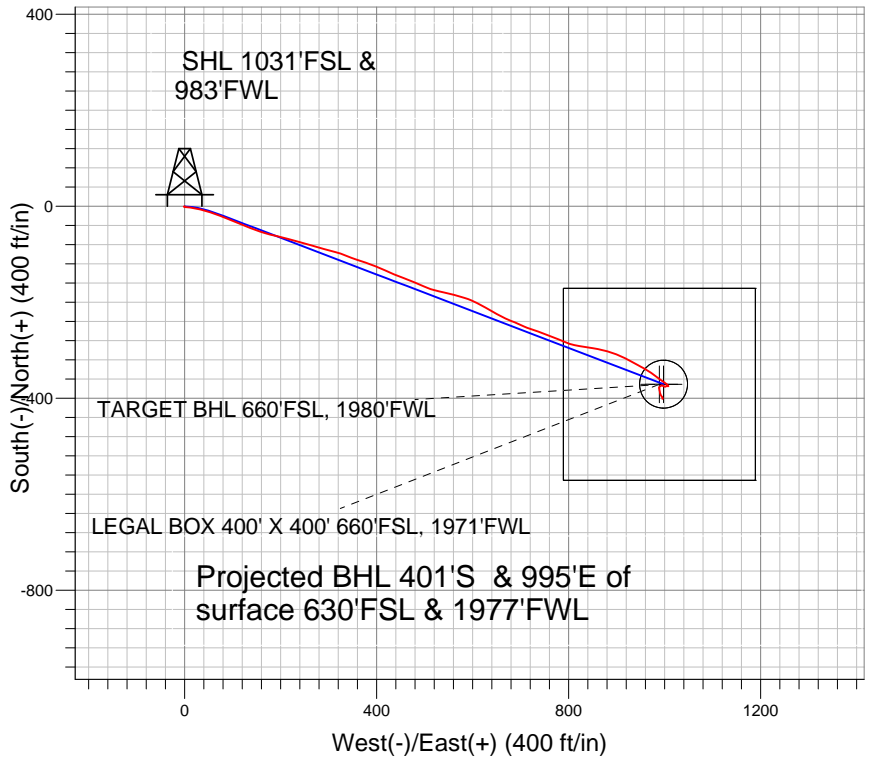
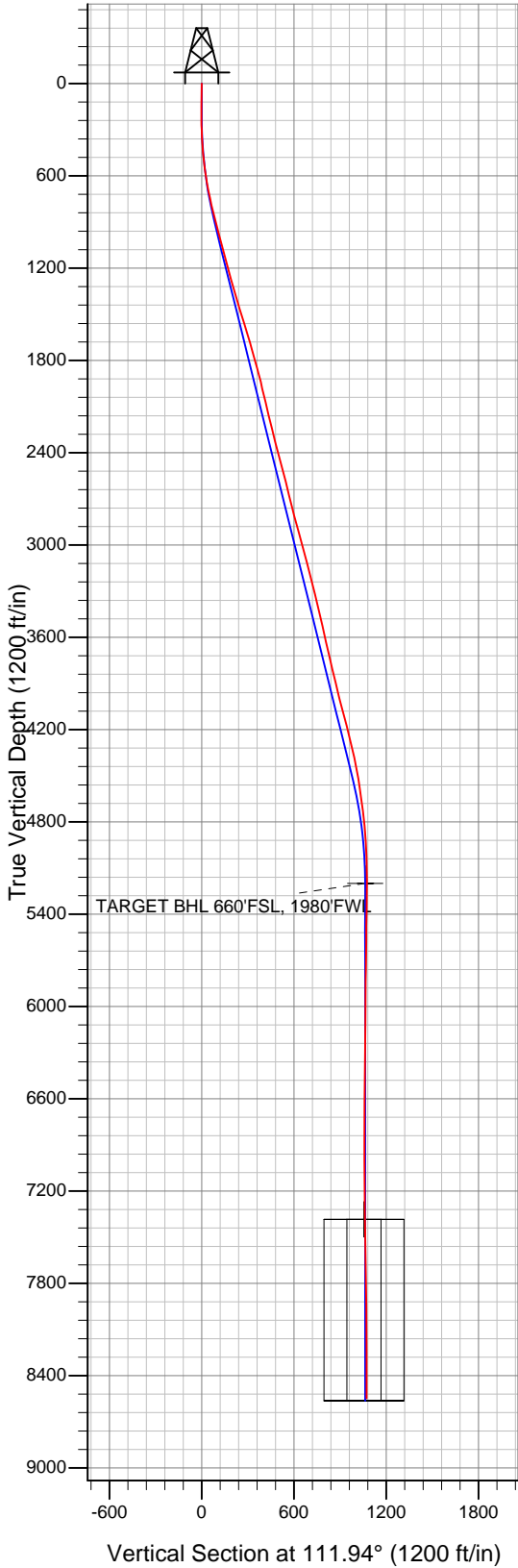


Well Name: **NRC 14-9**
 Surface Location: NRC 19-9 Pad Sec.9-T1N-R67W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 5052.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1265668.10 3167496.09 40° 3' 39.949 N 104° 54' 5.713 W
 Original Well Elev WELL @ 5067.0ft (Original Well Elev)

Anadarko, Weld County CO



LEGEND

- NRC 14-9, Wellbore #1, Plan #2 (5-27-10) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
 8680'MD & 8549'TVD @ 1073' VS
 0.2 deg Inc 36.8 deg AZ

Project: SEC.9-T1N-R67W
 Site: NRC 19-9 Pad Sec.9-T1N-R67W
 Well: NRC 14-9
 Plan: Wellbore #1



Anadarko, Weld County CO

SEC.9-T1N-R67W

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

NRC 14-9

Wellbore #1

Survey: Survey #1

Standard Survey Report

10 August, 2010

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well NRC 14-9
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 14-9	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.9-T1N-R67W, Weld County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		Using Well Reference Point
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	NRC 19-9 Pad Sec.9-T1N-R67W				
Site Position:		Northing:	1,265,668.11 ft	Latitude:	40° 3' 39.949 N
From:	Lat/Long	Easting:	3,167,496.09 ft	Longitude:	104° 54' 5.713 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.39 °

Well	NRC 14-9					
Well Position	+N/-S	0.0 ft	Northing:	1,265,668.10 ft	Latitude:	40° 3' 39.949 N
	+E/-W	0.0 ft	Easting:	3,167,496.09 ft	Longitude:	104° 54' 5.713 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,052.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/15/2010	9.05	66.79	53,050

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	0.00	

Date		Survey (Wellbore)	Tool Name	Description
From ()	To ()			
		()		

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
146.0	0.70	262.20	146.0	-0.1	-0.9	-0.1	0.48	0.48	0.00
238.0	0.40	156.40	238.0	-0.5	-1.3	-0.5	0.97	-0.33	-115.00
331.0	2.60	102.70	331.0	-1.3	0.9	-1.3	2.56	2.37	-57.74
425.0	4.70	93.20	424.8	-1.9	6.8	-1.9	2.32	2.23	-10.11
518.0	6.90	98.50	517.3	-3.0	16.1	-3.0	2.43	2.37	5.70
610.0	9.10	102.50	608.4	-5.4	28.7	-5.4	2.47	2.39	4.35
703.0	11.30	107.50	699.9	-9.7	44.6	-9.7	2.55	2.37	5.38
795.0	13.10	110.00	789.8	-16.0	63.0	-16.0	2.04	1.96	2.72
887.0	14.40	111.30	879.2	-23.7	83.4	-23.7	1.45	1.41	1.41
979.0	15.50	111.30	968.1	-32.3	105.5	-32.3	1.20	1.20	0.00
1,059.0	13.70	112.60	1,045.5	-39.8	124.2	-39.8	2.29	-2.25	1.63
1,150.0	15.20	110.30	1,133.6	-48.1	145.4	-48.1	1.76	1.65	-2.53

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well NRC 14-9
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 14-9	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)
1,238.0	15.40	107.80	1,218.5	-55.7	167.3	-55.7	0.78	0.23	-2.84
1,329.0	16.20	102.00	1,306.1	-62.0	191.3	-62.0	1.94	0.88	-6.37
1,416.0	16.30	104.70	1,389.6	-67.7	214.9	-67.7	0.88	0.11	3.10
1,504.0	17.00	106.30	1,473.9	-74.4	239.2	-74.4	0.95	0.80	1.82
1,593.0	17.70	105.10	1,558.8	-81.6	264.8	-81.6	0.88	0.79	-1.35
1,680.0	17.10	105.60	1,641.9	-88.5	289.9	-88.5	0.71	-0.69	0.57
1,767.0	15.50	105.20	1,725.4	-94.9	313.4	-94.9	1.84	-1.84	-0.46
1,856.0	15.90	112.30	1,811.0	-102.7	336.2	-102.7	2.20	0.45	7.98
1,943.0	14.50	108.50	1,895.0	-110.7	357.5	-110.7	1.97	-1.61	-4.37
2,033.0	13.00	108.30	1,982.4	-117.4	377.8	-117.4	1.67	-1.67	-0.22
2,124.0	13.60	112.80	2,071.0	-124.8	397.4	-124.8	1.31	0.66	4.95
2,214.0	13.80	113.60	2,158.4	-133.2	417.0	-133.2	0.31	0.22	0.89
2,303.0	14.10	112.90	2,244.8	-141.7	436.7	-141.7	0.39	0.34	-0.79
2,392.0	13.80	110.70	2,331.2	-149.6	456.6	-149.6	0.68	-0.34	-2.47
2,481.0	15.10	111.80	2,417.4	-157.7	477.3	-157.7	1.49	1.46	1.24
2,571.0	14.80	114.30	2,504.3	-166.8	498.7	-166.8	0.79	-0.33	2.78
2,660.0	14.30	105.80	2,590.5	-174.4	519.6	-174.4	2.46	-0.56	-9.55
2,748.0	14.10	101.70	2,675.8	-179.6	540.6	-179.6	1.17	-0.23	-4.66
2,837.0	13.70	104.40	2,762.2	-184.4	561.4	-184.4	0.86	-0.45	3.03
2,927.0	15.30	107.30	2,849.3	-190.6	583.1	-190.6	1.95	1.78	3.22
3,018.0	15.50	117.90	2,937.1	-199.8	605.3	-199.8	3.10	0.22	11.65
3,107.0	15.70	116.50	3,022.8	-210.8	626.6	-210.8	0.48	0.22	-1.57
3,197.0	14.90	122.30	3,109.6	-222.4	647.2	-222.4	1.92	-0.89	6.44
3,286.0	14.40	112.50	3,195.7	-232.7	667.1	-232.7	2.84	-0.56	-11.01
3,375.0	14.30	113.80	3,281.9	-241.4	687.4	-241.4	0.38	-0.11	1.46
3,464.0	14.10	114.20	3,368.2	-250.3	707.4	-250.3	0.25	-0.22	0.45
3,553.0	11.60	108.50	3,455.0	-257.6	725.7	-257.6	3.15	-2.81	-6.40
3,643.0	12.70	107.00	3,543.0	-263.3	743.8	-263.3	1.27	1.22	-1.67
3,734.0	13.40	112.20	3,631.6	-270.2	763.1	-270.2	1.50	0.77	5.71
3,824.0	13.40	115.20	3,719.2	-278.6	782.2	-278.6	0.77	0.00	3.33
3,914.0	13.60	106.90	3,806.7	-286.1	801.8	-286.1	2.16	0.22	-9.22
4,005.0	13.90	99.80	3,895.1	-291.1	822.8	-291.1	1.88	0.33	-7.80
4,093.0	13.30	98.20	3,980.6	-294.4	843.2	-294.4	0.80	-0.68	-1.82
4,184.0	15.20	101.50	4,068.8	-298.2	865.3	-298.2	2.27	2.09	3.63
4,274.0	15.70	107.60	4,155.6	-304.3	888.4	-304.3	1.89	0.56	6.78
4,365.0	14.00	116.50	4,243.5	-312.9	910.0	-312.9	3.12	-1.87	9.78
4,453.0	12.20	118.00	4,329.2	-322.0	927.8	-322.0	2.08	-2.05	1.70
4,542.0	12.30	117.40	4,416.2	-330.8	944.5	-330.8	0.18	0.11	-0.67
4,631.0	10.00	122.00	4,503.5	-339.2	959.4	-339.2	2.77	-2.58	5.17
4,720.0	8.20	122.70	4,591.4	-346.8	971.3	-346.8	2.03	-2.02	0.79
4,807.0	6.90	125.00	4,677.7	-353.1	980.8	-353.1	1.53	-1.49	2.64
4,898.0	6.40	130.30	4,768.0	-359.5	989.2	-359.5	0.87	-0.55	5.82
4,985.0	6.10	124.70	4,854.5	-365.3	996.7	-365.3	0.78	-0.34	-6.44
5,075.0	4.40	124.00	4,944.1	-370.0	1,003.5	-370.0	1.89	-1.89	-0.78
5,166.0	1.90	150.60	5,035.0	-373.2	1,007.1	-373.2	3.11	-2.75	29.23
5,253.0	0.30	196.10	5,122.0	-374.7	1,007.8	-374.7	1.96	-1.84	52.30
5,331.1	0.78	283.59	5,200.1	-374.8	1,007.2	-374.8	1.06	0.62	112.04
TARGET BHL 660'FSL, 1980'FWL									
5,343.0	0.90	286.50	5,212.0	-374.7	1,007.0	-374.7	1.06	0.99	24.45
5,434.0	0.70	292.10	5,303.0	-374.3	1,005.8	-374.3	0.24	-0.22	6.15
5,520.0	0.50	241.60	5,389.0	-374.3	1,005.0	-374.3	0.63	-0.23	-58.72
5,611.0	0.90	248.40	5,480.0	-374.7	1,004.0	-374.7	0.45	0.44	7.47
5,700.0	0.80	253.80	5,569.0	-375.2	1,002.7	-375.2	0.14	-0.11	6.07
5,791.0	1.00	240.80	5,659.9	-375.7	1,001.4	-375.7	0.31	0.22	-14.29

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well NRC 14-9
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 14-9	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)	
5,879.0	0.70	305.40	5,747.9	-375.8	1,000.3	-375.8	1.07	-0.34	73.41	
5,968.0	1.10	303.00	5,836.9	-375.0	999.2	-375.0	0.45	0.45	-2.70	
6,059.0	0.50	283.70	5,927.9	-374.5	998.1	-374.5	0.71	-0.66	-21.21	
6,148.0	0.50	322.30	6,016.9	-374.1	997.4	-374.1	0.37	0.00	43.37	
6,237.0	0.20	344.60	6,105.9	-373.6	997.2	-373.6	0.36	-0.34	25.06	
6,326.0	0.10	195.30	6,194.9	-373.5	997.1	-373.5	0.33	-0.11	-167.75	
6,414.0	0.90	290.30	6,282.9	-373.4	996.4	-373.4	1.04	0.91	107.95	
6,502.0	0.90	303.80	6,370.9	-372.7	995.2	-372.7	0.24	0.00	15.34	
6,592.0	0.60	230.10	6,460.9	-372.6	994.3	-372.6	1.03	-0.33	-81.89	
6,680.0	1.00	236.80	6,548.9	-373.4	993.3	-373.4	0.47	0.45	7.61	
6,770.0	1.20	244.30	6,638.9	-374.2	991.8	-374.2	0.27	0.22	8.33	
6,860.0	1.40	226.20	6,728.8	-375.4	990.1	-375.4	0.50	0.22	-20.11	
6,951.0	1.80	202.00	6,819.8	-377.5	988.8	-377.5	0.85	0.44	-26.59	
7,041.0	0.50	88.10	6,909.8	-378.8	988.6	-378.8	2.28	-1.44	-126.56	
7,132.0	0.70	169.30	7,000.8	-379.3	989.1	-379.3	0.87	0.22	89.23	
7,222.0	1.00	186.00	7,090.8	-380.6	989.2	-380.6	0.43	0.33	18.56	
7,312.0	1.00	173.70	7,180.8	-382.2	989.2	-382.2	0.24	0.00	-13.67	
7,402.0	1.50	162.50	7,270.7	-384.1	989.6	-384.1	0.62	0.56	-12.44	
7,493.0	1.70	169.50	7,361.7	-386.5	990.2	-386.5	0.31	0.22	7.69	
7,514.9	1.58	170.32	7,383.6	-387.2	990.3	-387.2	0.58	-0.57	3.76	
LEGAL BOX 400' X 400' 660'FSL, 1971'FWL										
7,582.0	1.20	173.90	7,450.7	-388.8	990.5	-388.8	0.58	-0.56	5.33	
7,672.0	1.10	149.00	7,540.7	-390.4	991.1	-390.4	0.56	-0.11	-27.67	
7,762.0	1.20	159.30	7,630.6	-392.1	991.9	-392.1	0.25	0.11	11.44	
7,852.0	1.20	155.70	7,720.6	-393.8	992.6	-393.8	0.08	0.00	-4.00	
7,942.0	1.10	144.40	7,810.6	-395.4	993.5	-395.4	0.27	-0.11	-12.56	
8,033.0	0.70	122.70	7,901.6	-396.4	994.5	-396.4	0.57	-0.44	-23.85	
8,123.0	0.70	180.10	7,991.6	-397.2	994.9	-397.2	0.75	0.00	63.78	
8,213.0	0.50	145.60	8,081.6	-398.1	995.1	-398.1	0.45	-0.22	-38.33	
8,304.0	0.80	144.10	8,172.6	-398.9	995.7	-398.9	0.33	0.33	-1.65	
8,392.0	0.50	134.70	8,260.6	-399.7	996.4	-399.7	0.36	-0.34	-10.68	
8,482.0	0.70	222.80	8,350.6	-400.4	996.3	-400.4	0.94	0.22	97.89	
8,573.0	0.60	241.40	8,441.6	-401.0	995.5	-401.0	0.26	-0.11	20.44	
8,631.0	0.20	36.80	8,499.6	-401.1	995.3	-401.1	1.36	-0.69	267.93	
8,680.0	0.20	36.80	8,548.6	-401.0	995.4	-401.0	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____