

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

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

VOLT 36C-3-L

Wellbore #1

Plan: Design #1

Standard Planning Report

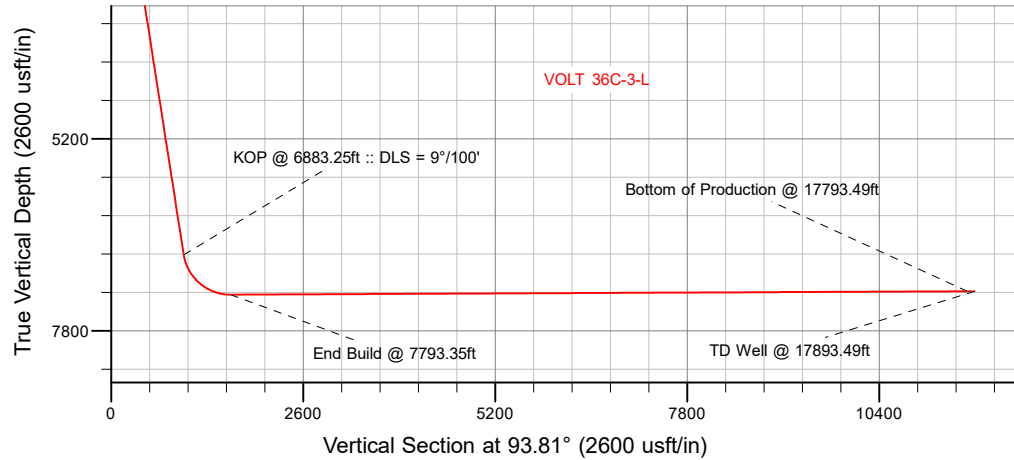
18 November, 2018

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

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1822.44	9 5/8"
7311.00	7793.35	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	741.00	10.82	129.05	737.79	-32.09	39.55	2.00	129.05	41.60	
4	6883.25	10.82	129.05	6770.84	-758.51	935.01	0.00	0.00	983.33	
5	7793.35	90.26	89.75	7311.00	-821.41	1568.06	9.00	-39.78	1619.17	
6	17793.49	90.26	89.75	7265.00	-777.25	11568.00	0.00	0.00	11594.08	VOLT 36C-3-L_BPZ
7	17893.49	90.26	89.75	7264.54	-776.80	11668.00	0.00	0.00	11693.83	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VOLT 36C-3-L_SHL	0.00	0.00	0.00	40.424562	-104.808946
VOLT 36C-3-L_BHL	7264.54	-776.80	11668.00	40.422422	-104.767038
VOLT 36C-3-L_BPZ	7265.00	-777.25	11568.00	40.422421	-104.767397

SHL
1174' FSL
1147' FWL

LP
343' FSL
2486' FEL
40.422308° Lat
-104.803316° Long

BPZ
405' FSL
2134' FWL

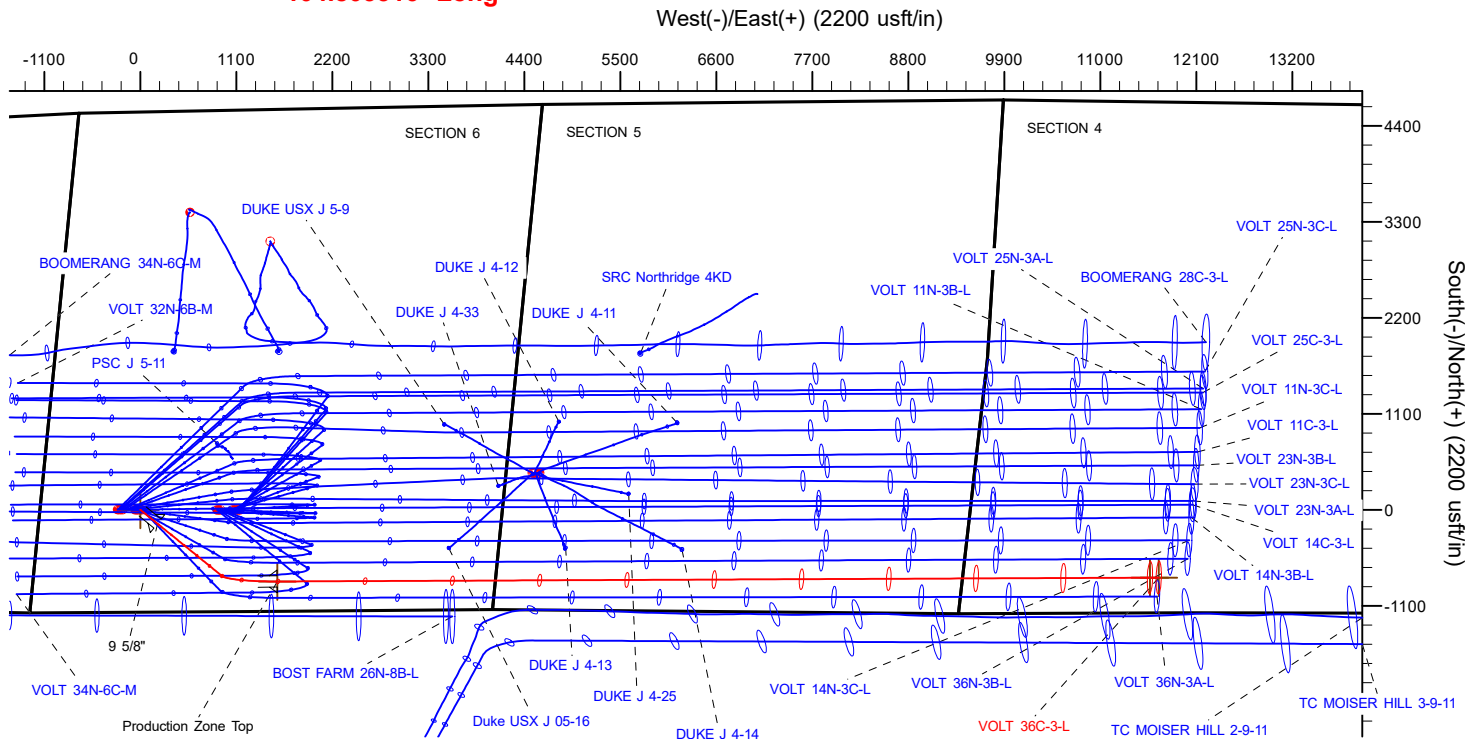
BHL
405' FSL
2233' FWL

WELL DETAILS: VOLT 36C-3-L

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

Plan: Design #1 (VOLT 36C-3-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

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 36C-3-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 36C-3-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 36C-3-L			
Well Position	+N/-S	-1.83 usft	Northing:	1,398,257.95 usft
	+E/-W	259.76 usft	Easting:	3,192,394.02 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Latitude: 40.424562
				Longitude: -104.808946
				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	52,243.36207097

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	93.81

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	17,893.49	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2
				Fixed:v2:Rockies, crustal dec +

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Well:	VOLT 36C-3-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	
741.00	10.82	129.05	737.79	-32.09	39.55	2.00	2.00	0.00	129.05	
6,883.25	10.82	129.05	6,770.84	-758.51	935.01	0.00	0.00	0.00	0.00	
7,793.35	90.26	89.75	7,311.00	-821.41	1,568.06	9.00	8.73	-4.32	-39.78	
17,793.49	90.26	89.75	7,265.00	-777.25	11,568.00	0.00	0.00	0.00	0.00	VOLT 36C-3-L_BPZ
17,893.49	90.26	89.75	7,264.54	-776.80	11,668.00	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 36C-3-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	129.05	299.98	-1.10	1.36	1.43	2.00	2.00	0.00
400.00	4.00	129.05	399.84	-4.40	5.42	5.70	2.00	2.00	0.00
500.00	6.00	129.05	499.45	-9.89	12.19	12.82	2.00	2.00	0.00
600.00	8.00	129.05	598.70	-17.56	21.65	22.77	2.00	2.00	0.00
700.00	10.00	129.05	697.47	-27.42	33.80	35.55	2.00	2.00	0.00
741.00	10.82	129.05	737.79	-32.09	39.55	41.60	2.00	2.00	0.00
Hold Tangent @ 741.00ft									
800.00	10.82	129.05	795.74	-39.06	48.15	50.64	0.00	0.00	0.00
900.00	10.82	129.05	893.96	-50.89	62.73	65.97	0.00	0.00	0.00
1,000.00	10.82	129.05	992.19	-62.72	77.31	81.31	0.00	0.00	0.00
1,100.00	10.82	129.05	1,090.41	-74.54	91.89	96.64	0.00	0.00	0.00
1,200.00	10.82	129.05	1,188.63	-86.37	106.47	111.97	0.00	0.00	0.00
1,300.00	10.82	129.05	1,286.85	-98.20	121.05	127.30	0.00	0.00	0.00
1,400.00	10.82	129.05	1,385.07	-110.02	135.63	142.63	0.00	0.00	0.00
1,500.00	10.82	129.05	1,483.30	-121.85	150.20	157.97	0.00	0.00	0.00
1,600.00	10.82	129.05	1,581.52	-133.68	164.78	173.30	0.00	0.00	0.00
1,700.00	10.82	129.05	1,679.74	-145.50	179.36	188.63	0.00	0.00	0.00
1,800.00	10.82	129.05	1,777.96	-157.33	193.94	203.96	0.00	0.00	0.00
1,822.44	10.82	129.05	1,800.00	-159.98	197.21	207.40	0.00	0.00	0.00
9 5/8"									
1,900.00	10.82	129.05	1,876.19	-169.16	208.52	219.29	0.00	0.00	0.00
2,000.00	10.82	129.05	1,974.41	-180.98	223.10	234.63	0.00	0.00	0.00
2,100.00	10.82	129.05	2,072.63	-192.81	237.68	249.96	0.00	0.00	0.00
2,200.00	10.82	129.05	2,170.85	-204.64	252.25	265.29	0.00	0.00	0.00
2,300.00	10.82	129.05	2,269.07	-216.46	266.83	280.62	0.00	0.00	0.00
2,400.00	10.82	129.05	2,367.30	-228.29	281.41	295.95	0.00	0.00	0.00
2,500.00	10.82	129.05	2,465.52	-240.12	295.99	311.29	0.00	0.00	0.00
2,600.00	10.82	129.05	2,563.74	-251.94	310.57	326.62	0.00	0.00	0.00
2,700.00	10.82	129.05	2,661.96	-263.77	325.15	341.95	0.00	0.00	0.00
2,800.00	10.82	129.05	2,760.18	-275.60	339.73	357.28	0.00	0.00	0.00
2,900.00	10.82	129.05	2,858.41	-287.42	354.30	372.62	0.00	0.00	0.00
3,000.00	10.82	129.05	2,956.63	-299.25	368.88	387.95	0.00	0.00	0.00
3,100.00	10.82	129.05	3,054.85	-311.08	383.46	403.28	0.00	0.00	0.00
3,200.00	10.82	129.05	3,153.07	-322.90	398.04	418.61	0.00	0.00	0.00
3,300.00	10.82	129.05	3,251.30	-334.73	412.62	433.94	0.00	0.00	0.00
3,400.00	10.82	129.05	3,349.52	-346.56	427.20	449.28	0.00	0.00	0.00
3,500.00	10.82	129.05	3,447.74	-358.38	441.78	464.61	0.00	0.00	0.00
3,600.00	10.82	129.05	3,545.96	-370.21	456.35	479.94	0.00	0.00	0.00
3,700.00	10.82	129.05	3,644.18	-382.04	470.93	495.27	0.00	0.00	0.00
3,800.00	10.82	129.05	3,742.41	-393.86	485.51	510.60	0.00	0.00	0.00
3,900.00	10.82	129.05	3,840.63	-405.69	500.09	525.94	0.00	0.00	0.00
4,000.00	10.82	129.05	3,938.85	-417.52	514.67	541.27	0.00	0.00	0.00
4,100.00	10.82	129.05	4,037.07	-429.34	529.25	556.60	0.00	0.00	0.00
4,200.00	10.82	129.05	4,135.30	-441.17	543.83	571.93	0.00	0.00	0.00
4,300.00	10.82	129.05	4,233.52	-452.99	558.40	587.26	0.00	0.00	0.00
4,400.00	10.82	129.05	4,331.74	-464.82	572.98	602.60	0.00	0.00	0.00
4,500.00	10.82	129.05	4,429.96	-476.65	587.56	617.93	0.00	0.00	0.00
4,600.00	10.82	129.05	4,528.18	-488.47	602.14	633.26	0.00	0.00	0.00
4,700.00	10.82	129.05	4,626.41	-500.30	616.72	648.59	0.00	0.00	0.00

Hewlett-Packard

Planning Report

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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 36C-3-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	10.82	129.05	4,724.63	-512.13	631.30	663.92	0.00	0.00	0.00
4,900.00	10.82	129.05	4,822.85	-523.95	645.88	679.26	0.00	0.00	0.00
5,000.00	10.82	129.05	4,921.07	-535.78	660.46	694.59	0.00	0.00	0.00
5,100.00	10.82	129.05	5,019.30	-547.61	675.03	709.92	0.00	0.00	0.00
5,200.00	10.82	129.05	5,117.52	-559.43	689.61	725.25	0.00	0.00	0.00
5,300.00	10.82	129.05	5,215.74	-571.26	704.19	740.58	0.00	0.00	0.00
5,400.00	10.82	129.05	5,313.96	-583.09	718.77	755.92	0.00	0.00	0.00
5,500.00	10.82	129.05	5,412.18	-594.91	733.35	771.25	0.00	0.00	0.00
5,600.00	10.82	129.05	5,510.41	-606.74	747.93	786.58	0.00	0.00	0.00
5,700.00	10.82	129.05	5,608.63	-618.57	762.51	801.91	0.00	0.00	0.00
5,800.00	10.82	129.05	5,706.85	-630.39	777.08	817.24	0.00	0.00	0.00
5,900.00	10.82	129.05	5,805.07	-642.22	791.66	832.58	0.00	0.00	0.00
6,000.00	10.82	129.05	5,903.29	-654.05	806.24	847.91	0.00	0.00	0.00
6,100.00	10.82	129.05	6,001.52	-665.87	820.82	863.24	0.00	0.00	0.00
6,200.00	10.82	129.05	6,099.74	-677.70	835.40	878.57	0.00	0.00	0.00
6,300.00	10.82	129.05	6,197.96	-689.53	849.98	893.90	0.00	0.00	0.00
6,400.00	10.82	129.05	6,296.18	-701.35	864.56	909.24	0.00	0.00	0.00
6,500.00	10.82	129.05	6,394.41	-713.18	879.13	924.57	0.00	0.00	0.00
6,600.00	10.82	129.05	6,492.63	-725.01	893.71	939.90	0.00	0.00	0.00
6,700.00	10.82	129.05	6,590.85	-736.83	908.29	955.23	0.00	0.00	0.00
6,800.00	10.82	129.05	6,689.07	-748.66	922.87	970.56	0.00	0.00	0.00
6,883.25	10.82	129.05	6,770.84	-758.51	935.01	983.33	0.00	0.00	0.00
KOP @ 6883.25ft :: DLS = 9°/100'									
6,900.00	12.02	124.41	6,787.26	-760.48	937.67	986.11	9.00	7.15	-27.68
7,000.00	20.04	109.15	6,883.33	-772.01	962.49	1,011.65	9.00	8.03	-15.27
7,100.00	28.64	102.58	6,974.38	-782.87	1,002.15	1,051.94	9.00	8.60	-6.57
7,200.00	37.41	98.88	7,058.15	-792.80	1,055.66	1,106.00	9.00	8.77	-3.70
7,300.00	46.26	96.43	7,132.58	-801.55	1,121.71	1,172.48	9.00	8.85	-2.45
7,400.00	55.16	94.61	7,195.84	-808.90	1,198.68	1,249.76	9.00	8.89	-1.82
7,500.00	64.07	93.15	7,246.38	-814.69	1,284.65	1,335.93	9.00	8.91	-1.46
7,600.00	72.99	91.90	7,282.95	-818.75	1,377.53	1,428.87	9.00	8.92	-1.25
7,700.00	81.92	90.76	7,304.64	-821.00	1,475.01	1,526.29	9.00	8.93	-1.14
7,793.35	90.26	89.75	7,311.00	-821.41	1,568.06	1,619.16	9.00	8.93	-1.09
End Build @ 7793.35ft - Production Zone Top									
7,800.00	90.26	89.75	7,310.97	-821.38	1,574.71	1,625.80	0.00	0.00	0.00
7,900.00	90.26	89.75	7,310.51	-820.94	1,674.71	1,725.55	0.00	0.00	0.00
8,000.00	90.26	89.75	7,310.05	-820.50	1,774.71	1,825.29	0.00	0.00	0.00
8,100.00	90.26	89.75	7,309.59	-820.06	1,874.71	1,925.04	0.00	0.00	0.00
8,200.00	90.26	89.75	7,309.13	-819.61	1,974.70	2,024.79	0.00	0.00	0.00
8,300.00	90.26	89.75	7,308.67	-819.17	2,074.70	2,124.54	0.00	0.00	0.00
8,400.00	90.26	89.75	7,308.21	-818.73	2,174.70	2,224.28	0.00	0.00	0.00
8,500.00	90.26	89.75	7,307.75	-818.29	2,274.70	2,324.03	0.00	0.00	0.00
8,600.00	90.26	89.75	7,307.29	-817.85	2,374.70	2,423.78	0.00	0.00	0.00
8,700.00	90.26	89.75	7,306.83	-817.41	2,474.69	2,523.53	0.00	0.00	0.00
8,800.00	90.26	89.75	7,306.37	-816.96	2,574.69	2,623.27	0.00	0.00	0.00
8,900.00	90.26	89.75	7,305.91	-816.52	2,674.69	2,723.02	0.00	0.00	0.00
9,000.00	90.26	89.75	7,305.45	-816.08	2,774.69	2,822.77	0.00	0.00	0.00
9,100.00	90.26	89.75	7,304.99	-815.64	2,874.69	2,922.52	0.00	0.00	0.00
9,200.00	90.26	89.75	7,304.53	-815.20	2,974.68	3,022.27	0.00	0.00	0.00
9,300.00	90.26	89.75	7,304.07	-814.76	3,074.68	3,122.01	0.00	0.00	0.00
9,400.00	90.26	89.75	7,303.61	-814.31	3,174.68	3,221.76	0.00	0.00	0.00
9,500.00	90.26	89.75	7,303.15	-813.87	3,274.68	3,321.51	0.00	0.00	0.00
9,600.00	90.26	89.75	7,302.69	-813.43	3,374.68	3,421.26	0.00	0.00	0.00
9,700.00	90.26	89.75	7,302.23	-812.99	3,474.67	3,521.00	0.00	0.00	0.00

Hewlett-Packard

Planning Report

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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 36C-3-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	90.26	89.75	7,301.77	-812.55	3,574.67	3,620.75	0.00	0.00	0.00	
9,900.00	90.26	89.75	7,301.31	-812.11	3,674.67	3,720.50	0.00	0.00	0.00	
10,000.00	90.26	89.75	7,300.85	-811.66	3,774.67	3,820.25	0.00	0.00	0.00	
10,100.00	90.26	89.75	7,300.39	-811.22	3,874.67	3,920.00	0.00	0.00	0.00	
10,200.00	90.26	89.75	7,299.93	-810.78	3,974.66	4,019.74	0.00	0.00	0.00	
10,300.00	90.26	89.75	7,299.47	-810.34	4,074.66	4,119.49	0.00	0.00	0.00	
10,400.00	90.26	89.75	7,299.01	-809.90	4,174.66	4,219.24	0.00	0.00	0.00	
10,500.00	90.26	89.75	7,298.55	-809.46	4,274.66	4,318.99	0.00	0.00	0.00	
10,600.00	90.26	89.75	7,298.09	-809.01	4,374.66	4,418.73	0.00	0.00	0.00	
10,700.00	90.26	89.75	7,297.63	-808.57	4,474.65	4,518.48	0.00	0.00	0.00	
10,800.00	90.26	89.75	7,297.17	-808.13	4,574.65	4,618.23	0.00	0.00	0.00	
10,900.00	90.26	89.75	7,296.71	-807.69	4,674.65	4,717.98	0.00	0.00	0.00	
11,000.00	90.26	89.75	7,296.25	-807.25	4,774.65	4,817.73	0.00	0.00	0.00	
11,100.00	90.26	89.75	7,295.79	-806.81	4,874.65	4,917.47	0.00	0.00	0.00	
11,200.00	90.26	89.75	7,295.33	-806.36	4,974.64	5,017.22	0.00	0.00	0.00	
11,300.00	90.26	89.75	7,294.87	-805.92	5,074.64	5,116.97	0.00	0.00	0.00	
11,400.00	90.26	89.75	7,294.41	-805.48	5,174.64	5,216.72	0.00	0.00	0.00	
11,500.00	90.26	89.75	7,293.95	-805.04	5,274.64	5,316.46	0.00	0.00	0.00	
11,600.00	90.26	89.75	7,293.49	-804.60	5,374.64	5,416.21	0.00	0.00	0.00	
11,700.00	90.26	89.75	7,293.03	-804.16	5,474.63	5,515.96	0.00	0.00	0.00	
11,800.00	90.26	89.75	7,292.57	-803.71	5,574.63	5,615.71	0.00	0.00	0.00	
11,900.00	90.26	89.75	7,292.11	-803.27	5,674.63	5,715.46	0.00	0.00	0.00	
12,000.00	90.26	89.75	7,291.65	-802.83	5,774.63	5,815.20	0.00	0.00	0.00	
12,100.00	90.26	89.75	7,291.19	-802.39	5,874.63	5,914.95	0.00	0.00	0.00	
12,200.00	90.26	89.75	7,290.73	-801.95	5,974.62	6,014.70	0.00	0.00	0.00	
12,300.00	90.26	89.75	7,290.27	-801.51	6,074.62	6,114.45	0.00	0.00	0.00	
12,400.00	90.26	89.75	7,289.81	-801.06	6,174.62	6,214.19	0.00	0.00	0.00	
12,500.00	90.26	89.75	7,289.35	-800.62	6,274.62	6,313.94	0.00	0.00	0.00	
12,600.00	90.26	89.75	7,288.89	-800.18	6,374.62	6,413.69	0.00	0.00	0.00	
12,700.00	90.26	89.75	7,288.43	-799.74	6,474.61	6,513.44	0.00	0.00	0.00	
12,800.00	90.26	89.75	7,287.97	-799.30	6,574.61	6,613.19	0.00	0.00	0.00	
12,900.00	90.26	89.75	7,287.51	-798.86	6,674.61	6,712.93	0.00	0.00	0.00	
13,000.00	90.26	89.75	7,287.05	-798.42	6,774.61	6,812.68	0.00	0.00	0.00	
13,100.00	90.26	89.75	7,286.59	-797.97	6,874.60	6,912.43	0.00	0.00	0.00	
13,200.00	90.26	89.75	7,286.13	-797.53	6,974.60	7,012.18	0.00	0.00	0.00	
13,300.00	90.26	89.75	7,285.67	-797.09	7,074.60	7,111.92	0.00	0.00	0.00	
13,400.00	90.26	89.75	7,285.21	-796.65	7,174.60	7,211.67	0.00	0.00	0.00	
13,500.00	90.26	89.75	7,284.75	-796.21	7,274.60	7,311.42	0.00	0.00	0.00	
13,600.00	90.26	89.75	7,284.29	-795.77	7,374.59	7,411.17	0.00	0.00	0.00	
13,700.00	90.26	89.75	7,283.83	-795.32	7,474.59	7,510.91	0.00	0.00	0.00	
13,800.00	90.26	89.75	7,283.37	-794.88	7,574.59	7,610.66	0.00	0.00	0.00	
13,900.00	90.26	89.75	7,282.91	-794.44	7,674.59	7,710.41	0.00	0.00	0.00	
14,000.00	90.26	89.75	7,282.45	-794.00	7,774.59	7,810.16	0.00	0.00	0.00	
14,100.00	90.26	89.75	7,281.99	-793.56	7,874.58	7,909.91	0.00	0.00	0.00	
14,200.00	90.26	89.75	7,281.53	-793.12	7,974.58	8,009.65	0.00	0.00	0.00	
14,300.00	90.26	89.75	7,281.07	-792.67	8,074.58	8,109.40	0.00	0.00	0.00	
14,400.00	90.26	89.75	7,280.61	-792.23	8,174.58	8,209.15	0.00	0.00	0.00	
14,500.00	90.26	89.75	7,280.15	-791.79	8,274.58	8,308.90	0.00	0.00	0.00	
14,600.00	90.26	89.75	7,279.69	-791.35	8,374.57	8,408.64	0.00	0.00	0.00	
14,700.00	90.26	89.75	7,279.23	-790.91	8,474.57	8,508.39	0.00	0.00	0.00	
14,800.00	90.26	89.75	7,278.77	-790.47	8,574.57	8,608.14	0.00	0.00	0.00	
14,900.00	90.26	89.75	7,278.31	-790.02	8,674.57	8,707.89	0.00	0.00	0.00	
15,000.00	90.26	89.75	7,277.85	-789.58	8,774.57	8,807.64	0.00	0.00	0.00	
15,100.00	90.26	89.75	7,277.39	-789.14	8,874.56	8,907.38	0.00	0.00	0.00	

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 36C-3-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 36C-3-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	90.26	89.75	7,276.93	-788.70	8,974.56	9,007.13	0.00	0.00	0.00	
15,300.00	90.26	89.75	7,276.47	-788.26	9,074.56	9,106.88	0.00	0.00	0.00	
15,400.00	90.26	89.75	7,276.01	-787.82	9,174.56	9,206.63	0.00	0.00	0.00	
15,500.00	90.26	89.75	7,275.55	-787.37	9,274.56	9,306.37	0.00	0.00	0.00	
15,600.00	90.26	89.75	7,275.09	-786.93	9,374.55	9,406.12	0.00	0.00	0.00	
15,700.00	90.26	89.75	7,274.63	-786.49	9,474.55	9,505.87	0.00	0.00	0.00	
15,800.00	90.26	89.75	7,274.17	-786.05	9,574.55	9,605.62	0.00	0.00	0.00	
15,900.00	90.26	89.75	7,273.71	-785.61	9,674.55	9,705.37	0.00	0.00	0.00	
16,000.00	90.26	89.75	7,273.25	-785.17	9,774.55	9,805.11	0.00	0.00	0.00	
16,100.00	90.26	89.75	7,272.79	-784.72	9,874.54	9,904.86	0.00	0.00	0.00	
16,200.00	90.26	89.75	7,272.33	-784.28	9,974.54	10,004.61	0.00	0.00	0.00	
16,300.00	90.26	89.75	7,271.87	-783.84	10,074.54	10,104.36	0.00	0.00	0.00	
16,400.00	90.26	89.75	7,271.41	-783.40	10,174.54	10,204.10	0.00	0.00	0.00	
16,500.00	90.26	89.75	7,270.95	-782.96	10,274.54	10,303.85	0.00	0.00	0.00	
16,600.00	90.26	89.75	7,270.49	-782.52	10,374.53	10,403.60	0.00	0.00	0.00	
16,700.00	90.26	89.75	7,270.03	-782.07	10,474.53	10,503.35	0.00	0.00	0.00	
16,800.00	90.26	89.75	7,269.57	-781.63	10,574.53	10,603.10	0.00	0.00	0.00	
16,900.00	90.26	89.75	7,269.11	-781.19	10,674.53	10,702.84	0.00	0.00	0.00	
17,000.00	90.26	89.75	7,268.65	-780.75	10,774.53	10,802.59	0.00	0.00	0.00	
17,100.00	90.26	89.75	7,268.19	-780.31	10,874.52	10,902.34	0.00	0.00	0.00	
17,200.00	90.26	89.75	7,267.73	-779.87	10,974.52	11,002.09	0.00	0.00	0.00	
17,300.00	90.26	89.75	7,267.27	-779.42	11,074.52	11,101.83	0.00	0.00	0.00	
17,400.00	90.26	89.75	7,266.81	-778.98	11,174.52	11,201.58	0.00	0.00	0.00	
17,500.00	90.26	89.75	7,266.35	-778.54	11,274.52	11,301.33	0.00	0.00	0.00	
17,600.00	90.26	89.75	7,265.89	-778.10	11,374.51	11,401.08	0.00	0.00	0.00	
17,700.00	90.26	89.75	7,265.43	-777.66	11,474.51	11,500.83	0.00	0.00	0.00	
17,793.49	90.26	89.75	7,265.00	-777.25	11,568.00	11,594.08	0.00	0.00	0.00	
Bottom of Production @ 17793.49ft										
17,800.00	90.26	89.75	7,264.97	-777.22	11,574.51	11,600.57	0.00	0.00	0.00	
17,893.49	90.26	89.75	7,264.54	-776.80	11,668.00	11,693.83	0.00	0.00	0.00	
TD Well @ 17893.49ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,822.44	1,800.00	9 5/8"	9-5/8	13-1/2	
7,793.35	7,311.00	Production Zone Top	5-1/2	8-1/2	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	Begin Nudge @ 200.00ft	
741.00	737.79	-32.09	39.55	Hold Tangent @ 741.00ft	
6,883.25	6,770.84	-758.51	935.01	KOP @ 6883.25ft :: DLS = 9°/100'	
7,793.35	7,311.00	-821.41	1,568.06	End Build @ 7793.35ft	
17,793.49	7,265.00	-777.25	11,568.00	Bottom of Production @ 17793.49ft	
17,893.49	7,264.54	-776.80	11,668.00	TD Well @ 17893.49ft	