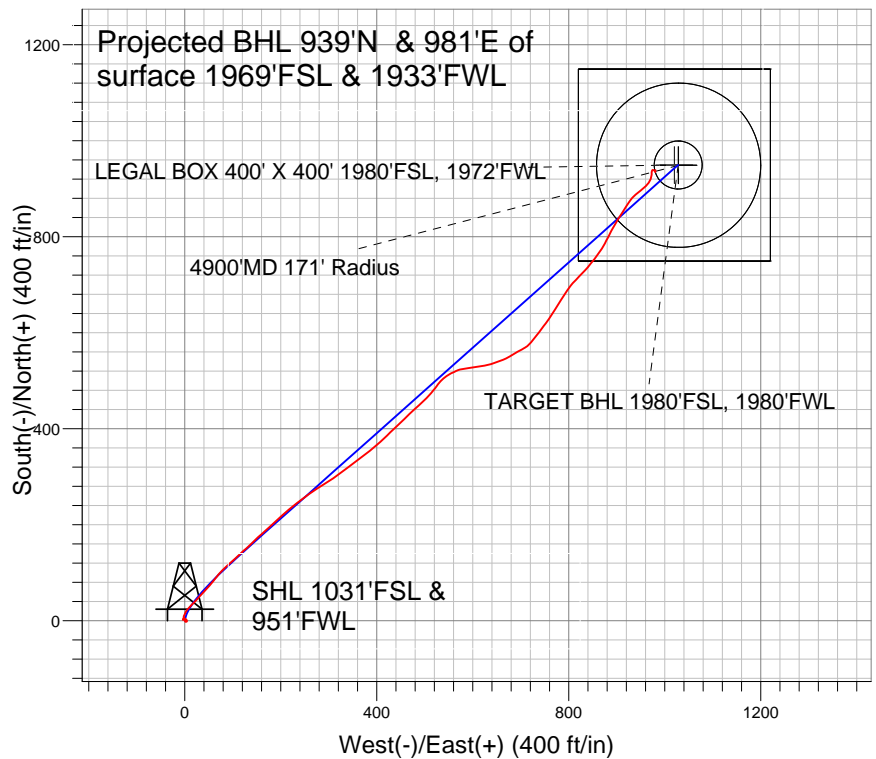
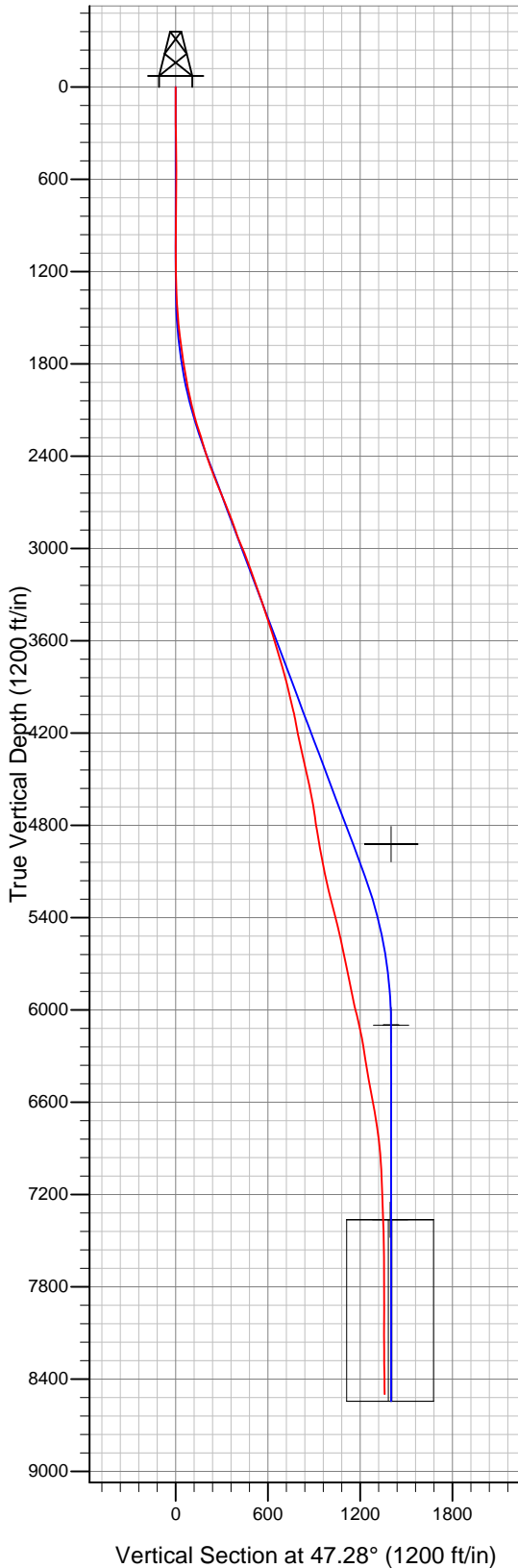


Well Name: **NRC 11-9**
 Surface Location: NRC 19-9 Pad Sec.9-T1N-R67W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 5052.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1265667.89	3167464.18	40° 3' 39.949 N	104° 54' 6.124 W	

 Original Well Elev WELL @ 5067.0ft (Original Well Elev)

Anadarko, Weld County CO



LEGEND

- ◆ NRC 11-9, Wellbore #1, Plan #2 (5-27-10) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 8680'MD & 8499'TVD @ 1357' VS
 0.4 deg Inc 29.1 deg AZ

Project: SEC.9-T1N-R67W
 Site: NRC 19-9 Pad Sec.9-T1N-R67W
 Well: NRC 11-9
 Plan: Wellbore #1



Anadarko, Weld County CO

SEC.9-T1N-R67W

NRC 19-9 Pad Sec.9-T1N-R67W

NRC 11-9

Wellbore #1

Survey: Survey #1

Standard Survey Report

18 August, 2010

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
142.0	0.80	149.00	142.0	-0.8	0.5	-0.8	0.56	0.56	0.00
234.0	1.00	143.90	234.0	-2.0	1.3	-2.0	0.23	0.22	-5.54
326.0	1.30	79.50	326.0	-2.5	2.8	-2.5	1.36	0.33	-70.00
421.0	1.30	34.90	420.9	-1.4	4.5	-1.4	1.04	0.00	-46.95
513.0	2.60	330.40	512.9	1.2	4.1	1.2	2.56	1.41	-70.11
606.0	2.20	294.10	605.8	3.8	1.4	3.8	1.66	-0.43	-39.03
699.0	1.20	263.40	698.8	4.4	-1.2	4.4	1.42	-1.08	-33.01
791.0	1.00	192.10	790.8	3.5	-2.3	3.5	1.40	-0.22	-77.50
883.0	1.20	254.20	882.8	2.5	-3.4	2.5	1.25	0.22	67.50
974.0	1.00	61.40	973.8	2.6	-3.7	2.6	2.40	-0.22	183.74
1,051.0	0.70	56.10	1,050.7	3.2	-2.7	3.2	0.40	-0.39	-6.88
1,141.0	0.40	21.40	1,140.7	3.8	-2.1	3.8	0.48	-0.33	-38.56

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well NRC 11-9
Project:	SEC.9-T1N-R67W	TVD Reference:	WELL @ 5067.0ft (Original Well Elev)
Site:	NRC 19-9 Pad Sec.9-T1N-R67W	MD Reference:	WELL @ 5067.0ft (Original Well Elev)
Well:	NRC 11-9	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,230.0	0.50	2.40	1,229.7	4.5	-2.0	4.5	0.20	0.11	-21.35
1,320.0	1.90	350.00	1,319.7	6.3	-2.2	6.3	1.57	1.56	-13.78
1,407.0	4.60	21.40	1,406.6	11.0	-1.2	11.0	3.61	3.10	36.09
1,496.0	5.40	27.20	1,495.2	18.0	2.0	18.0	1.06	0.90	6.52
1,584.0	6.50	42.00	1,582.8	25.4	7.3	25.4	2.14	1.25	16.82
1,671.0	6.70	43.40	1,669.2	32.8	14.0	32.8	0.30	0.23	1.61
1,758.0	8.30	46.10	1,755.4	40.8	22.0	40.8	1.88	1.84	3.10
1,847.0	10.00	41.30	1,843.3	51.1	31.8	51.1	2.09	1.91	-5.39
1,934.0	10.70	41.90	1,928.9	62.8	42.2	62.8	0.81	0.80	0.69
2,025.0	12.00	41.50	2,018.1	76.1	54.1	76.1	1.43	1.43	-0.44
2,115.0	14.80	36.60	2,105.7	92.4	67.1	92.4	3.35	3.11	-5.44
2,205.0	17.40	48.40	2,192.1	110.5	84.0	110.5	4.63	2.89	13.11
2,294.0	17.80	47.10	2,277.0	128.6	104.0	128.6	0.63	0.45	-1.46
2,383.0	15.80	48.70	2,362.2	145.9	123.0	145.9	2.31	-2.25	1.80
2,472.0	19.30	45.70	2,447.0	164.2	142.7	164.2	4.06	3.93	-3.37
2,562.0	23.60	48.60	2,530.8	186.5	166.8	186.5	4.92	4.78	3.22
2,651.0	21.50	47.00	2,613.0	209.4	192.1	209.4	2.46	-2.36	-1.80
2,740.0	21.90	50.20	2,695.7	231.1	216.8	231.1	1.40	0.45	3.60
2,829.0	20.70	52.40	2,778.6	251.4	242.0	251.4	1.62	-1.35	2.47
2,919.0	19.90	56.50	2,863.0	269.5	267.4	269.5	1.81	-0.89	4.56
3,009.0	22.80	57.70	2,946.8	287.3	294.9	287.3	3.26	3.22	1.33
3,098.0	22.40	53.30	3,029.0	306.7	323.1	306.7	1.95	-0.45	-4.94
3,188.0	19.60	53.50	3,113.0	325.9	349.0	325.9	3.11	-3.11	0.22
3,277.0	19.60	52.40	3,196.8	343.9	372.8	343.9	0.41	0.00	-1.24
3,366.0	19.30	50.40	3,280.8	362.4	396.0	362.4	0.82	-0.34	-2.25
3,455.0	19.30	44.70	3,364.8	382.2	417.7	382.2	2.12	0.00	-6.40
3,544.0	17.70	47.40	3,449.2	401.8	438.0	401.8	2.04	-1.80	3.03
3,634.0	17.40	45.00	3,535.0	420.6	457.5	420.6	0.87	-0.33	-2.67
3,725.0	17.20	48.40	3,621.9	439.1	477.2	439.1	1.13	-0.22	3.74
3,815.0	15.60	46.80	3,708.2	456.3	496.0	456.3	1.85	-1.78	-1.78
3,906.0	17.00	40.20	3,795.5	474.8	513.5	474.8	2.55	1.54	-7.25
3,996.0	13.80	36.80	3,882.3	493.4	528.4	493.4	3.69	-3.56	-3.78
4,084.0	13.30	54.50	3,967.9	507.7	543.0	507.7	4.73	-0.57	20.11
4,175.0	14.10	64.30	4,056.3	518.6	561.5	518.6	2.69	0.88	10.77
4,266.0	12.70	80.90	4,144.9	525.0	581.4	525.0	4.48	-1.54	18.24
4,356.0	14.00	83.00	4,232.4	527.9	601.9	527.9	1.54	1.44	2.33
4,444.0	14.50	79.10	4,317.7	531.3	623.3	531.3	1.23	0.57	-4.43
4,533.0	13.40	71.30	4,404.1	536.7	644.0	536.7	2.45	-1.24	-8.76
4,622.0	13.30	68.00	4,490.7	543.8	663.3	543.8	0.86	-0.11	-3.71
4,711.0	12.40	58.20	4,577.5	552.7	680.9	552.7	2.65	-1.01	-11.01
4,798.0	10.90	60.50	4,662.7	561.7	696.0	561.7	1.80	-1.72	2.64
4,889.0	6.80	62.00	4,752.6	568.4	708.3	568.4	4.51	-4.51	1.65
4,976.0	10.20	43.40	4,838.6	576.5	718.1	576.5	4.98	3.91	-21.38
5,067.0	9.80	38.80	4,928.2	588.4	728.5	588.4	0.98	-0.44	-5.05
5,143.9	10.48	36.73	5,003.9	599.1	736.8	599.1	1.01	0.89	-2.70
4900' MD 171' Radius									
5,157.0	10.60	36.40	5,016.8	601.0	738.2	601.0	1.01	0.90	-2.49
5,244.0	11.50	37.90	5,102.2	614.3	748.3	614.3	1.09	1.03	1.72
5,334.0	13.90	33.70	5,190.0	630.3	759.8	630.3	2.86	2.67	-4.67
5,425.0	14.70	32.10	5,278.2	649.2	772.0	649.2	0.98	0.88	-1.76
5,512.0	14.20	32.30	5,362.4	667.6	783.6	667.6	0.58	-0.57	0.23
5,602.0	14.50	33.50	5,449.6	686.3	795.7	686.3	0.47	0.33	1.33
5,691.0	13.00	41.00	5,536.1	703.2	808.4	703.2	2.61	-1.69	8.43
5,782.0	11.70	46.20	5,625.0	717.3	821.8	717.3	1.88	-1.43	5.71

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well NRC 11-9
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Site:	NRC 19-9 Pad Sec.9-T1N-R67W	MD Reference:	WELL @ 5067.0ft (Original Well Elev)
Well:	NRC 11-9	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,871.0	11.50	42.00	5,712.2	730.1	834.2	730.1	0.97	-0.22	-4.72
5,959.0	12.10	37.90	5,798.3	743.9	845.8	743.9	1.17	0.68	-4.66
6,050.0	11.30	38.10	5,887.4	758.5	857.1	758.5	0.88	-0.88	0.22
6,139.0	13.10	32.40	5,974.4	773.8	867.9	773.8	2.43	2.02	-6.40
6,228.0	14.90	28.00	6,060.8	792.5	878.7	792.5	2.35	2.02	-4.94
6,314.5	12.08	25.78	6,144.8	810.4	887.8	810.4	3.31	-3.26	-2.57
TARGET BHL 1980'FSL, 1980'FWL									
6,317.0	12.00	25.70	6,147.3	810.9	888.1	810.9	3.31	-3.25	-3.18
6,405.0	9.50	32.20	6,233.8	825.3	895.9	825.3	3.15	-2.84	7.39
6,493.0	8.70	31.60	6,320.6	837.1	903.3	837.1	0.92	-0.91	-0.68
6,583.0	11.40	32.00	6,409.3	850.5	911.5	850.5	3.00	3.00	0.44
6,672.0	10.80	33.50	6,496.6	864.9	920.8	864.9	0.75	-0.67	1.69
6,761.0	9.60	36.60	6,584.2	877.8	929.8	877.8	1.48	-1.35	3.48
6,852.0	9.90	50.20	6,673.9	888.9	940.4	888.9	2.55	0.33	14.95
6,942.0	9.10	53.60	6,762.6	898.1	952.0	898.1	1.09	-0.89	3.78
7,032.0	6.90	43.00	6,851.8	906.2	961.5	906.2	2.93	-2.44	-11.78
7,123.0	4.30	32.30	6,942.3	913.1	967.0	913.1	3.07	-2.86	-11.76
7,213.0	3.30	24.50	7,032.1	918.3	969.9	918.3	1.25	-1.11	-8.67
7,303.0	2.50	10.90	7,122.0	922.6	971.3	922.6	1.17	-0.89	-15.11
7,394.0	2.70	12.50	7,212.9	926.7	972.2	926.7	0.23	0.22	1.76
7,484.0	2.70	2.50	7,302.8	930.8	972.7	930.8	0.52	0.00	-11.11
7,546.1	2.70	4.32	7,364.9	933.8	972.9	933.8	0.14	0.00	2.92
LEGAL BOX 400' X 400' 1980'FSL, 1972'FWL									
7,573.0	2.70	5.10	7,391.7	935.0	973.0	935.0	0.14	0.00	2.92
7,663.0	1.50	32.20	7,481.7	938.1	973.8	938.1	1.70	-1.33	30.11
7,753.0	0.90	85.40	7,571.6	939.2	975.1	939.2	1.33	-0.67	59.11
7,844.0	1.10	119.40	7,662.6	938.8	976.6	938.8	0.68	0.22	37.36
7,934.0	1.10	124.80	7,752.6	937.9	978.1	937.9	0.12	0.00	6.00
8,024.0	1.00	131.90	7,842.6	936.9	979.4	936.9	0.18	-0.11	7.89
8,114.0	0.60	154.50	7,932.6	935.9	980.2	935.9	0.56	-0.44	25.11
8,205.0	0.50	200.60	8,023.6	935.1	980.2	935.1	0.48	-0.11	50.66
8,295.0	0.30	1.50	8,113.6	935.0	980.1	935.0	0.88	-0.22	178.78
8,388.0	0.40	51.10	8,206.6	935.4	980.4	935.4	0.33	0.11	53.33
8,479.0	0.60	2.10	8,297.6	936.1	980.6	936.1	0.50	0.22	-53.85
8,570.0	1.20	0.20	8,388.6	937.5	980.6	937.5	0.66	0.66	-2.09
8,629.0	0.40	29.10	8,447.6	938.3	980.7	938.3	1.48	-1.36	48.98
8,680.0	0.40	29.10	8,498.6	938.7	980.9	938.7	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____