10.42	119.85	4,533.16	-372.71	649.47	666.14	0.00	0.00	0.00
4,700.00	10.42	119.85	4,631.51	-381.71	665.15	682.23	0.00	0.00	0.00

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Well:	VOLT 36N-3B-L	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	10.42	119.85	4,729.86	-390.71	680.84	698.32	0.00	0.00	0.00
4,900.00	10.42	119.85	4,828.21	-399.71	696.53	714.41	0.00	0.00	0.00
5,000.00	10.42	119.85	4,926.57	-408.71	712.21	730.49	0.00	0.00	0.00
5,100.00	10.42	119.85	5,024.92	-417.72	727.90	746.58	0.00	0.00	0.00
5,200.00	10.42	119.85	5,123.27	-426.72	743.59	762.67	0.00	0.00	0.00
5,300.00	10.42	119.85	5,221.62	-435.72	759.27	778.76	0.00	0.00	0.00
5,400.00	10.42	119.85	5,319.97	-444.72	774.96	794.85	0.00	0.00	0.00
5,500.00	10.42	119.85	5,418.32	-453.72	790.65	810.94	0.00	0.00	0.00
5,600.00	10.42	119.85	5,516.67	-462.73	806.33	827.03	0.00	0.00	0.00
5,700.00	10.42	119.85	5,615.02	-471.73	822.02	843.12	0.00	0.00	0.00
5,800.00	10.42	119.85	5,713.37	-480.73	837.71	859.21	0.00	0.00	0.00
5,900.00	10.42	119.85	5,811.72	-489.73	853.39	875.30	0.00	0.00	0.00
6,000.00	10.42	119.85	5,910.07	-498.74	869.08	891.39	0.00	0.00	0.00
6,100.00	10.42	119.85	6,008.42	-507.74	884.77	907.48	0.00	0.00	0.00
6,200.00	10.42	119.85	6,106.78	-516.74	900.46	923.57	0.00	0.00	0.00
6,300.00	10.42	119.85	6,205.13	-525.74	916.14	939.66	0.00	0.00	0.00
6,400.00	10.42	119.85	6,303.48	-534.74	931.83	955.75	0.00	0.00	0.00
6,500.00	10.42	119.85	6,401.83	-543.75	947.52	971.84	0.00	0.00	0.00
6,600.00	10.42	119.85	6,500.18	-552.75	963.20	987.93	0.00	0.00	0.00
6,683.48	10.42	119.85	6,582.28	-560.26	976.30	1,001.36	0.00	0.00	0.00
KOP @ 6683.48ft :: DLS = 9°/100'									
6,700.00	11.73	116.13	6,598.49	-561.75	979.10	1,004.23	9.00	7.90	-22.49
6,800.00	20.16	104.30	6,694.58	-570.50	1,004.98	1,030.48	9.00	8.44	-11.83
6,900.00	28.93	99.36	6,785.47	-578.71	1,045.63	1,071.47	9.00	8.77	-4.94
7,000.00	37.80	96.59	6,868.90	-586.18	1,100.05	1,126.18	9.00	8.87	-2.78
7,100.00	46.72	94.75	6,942.84	-592.72	1,166.91	1,193.28	9.00	8.91	-1.84
7,200.00	55.66	93.38	7,005.45	-598.17	1,244.56	1,271.09	9.00	8.94	-1.37
7,300.00	64.61	92.27	7,055.21	-602.41	1,331.08	1,357.72	9.00	8.95	-1.10
7,400.00	73.56	91.32	7,090.87	-605.31	1,424.35	1,451.02	9.00	8.96	-0.95
7,500.00	82.52	90.46	7,111.57	-606.82	1,522.07	1,548.70	9.00	8.96	-0.87
7,585.67	90.20	89.75	7,117.00	-606.97	1,607.50	1,634.05	9.00	8.96	-0.83
End Build @ 7585.67ft - Production Zone Top									
7,600.00	90.20	89.75	7,116.95	-606.91	1,621.83	1,648.36	0.00	0.00	0.00
7,700.00	90.20	89.75	7,116.60	-606.46	1,721.83	1,748.23	0.00	0.00	0.00
7,800.00	90.20	89.75	7,116.25	-606.02	1,821.83	1,848.10	0.00	0.00	0.00
7,900.00	90.20	89.75	7,115.90	-605.58	1,921.83	1,947.97	0.00	0.00	0.00
8,000.00	90.20	89.75	7,115.55	-605.14	2,021.82	2,047.84	0.00	0.00	0.00
8,100.00	90.20	89.75	7,115.21	-604.70	2,121.82	2,147.71	0.00	0.00	0.00
8,200.00	90.20	89.75	7,114.86	-604.26	2,221.82	2,247.58	0.00	0.00	0.00
8,300.00	90.20	89.75	7,114.51	-603.81	2,321.82	2,347.45	0.00	0.00	0.00
8,400.00	90.20	89.75	7,114.16	-603.37	2,421.82	2,447.32	0.00	0.00	0.00
8,500.00	90.20	89.75	7,113.81	-602.93	2,521.82	2,547.18	0.00	0.00	0.00
8,600.00	90.20	89.75	7,113.46	-602.49	2,621.81	2,647.05	0.00	0.00	0.00
8,700.00	90.20	89.75	7,113.11	-602.05	2,721.81	2,746.92	0.00	0.00	0.00
8,800.00	90.20	89.75	7,112.76	-601.60	2,821.81	2,846.79	0.00	0.00	0.00
8,900.00	90.20	89.75	7,112.41	-601.16	2,921.81	2,946.66	0.00	0.00	0.00
9,000.00	90.20	89.75	7,112.06	-600.72	3,021.81	3,046.53	0.00	0.00	0.00
9,100.00	90.20	89.75	7,111.71	-600.28	3,121.81	3,146.40	0.00	0.00	0.00
9,200.00	90.20	89.75	7,111.37	-599.84	3,221.80	3,246.27	0.00	0.00	0.00
9,300.00	90.20	89.75	7,111.02	-599.40	3,321.80	3,346.14	0.00	0.00	0.00
9,400.00	90.20	89.75	7,110.67	-598.95	3,421.80	3,446.01	0.00	0.00	0.00
9,500.00	90.20	89.75	7,110.32	-598.51	3,521.80	3,545.87	0.00	0.00	0.00
9,600.00	90.20	89.75	7,109.97	-598.07	3,621.80	3,645.74	0.00	0.00	0.00
9,700.00	90.20	89.75	7,109.62	-597.63	3,721.80	3,745.61	0.00	0.00	0.00

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 36N-3B-L	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	90.20	89.75	7,109.27	-597.19	3,821.80	3,845.48	0.00	0.00	0.00	
9,900.00	90.20	89.75	7,108.92	-596.75	3,921.79	3,945.35	0.00	0.00	0.00	
10,000.00	90.20	89.75	7,108.57	-596.30	4,021.79	4,045.22	0.00	0.00	0.00	
10,100.00	90.20	89.75	7,108.22	-595.86	4,121.79	4,145.09	0.00	0.00	0.00	
10,200.00	90.20	89.75	7,107.87	-595.42	4,221.79	4,244.96	0.00	0.00	0.00	
10,300.00	90.20	89.75	7,107.52	-594.98	4,321.79	4,344.83	0.00	0.00	0.00	
10,400.00	90.20	89.75	7,107.18	-594.54	4,421.79	4,444.70	0.00	0.00	0.00	
10,500.00	90.20	89.75	7,106.83	-594.09	4,521.78	4,544.57	0.00	0.00	0.00	
10,600.00	90.20	89.75	7,106.48	-593.65	4,621.78	4,644.43	0.00	0.00	0.00	
10,700.00	90.20	89.75	7,106.13	-593.21	4,721.78	4,744.30	0.00	0.00	0.00	
10,800.00	90.20	89.75	7,105.78	-592.77	4,821.78	4,844.17	0.00	0.00	0.00	
10,900.00	90.20	89.75	7,105.43	-592.33	4,921.78	4,944.04	0.00	0.00	0.00	
11,000.00	90.20	89.75	7,105.08	-591.89	5,021.78	5,043.91	0.00	0.00	0.00	
11,100.00	90.20	89.75	7,104.73	-591.44	5,121.77	5,143.78	0.00	0.00	0.00	
11,200.00	90.20	89.75	7,104.38	-591.00	5,221.77	5,243.65	0.00	0.00	0.00	
11,300.00	90.20	89.75	7,104.03	-590.56	5,321.77	5,343.52	0.00	0.00	0.00	
11,400.00	90.20	89.75	7,103.68	-590.12	5,421.77	5,443.39	0.00	0.00	0.00	
11,500.00	90.20	89.75	7,103.34	-589.68	5,521.77	5,543.26	0.00	0.00	0.00	
11,600.00	90.20	89.75	7,102.99	-589.23	5,621.77	5,643.13	0.00	0.00	0.00	
11,700.00	90.20	89.75	7,102.64	-588.79	5,721.77	5,742.99	0.00	0.00	0.00	
11,800.00	90.20	89.75	7,102.29	-588.35	5,821.76	5,842.86	0.00	0.00	0.00	
11,900.00	90.20	89.75	7,101.94	-587.91	5,921.76	5,942.73	0.00	0.00	0.00	
12,000.00	90.20	89.75	7,101.59	-587.47	6,021.76	6,042.60	0.00	0.00	0.00	
12,100.00	90.20	89.75	7,101.24	-587.03	6,121.76	6,142.47	0.00	0.00	0.00	
12,200.00	90.20	89.75	7,100.89	-586.58	6,221.76	6,242.34	0.00	0.00	0.00	
12,300.00	90.20	89.75	7,100.54	-586.14	6,321.76	6,342.21	0.00	0.00	0.00	
12,400.00	90.20	89.75	7,100.19	-585.70	6,421.75	6,442.08	0.00	0.00	0.00	
12,500.00	90.20	89.75	7,099.84	-585.26	6,521.75	6,541.95	0.00	0.00	0.00	
12,600.00	90.20	89.75	7,099.49	-584.82	6,621.75	6,641.82	0.00	0.00	0.00	
12,700.00	90.20	89.75	7,099.15	-584.38	6,721.75	6,741.69	0.00	0.00	0.00	
12,800.00	90.20	89.75	7,098.80	-583.93	6,821.75	6,841.55	0.00	0.00	0.00	
12,900.00	90.20	89.75	7,098.45	-583.49	6,921.75	6,941.42	0.00	0.00	0.00	
13,000.00	90.20	89.75	7,098.10	-583.05	7,021.74	7,041.29	0.00	0.00	0.00	
13,100.00	90.20	89.75	7,097.75	-582.61	7,121.74	7,141.16	0.00	0.00	0.00	
13,200.00	90.20	89.75	7,097.40	-582.17	7,221.74	7,241.03	0.00	0.00	0.00	
13,300.00	90.20	89.75	7,097.05	-581.72	7,321.74	7,340.90	0.00	0.00	0.00	
13,400.00	90.20	89.75	7,096.70	-581.28	7,421.74	7,440.77	0.00	0.00	0.00	
13,500.00	90.20	89.75	7,096.35	-580.84	7,521.74	7,540.64	0.00	0.00	0.00	
13,600.00	90.20	89.75	7,096.00	-580.40	7,621.74	7,640.51	0.00	0.00	0.00	
13,700.00	90.20	89.75	7,095.65	-579.96	7,721.73	7,740.38	0.00	0.00	0.00	
13,800.00	90.20	89.75	7,095.31	-579.52	7,821.73	7,840.25	0.00	0.00	0.00	
13,900.00	90.20	89.75	7,094.96	-579.07	7,921.73	7,940.11	0.00	0.00	0.00	
14,000.00	90.20	89.75	7,094.61	-578.63	8,021.73	8,039.98	0.00	0.00	0.00	
14,100.00	90.20	89.75	7,094.26	-578.19	8,121.73	8,139.85	0.00	0.00	0.00	
14,200.00	90.20	89.75	7,093.91	-577.75	8,221.73	8,239.72	0.00	0.00	0.00	
14,300.00	90.20	89.75	7,093.56	-577.31	8,321.72	8,339.59	0.00	0.00	0.00	
14,400.00	90.20	89.75	7,093.21	-576.86	8,421.72	8,439.46	0.00	0.00	0.00	
14,500.00	90.20	89.75	7,092.86	-576.42	8,521.72	8,539.33	0.00	0.00	0.00	
14,600.00	90.20	89.75	7,092.51	-575.98	8,621.72	8,639.20	0.00	0.00	0.00	
14,700.00	90.20	89.75	7,092.16	-575.54	8,721.72	8,739.07	0.00	0.00	0.00	
14,800.00	90.20	89.75	7,091.81	-575.10	8,821.72	8,838.94	0.00	0.00	0.00	
14,900.00	90.20	89.75	7,091.46	-574.66	8,921.71	8,938.80	0.00	0.00	0.00	
15,000.00	90.20	89.75	7,091.12	-574.21	9,021.71	9,038.67	0.00	0.00	0.00	
15,100.00	90.20	89.75	7,090.77	-573.77	9,121.71	9,138.54	0.00	0.00	0.00	

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 36N-3B-L
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 36N-3B-L	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	90.20	89.75	7,090.42	-573.33	9,221.71	9,238.41	0.00	0.00	0.00	
15,300.00	90.20	89.75	7,090.07	-572.89	9,321.71	9,338.28	0.00	0.00	0.00	
15,400.00	90.20	89.75	7,089.72	-572.45	9,421.71	9,438.15	0.00	0.00	0.00	
15,500.00	90.20	89.75	7,089.37	-572.00	9,521.71	9,538.02	0.00	0.00	0.00	
15,600.00	90.20	89.75	7,089.02	-571.56	9,621.70	9,637.89	0.00	0.00	0.00	
15,700.00	90.20	89.75	7,088.67	-571.12	9,721.70	9,737.76	0.00	0.00	0.00	
15,800.00	90.20	89.75	7,088.32	-570.68	9,821.70	9,837.63	0.00	0.00	0.00	
15,900.00	90.20	89.75	7,087.97	-570.24	9,921.70	9,937.50	0.00	0.00	0.00	
16,000.00	90.20	89.75	7,087.62	-569.80	10,021.70	10,037.36	0.00	0.00	0.00	
16,100.00	90.20	89.75	7,087.28	-569.35	10,121.70	10,137.23	0.00	0.00	0.00	
16,200.00	90.20	89.75	7,086.93	-568.91	10,221.69	10,237.10	0.00	0.00	0.00	
16,300.00	90.20	89.75	7,086.58	-568.47	10,321.69	10,336.97	0.00	0.00	0.00	
16,400.00	90.20	89.75	7,086.23	-568.03	10,421.69	10,436.84	0.00	0.00	0.00	
16,500.00	90.20	89.75	7,085.88	-567.59	10,521.69	10,536.71	0.00	0.00	0.00	
16,600.00	90.20	89.75	7,085.53	-567.15	10,621.69	10,636.58	0.00	0.00	0.00	
16,700.00	90.20	89.75	7,085.18	-566.70	10,721.69	10,736.45	0.00	0.00	0.00	
16,800.00	90.20	89.75	7,084.83	-566.26	10,821.68	10,836.32	0.00	0.00	0.00	
16,900.00	90.20	89.75	7,084.48	-565.82	10,921.68	10,936.19	0.00	0.00	0.00	
17,000.00	90.20	89.75	7,084.13	-565.38	11,021.68	11,036.06	0.00	0.00	0.00	
17,100.00	90.20	89.75	7,083.78	-564.94	11,121.68	11,135.92	0.00	0.00	0.00	
17,200.00	90.20	89.75	7,083.43	-564.49	11,221.68	11,235.79	0.00	0.00	0.00	
17,300.00	90.20	89.75	7,083.09	-564.05	11,321.68	11,335.66	0.00	0.00	0.00	
17,400.00	90.20	89.75	7,082.74	-563.61	11,421.68	11,435.53	0.00	0.00	0.00	
17,500.00	90.20	89.75	7,082.39	-563.17	11,521.67	11,535.40	0.00	0.00	0.00	
17,600.00	90.20	89.75	7,082.04	-562.73	11,621.67	11,635.27	0.00	0.00	0.00	
17,700.00	90.20	89.75	7,081.69	-562.29	11,721.67	11,735.14	0.00	0.00	0.00	
17,800.00	90.20	89.75	7,081.34	-561.84	11,821.67	11,835.01	0.00	0.00	0.00	
17,897.31	90.20	89.75	7,081.00	-561.41	11,918.98	11,932.19	0.00	0.00	0.00	
Bottom of Production @ 17897.31ft										
17,900.00	90.20	89.75	7,080.99	-561.40	11,921.67	11,934.88	0.00	0.00	0.00	
17,997.31	90.20	89.75	7,080.65	-560.97	12,018.98	12,032.06	0.00	0.00	0.00	
TD Well @ 17997.31ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,821.01	1,800.00	9 5/8"	9-5/8	13-1/2	
7,585.67	7,117.00	Production Zone Top	5-1/2	8-1/2	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft	
721.00	718.13	-23.52	40.98	Hold Tangent @ 721.00ft	
6,683.48	6,582.28	-560.26	976.30	KOP @ 6683.48ft :: DLS = 9°/100'	
7,585.67	7,117.00	-606.97	1,607.50	End Build @ 7585.67ft	
17,897.31	7,081.00	-561.41	11,918.98	Bottom of Production @ 17897.31ft	
17,997.31	7,080.65	-560.97	12,018.98	TD Well @ 17997.31ft	