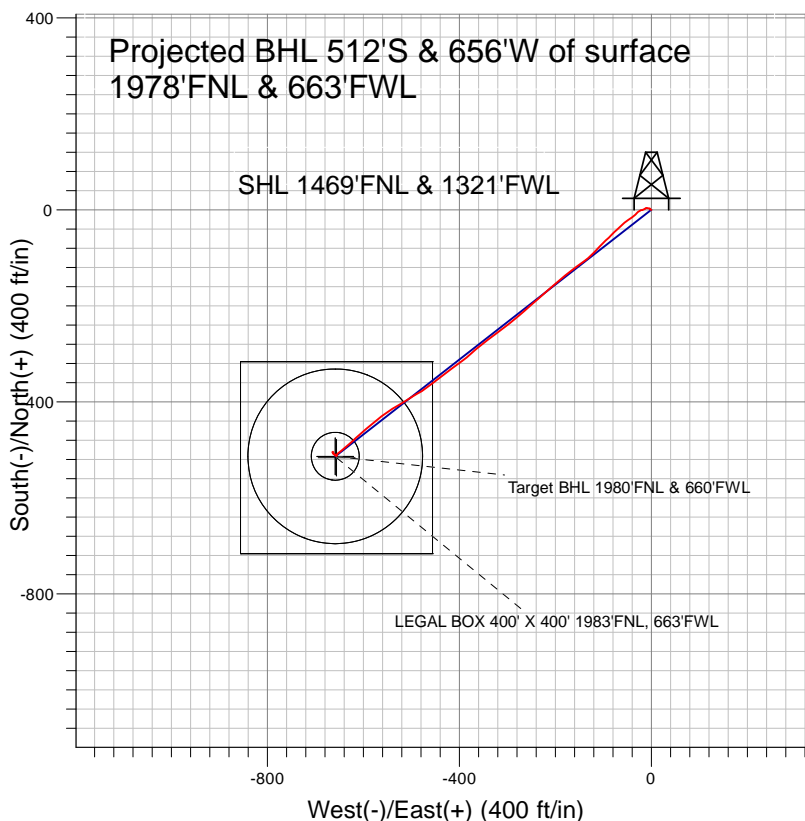


Anadarko, Adams County CO



LEGEND

- Talon View 5-9, Wellbore #1, Plan #1 (9-15-10) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
8201'MD & 8105'TVD @ 832' VS
1.3 deg Inc 105.5 deg AZ

Project: SEC.9-T1S-R67W
Site: Talon View 18-9 Pad Sec.9-T1S-R67W
Well: Talon View 5-9
Plan: Wellbore #1



Anadarko, Adams County CO

SEC.9-T1S-R67W

Talon View 18-9 Pad Sec.9-T1S-R67W

Talon View 5-9

Wellbore #1

Survey: Survey #1

Standard Survey Report

30 September, 2010

Company:	Anadarko, Adams County CO	Local Co-ordinate Reference:	Well Talon View 5-9
Project:	SEC.9-T1S-R67W	TVD Reference:	WELL @ 5172.0ft (Original Well Elev)
Site:	Talon View 18-9 Pad Sec.9-T1S-R67W	MD Reference:	WELL @ 5172.0ft (Original Well Elev)
Well:	Talon View 5-9	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

Project	SEC.9-T1S-R67W, Adams 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		Talon View 18-9 Pad Sec.9-T1S-R67W			
Site Position:		Northing:		1,236,908.77 ft	
From:	Lat/Long	Easting:		Longitude:	
		3,168,530.03 ft		39° 58' 55.668 N	
Position Uncertainty:		Slot Radius:		104° 53' 54.924 W	
0.0 ft		"		Grid Convergence:	
				0.39 °	

Well	Talon View 5-9					
Well Position	+N/-S	0.0 ft	Northing:	1,236,996.18 ft	Latitude:	39° 58' 56.532 N
	+E/-W	0.0 ft	Easting:	3,168,529.44 ft	Longitude:	104° 53' 54.924 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,157.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/20/2010	9.00	66.71	52,971

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	232.05	

Survey Program		Date	9/30/2010	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
84.0	8,201.0	Survey #1 (Wellbore #1)		

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
84.0	0.20	268.80	84.0	0.0	-0.1	0.1	0.24	0.24	0.00
177.0	0.30	286.50	177.0	0.1	-0.5	0.4	0.13	0.11	19.03
270.0	0.40	279.00	270.0	0.2	-1.1	0.8	0.12	0.11	-8.06
365.0	0.40	294.10	365.0	0.4	-1.7	1.1	0.11	0.00	15.89
455.0	0.30	308.40	455.0	0.6	-2.2	1.3	0.15	-0.11	15.89
545.0	0.30	296.80	545.0	0.9	-2.6	1.5	0.07	0.00	-12.89
634.0	0.30	331.70	634.0	1.2	-2.9	1.6	0.20	0.00	39.21
721.0	0.70	349.60	721.0	1.9	-3.1	1.3	0.49	0.46	20.57
812.0	0.40	284.70	812.0	2.6	-3.5	1.2	0.71	-0.33	-71.32
902.0	0.60	268.20	902.0	2.6	-4.3	1.8	0.27	0.22	-18.33
993.0	0.90	280.70	993.0	2.7	-5.5	2.6	0.37	0.33	13.74
1,081.0	0.70	292.80	1,081.0	3.1	-6.7	3.4	0.30	-0.23	13.75

Company:	Anadarko, Adams County CO	Local Co-ordinate Reference:	Well Talon View 5-9
Project:	SEC.9-T1S-R67W	TVD Reference:	WELL @ 5172.0ft (Original Well Elev)
Site:	Talon View 18-9 Pad Sec.9-T1S-R67W	MD Reference:	WELL @ 5172.0ft (Original Well Elev)
Well:	Talon View 5-9	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

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)
1,170.0	0.70	290.90	1,170.0	3.5	-7.7	3.9	0.03	0.00	-2.13
1,261.0	0.90	274.50	1,260.9	3.7	-8.9	4.7	0.33	0.22	-18.02
1,364.0	0.80	271.50	1,363.9	3.8	-10.4	5.9	0.11	-0.10	-2.91
1,455.0	0.70	228.60	1,454.9	3.5	-11.5	6.9	0.61	-0.11	-47.14
1,543.0	0.40	235.10	1,542.9	2.9	-12.1	7.8	0.35	-0.34	7.39
1,632.0	0.40	209.30	1,631.9	2.5	-12.5	8.4	0.20	0.00	-28.99
1,723.0	0.40	201.20	1,722.9	1.9	-12.8	8.9	0.06	0.00	-8.90
1,811.0	1.00	250.10	1,810.9	1.4	-13.6	9.9	0.90	0.68	55.57
1,902.0	0.80	250.30	1,901.9	0.9	-15.0	11.3	0.22	-0.22	0.22
1,990.0	0.90	254.50	1,989.9	0.5	-16.2	12.5	0.13	0.11	4.77
2,079.0	0.80	244.00	2,078.9	0.0	-17.5	13.7	0.21	-0.11	-11.80
2,169.0	1.00	258.30	2,168.9	-0.4	-18.8	15.1	0.33	0.22	15.89
2,260.0	0.70	283.50	2,259.9	-0.4	-20.1	16.1	0.52	-0.33	27.69
2,351.0	1.60	235.90	2,350.8	-1.0	-21.7	17.7	1.36	0.99	-52.31
2,440.0	3.60	243.40	2,439.8	-3.0	-25.2	21.7	2.27	2.25	8.43
2,529.0	4.10	224.60	2,528.6	-6.5	-30.0	27.6	1.52	0.56	-21.12
2,619.0	4.50	224.80	2,618.3	-11.3	-34.7	34.3	0.44	0.44	0.22
2,708.0	6.00	237.70	2,706.9	-16.2	-41.1	42.4	2.13	1.69	14.49
2,796.0	7.80	232.00	2,794.3	-22.4	-49.7	52.9	2.19	2.05	-6.48
2,885.0	9.00	228.50	2,882.3	-30.7	-59.7	65.9	1.46	1.35	-3.93
2,975.0	9.70	228.40	2,971.1	-40.4	-70.6	80.5	0.78	0.78	-0.11
3,066.0	11.10	224.10	3,060.6	-51.8	-82.4	96.9	1.76	1.54	-4.73
3,155.0	12.20	227.40	3,147.8	-64.3	-95.3	114.7	1.44	1.24	3.71
3,245.0	13.10	223.40	3,235.6	-78.2	-109.3	134.3	1.39	1.00	-4.44
3,334.0	12.90	223.60	3,322.3	-92.7	-123.1	154.1	0.23	-0.22	0.22
3,423.0	13.10	233.90	3,409.1	-105.8	-138.1	174.0	2.61	0.22	11.57
3,512.0	13.70	234.80	3,495.6	-117.8	-154.9	194.6	0.71	0.67	1.01
3,601.0	14.80	231.60	3,581.9	-131.0	-172.4	216.5	1.52	1.24	-3.60
3,691.0	16.40	228.70	3,668.6	-146.5	-191.0	240.7	1.98	1.78	-3.22
3,782.0	16.70	229.40	3,755.8	-163.5	-210.5	266.6	0.40	0.33	0.77
3,872.0	14.50	227.80	3,842.5	-179.5	-228.7	290.7	2.49	-2.44	-1.78
3,962.0	15.40	229.70	3,929.5	-194.8	-246.2	313.9	1.14	1.00	2.11
4,052.0	16.40	228.00	4,016.0	-211.0	-264.7	338.5	1.23	1.11	-1.89
4,141.0	16.50	231.60	4,101.4	-227.3	-284.0	363.7	1.15	0.11	4.04
4,232.0	16.00	231.30	4,188.7	-243.1	-303.9	389.1	0.56	-0.55	-0.33
4,322.0	15.60	233.50	4,275.3	-258.1	-323.3	413.6	0.80	-0.44	2.44
4,413.0	14.50	233.60	4,363.2	-272.1	-342.3	437.3	1.21	-1.21	0.11
4,501.0	14.00	229.40	4,448.5	-285.6	-359.2	458.9	1.30	-0.57	-4.77
4,590.0	15.20	228.30	4,534.6	-300.4	-376.1	481.3	1.38	1.35	-1.24
4,678.0	16.50	233.60	4,619.3	-315.4	-394.8	505.3	2.21	1.48	6.02
4,767.0	15.80	233.10	4,704.8	-330.2	-414.7	530.1	0.80	-0.79	-0.56
4,855.0	15.50	233.30	4,789.5	-344.4	-433.7	553.8	0.35	-0.34	0.23
4,945.0	14.50	231.30	4,876.4	-358.7	-452.1	577.1	1.25	-1.11	-2.22
5,032.0	13.80	234.50	4,960.8	-371.5	-469.1	598.3	1.21	-0.80	3.68
5,123.0	14.40	240.00	5,049.1	-383.5	-487.7	620.4	1.61	0.66	6.04
5,213.0	16.30	238.20	5,135.9	-395.7	-508.1	644.0	2.18	2.11	-2.00
5,300.0	14.70	239.20	5,219.7	-407.8	-528.0	667.1	1.86	-1.84	1.15
5,339.0	14.48	238.19	5,257.4	-412.9	-536.4	676.9	0.86	-0.56	-2.59
5200' MD = 182' Radius									
5,391.0	14.20	236.80	5,307.8	-419.8	-547.2	689.7	0.86	-0.54	-2.68
5,481.0	13.10	231.70	5,395.3	-432.2	-564.5	710.9	1.81	-1.22	-5.67
5,568.0	13.70	230.10	5,479.9	-444.9	-580.1	731.1	0.81	0.69	-1.84
5,659.0	13.10	229.30	5,568.4	-458.6	-596.2	752.1	0.69	-0.66	-0.88
5,747.0	10.90	228.60	5,654.5	-470.6	-610.0	770.4	2.51	-2.50	-0.80

Company:	Anadarko, Adams County CO	Local Co-ordinate Reference:	Well Talon View 5-9
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Site:	Talon View 18-9 Pad Sec.9-T1S-R67W	MD Reference:	WELL @ 5172.0ft (Original Well Elev)
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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM den0-adp01 Server Data

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)
5,838.0	8.80	226.90	5,744.1	-481.0	-621.5	785.9	2.33	-2.31	-1.87
5,927.0	7.30	229.20	5,832.3	-489.4	-630.8	798.4	1.72	-1.69	2.58
6,016.0	5.70	229.70	5,920.7	-495.9	-638.4	808.4	1.80	-1.80	0.56
6,107.0	4.30	229.20	6,011.3	-501.1	-644.5	816.3	1.54	-1.54	-0.55
6,195.0	3.30	232.90	6,099.2	-504.7	-649.0	822.2	1.17	-1.14	4.20
6,285.0	2.80	235.10	6,189.0	-507.6	-652.9	827.0	0.57	-0.56	2.44
6,374.0	1.30	199.20	6,278.0	-509.8	-655.0	830.0	2.14	-1.69	-40.34
6,396.1	1.25	198.48	6,300.1	-510.2	-655.1	830.4	0.24	-0.23	-3.26
Target BHL 1980'FNL & 660'FWL									
6,463.0	1.10	195.90	6,366.9	-511.5	-655.5	831.5	0.24	-0.22	-3.86
6,551.0	0.60	233.80	6,454.9	-512.6	-656.1	832.7	0.83	-0.57	43.07
6,641.0	0.40	261.80	6,544.9	-512.9	-656.8	833.4	0.34	-0.22	31.11
6,730.0	0.50	303.00	6,633.9	-512.8	-657.5	833.8	0.37	0.11	46.29
6,819.0	1.30	344.00	6,722.9	-511.6	-658.1	833.5	1.10	0.90	46.07
6,910.0	1.40	297.30	6,813.9	-510.1	-659.3	833.6	1.18	0.11	-51.32
6,998.0	0.60	302.60	6,901.9	-509.4	-660.7	834.2	0.91	-0.91	6.02
7,088.0	0.70	267.80	6,991.9	-509.1	-661.6	834.8	0.44	0.11	-38.67
7,179.0	0.50	335.90	7,082.9	-508.8	-662.4	835.2	0.76	-0.22	74.84
7,269.0	0.90	5.90	7,172.9	-507.7	-662.4	834.6	0.59	0.44	33.33
7,359.0	0.70	355.10	7,262.9	-506.5	-662.4	833.8	0.28	-0.22	-12.00
7,450.0	0.90	337.30	7,353.9	-505.3	-662.7	833.3	0.35	0.22	-19.56
7,540.0	0.50	324.90	7,443.8	-504.3	-663.2	833.1	0.47	-0.44	-13.78
7,580.1	0.50	262.16	7,484.0	-504.2	-663.5	833.3	1.30	0.00	-156.41
LEGAL BOX 400' X 400' 1983'FNL, 663'FWL									
7,630.0	1.00	228.60	7,533.8	-504.5	-664.1	833.9	1.30	1.01	-67.27
7,718.0	0.90	152.00	7,621.8	-505.6	-664.3	834.8	1.34	-0.11	-87.05
7,808.0	1.10	149.90	7,711.8	-507.0	-663.5	835.0	0.23	0.22	-2.33
7,898.0	1.30	128.10	7,801.8	-508.3	-662.3	834.9	0.55	0.22	-24.22
7,988.0	1.50	122.90	7,891.8	-509.6	-660.5	834.2	0.26	0.22	-5.78
8,079.0	1.40	123.50	7,982.7	-510.9	-658.6	833.5	0.11	-0.11	0.66
8,152.0	1.30	105.50	8,055.7	-511.6	-657.0	832.7	0.59	-0.14	-24.66
8,201.0	1.30	105.50	8,104.7	-511.9	-656.0	832.1	0.00	0.00	0.00

Wellbore Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target - Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
5200'MD = 182' Radiu - survey misses target center by 163.4ft at 5339.0ft MD (5257.4 TVD, -412.9 N, -536.4 E) - Circle (radius 182.0)	0.00	0.39	5,217.0	-513.6	-658.6	1,236,478.11	3,167,874.39	39° 58' 51.456 N	104° 54' 3.384 W
Target BHL 1980'FNL - survey misses target center by 4.8ft at 6396.1ft MD (6300.1 TVD, -510.2 N, -655.1 E) - Circle (radius 50.0)	0.00	0.39	6,300.0	-513.6	-658.6	1,236,478.12	3,167,874.39	39° 58' 51.456 N	104° 54' 3.384 W
LEGAL BOX 400' X 4i - survey misses target center by 14.7ft at 7580.1ft MD (7483.9 TVD, -504.2 N, -663.5 E) - Rectangle (sides W400.0 H400.0 D605.0)	0.00	0.00	7,484.0	-516.6	-655.6	1,236,475.16	3,167,877.38	39° 58' 51.427 N	104° 54' 3.346 W

Checked By: _____ Approved By: _____ Date: _____