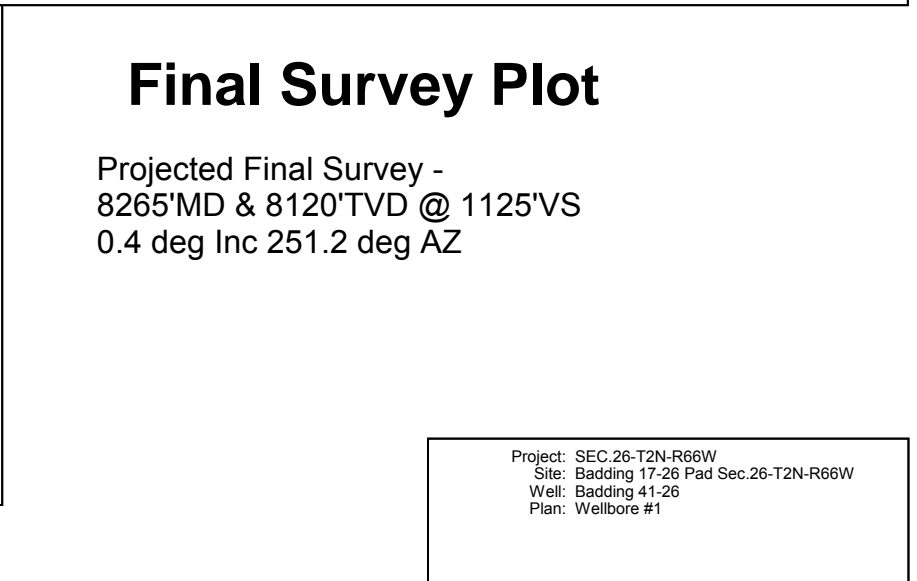
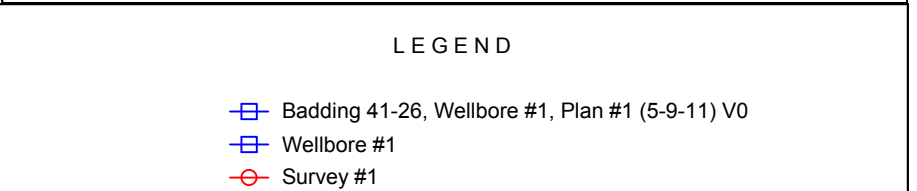
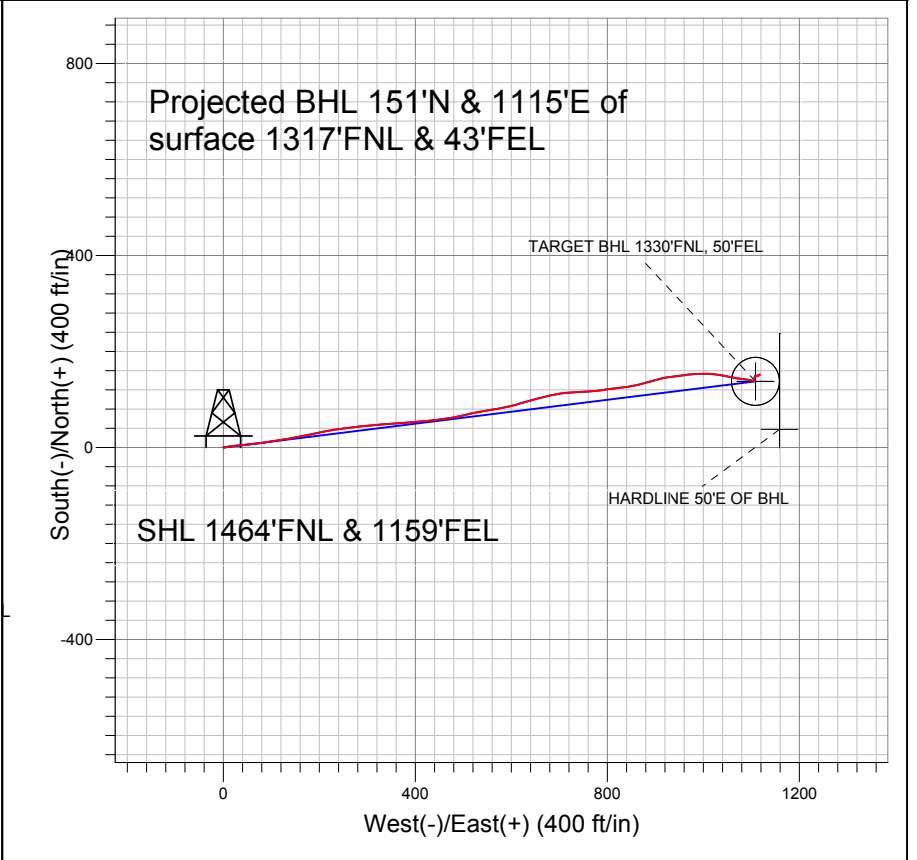


Anadarko, Weld County CO





Anadarko, Weld County CO

SEC.26-T2N-R66W

Badding 17-26 Pad Sec.26-T2N-R66W

Badding 41-26

Wellbore #1

Survey: Survey #1

Standard Survey Report

13 June, 2011



Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well Badding 41-26
Project:	SEC.26-T2N-R66W	TVD Reference:	WELL @ 5081.0ft (Original Well Elev)
Site:	Badding 17-26 Pad Sec.26-T2N-R66W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Badding 41-26	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.26-T2N-R66W, 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	Badding 17-26 Pad Sec.26-T2N-R66W				
Site Position:		Northing:	1,284,730.44 ft	Latitude:	40.112471
From:	Lat/Long	Easting:	3,212,820.01 ft	Longitude:	-104.739081
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.49 °

Well	Badding 41-26					
Well Position	+N/-S	0.0 ft	Northing:	1,284,730.42 ft	Latitude:	40.112471
	+E/-W	0.0 ft	Easting:	3,212,820.01 ft	Longitude:	-104.739081
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,067.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/9/2011	8.84	66.83	52,992

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	82.92	

Survey Program	Date	6/13/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
118.0	8,265.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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	
118.0	0.80	88.50	118.0	0.0	0.8	0.8	0.68	0.68	0.00	
210.0	2.40	76.60	210.0	0.5	3.3	3.4	1.77	1.74	-12.93	
303.0	4.20	79.20	302.8	1.6	8.6	8.7	1.94	1.94	2.80	
413.0	7.10	83.10	412.3	3.1	19.3	19.5	2.66	2.64	3.55	
501.0	8.70	85.80	499.4	4.3	31.3	31.6	1.87	1.82	3.07	
590.0	9.80	84.80	587.3	5.5	45.6	45.9	1.25	1.24	-1.12	
679.0	11.50	82.70	674.7	7.3	61.9	62.4	1.96	1.91	-2.36	
767.0	13.80	81.50	760.6	9.9	81.0	81.6	2.63	2.61	-1.36	
856.0	14.90	81.00	846.8	13.3	102.8	103.7	1.24	1.24	-0.56	
945.0	15.30	80.90	932.7	17.0	125.7	126.8	0.45	0.45	-0.11	
1,033.0	16.00	80.30	1,017.5	20.8	149.1	150.6	0.82	0.80	-0.68	
1,086.0	16.00	78.30	1,068.4	23.5	163.5	165.1	1.04	0.00	-3.77	

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well Badding 41-26
Project:	SEC.26-T2N-R66W	TVD Reference:	WELL @ 5081.0ft (Original Well Elev)
Site:	Badding 17-26 Pad Sec.26-T2N-R66W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Badding 41-26	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)
1,182.0	15.50	78.10	1,160.8	28.9	189.0	191.1	0.52	-0.52	-0.21
1,271.0	15.50	78.50	1,246.6	33.7	212.3	214.8	0.12	0.00	0.45
1,360.0	15.80	81.90	1,332.3	37.8	235.9	238.8	1.08	0.34	3.82
1,448.0	15.80	82.90	1,416.9	40.9	259.7	262.7	0.31	0.00	1.14
1,537.0	15.70	84.90	1,502.6	43.5	283.7	286.9	0.62	-0.11	2.25
1,625.0	16.40	83.50	1,587.2	46.0	307.9	311.2	0.91	0.80	-1.59
1,714.0	16.60	85.90	1,672.5	48.3	333.1	336.5	0.80	0.22	2.70
1,803.0	16.60	86.60	1,757.8	50.0	358.4	361.9	0.22	0.00	0.79
1,891.0	16.40	85.10	1,842.2	51.8	383.4	386.8	0.53	-0.23	-1.70
1,980.0	16.40	84.50	1,927.6	54.1	408.4	411.9	0.19	0.00	-0.67
2,069.0	15.90	84.40	2,013.0	56.4	433.0	436.7	0.56	-0.56	-0.11
2,157.0	15.30	82.20	2,097.8	59.2	456.5	460.3	0.96	-0.68	-2.50
2,246.0	15.80	79.50	2,183.5	63.0	480.1	484.2	0.99	0.56	-3.03
2,335.0	15.20	77.50	2,269.3	67.7	503.4	507.9	0.90	-0.67	-2.25
2,423.0	14.20	77.70	2,354.4	72.5	525.2	530.1	1.14	-1.14	0.23
2,512.0	14.40	80.20	2,440.7	76.7	546.8	552.0	0.73	0.22	2.81
2,600.0	15.20	81.40	2,525.8	80.3	568.9	574.5	0.97	0.91	1.36
2,689.0	17.00	77.00	2,611.3	85.0	593.2	599.1	2.44	2.02	-4.94
2,778.0	16.10	73.20	2,696.6	91.5	617.7	624.2	1.58	-1.01	-4.27
2,866.0	16.40	74.20	2,781.1	98.4	641.3	648.5	0.47	0.34	1.14
2,955.0	17.50	76.70	2,866.2	104.9	666.4	674.2	1.48	1.24	2.81
3,044.0	16.20	77.80	2,951.4	110.6	691.6	699.9	1.50	-1.46	1.24
3,132.0	16.10	85.40	3,035.9	114.2	715.7	724.3	2.40	-0.11	8.64
3,221.0	16.70	87.80	3,121.3	115.7	740.8	749.4	1.02	0.67	2.70
3,310.0	16.00	85.90	3,206.7	117.0	765.8	774.4	0.99	-0.79	-2.13
3,398.0	16.30	80.60	3,291.2	119.9	790.1	798.9	1.71	0.34	-6.02
3,487.0	17.30	83.70	3,376.4	123.4	815.6	824.6	1.51	1.12	3.48
3,576.0	15.90	81.90	3,461.7	126.6	840.8	850.0	1.68	-1.57	-2.02
3,664.0	14.80	78.30	3,546.6	130.6	863.7	873.2	1.65	-1.25	-4.09
3,753.0	14.30	72.20	3,632.7	136.2	885.3	895.4	1.81	-0.56	-6.85
3,841.0	15.70	75.30	3,717.7	142.6	907.2	917.9	1.83	1.59	3.52
3,930.0	17.10	82.70	3,803.1	147.3	931.8	942.9	2.82	1.57	8.31
4,019.0	17.80	83.00	3,888.0	150.6	958.3	969.6	0.79	0.79	0.34
4,107.0	15.20	86.00	3,972.4	153.0	983.2	994.5	3.11	-2.95	3.41
4,196.0	13.30	91.30	4,058.6	153.6	1,005.1	1,016.3	2.59	-2.13	5.96
4,285.0	11.90	97.00	4,145.5	152.3	1,024.4	1,035.4	2.10	-1.57	6.40
4,373.0	10.50	100.40	4,231.8	149.7	1,041.3	1,051.8	1.76	-1.59	3.86
4,462.0	10.10	100.20	4,319.4	146.9	1,056.9	1,067.0	0.45	-0.45	-0.22
4,551.0	7.90	101.10	4,407.3	144.3	1,070.6	1,080.3	2.48	-2.47	1.01
4,639.0	6.40	97.60	4,494.6	142.5	1,081.4	1,090.7	1.77	-1.70	-3.98
4,728.0	5.00	92.70	4,583.2	141.7	1,090.2	1,099.4	1.66	-1.57	-5.51
4,816.0	3.50	105.30	4,670.9	140.8	1,096.6	1,105.6	2.00	-1.70	14.32
4,905.0	2.10	109.80	4,759.8	139.5	1,100.8	1,109.6	1.59	-1.57	5.06
4,994.0	1.80	96.80	4,848.8	138.8	1,103.7	1,112.4	0.60	-0.34	-14.61
5,082.0	0.50	57.10	4,936.7	138.8	1,105.4	1,114.1	1.65	-1.48	-45.11
5,215.0	0.40	33.00	5,069.7	139.5	1,106.2	1,114.9	0.16	-0.08	-18.12
5,345.3	0.40	15.07	5,200.0	140.4	1,106.5	1,115.4	0.10	0.00	-13.76
TARGET BHL 1330'FNL, 50'FEL									
5,348.0	0.40	14.70	5,202.7	140.4	1,106.5	1,115.4	0.10	0.01	-13.54
5,481.0	0.80	344.90	5,335.7	141.7	1,106.4	1,115.4	0.37	0.30	-22.41
5,614.0	0.60	6.40	5,468.7	143.3	1,106.2	1,115.5	0.25	-0.15	16.17
5,747.0	0.60	14.20	5,601.7	144.7	1,106.5	1,115.9	0.06	0.00	5.86
5,880.0	0.40	357.60	5,734.7	145.8	1,106.6	1,116.2	0.18	-0.15	-12.48
6,013.0	0.40	41.00	5,867.7	146.6	1,106.9	1,116.6	0.22	0.00	32.63

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Site:	Badding 17-26 Pad Sec.26-T2N-R66W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Badding 41-26	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)	
6,146.0	0.30	3.60	6,000.7	147.3	1,107.2	1,117.0	0.18	-0.08	-28.12	
6,279.0	0.40	334.90	6,133.7	148.1	1,107.1	1,116.9	0.15	0.08	-21.58	
6,412.0	0.40	64.00	6,266.7	148.7	1,107.3	1,117.2	0.42	0.00	66.99	
6,545.0	0.40	79.70	6,399.7	149.0	1,108.2	1,118.1	0.08	0.00	11.80	
6,678.0	0.50	83.50	6,532.7	149.2	1,109.2	1,119.1	0.08	0.08	2.86	
6,811.0	0.50	82.70	6,665.7	149.3	1,110.4	1,120.3	0.01	0.00	-0.60	
6,944.0	0.80	81.00	6,798.7	149.5	1,111.8	1,121.8	0.23	0.23	-1.28	
7,077.0	0.50	94.90	6,931.7	149.6	1,113.3	1,123.3	0.25	-0.23	10.45	
7,210.0	0.50	83.20	7,064.7	149.6	1,114.5	1,124.4	0.08	0.00	-8.80	
7,317.3	0.41	61.16	7,171.9	149.9	1,115.3	1,125.3	0.18	-0.08	-20.55	
TARGET CIRCLE 1330'FNL, 50'FEL										
7,343.0	0.40	54.70	7,197.7	150.0	1,115.4	1,125.4	0.18	-0.04	-25.11	
7,476.0	0.40	53.40	7,330.7	150.5	1,116.2	1,126.2	0.01	0.00	-0.98	
7,609.0	0.30	56.10	7,463.7	151.0	1,116.9	1,127.0	0.08	-0.08	2.03	
7,742.0	0.10	39.80	7,596.7	151.3	1,117.2	1,127.4	0.15	-0.15	-12.26	
7,875.0	0.10	2.50	7,729.7	151.5	1,117.3	1,127.5	0.05	0.00	-28.05	
8,008.0	0.40	253.40	7,862.7	151.5	1,116.9	1,127.0	0.33	0.23	-82.03	
8,140.0	0.30	244.10	7,994.6	151.2	1,116.1	1,126.2	0.09	-0.08	-7.05	
8,219.0	0.40	251.20	8,073.6	151.0	1,115.7	1,125.8	0.14	0.13	8.99	
HARDLINE 50'E OF BHL										
8,265.0	0.40	251.20	8,119.6	150.9	1,115.4	1,125.5	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____