

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

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

VOLT 36N-3A-L

Wellbore #1

Plan: Design #1

Standard Planning Report

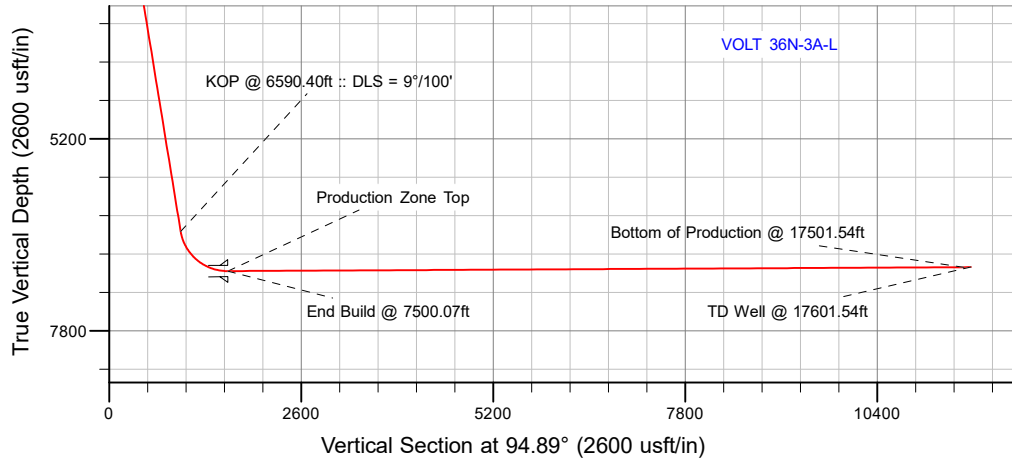
18 November, 2018

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

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1827.58	9 5/8"
6992.00	7500.07	Production Zone Top



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	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	810.00	12.20	136.00	805.40	-46.54	44.94	2.00	136.00	48.75	
4	6590.40	12.20	136.00	6455.26	-925.24	893.50	0.00	0.00	969.10	
5	7500.07	90.30	89.92	6992.00	-1008.42	1526.69	9.00	-46.68	1607.08	VOLT 36N-3A-L_BPZ
6	17501.54	90.30	89.92	6939.00	-994.75	11528.01	0.00	0.00	11570.84	
7	17601.54	90.30	89.92	6938.47	-994.61	11628.01	0.00	0.00	11670.47	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VOLT 36N-3A-L_SHL	0.00	0.00	0.00	40.424561	-104.808874
VOLT 36N-3A-L_BHL	6938.47	-994.61	11628.01	40.421823	-104.767110
VOLT 36N-3A-L_BPZ	6939.00	-994.75	11528.01	40.421823	-104.767469

SHL
1174' FSL
1166' FWL

LP
153' FSL
2486' FEL
40.421793° Lat
-104.803391° Long

BPZ
188' FSL
2138' FWL

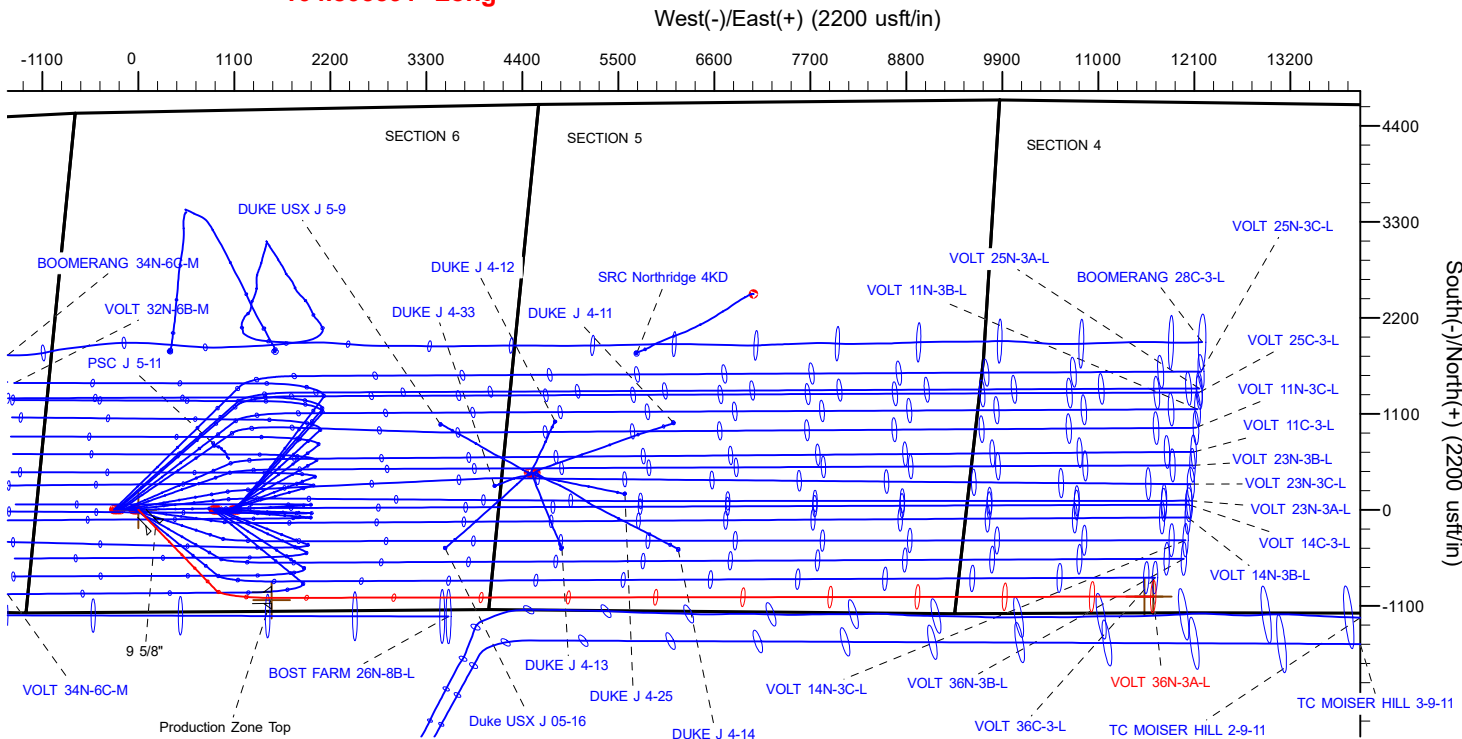
BHL
188' FSL
2238' FWL

WELL DETAILS: VOLT 36N-3A-L

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

Plan: Design #1 (VOLT 36N-3A-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-3A-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-3A-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-3A-L					
Well Position	+N-S	-2.19 usft	Northing:	1,398,257.74 usft	Latitude:	40.424561
	+E-W	279.80 usft	Easting:	3,192,414.07 usft	Longitude:	-104.808874
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	52,243.36909182

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	94.89

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	17,601.54	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2 Fixed:v2:Rockies, crustal dec +

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Well:	VOLT 36N-3A-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	
810.00	12.20	136.00	805.40	-46.54	44.94	2.00	2.00	0.00	136.00	
6,590.40	12.20	136.00	6,455.26	-925.24	893.50	0.00	0.00	0.00	0.00	
7,500.07	90.30	89.92	6,992.00	-1,008.42	1,526.69	9.00	8.59	-5.07	-46.68	
17,501.54	90.30	89.92	6,939.00	-994.75	11,528.01	0.00	0.00	0.00	0.00	VOLT 36N-3A-L_BPZ
17,601.54	90.30	89.92	6,938.47	-994.61	11,628.01	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-3A-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	136.00	299.98	-1.26	1.21	1.31	2.00	2.00	0.00
400.00	4.00	136.00	399.84	-5.02	4.85	5.26	2.00	2.00	0.00
500.00	6.00	136.00	499.45	-11.29	10.90	11.82	2.00	2.00	0.00
600.00	8.00	136.00	598.70	-20.06	19.37	21.01	2.00	2.00	0.00
700.00	10.00	136.00	697.47	-31.31	30.23	32.79	2.00	2.00	0.00
800.00	12.00	136.00	795.62	-45.03	43.49	47.17	2.00	2.00	0.00
810.00	12.20	136.00	805.40	-46.54	44.94	48.75	2.00	2.00	0.00
Hold Tangent @ 810.00ft									
900.00	12.20	136.00	893.37	-60.22	58.16	63.08	0.00	0.00	0.00
1,000.00	12.20	136.00	991.11	-75.42	72.84	79.00	0.00	0.00	0.00
1,100.00	12.20	136.00	1,088.85	-90.62	87.52	94.92	0.00	0.00	0.00
1,200.00	12.20	136.00	1,186.59	-105.83	102.19	110.84	0.00	0.00	0.00
1,300.00	12.20	136.00	1,284.33	-121.03	116.87	126.76	0.00	0.00	0.00
1,400.00	12.20	136.00	1,382.08	-136.23	131.55	142.69	0.00	0.00	0.00
1,500.00	12.20	136.00	1,479.82	-151.43	146.23	158.61	0.00	0.00	0.00
1,600.00	12.20	136.00	1,577.56	-166.63	160.91	174.53	0.00	0.00	0.00
1,700.00	12.20	136.00	1,675.30	-181.83	175.59	190.45	0.00	0.00	0.00
1,800.00	12.20	136.00	1,773.04	-197.03	190.27	206.37	0.00	0.00	0.00
1,827.58	12.20	136.00	1,800.00	-201.23	194.32	210.77	0.00	0.00	0.00
9 5/8"									
1,900.00	12.20	136.00	1,870.78	-212.24	204.95	222.30	0.00	0.00	0.00
2,000.00	12.20	136.00	1,968.53	-227.44	219.63	238.22	0.00	0.00	0.00
2,100.00	12.20	136.00	2,066.27	-242.64	234.31	254.14	0.00	0.00	0.00
2,200.00	12.20	136.00	2,164.01	-257.84	248.99	270.06	0.00	0.00	0.00
2,300.00	12.20	136.00	2,261.75	-273.04	263.67	285.98	0.00	0.00	0.00
2,400.00	12.20	136.00	2,359.49	-288.24	278.35	301.91	0.00	0.00	0.00
2,500.00	12.20	136.00	2,457.23	-303.44	293.03	317.83	0.00	0.00	0.00
2,600.00	12.20	136.00	2,554.98	-318.65	307.71	333.75	0.00	0.00	0.00
2,700.00	12.20	136.00	2,652.72	-333.85	322.39	349.67	0.00	0.00	0.00
2,800.00	12.20	136.00	2,750.46	-349.05	337.07	365.59	0.00	0.00	0.00
2,900.00	12.20	136.00	2,848.20	-364.25	351.75	381.52	0.00	0.00	0.00
3,000.00	12.20	136.00	2,945.94	-379.45	366.43	397.44	0.00	0.00	0.00
3,100.00	12.20	136.00	3,043.68	-394.65	381.11	413.36	0.00	0.00	0.00
3,200.00	12.20	136.00	3,141.43	-409.85	395.79	429.28	0.00	0.00	0.00
3,300.00	12.20	136.00	3,239.17	-425.06	410.47	445.20	0.00	0.00	0.00
3,400.00	12.20	136.00	3,336.91	-440.26	425.15	461.13	0.00	0.00	0.00
3,500.00	12.20	136.00	3,434.65	-455.46	439.83	477.05	0.00	0.00	0.00
3,600.00	12.20	136.00	3,532.39	-470.66	454.51	492.97	0.00	0.00	0.00
3,700.00	12.20	136.00	3,630.13	-485.86	469.19	508.89	0.00	0.00	0.00
3,800.00	12.20	136.00	3,727.87	-501.06	483.87	524.81	0.00	0.00	0.00
3,900.00	12.20	136.00	3,825.62	-516.26	498.55	540.74	0.00	0.00	0.00
4,000.00	12.20	136.00	3,923.36	-531.47	513.23	556.66	0.00	0.00	0.00
4,100.00	12.20	136.00	4,021.10	-546.67	527.91	572.58	0.00	0.00	0.00
4,200.00	12.20	136.00	4,118.84	-561.87	542.59	588.50	0.00	0.00	0.00
4,300.00	12.20	136.00	4,216.58	-577.07	557.27	604.42	0.00	0.00	0.00
4,400.00	12.20	136.00	4,314.32	-592.27	571.95	620.35	0.00	0.00	0.00
4,500.00	12.20	136.00	4,412.07	-607.47	586.63	636.27	0.00	0.00	0.00
4,600.00	12.20	136.00	4,509.81	-622.67	601.31	652.19	0.00	0.00	0.00
4,700.00	12.20	136.00	4,607.55	-637.88	615.99	668.11	0.00	0.00	0.00

Hewlett-Packard

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Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 36N-3A-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	12.20	136.00	4,705.29	-653.08	630.67	684.03	0.00	0.00	0.00
4,900.00	12.20	136.00	4,803.03	-668.28	645.35	699.96	0.00	0.00	0.00
5,000.00	12.20	136.00	4,900.77	-683.48	660.03	715.88	0.00	0.00	0.00
5,100.00	12.20	136.00	4,998.52	-698.68	674.71	731.80	0.00	0.00	0.00
5,200.00	12.20	136.00	5,096.26	-713.88	689.39	747.72	0.00	0.00	0.00
5,300.00	12.20	136.00	5,194.00	-729.08	704.07	763.64	0.00	0.00	0.00
5,400.00	12.20	136.00	5,291.74	-744.29	718.75	779.57	0.00	0.00	0.00
5,500.00	12.20	136.00	5,389.48	-759.49	733.43	795.49	0.00	0.00	0.00
5,600.00	12.20	136.00	5,487.22	-774.69	748.11	811.41	0.00	0.00	0.00
5,700.00	12.20	136.00	5,584.96	-789.89	762.79	827.33	0.00	0.00	0.00
5,800.00	12.20	136.00	5,682.71	-805.09	777.47	843.25	0.00	0.00	0.00
5,900.00	12.20	136.00	5,780.45	-820.29	792.15	859.18	0.00	0.00	0.00
6,000.00	12.20	136.00	5,878.19	-835.49	806.83	875.10	0.00	0.00	0.00
6,100.00	12.20	136.00	5,975.93	-850.70	821.51	891.02	0.00	0.00	0.00
6,200.00	12.20	136.00	6,073.67	-865.90	836.19	906.94	0.00	0.00	0.00
6,300.00	12.20	136.00	6,171.41	-881.10	850.87	922.86	0.00	0.00	0.00
6,400.00	12.20	136.00	6,269.16	-896.30	865.55	938.79	0.00	0.00	0.00
6,500.00	12.20	136.00	6,366.90	-911.50	880.23	954.71	0.00	0.00	0.00
6,590.40	12.20	136.00	6,455.26	-925.24	893.50	969.10	0.00	0.00	0.00
KOP @ 6590.40ft :: DLS = 9°/100'									
6,600.00	12.81	133.16	6,464.63	-926.70	894.98	970.70	9.00	6.33	-29.55
6,700.00	20.26	114.90	6,560.49	-941.61	918.82	995.72	9.00	7.45	-18.26
6,800.00	28.59	106.56	6,651.48	-955.74	957.54	1,035.51	9.00	8.33	-8.35
6,900.00	37.22	101.79	6,735.38	-968.77	1,010.19	1,089.07	9.00	8.63	-4.77
7,000.00	45.97	98.62	6,810.10	-980.36	1,075.47	1,155.11	9.00	8.75	-3.17
7,100.00	54.79	96.27	6,873.81	-990.23	1,151.78	1,231.98	9.00	8.82	-2.35
7,200.00	63.64	94.39	6,924.94	-998.14	1,237.23	1,317.79	9.00	8.85	-1.88
7,300.00	72.52	92.78	6,962.24	-1,003.90	1,329.72	1,410.44	9.00	8.88	-1.61
7,400.00	81.40	91.32	6,984.78	-1,007.35	1,426.98	1,507.64	9.00	8.89	-1.46
7,500.00	90.30	89.92	6,992.01	-1,008.42	1,526.61	1,607.00	9.00	8.89	-1.39
7,500.07	90.30	89.92	6,992.00	-1,008.42	1,526.68	1,607.07	9.00	8.89	-1.38
End Build @ 7500.07ft - Production Zone Top									
7,600.00	90.30	89.92	6,991.48	-1,008.29	1,626.61	1,706.63	0.00	0.00	0.00
7,700.00	90.30	89.92	6,990.95	-1,008.15	1,726.61	1,806.25	0.00	0.00	0.00
7,800.00	90.30	89.92	6,990.42	-1,008.01	1,826.61	1,905.87	0.00	0.00	0.00
7,900.00	90.30	89.92	6,989.89	-1,007.88	1,926.61	2,005.50	0.00	0.00	0.00
8,000.00	90.30	89.92	6,989.36	-1,007.74	2,026.61	2,105.12	0.00	0.00	0.00
8,100.00	90.30	89.92	6,988.83	-1,007.60	2,126.61	2,204.74	0.00	0.00	0.00
8,200.00	90.30	89.92	6,988.30	-1,007.47	2,226.60	2,304.36	0.00	0.00	0.00
8,300.00	90.30	89.92	6,987.77	-1,007.33	2,326.60	2,403.99	0.00	0.00	0.00
8,400.00	90.30	89.92	6,987.24	-1,007.19	2,426.60	2,503.61	0.00	0.00	0.00
8,500.00	90.30	89.92	6,986.71	-1,007.06	2,526.60	2,603.23	0.00	0.00	0.00
8,600.00	90.30	89.92	6,986.18	-1,006.92	2,626.60	2,702.86	0.00	0.00	0.00
8,700.00	90.30	89.92	6,985.65	-1,006.78	2,726.60	2,802.48	0.00	0.00	0.00
8,800.00	90.30	89.92	6,985.12	-1,006.65	2,826.59	2,902.10	0.00	0.00	0.00
8,900.00	90.30	89.92	6,984.59	-1,006.51	2,926.59	3,001.73	0.00	0.00	0.00
9,000.00	90.30	89.92	6,984.06	-1,006.37	3,026.59	3,101.35	0.00	0.00	0.00
9,100.00	90.30	89.92	6,983.53	-1,006.24	3,126.59	3,200.97	0.00	0.00	0.00
9,200.00	90.30	89.92	6,983.00	-1,006.10	3,226.59	3,300.59	0.00	0.00	0.00
9,300.00	90.30	89.92	6,982.47	-1,005.96	3,326.59	3,400.22	0.00	0.00	0.00
9,400.00	90.30	89.92	6,981.94	-1,005.83	3,426.59	3,499.84	0.00	0.00	0.00
9,500.00	90.30	89.92	6,981.41	-1,005.69	3,526.58	3,599.46	0.00	0.00	0.00
9,600.00	90.30	89.92	6,980.88	-1,005.55	3,626.58	3,699.09	0.00	0.00	0.00
9,700.00	90.30	89.92	6,980.35	-1,005.42	3,726.58	3,798.71	0.00	0.00	0.00

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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-3A-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	90.30	89.92	6,979.82	-1,005.28	3,826.58	3,898.33	0.00	0.00	0.00
9,900.00	90.30	89.92	6,979.29	-1,005.14	3,926.58	3,997.96	0.00	0.00	0.00
10,000.00	90.30	89.92	6,978.76	-1,005.01	4,026.58	4,097.58	0.00	0.00	0.00
10,100.00	90.30	89.92	6,978.23	-1,004.87	4,126.58	4,197.20	0.00	0.00	0.00
10,200.00	90.30	89.92	6,977.70	-1,004.73	4,226.57	4,296.82	0.00	0.00	0.00
10,300.00	90.30	89.92	6,977.17	-1,004.60	4,326.57	4,396.45	0.00	0.00	0.00
10,400.00	90.30	89.92	6,976.64	-1,004.46	4,426.57	4,496.07	0.00	0.00	0.00
10,500.00	90.30	89.92	6,976.11	-1,004.32	4,526.57	4,595.69	0.00	0.00	0.00
10,600.00	90.30	89.92	6,975.58	-1,004.19	4,626.57	4,695.32	0.00	0.00	0.00
10,700.00	90.30	89.92	6,975.05	-1,004.05	4,726.57	4,794.94	0.00	0.00	0.00
10,800.00	90.30	89.92	6,974.52	-1,003.91	4,826.57	4,894.56	0.00	0.00	0.00
10,900.00	90.30	89.92	6,973.99	-1,003.78	4,926.56	4,994.19	0.00	0.00	0.00
11,000.00	90.30	89.92	6,973.46	-1,003.64	5,026.56	5,093.81	0.00	0.00	0.00
11,100.00	90.30	89.92	6,972.93	-1,003.50	5,126.56	5,193.43	0.00	0.00	0.00
11,200.00	90.30	89.92	6,972.40	-1,003.37	5,226.56	5,293.06	0.00	0.00	0.00
11,300.00	90.30	89.92	6,971.87	-1,003.23	5,326.56	5,392.68	0.00	0.00	0.00
11,400.00	90.30	89.92	6,971.34	-1,003.09	5,426.56	5,492.30	0.00	0.00	0.00
11,500.00	90.30	89.92	6,970.81	-1,002.95	5,526.55	5,591.92	0.00	0.00	0.00
11,600.00	90.30	89.92	6,970.28	-1,002.82	5,626.55	5,691.55	0.00	0.00	0.00
11,700.00	90.30	89.92	6,969.75	-1,002.68	5,726.55	5,791.17	0.00	0.00	0.00
11,800.00	90.30	89.92	6,969.22	-1,002.54	5,826.55	5,890.79	0.00	0.00	0.00
11,900.00	90.30	89.92	6,968.69	-1,002.41	5,926.55	5,990.42	0.00	0.00	0.00
12,000.00	90.30	89.92	6,968.16	-1,002.27	6,026.55	6,090.04	0.00	0.00	0.00
12,100.00	90.30	89.92	6,967.63	-1,002.13	6,126.55	6,189.66	0.00	0.00	0.00
12,200.00	90.30	89.92	6,967.10	-1,002.00	6,226.54	6,289.29	0.00	0.00	0.00
12,300.00	90.30	89.92	6,966.57	-1,001.86	6,326.54	6,388.91	0.00	0.00	0.00
12,400.00	90.30	89.92	6,966.04	-1,001.72	6,426.54	6,488.53	0.00	0.00	0.00
12,500.00	90.30	89.92	6,965.51	-1,001.59	6,526.54	6,588.15	0.00	0.00	0.00
12,600.00	90.30	89.92	6,964.98	-1,001.45	6,626.54	6,687.78	0.00	0.00	0.00
12,700.00	90.30	89.92	6,964.45	-1,001.31	6,726.54	6,787.40	0.00	0.00	0.00
12,800.00	90.30	89.92	6,963.92	-1,001.18	6,826.54	6,887.02	0.00	0.00	0.00
12,900.00	90.30	89.92	6,963.39	-1,001.04	6,926.53	6,986.65	0.00	0.00	0.00
13,000.00	90.30	89.92	6,962.86	-1,000.90	7,026.53	7,086.27	0.00	0.00	0.00
13,100.00	90.30	89.92	6,962.33	-1,000.77	7,126.53	7,185.89	0.00	0.00	0.00
13,200.00	90.30	89.92	6,961.80	-1,000.63	7,226.53	7,285.52	0.00	0.00	0.00
13,300.00	90.30	89.92	6,961.27	-1,000.49	7,326.53	7,385.14	0.00	0.00	0.00
13,400.00	90.30	89.92	6,960.74	-1,000.36	7,426.53	7,484.76	0.00	0.00	0.00
13,500.00	90.30	89.92	6,960.21	-1,000.22	7,526.52	7,584.38	0.00	0.00	0.00
13,600.00	90.30	89.92	6,959.68	-1,000.08	7,626.52	7,684.01	0.00	0.00	0.00
13,700.00	90.30	89.92	6,959.15	-999.95	7,726.52	7,783.63	0.00	0.00	0.00
13,800.00	90.30	89.92	6,958.62	-999.81	7,826.52	7,883.25	0.00	0.00	0.00
13,900.00	90.30	89.92	6,958.09	-999.67	7,926.52	7,982.88	0.00	0.00	0.00
14,000.00	90.30	89.92	6,957.56	-999.54	8,026.52	8,082.50	0.00	0.00	0.00
14,100.00	90.30	89.92	6,957.03	-999.40	8,126.52	8,182.12	0.00	0.00	0.00
14,200.00	90.30	89.92	6,956.50	-999.26	8,226.51	8,281.75	0.00	0.00	0.00
14,300.00	90.30	89.92	6,955.97	-999.13	8,326.51	8,381.37	0.00	0.00	0.00
14,400.00	90.30	89.92	6,955.44	-998.99	8,426.51	8,480.99	0.00	0.00	0.00
14,500.00	90.30	89.92	6,954.91	-998.85	8,526.51	8,580.62	0.00	0.00	0.00
14,600.00	90.30	89.92	6,954.38	-998.72	8,626.51	8,680.24	0.00	0.00	0.00
14,700.00	90.30	89.92	6,953.85	-998.58	8,726.51	8,779.86	0.00	0.00	0.00
14,800.00	90.30	89.92	6,953.32	-998.44	8,826.51	8,879.48	0.00	0.00	0.00
14,900.00	90.30	89.92	6,952.79	-998.31	8,926.50	8,979.11	0.00	0.00	0.00
15,000.00	90.30	89.92	6,952.26	-998.17	9,026.50	9,078.73	0.00	0.00	0.00
15,100.00	90.30	89.92	6,951.73	-998.03	9,126.50	9,178.35	0.00	0.00	0.00

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 36N-3A-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-3A-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	90.30	89.92	6,951.20	-997.90	9,226.50	9,277.98	0.00	0.00	0.00	
15,300.00	90.30	89.92	6,950.67	-997.76	9,326.50	9,377.60	0.00	0.00	0.00	
15,400.00	90.30	89.92	6,950.14	-997.62	9,426.50	9,477.22	0.00	0.00	0.00	
15,500.00	90.30	89.92	6,949.61	-997.49	9,526.49	9,576.85	0.00	0.00	0.00	
15,600.00	90.30	89.92	6,949.08	-997.35	9,626.49	9,676.47	0.00	0.00	0.00	
15,700.00	90.30	89.92	6,948.55	-997.21	9,726.49	9,776.09	0.00	0.00	0.00	
15,800.00	90.30	89.92	6,948.02	-997.08	9,826.49	9,875.71	0.00	0.00	0.00	
15,900.00	90.30	89.92	6,947.49	-996.94	9,926.49	9,975.34	0.00	0.00	0.00	
16,000.00	90.30	89.92	6,946.96	-996.80	10,026.49	10,074.96	0.00	0.00	0.00	
16,100.00	90.30	89.92	6,946.43	-996.67	10,126.49	10,174.58	0.00	0.00	0.00	
16,200.00	90.30	89.92	6,945.90	-996.53	10,226.48	10,274.21	0.00	0.00	0.00	
16,300.00	90.30	89.92	6,945.37	-996.39	10,326.48	10,373.83	0.00	0.00	0.00	
16,400.00	90.30	89.92	6,944.84	-996.26	10,426.48	10,473.45	0.00	0.00	0.00	
16,500.00	90.30	89.92	6,944.31	-996.12	10,526.48	10,573.08	0.00	0.00	0.00	
16,600.00	90.30	89.92	6,943.78	-995.98	10,626.48	10,672.70	0.00	0.00	0.00	
16,700.00	90.30	89.92	6,943.25	-995.85	10,726.48	10,772.32	0.00	0.00	0.00	
16,800.00	90.30	89.92	6,942.72	-995.71	10,826.48	10,871.95	0.00	0.00	0.00	
16,900.00	90.30	89.92	6,942.19	-995.57	10,926.47	10,971.57	0.00	0.00	0.00	
17,000.00	90.30	89.92	6,941.66	-995.44	11,026.47	11,071.19	0.00	0.00	0.00	
17,100.00	90.30	89.92	6,941.13	-995.30	11,126.47	11,170.81	0.00	0.00	0.00	
17,200.00	90.30	89.92	6,940.60	-995.16	11,226.47	11,270.44	0.00	0.00	0.00	
17,300.00	90.30	89.92	6,940.07	-995.03	11,326.47	11,370.06	0.00	0.00	0.00	
17,400.00	90.30	89.92	6,939.54	-994.89	11,426.47	11,469.68	0.00	0.00	0.00	
17,500.00	90.30	89.92	6,939.01	-994.75	11,526.46	11,569.31	0.00	0.00	0.00	
17,501.54	90.30	89.92	6,939.00	-994.75	11,528.01	11,570.84	0.00	0.00	0.00	
Bottom of Production @ 17501.54ft										
17,600.00	90.30	89.92	6,938.48	-994.62	11,626.46	11,668.93	0.00	0.00	0.00	
17,601.54	90.30	89.92	6,938.47	-994.61	11,628.01	11,670.47	0.00	0.00	0.00	
TD Well @ 17601.54ft										

Casing Points						
Measured Depth (usft)	Vertical Depth (usft)	Name			Casing Diameter (")	Hole Diameter (")
1,827.58	1,800.00	9 5/8"			9-5/8	13-1/2
7,500.07	6,992.00	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	
810.00	805.40	-46.54	44.94	Hold Tangent @ 810.00ft	
6,590.40	6,455.26	-925.24	893.50	KOP @ 6590.40ft :: DLS = 9°/100'	
7,500.07	6,992.00	-1,008.42	1,526.69	End Build @ 7500.07ft	
17,501.54	6,939.00	-994.75	11,528.01	Bottom of Production @ 17501.54ft	
17,601.54	6,938.47	-994.61	11,628.01	TD Well @ 17601.54ft	