

SRC ENERGY

WELD COUNTY (NAD83, TRUE NORTH)

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

VOLT 34N-6B-M

Wellbore #1

Plan: Design #1

Standard Planning Report

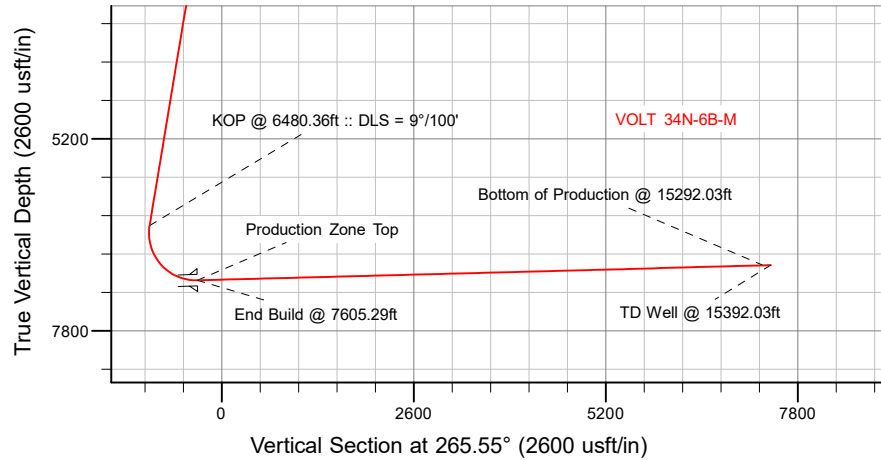
18 November, 2018

Project: WELD COUNTY (NAD83, TRUE NORTH)
Site: 5N-66W-05 VOLT 19-5 PAD
Well: VOLT 34N-6B-M
Wellbore: Wellbore #1
Design: Design #1

SRC ENERGY

CASING DETAILS

TVD	MD	Name
1800.00	1822.36	9 5/8"
7117.00	7605.29	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	740.00	10.80	115.20	736.81	-21.61	45.91	2.00	115.20	-44.10	
4	6480.36	10.80	115.20	6375.49	-479.59	1019.18	0.00	0.00	-978.91	
5	7605.29	91.51	269.77	7117.00	-544.63	375.33	9.00	154.04	-331.95	
6	15292.03	91.51	269.77	6915.00	-575.96	-7308.70	0.00	0.00	7331.35	VOLT 34N-6B-M_BPZ
7	15392.03	91.51	269.77	6912.37	-576.37	-7408.66	0.00	0.00	7431.05	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VOLT 34N-6B-M_SHL	0.00	0.00	0.00	40.424556	-104.805642
VOLT 34N-6B-M_BHL	6912.37	-576.37	-7408.66	40.422971	-104.832252
VOLT 34N-6B-M_BPZ	6915.00	-575.96	-7308.70	40.422972	-104.831893

SHL
1167' FSL
2062' FWL

LP
614' FSL
2487' FWL
40.423061° Lat
-104.804294° Long

BPZ
509' FSL
150' FWL

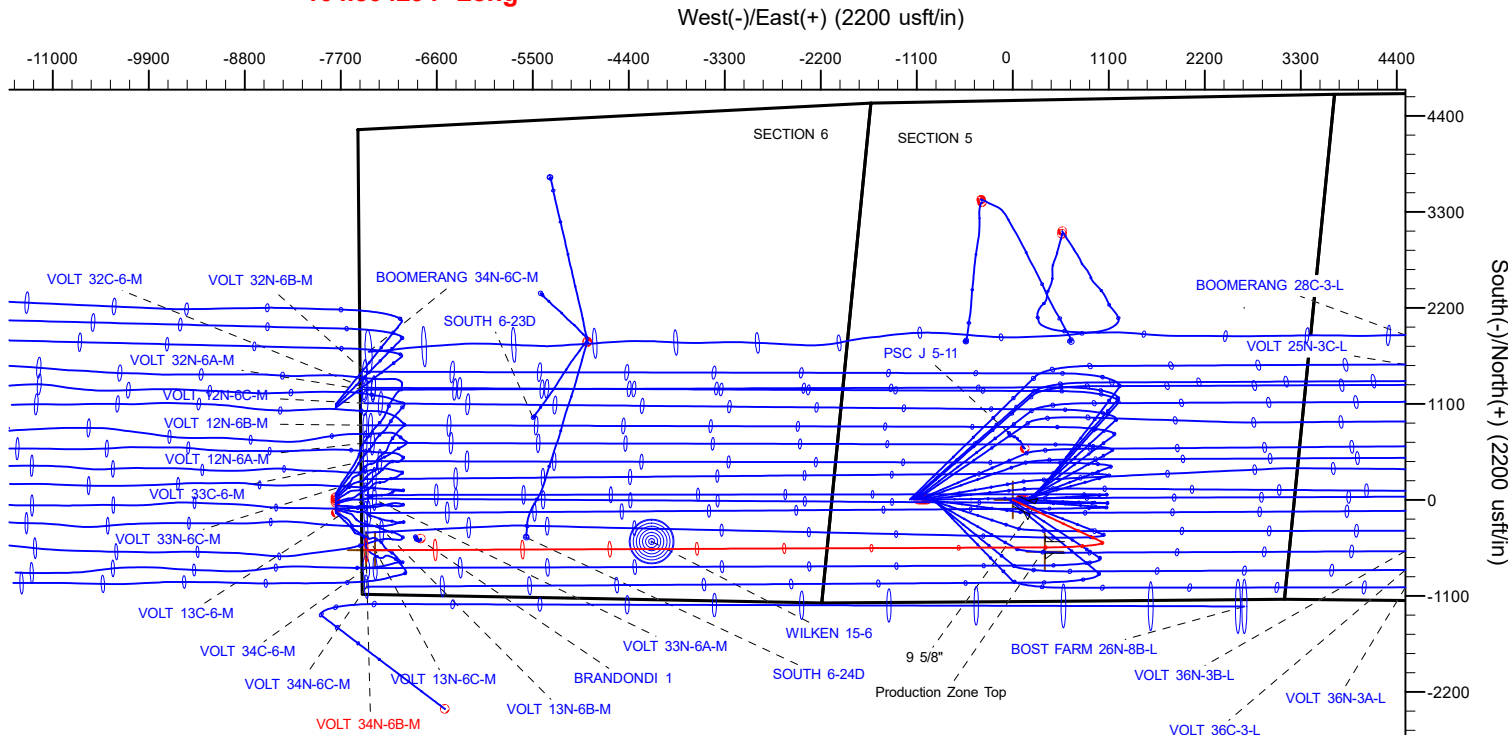
BHL
507' FSL
50' FWL

WELL DETAILS: VOLT 34N-6B-M

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

Plan: Design #1 (VOLT 34N-6B-M/Wellbore #1)

Date: 11/18/2018



T Azimuths to True North
M Magnetic North: 8.09°
Magnetic Field
Strength: 52243.7snT
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 34N-6B-M
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 34N-6B-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-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 34N-6B-M			
Well Position	+N/-S	-3.99 usft	Northing:	1,398,262.95 usft
	+E/-W	1,179.62 usft	Easting:	3,193,313.87 usft
Position Uncertainty		3.28 usft	Wellhead Elevation:	Latitude: 40.424556
				Longitude: -104.805642
				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	52,243.70484782

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	265.55

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	15,392.03	Design #1 (Wellbore #1)	SRC Energy_ISCWSA REV 2
				Fixed:v2:Rockies, crustal dec +

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Well:	VOLT 34N-6B-M	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	
740.00	10.80	115.20	736.81	-21.61	45.91	2.00	2.00	0.00	115.20	
6,480.36	10.80	115.20	6,375.49	-479.59	1,019.18	0.00	0.00	0.00	0.00	
7,605.29	91.51	269.77	7,117.00	-544.63	375.33	9.00	7.17	13.74	154.04	
15,292.03	91.51	269.77	6,915.00	-575.96	-7,308.70	0.00	0.00	0.00	0.00	VOLT 34N-6B-M_BP2
15,392.03	91.51	269.77	6,912.37	-576.37	-7,408.66	0.00	0.00	0.00	0.00	

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Planning Report

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Site:	5N-66W-05 VOLT 19-5 PAD	North Reference:	True
Well:	VOLT 34N-6B-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	115.20	299.98	-0.74	1.58	-1.52	2.00	2.00	0.00
400.00	4.00	115.20	399.84	-2.97	6.31	-6.06	2.00	2.00	0.00
500.00	6.00	115.20	499.45	-6.68	14.20	-13.64	2.00	2.00	0.00
600.00	8.00	115.20	598.70	-11.87	25.23	-24.23	2.00	2.00	0.00
700.00	10.00	115.20	697.47	-18.53	39.38	-37.82	2.00	2.00	0.00
740.00	10.80	115.20	736.81	-21.61	45.91	-44.10	2.00	2.00	0.00
Hold Tangent @ 740.00ft									
800.00	10.80	115.20	795.75	-26.39	56.09	-53.87	0.00	0.00	0.00
900.00	10.80	115.20	893.97	-34.37	73.04	-70.16	0.00	0.00	0.00
1,000.00	10.80	115.20	992.20	-42.35	90.00	-86.44	0.00	0.00	0.00
1,100.00	10.80	115.20	1,090.43	-50.33	106.95	-102.73	0.00	0.00	0.00
1,200.00	10.80	115.20	1,188.66	-58.31	123.91	-119.01	0.00	0.00	0.00
1,300.00	10.80	115.20	1,286.89	-66.28	140.86	-135.30	0.00	0.00	0.00
1,400.00	10.80	115.20	1,385.12	-74.26	157.82	-151.58	0.00	0.00	0.00
1,500.00	10.80	115.20	1,483.35	-82.24	174.77	-167.86	0.00	0.00	0.00
1,600.00	10.80	115.20	1,581.57	-90.22	191.72	-184.15	0.00	0.00	0.00
1,700.00	10.80	115.20	1,679.80	-98.20	208.68	-200.43	0.00	0.00	0.00
1,800.00	10.80	115.20	1,778.03	-106.18	225.63	-216.72	0.00	0.00	0.00
1,822.36	10.80	115.20	1,800.00	-107.96	229.43	-220.36	0.00	0.00	0.00
9 5/8"									
1,900.00	10.80	115.20	1,876.26	-114.15	242.59	-233.00	0.00	0.00	0.00
2,000.00	10.80	115.20	1,974.49	-122.13	259.54	-249.29	0.00	0.00	0.00
2,100.00	10.80	115.20	2,072.72	-130.11	276.50	-265.57	0.00	0.00	0.00
2,200.00	10.80	115.20	2,170.95	-138.09	293.45	-281.86	0.00	0.00	0.00
2,300.00	10.80	115.20	2,269.18	-146.07	310.41	-298.14	0.00	0.00	0.00
2,400.00	10.80	115.20	2,367.40	-154.05	327.36	-314.43	0.00	0.00	0.00
2,500.00	10.80	115.20	2,465.63	-162.02	344.32	-330.71	0.00	0.00	0.00
2,600.00	10.80	115.20	2,563.86	-170.00	361.27	-347.00	0.00	0.00	0.00
2,700.00	10.80	115.20	2,662.09	-177.98	378.23	-363.28	0.00	0.00	0.00
2,800.00	10.80	115.20	2,760.32	-185.96	395.18	-379.57	0.00	0.00	0.00
2,900.00	10.80	115.20	2,858.55	-193.94	412.14	-395.85	0.00	0.00	0.00
3,000.00	10.80	115.20	2,956.78	-201.92	429.09	-412.14	0.00	0.00	0.00
3,100.00	10.80	115.20	3,055.01	-209.89	446.05	-428.42	0.00	0.00	0.00
3,200.00	10.80	115.20	3,153.23	-217.87	463.00	-444.71	0.00	0.00	0.00
3,300.00	10.80	115.20	3,251.46	-225.85	479.96	-460.99	0.00	0.00	0.00
3,400.00	10.80	115.20	3,349.69	-233.83	496.91	-477.28	0.00	0.00	0.00
3,500.00	10.80	115.20	3,447.92	-241.81	513.87	-493.56	0.00	0.00	0.00
3,600.00	10.80	115.20	3,546.15	-249.79	530.82	-509.85	0.00	0.00	0.00
3,700.00	10.80	115.20	3,644.38	-257.76	547.78	-526.13	0.00	0.00	0.00
3,800.00	10.80	115.20	3,742.61	-265.74	564.73	-542.42	0.00	0.00	0.00
3,900.00	10.80	115.20	3,840.84	-273.72	581.68	-558.70	0.00	0.00	0.00
4,000.00	10.80	115.20	3,939.06	-281.70	598.64	-574.99	0.00	0.00	0.00
4,100.00	10.80	115.20	4,037.29	-289.68	615.59	-591.27	0.00	0.00	0.00
4,200.00	10.80	115.20	4,135.52	-297.65	632.55	-607.56	0.00	0.00	0.00
4,300.00	10.80	115.20	4,233.75	-305.63	649.50	-623.84	0.00	0.00	0.00
4,400.00	10.80	115.20	4,331.98	-313.61	666.46	-640.13	0.00	0.00	0.00
4,500.00	10.80	115.20	4,430.21	-321.59	683.41	-656.41	0.00	0.00	0.00
4,600.00	10.80	115.20	4,528.44	-329.57	700.37	-672.70	0.00	0.00	0.00
4,700.00	10.80	115.20	4,626.67	-337.55	717.32	-688.98	0.00	0.00	0.00

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Planning Report

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Project:	WELD COUNTY (NAD83, TRUE NORTH)	MD Reference:	RKB = 4' @ 4817.00usft (IKON 12)
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Well:	VOLT 34N-6B-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	10.80	115.20	4,724.89	-345.52	734.28	-705.27	0.00	0.00	0.00
4,900.00	10.80	115.20	4,823.12	-353.50	751.23	-721.55	0.00	0.00	0.00
5,000.00	10.80	115.20	4,921.35	-361.48	768.19	-737.84	0.00	0.00	0.00
5,100.00	10.80	115.20	5,019.58	-369.46	785.14	-754.12	0.00	0.00	0.00
5,200.00	10.80	115.20	5,117.81	-377.44	802.10	-770.41	0.00	0.00	0.00
5,300.00	10.80	115.20	5,216.04	-385.42	819.05	-786.69	0.00	0.00	0.00
5,400.00	10.80	115.20	5,314.27	-393.39	836.01	-802.98	0.00	0.00	0.00
5,500.00	10.80	115.20	5,412.50	-401.37	852.96	-819.26	0.00	0.00	0.00
5,600.00	10.80	115.20	5,510.72	-409.35	869.92	-835.54	0.00	0.00	0.00
5,700.00	10.80	115.20	5,608.95	-417.33	886.87	-851.83	0.00	0.00	0.00
5,800.00	10.80	115.20	5,707.18	-425.31	903.83	-868.11	0.00	0.00	0.00
5,900.00	10.80	115.20	5,805.41	-433.29	920.78	-884.40	0.00	0.00	0.00
6,000.00	10.80	115.20	5,903.64	-441.26	937.73	-900.68	0.00	0.00	0.00
6,100.00	10.80	115.20	6,001.87	-449.24	954.69	-916.97	0.00	0.00	0.00
6,200.00	10.80	115.20	6,100.10	-457.22	971.64	-933.25	0.00	0.00	0.00
6,300.00	10.80	115.20	6,198.33	-465.20	988.60	-949.54	0.00	0.00	0.00
6,400.00	10.80	115.20	6,296.55	-473.18	1,005.55	-965.82	0.00	0.00	0.00
6,480.36	10.80	115.20	6,375.49	-479.59	1,019.18	-978.91	0.00	0.00	0.00
KOP @ 6480.36ft :: DLS = 9°/100'									
6,500.00	9.24	120.02	6,394.83	-481.16	1,022.21	-981.81	9.00	-7.93	24.55
6,600.00	4.82	192.07	6,494.21	-489.30	1,028.30	-987.25	9.00	-4.43	72.04
6,700.00	11.07	244.78	6,593.31	-497.52	1,018.71	-977.06	9.00	6.26	52.71
6,800.00	19.59	256.27	6,689.68	-505.61	993.69	-951.48	9.00	8.51	11.49
6,900.00	28.40	260.89	6,780.96	-513.37	953.85	-911.16	9.00	8.81	4.62
7,000.00	37.29	263.44	6,864.89	-520.61	900.17	-857.08	9.00	8.89	2.55
7,100.00	46.22	265.12	6,939.42	-527.16	833.97	-790.57	9.00	8.93	1.68
7,200.00	55.17	266.36	7,002.70	-532.84	756.88	-713.27	9.00	8.95	1.24
7,300.00	64.13	267.36	7,053.18	-537.54	670.80	-627.09	9.00	8.96	1.00
7,400.00	73.09	268.21	7,089.61	-541.11	577.85	-534.14	9.00	8.96	0.85
7,500.00	82.06	268.98	7,111.10	-543.49	480.32	-436.72	9.00	8.97	0.78
7,600.00	91.03	269.73	7,117.12	-544.61	380.61	-337.23	9.00	8.97	0.74
7,605.29	91.51	269.77	7,117.00	-544.63	375.32	-331.95	8.99	8.96	0.74
End Build @ 7605.29ft - Production Zone Top									
7,700.00	91.51	269.77	7,114.51	-545.02	280.65	-237.53	0.00	0.00	0.00
7,800.00	91.51	269.77	7,111.88	-545.43	180.68	-137.83	0.00	0.00	0.00
7,900.00	91.51	269.77	7,109.26	-545.83	80.72	-38.14	0.00	0.00	0.00
8,000.00	91.51	269.77	7,106.63	-546.24	-19.25	61.56	0.00	0.00	0.00
8,100.00	91.51	269.77	7,104.00	-546.65	-119.21	161.25	0.00	0.00	0.00
8,200.00	91.51	269.77	7,101.37	-547.06	-219.18	260.95	0.00	0.00	0.00
8,300.00	91.51	269.77	7,098.74	-547.46	-319.14	360.64	0.00	0.00	0.00
8,400.00	91.51	269.77	7,096.12	-547.87	-419.10	460.34	0.00	0.00	0.00
8,500.00	91.51	269.77	7,093.49	-548.28	-519.07	560.03	0.00	0.00	0.00
8,600.00	91.51	269.77	7,090.86	-548.69	-619.03	659.73	0.00	0.00	0.00
8,700.00	91.51	269.77	7,088.23	-549.09	-719.00	759.42	0.00	0.00	0.00
8,800.00	91.51	269.77	7,085.60	-549.50	-818.96	859.12	0.00	0.00	0.00
8,900.00	91.51	269.77	7,082.98	-549.91	-918.93	958.81	0.00	0.00	0.00
9,000.00	91.51	269.77	7,080.35	-550.32	-1,018.89	1,058.51	0.00	0.00	0.00
9,100.00	91.51	269.77	7,077.72	-550.72	-1,118.86	1,158.20	0.00	0.00	0.00
9,200.00	91.51	269.77	7,075.09	-551.13	-1,218.82	1,257.90	0.00	0.00	0.00
9,300.00	91.51	269.77	7,072.47	-551.54	-1,318.79	1,357.59	0.00	0.00	0.00
9,400.00	91.51	269.77	7,069.84	-551.95	-1,418.75	1,457.29	0.00	0.00	0.00
9,500.00	91.51	269.77	7,067.21	-552.35	-1,518.72	1,556.98	0.00	0.00	0.00
9,600.00	91.51	269.77	7,064.58	-552.76	-1,618.68	1,656.68	0.00	0.00	0.00
9,700.00	91.51	269.77	7,061.95	-553.17	-1,718.65	1,756.37	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
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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	91.51	269.77	7,059.33	-553.58	-1,818.61	1,856.07	0.00	0.00	0.00	
9,900.00	91.51	269.77	7,056.70	-553.98	-1,918.57	1,955.76	0.00	0.00	0.00	
10,000.00	91.51	269.77	7,054.07	-554.39	-2,018.54	2,055.46	0.00	0.00	0.00	
10,100.00	91.51	269.77	7,051.44	-554.80	-2,118.50	2,155.15	0.00	0.00	0.00	
10,200.00	91.51	269.77	7,048.81	-555.21	-2,218.47	2,254.85	0.00	0.00	0.00	
10,300.00	91.51	269.77	7,046.19	-555.61	-2,318.43	2,354.54	0.00	0.00	0.00	
10,400.00	91.51	269.77	7,043.56	-556.02	-2,418.40	2,454.24	0.00	0.00	0.00	
10,500.00	91.51	269.77	7,040.93	-556.43	-2,518.36	2,553.93	0.00	0.00	0.00	
10,600.00	91.51	269.77	7,038.30	-556.84	-2,618.33	2,653.63	0.00	0.00	0.00	
10,700.00	91.51	269.77	7,035.67	-557.24	-2,718.29	2,753.32	0.00	0.00	0.00	
10,800.00	91.51	269.77	7,033.05	-557.65	-2,818.26	2,853.02	0.00	0.00	0.00	
10,900.00	91.51	269.77	7,030.42	-558.06	-2,918.22	2,952.71	0.00	0.00	0.00	
11,000.00	91.51	269.77	7,027.79	-558.47	-3,018.19	3,052.41	0.00	0.00	0.00	
11,100.00	91.51	269.77	7,025.16	-558.87	-3,118.15	3,152.10	0.00	0.00	0.00	
11,200.00	91.51	269.77	7,022.53	-559.28	-3,218.11	3,251.80	0.00	0.00	0.00	
11,300.00	91.51	269.77	7,019.91	-559.69	-3,318.08	3,351.49	0.00	0.00	0.00	
11,400.00	91.51	269.77	7,017.28	-560.10	-3,418.04	3,451.19	0.00	0.00	0.00	
11,500.00	91.51	269.77	7,014.65	-560.51	-3,518.01	3,550.88	0.00	0.00	0.00	
11,600.00	91.51	269.77	7,012.02	-560.91	-3,617.97	3,650.58	0.00	0.00	0.00	
11,700.00	91.51	269.77	7,009.40	-561.32	-3,717.94	3,750.27	0.00	0.00	0.00	
11,800.00	91.51	269.77	7,006.77	-561.73	-3,817.90	3,849.97	0.00	0.00	0.00	
11,900.00	91.51	269.77	7,004.14	-562.14	-3,917.87	3,949.67	0.00	0.00	0.00	
12,000.00	91.51	269.77	7,001.51	-562.54	-4,017.83	4,049.36	0.00	0.00	0.00	
12,100.00	91.51	269.77	6,998.88	-562.95	-4,117.80	4,149.06	0.00	0.00	0.00	
12,200.00	91.51	269.77	6,996.26	-563.36	-4,217.76	4,248.75	0.00	0.00	0.00	
12,300.00	91.51	269.77	6,993.63	-563.77	-4,317.73	4,348.45	0.00	0.00	0.00	
12,400.00	91.51	269.77	6,991.00	-564.17	-4,417.69	4,448.14	0.00	0.00	0.00	
12,500.00	91.51	269.77	6,988.37	-564.58	-4,517.66	4,547.84	0.00	0.00	0.00	
12,600.00	91.51	269.77	6,985.74	-564.99	-4,617.62	4,647.53	0.00	0.00	0.00	
12,700.00	91.51	269.77	6,983.12	-565.40	-4,717.58	4,747.23	0.00	0.00	0.00	
12,800.00	91.51	269.77	6,980.49	-565.80	-4,817.55	4,846.92	0.00	0.00	0.00	
12,900.00	91.51	269.77	6,977.86	-566.21	-4,917.51	4,946.62	0.00	0.00	0.00	
13,000.00	91.51	269.77	6,975.23	-566.62	-5,017.48	5,046.31	0.00	0.00	0.00	
13,100.00	91.51	269.77	6,972.60	-567.03	-5,117.44	5,146.01	0.00	0.00	0.00	
13,200.00	91.51	269.77	6,969.98	-567.43	-5,217.41	5,245.70	0.00	0.00	0.00	
13,300.00	91.51	269.77	6,967.35	-567.84	-5,317.37	5,345.40	0.00	0.00	0.00	
13,400.00	91.51	269.77	6,964.72	-568.25	-5,417.34	5,445.09	0.00	0.00	0.00	
13,500.00	91.51	269.77	6,962.09	-568.66	-5,517.30	5,544.79	0.00	0.00	0.00	
13,600.00	91.51	269.77	6,959.47	-569.06	-5,617.27	5,644.48	0.00	0.00	0.00	
13,700.00	91.51	269.77	6,956.84	-569.47	-5,717.23	5,744.18	0.00	0.00	0.00	
13,800.00	91.51	269.77	6,954.21	-569.88	-5,817.20	5,843.87	0.00	0.00	0.00	
13,900.00	91.51	269.77	6,951.58	-570.29	-5,917.16	5,943.57	0.00	0.00	0.00	
14,000.00	91.51	269.77	6,948.95	-570.69	-6,017.12	6,043.26	0.00	0.00	0.00	
14,100.00	91.51	269.77	6,946.33	-571.10	-6,117.09	6,142.96	0.00	0.00	0.00	
14,200.00	91.51	269.77	6,943.70	-571.51	-6,217.05	6,242.65	0.00	0.00	0.00	
14,300.00	91.51	269.77	6,941.07	-571.92	-6,317.02	6,342.35	0.00	0.00	0.00	
14,400.00	91.51	269.77	6,938.44	-572.32	-6,416.98	6,442.04	0.00	0.00	0.00	
14,500.00	91.51	269.77	6,935.81	-572.73	-6,516.95	6,541.74	0.00	0.00	0.00	
14,600.00	91.51	269.77	6,933.19	-573.14	-6,616.91	6,641.43	0.00	0.00	0.00	
14,700.00	91.51	269.77	6,930.56	-573.55	-6,716.88	6,741.13	0.00	0.00	0.00	
14,800.00	91.51	269.77	6,927.93	-573.95	-6,816.84	6,840.82	0.00	0.00	0.00	
14,900.00	91.51	269.77	6,925.30	-574.36	-6,916.81	6,940.52	0.00	0.00	0.00	
15,000.00	91.51	269.77	6,922.67	-574.77	-7,016.77	7,040.21	0.00	0.00	0.00	
15,100.00	91.51	269.77	6,920.05	-575.18	-7,116.74	7,139.91	0.00	0.00	0.00	

Hewlett-Packard

Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well VOLT 34N-6B-M
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 34N-6B-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	91.51	269.77	6,917.42	-575.58	-7,216.70	7,239.60	0.00	0.00	0.00	
15,292.03	91.51	269.77	6,915.00	-575.96	-7,308.70	7,331.35	0.00	0.00	0.00	
Bottom of Production @ 15292.03ft										
15,300.00	91.51	269.77	6,914.79	-575.99	-7,316.66	7,339.30	0.00	0.00	0.00	
15,392.03	91.51	269.77	6,912.37	-576.37	-7,408.66	7,431.05	0.00	0.00	0.00	
TD Well @ 15392.03ft										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
1,822.36	1,800.00	9 5/8"	9-5/8	13-1/2	
7,605.29	7,117.00	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	
740.00	736.81	-21.61	45.91	Hold Tangent @ 740.00ft	
6,480.36	6,375.49	-479.59	1,019.18	KOP @ 6480.36ft :: DLS = 9°/100'	
7,605.29	7,117.00	-544.63	375.33	End Build @ 7605.29ft	
15,292.03	6,915.00	-575.96	-7,308.70	Bottom of Production @ 15292.03ft	
15,392.03	6,912.37	-576.37	-7,408.66	TD Well @ 15392.03ft	