

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

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

VOLT 11N-3C-L

Wellbore #1

Plan: Design #1

Standard Planning Report

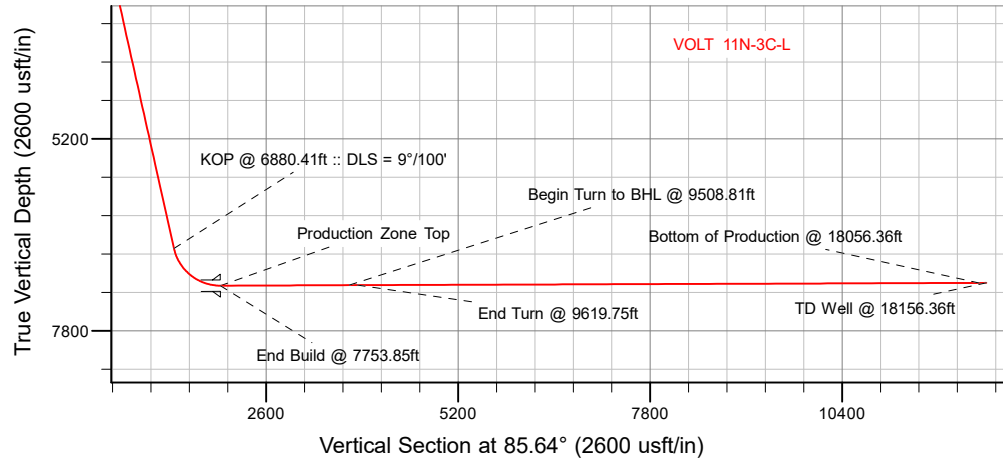
18 November, 2018

Project: WELD COUNTY (NAD83, TRUE NORTH)
Site: 5N-66W-05 VOLT 19-5 PAD
Well: VOLT 11N-3C-L
Wellbore: Wellbore #1
Design: Design #1

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1834.59	9 5/8"
7189.00	7753.85	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	260.00	0.00	0.00	260.00	0.00	0.00	0.00	0.00	0.00	
3	982.50	14.45	55.50	974.87	51.33	74.69	2.00	55.50	78.37	
4	6880.41	14.45	55.50	6886.20	884.93	1287.58	0.00	0.00	1351.07	
5	7753.85	90.21	91.85	7189.00	941.74	1915.64	9.00	37.20	1981.62	
6	9508.81	90.21	91.85	7182.70	885.00	3669.67	0.00	0.00	3726.28	VOLT 11N-3C-L_target
7	9619.75	90.21	89.63	7182.30	883.56	3780.59	2.00	-89.99	3836.78	
8	18056.36	90.21	89.63	7152.00	937.46	12216.98	0.00	0.00	12252.89	VOLT 11N-3C-L_BPZ
9	18156.36	90.21	89.63	7151.64	938.10	12316.98	0.00	0.00	12352.65	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VOLT 11N-3C-L_SHL	0.00	0.00	0.00	40.424566	-104.809592
VOLT 11N-3C-L_BHL	7151.64	938.10	12316.98	40.427133	-104.765350
VOLT 11N-3C-L_BPZ	7152.00	937.46	12216.98	40.427131	-104.765709

SHL
1177' FSL
967' FWL

LP
2105' FSL
2487' FEL
40.427151° Lat
-104.802711° Long

BPZ
2120' FSL
2407' FWL

BHL
2121' FSL
2506' FWL

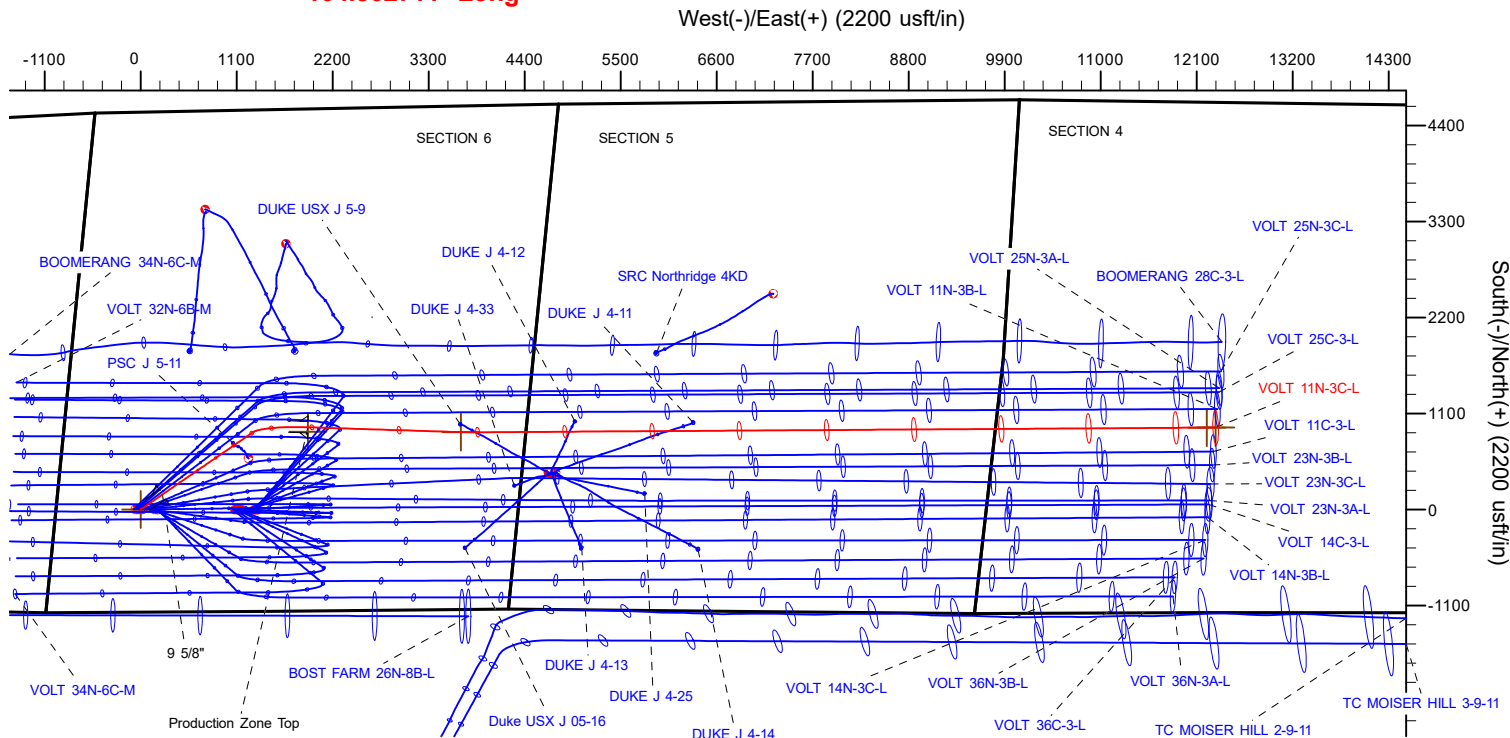
WELL DETAILS: VOLT 11N-3C-L

GL = 4815'

RKB = 4' @ 4819.00usft (IKON 12)

Plan: Design #1 (VOLT 11N-3C-L/Wellbore #1)

Date: 11/19/2018



T Azimuths to True North
M Magnetic North: 8.09°
Magnetic Field
Strength: 52243.3snT
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 11N-3C-L
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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 11N-3C-L					
Well Position	+N/-S	-0.37 usft	Northing:	1,398,258.00 usft	Latitude:	40.424566
	+E/-W	79.90 usft	Easting:	3,192,214.16 usft	Longitude:	-104.809592
Position Uncertainty		3.28 usft	Wellhead Elevation:		Ground Level:	4,815.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/2/2018	8.09	66.83	52,243.28041103

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	85.64	

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	18,156.36	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2	
				Fixed:v2:Rockies, crustal dec +	

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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	
260.00	0.00	0.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00	
982.50	14.45	55.50	974.87	51.33	74.69	2.00	2.00	0.00	55.50	
6,880.41	14.45	55.50	6,686.20	884.93	1,287.58	0.00	0.00	0.00	0.00	
7,753.85	90.21	91.85	7,189.00	941.74	1,915.64	9.00	8.67	4.16	37.20	
9,508.81	90.21	91.85	7,182.70	885.00	3,669.67	0.00	0.00	0.00	0.00	VOLT 11N-3C-L_target
9,619.75	90.21	89.63	7,182.30	883.56	3,780.59	2.00	0.00	-2.00	-89.99	
18,056.36	90.21	89.63	7,152.00	937.46	12,216.98	0.00	0.00	0.00	0.00	VOLT 11N-3C-L_BPZ
18,156.36	90.21	89.63	7,151.64	938.10	12,316.98	0.00	0.00	0.00	0.00	

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Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 11N-3C-L
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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
260.00	0.00	0.00	260.00	0.00	0.00	0.00	0.00	0.00	0.00
Begin Nudge @ 260.00ft									
300.00	0.80	55.50	300.00	0.16	0.23	0.24	2.00	2.00	0.00
400.00	2.80	55.50	399.94	1.94	2.82	2.96	2.00	2.00	0.00
500.00	4.80	55.50	499.72	5.69	8.28	8.69	2.00	2.00	0.00
600.00	6.80	55.50	599.20	11.41	16.61	17.43	2.00	2.00	0.00
700.00	8.80	55.50	698.27	19.10	27.79	29.16	2.00	2.00	0.00
800.00	10.80	55.50	796.81	28.74	41.82	43.88	2.00	2.00	0.00
900.00	12.80	55.50	894.69	40.32	58.67	61.56	2.00	2.00	0.00
982.50	14.45	55.50	974.87	51.33	74.69	78.37	2.00	2.00	0.00
Hold Tangent @ 982.50ft									
1,000.00	14.45	55.50	991.81	53.80	78.29	82.15	0.00	0.00	0.00
1,100.00	14.45	55.50	1,088.65	67.94	98.85	103.72	0.00	0.00	0.00
1,200.00	14.45	55.50	1,185.48	82.07	119.42	125.30	0.00	0.00	0.00
1,300.00	14.45	55.50	1,282.32	96.21	139.98	146.88	0.00	0.00	0.00
1,400.00	14.45	55.50	1,379.16	110.34	160.54	168.46	0.00	0.00	0.00
1,500.00	14.45	55.50	1,475.99	124.47	181.11	190.04	0.00	0.00	0.00
1,600.00	14.45	55.50	1,572.83	138.61	201.67	211.62	0.00	0.00	0.00
1,700.00	14.45	55.50	1,669.67	152.74	222.24	233.20	0.00	0.00	0.00
1,800.00	14.45	55.50	1,766.50	166.87	242.80	254.78	0.00	0.00	0.00
1,834.59	14.45	55.50	1,800.00	171.76	249.92	262.24	0.00	0.00	0.00
9 5/8"									
1,900.00	14.45	55.50	1,863.34	181.01	263.37	276.35	0.00	0.00	0.00
2,000.00	14.45	55.50	1,960.18	195.14	283.93	297.93	0.00	0.00	0.00
2,100.00	14.45	55.50	2,057.01	209.28	304.50	319.51	0.00	0.00	0.00
2,200.00	14.45	55.50	2,153.85	223.41	325.06	341.09	0.00	0.00	0.00
2,300.00	14.45	55.50	2,250.69	237.54	345.63	362.67	0.00	0.00	0.00
2,400.00	14.45	55.50	2,347.52	251.68	366.19	384.25	0.00	0.00	0.00
2,500.00	14.45	55.50	2,444.36	265.81	386.76	405.83	0.00	0.00	0.00
2,600.00	14.45	55.50	2,541.20	279.95	407.32	427.41	0.00	0.00	0.00
2,700.00	14.45	55.50	2,638.03	294.08	427.89	448.99	0.00	0.00	0.00
2,800.00	14.45	55.50	2,734.87	308.21	448.45	470.56	0.00	0.00	0.00
2,900.00	14.45	55.50	2,831.71	322.35	469.02	492.14	0.00	0.00	0.00
3,000.00	14.45	55.50	2,928.54	336.48	489.58	513.72	0.00	0.00	0.00
3,100.00	14.45	55.50	3,025.38	350.61	510.15	535.30	0.00	0.00	0.00
3,200.00	14.45	55.50	3,122.22	364.75	530.71	556.88	0.00	0.00	0.00
3,300.00	14.45	55.50	3,219.05	378.88	551.28	578.46	0.00	0.00	0.00
3,400.00	14.45	55.50	3,315.89	393.02	571.84	600.04	0.00	0.00	0.00
3,500.00	14.45	55.50	3,412.73	407.15	592.41	621.62	0.00	0.00	0.00
3,600.00	14.45	55.50	3,509.56	421.28	612.97	643.19	0.00	0.00	0.00
3,700.00	14.45	55.50	3,606.40	435.42	633.54	664.77	0.00	0.00	0.00
3,800.00	14.45	55.50	3,703.24	449.55	654.10	686.35	0.00	0.00	0.00
3,900.00	14.45	55.50	3,800.07	463.69	674.67	707.93	0.00	0.00	0.00
4,000.00	14.45	55.50	3,896.91	477.82	695.23	729.51	0.00	0.00	0.00
4,100.00	14.45	55.50	3,993.75	491.95	715.80	751.09	0.00	0.00	0.00
4,200.00	14.45	55.50	4,090.58	506.09	736.36	772.67	0.00	0.00	0.00
4,300.00	14.45	55.50	4,187.42	520.22	756.93	794.25	0.00	0.00	0.00
4,400.00	14.45	55.50	4,284.26	534.35	777.49	815.83	0.00	0.00	0.00
4,500.00	14.45	55.50	4,381.09	548.49	798.05	837.40	0.00	0.00	0.00
4,600.00	14.45	55.50	4,477.93	562.62	818.62	858.98	0.00	0.00	0.00

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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)
4,700.00	14.45	55.50	4,574.77	576.76	839.18	880.56	0.00	0.00	0.00
4,800.00	14.45	55.50	4,671.60	590.89	859.75	902.14	0.00	0.00	0.00
4,900.00	14.45	55.50	4,768.44	605.02	880.31	923.72	0.00	0.00	0.00
5,000.00	14.45	55.50	4,865.27	619.16	900.88	945.30	0.00	0.00	0.00
5,100.00	14.45	55.50	4,962.11	633.29	921.44	966.88	0.00	0.00	0.00
5,200.00	14.45	55.50	5,058.95	647.42	942.01	988.46	0.00	0.00	0.00
5,300.00	14.45	55.50	5,155.78	661.56	962.57	1,010.03	0.00	0.00	0.00
5,400.00	14.45	55.50	5,252.62	675.69	983.14	1,031.61	0.00	0.00	0.00
5,500.00	14.45	55.50	5,349.46	689.83	1,003.70	1,053.19	0.00	0.00	0.00
5,600.00	14.45	55.50	5,446.29	703.96	1,024.27	1,074.77	0.00	0.00	0.00
5,700.00	14.45	55.50	5,543.13	718.09	1,044.83	1,096.35	0.00	0.00	0.00
5,800.00	14.45	55.50	5,639.97	732.23	1,065.40	1,117.93	0.00	0.00	0.00
5,900.00	14.45	55.50	5,736.80	746.36	1,085.96	1,139.51	0.00	0.00	0.00
6,000.00	14.45	55.50	5,833.64	760.50	1,106.53	1,161.09	0.00	0.00	0.00
6,100.00	14.45	55.50	5,930.48	774.63	1,127.09	1,182.67	0.00	0.00	0.00
6,200.00	14.45	55.50	6,027.31	788.76	1,147.66	1,204.24	0.00	0.00	0.00
6,300.00	14.45	55.50	6,124.15	802.90	1,168.22	1,225.82	0.00	0.00	0.00
6,400.00	14.45	55.50	6,220.99	817.03	1,188.79	1,247.40	0.00	0.00	0.00
6,500.00	14.45	55.50	6,317.82	831.16	1,209.35	1,268.98	0.00	0.00	0.00
6,600.00	14.45	55.50	6,414.66	845.30	1,229.92	1,290.56	0.00	0.00	0.00
6,700.00	14.45	55.50	6,511.50	859.43	1,250.48	1,312.14	0.00	0.00	0.00
6,800.00	14.45	55.50	6,608.33	873.57	1,271.05	1,333.72	0.00	0.00	0.00
6,880.41	14.45	55.50	6,686.20	884.93	1,287.58	1,351.07	0.00	0.00	0.00
KOP @ 6880.41ft :: DLS = 9°/100'									
6,900.00	15.89	59.40	6,705.11	887.68	1,291.91	1,355.59	9.00	7.35	19.89
7,000.00	23.91	71.68	6,799.10	901.05	1,322.99	1,387.59	9.00	8.02	12.28
7,100.00	32.42	77.92	6,887.20	913.05	1,368.53	1,433.92	9.00	8.52	6.24
7,200.00	41.13	81.75	6,967.23	923.40	1,427.41	1,493.41	9.00	8.71	3.84
7,300.00	49.92	84.44	7,037.23	931.84	1,498.18	1,564.62	9.00	8.79	2.69
7,400.00	58.76	86.51	7,095.47	938.16	1,579.10	1,645.79	9.00	8.84	2.07
7,500.00	67.63	88.22	7,140.51	942.21	1,668.17	1,734.91	9.00	8.87	1.71
7,600.00	76.52	89.72	7,171.26	943.88	1,763.21	1,829.79	9.00	8.89	1.50
7,700.00	85.41	91.12	7,186.94	943.14	1,861.86	1,928.11	9.00	8.89	1.40
7,753.85	90.21	91.85	7,189.00	941.74	1,915.64	1,981.62	9.00	8.90	1.36
End Build @ 7753.85ft - Production Zone Top									
7,800.00	90.21	91.85	7,188.83	940.25	1,961.76	2,027.50	0.00	0.00	0.00
7,900.00	90.21	91.85	7,188.47	937.02	2,061.71	2,126.92	0.00	0.00	0.00
8,000.00	90.21	91.85	7,188.11	933.78	2,161.66	2,226.33	0.00	0.00	0.00
8,100.00	90.21	91.85	7,187.76	930.55	2,261.60	2,325.74	0.00	0.00	0.00
8,200.00	90.21	91.85	7,187.40	927.32	2,361.55	2,425.15	0.00	0.00	0.00
8,300.00	90.21	91.85	7,187.04	924.08	2,461.50	2,524.57	0.00	0.00	0.00
8,400.00	90.21	91.85	7,186.68	920.85	2,561.45	2,623.98	0.00	0.00	0.00
8,500.00	90.21	91.85	7,186.32	917.62	2,661.39	2,723.39	0.00	0.00	0.00
8,600.00	90.21	91.85	7,185.96	914.38	2,761.34	2,822.81	0.00	0.00	0.00
8,700.00	90.21	91.85	7,185.60	911.15	2,861.29	2,922.22	0.00	0.00	0.00
8,800.00	90.21	91.85	7,185.24	907.92	2,961.23	3,021.63	0.00	0.00	0.00
8,900.00	90.21	91.85	7,184.89	904.68	3,061.18	3,121.05	0.00	0.00	0.00
9,000.00	90.21	91.85	7,184.53	901.45	3,161.13	3,220.46	0.00	0.00	0.00
9,100.00	90.21	91.85	7,184.17	898.22	3,261.08	3,319.87	0.00	0.00	0.00
9,200.00	90.21	91.85	7,183.81	894.98	3,361.02	3,419.28	0.00	0.00	0.00
9,300.00	90.21	91.85	7,183.45	891.75	3,460.97	3,518.70	0.00	0.00	0.00
9,400.00	90.21	91.85	7,183.09	888.52	3,560.92	3,618.11	0.00	0.00	0.00
9,500.00	90.21	91.85	7,182.73	885.28	3,660.86	3,717.52	0.00	0.00	0.00
9,508.81	90.21	91.85	7,182.70	885.00	3,669.67	3,726.28	0.00	0.00	0.00

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 11N-3C-L
Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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)
Begin Turn to BHL @ 9508.81ft									
9,600.00	90.21	90.03	7,182.37	883.50	3,760.84	3,817.08	2.00	0.00	-2.00
9,619.75	90.21	89.63	7,182.30	883.56	3,780.59	3,836.78	2.00	0.00	-2.00
End Turn @ 9619.75ft									
9,700.00	90.21	89.63	7,182.01	884.07	3,860.84	3,916.83	0.00	0.00	0.00
9,800.00	90.21	89.63	7,181.65	884.71	3,960.84	4,016.59	0.00	0.00	0.00
9,900.00	90.21	89.63	7,181.30	885.35	4,060.83	4,116.34	0.00	0.00	0.00
10,000.00	90.21	89.63	7,180.94	885.99	4,160.83	4,216.10	0.00	0.00	0.00
10,100.00	90.21	89.63	7,180.58	886.63	4,260.83	4,315.86	0.00	0.00	0.00
10,200.00	90.21	89.63	7,180.22	887.27	4,360.83	4,415.61	0.00	0.00	0.00
10,300.00	90.21	89.63	7,179.86	887.91	4,460.82	4,515.37	0.00	0.00	0.00
10,400.00	90.21	89.63	7,179.50	888.55	4,560.82	4,615.13	0.00	0.00	0.00
10,500.00	90.21	89.63	7,179.14	889.18	4,660.82	4,714.89	0.00	0.00	0.00
10,600.00	90.21	89.63	7,178.78	889.82	4,760.82	4,814.64	0.00	0.00	0.00
10,700.00	90.21	89.63	7,178.42	890.46	4,860.81	4,914.40	0.00	0.00	0.00
10,800.00	90.21	89.63	7,178.06	891.10	4,960.81	5,014.16	0.00	0.00	0.00
10,900.00	90.21	89.63	7,177.70	891.74	5,060.81	5,113.91	0.00	0.00	0.00
11,000.00	90.21	89.63	7,177.34	892.38	5,160.80	5,213.67	0.00	0.00	0.00
11,100.00	90.21	89.63	7,176.99	893.02	5,260.80	5,313.43	0.00	0.00	0.00
11,200.00	90.21	89.63	7,176.63	893.66	5,360.80	5,413.19	0.00	0.00	0.00
11,300.00	90.21	89.63	7,176.27	894.30	5,460.80	5,512.94	0.00	0.00	0.00
11,400.00	90.21	89.63	7,175.91	894.93	5,560.79	5,612.70	0.00	0.00	0.00
11,500.00	90.21	89.63	7,175.55	895.57	5,660.79	5,712.46	0.00	0.00	0.00
11,600.00	90.21	89.63	7,175.19	896.21	5,760.79	5,812.21	0.00	0.00	0.00
11,700.00	90.21	89.63	7,174.83	896.85	5,860.79	5,911.97	0.00	0.00	0.00
11,800.00	90.21	89.63	7,174.47	897.49	5,960.78	6,011.73	0.00	0.00	0.00
11,900.00	90.21	89.63	7,174.11	898.13	6,060.78	6,111.48	0.00	0.00	0.00
12,000.00	90.21	89.63	7,173.75	898.77	6,160.78	6,211.24	0.00	0.00	0.00
12,100.00	90.21	89.63	7,173.39	899.41	6,260.78	6,311.00	0.00	0.00	0.00
12,200.00	90.21	89.63	7,173.03	900.04	6,360.77	6,410.76	0.00	0.00	0.00
12,300.00	90.21	89.63	7,172.68	900.68	6,460.77	6,510.51	0.00	0.00	0.00
12,400.00	90.21	89.63	7,172.32	901.32	6,560.77	6,610.27	0.00	0.00	0.00
12,500.00	90.21	89.63	7,171.96	901.96	6,660.76	6,710.03	0.00	0.00	0.00
12,600.00	90.21	89.63	7,171.60	902.60	6,760.76	6,809.78	0.00	0.00	0.00
12,700.00	90.21	89.63	7,171.24	903.24	6,860.76	6,909.54	0.00	0.00	0.00
12,800.00	90.21	89.63	7,170.88	903.88	6,960.76	7,009.30	0.00	0.00	0.00
12,900.00	90.21	89.63	7,170.52	904.52	7,060.75	7,109.06	0.00	0.00	0.00
13,000.00	90.21	89.63	7,170.16	905.16	7,160.75	7,208.81	0.00	0.00	0.00
13,100.00	90.21	89.63	7,169.80	905.79	7,260.75	7,308.57	0.00	0.00	0.00
13,200.00	90.21	89.63	7,169.44	906.43	7,360.75	7,408.33	0.00	0.00	0.00
13,300.00	90.21	89.63	7,169.08	907.07	7,460.74	7,508.08	0.00	0.00	0.00
13,400.00	90.21	89.63	7,168.72	907.71	7,560.74	7,607.84	0.00	0.00	0.00
13,500.00	90.21	89.63	7,168.37	908.35	7,660.74	7,707.60	0.00	0.00	0.00
13,600.00	90.21	89.63	7,168.01	908.99	7,760.74	7,807.35	0.00	0.00	0.00
13,700.00	90.21	89.63	7,167.65	909.63	7,860.73	7,907.11	0.00	0.00	0.00
13,800.00	90.21	89.63	7,167.29	910.27	7,960.73	8,006.87	0.00	0.00	0.00
13,900.00	90.21	89.63	7,166.93	910.91	8,060.73	8,106.63	0.00	0.00	0.00
14,000.00	90.21	89.63	7,166.57	911.54	8,160.72	8,206.38	0.00	0.00	0.00
14,100.00	90.21	89.63	7,166.21	912.18	8,260.72	8,306.14	0.00	0.00	0.00
14,200.00	90.21	89.63	7,165.85	912.82	8,360.72	8,405.90	0.00	0.00	0.00
14,300.00	90.21	89.63	7,165.49	913.46	8,460.72	8,505.65	0.00	0.00	0.00
14,400.00	90.21	89.63	7,165.13	914.10	8,560.71	8,605.41	0.00	0.00	0.00
14,500.00	90.21	89.63	7,164.77	914.74	8,660.71	8,705.17	0.00	0.00	0.00
14,600.00	90.21	89.63	7,164.41	915.38	8,760.71	8,804.93	0.00	0.00	0.00

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Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-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)	
14,700.00	90.21	89.63	7,164.06	916.02	8,860.71	8,904.68	0.00	0.00	0.00	
14,800.00	90.21	89.63	7,163.70	916.65	8,960.70	9,004.44	0.00	0.00	0.00	
14,900.00	90.21	89.63	7,163.34	917.29	9,060.70	9,104.20	0.00	0.00	0.00	
15,000.00	90.21	89.63	7,162.98	917.93	9,160.70	9,203.95	0.00	0.00	0.00	
15,100.00	90.21	89.63	7,162.62	918.57	9,260.69	9,303.71	0.00	0.00	0.00	
15,200.00	90.21	89.63	7,162.26	919.21	9,360.69	9,403.47	0.00	0.00	0.00	
15,300.00	90.21	89.63	7,161.90	919.85	9,460.69	9,503.22	0.00	0.00	0.00	
15,400.00	90.21	89.63	7,161.54	920.49	9,560.69	9,602.98	0.00	0.00	0.00	
15,500.00	90.21	89.63	7,161.18	921.13	9,660.68	9,702.74	0.00	0.00	0.00	
15,600.00	90.21	89.63	7,160.82	921.77	9,760.68	9,802.50	0.00	0.00	0.00	
15,700.00	90.21	89.63	7,160.46	922.40	9,860.68	9,902.25	0.00	0.00	0.00	
15,800.00	90.21	89.63	7,160.10	923.04	9,960.68	10,002.01	0.00	0.00	0.00	
15,900.00	90.21	89.63	7,159.75	923.68	10,060.67	10,101.77	0.00	0.00	0.00	
16,000.00	90.21	89.63	7,159.39	924.32	10,160.67	10,201.52	0.00	0.00	0.00	
16,100.00	90.21	89.63	7,159.03	924.96	10,260.67	10,301.28	0.00	0.00	0.00	
16,200.00	90.21	89.63	7,158.67	925.60	10,360.67	10,401.04	0.00	0.00	0.00	
16,300.00	90.21	89.63	7,158.31	926.24	10,460.66	10,500.80	0.00	0.00	0.00	
16,400.00	90.21	89.63	7,157.95	926.88	10,560.66	10,600.55	0.00	0.00	0.00	
16,500.00	90.21	89.63	7,157.59	927.52	10,660.66	10,700.31	0.00	0.00	0.00	
16,600.00	90.21	89.63	7,157.23	928.15	10,760.65	10,800.07	0.00	0.00	0.00	
16,700.00	90.21	89.63	7,156.87	928.79	10,860.65	10,899.82	0.00	0.00	0.00	
16,800.00	90.21	89.63	7,156.51	929.43	10,960.65	10,999.58	0.00	0.00	0.00	
16,900.00	90.21	89.63	7,156.15	930.07	11,060.65	11,099.34	0.00	0.00	0.00	
17,000.00	90.21	89.63	7,155.79	930.71	11,160.64	11,199.09	0.00	0.00	0.00	
17,100.00	90.21	89.63	7,155.44	931.35	11,260.64	11,298.85	0.00	0.00	0.00	
17,200.00	90.21	89.63	7,155.08	931.99	11,360.64	11,398.61	0.00	0.00	0.00	
17,300.00	90.21	89.63	7,154.72	932.63	11,460.64	11,498.37	0.00	0.00	0.00	
17,400.00	90.21	89.63	7,154.36	933.26	11,560.63	11,598.12	0.00	0.00	0.00	
17,500.00	90.21	89.63	7,154.00	933.90	11,660.63	11,697.88	0.00	0.00	0.00	
17,600.00	90.21	89.63	7,153.64	934.54	11,760.63	11,797.64	0.00	0.00	0.00	
17,700.00	90.21	89.63	7,153.28	935.18	11,860.63	11,897.39	0.00	0.00	0.00	
17,800.00	90.21	89.63	7,152.92	935.82	11,960.62	11,997.15	0.00	0.00	0.00	
17,900.00	90.21	89.63	7,152.56	936.46	12,060.62	12,096.91	0.00	0.00	0.00	
18,000.00	90.21	89.63	7,152.20	937.10	12,160.62	12,196.67	0.00	0.00	0.00	
18,056.36	90.21	89.63	7,152.00	937.46	12,216.98	12,252.89	0.00	0.00	0.00	
Bottom of Production @ 18056.36ft										
18,100.00	90.21	89.63	7,151.84	937.74	12,260.61	12,296.42	0.00	0.00	0.00	
18,156.36	90.21	89.63	7,151.64	938.10	12,316.98	12,352.65	0.00	0.00	0.00	
TD Well @ 18156.36ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,834.59	1,800.00	9 5/8"	9-5/8	13-1/2	
7,753.85	7,189.00	Production Zone Top	5-1/2	8-1/2	

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Planning Report

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Company:	SRC ENERGY	TVD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4819.00usft (IKON 12)
Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 11N-3C-L	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
260.00	260.00	0.00	0.00	Begin Nudge @ 260.00ft
982.50	974.87	51.33	74.69	Hold Tangent @ 982.50ft
6,880.41	6,686.20	884.93	1,287.58	KOP @ 6880.41ft :: DLS = 9°/100'
7,753.85	7,189.00	941.74	1,915.64	End Build @ 7753.85ft
9,508.81	7,182.70	885.00	3,669.67	Begin Turn to BHL @ 9508.81ft
9,619.75	7,182.30	883.56	3,780.59	End Turn @ 9619.75ft
18,056.36	7,152.00	937.46	12,216.98	Bottom of Production @ 18056.36ft
18,156.36	7,151.64	938.10	12,316.98	TD Well @ 18156.36ft