

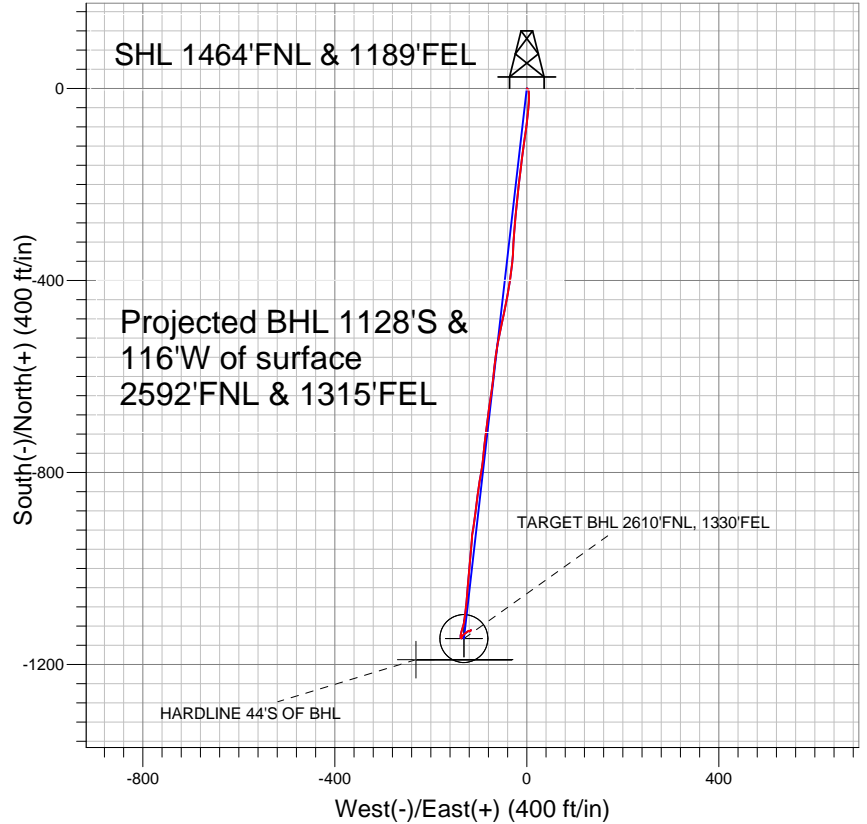
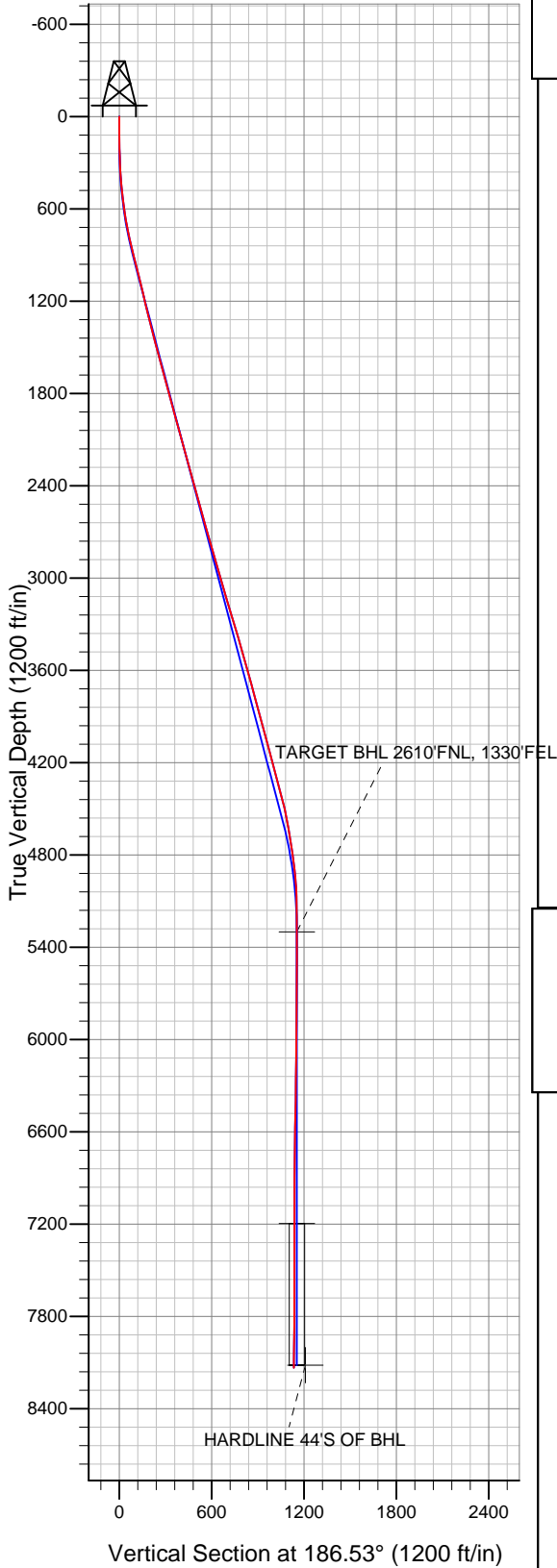
Well Name: **Badding 24-26**

Surface Location: Badding 17-26 Pad Sec.26-T2N-R66W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone

Ground Elevation: 5067.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1284730.13	3212790.09	40.112471	-104.739188	
Original Well Elev WELL @ 5081.0ft (Original Well Elev)						

Anadarko, Weld County CO



LEGEND

- ▲ Badding 24-26, Wellbore #1, Plan #1 (5-9-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
8280'MD & 8134'TVD @ 1134'VS
0.3 deg Inc 13.4 deg AZ

Project: SEC.26-T2N-R66W
Site: Badding 17-26 Pad Sec.26-T2N-R66W
Well: Badding 24-26
Plan: Wellbore #1



Directional

Anadarko, Weld County CO

SEC.26-T2N-R66W

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

Badding 24-26

Wellbore #1

Survey: Survey #1

Standard Survey Report

21 June, 2011



Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well Badding 24-26
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 24-26	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 24-26					
Well Position	+N/-S	0.0 ft	Northing:	1,284,730.13 ft	Latitude:	40.112471
	+E/-W	0.0 ft	Easting:	3,212,790.09 ft	Longitude:	-104.739188
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	186.53	

Survey Program	Date	6/21/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
118.0	8,280.0	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	0.00
118.0	0.70	91.20	118.0	0.0	0.7	-0.1	0.59	0.59	0.00	0.00
210.0	1.40	145.00	210.0	-0.9	1.9	0.7	1.24	0.76	58.48	58.48
303.0	2.70	159.20	302.9	-3.9	3.4	3.5	1.49	1.40	15.27	15.27
413.0	4.60	176.50	412.7	-10.8	4.5	10.2	1.98	1.73	15.73	15.73
501.0	6.30	181.20	500.3	-19.1	4.7	18.4	2.00	1.93	5.34	5.34
590.0	8.10	184.50	588.6	-30.2	4.1	29.6	2.07	2.02	3.71	3.71
679.0	9.70	185.00	676.5	-44.0	2.9	43.3	1.80	1.80	0.56	0.56
767.0	11.90	186.50	763.0	-60.4	1.2	59.8	2.52	2.50	1.70	1.70
856.0	13.10	187.10	849.8	-79.5	-1.0	79.1	1.36	1.35	0.67	0.67
945.0	14.20	188.60	936.3	-100.3	-3.9	100.1	1.30	1.24	1.69	1.69
1,033.0	14.70	187.30	1,021.5	-122.0	-7.0	122.0	0.68	0.57	-1.48	-1.48
1,139.0	13.10	187.00	1,124.4	-147.3	-10.1	147.5	1.51	-1.51	-0.28	-0.28

Company:	Anadarko, Weld County CO	Local Co-ordinate Reference:	Well Badding 24-26
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 24-26	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)	
1,228.0	13.20	186.50	1,211.1	-167.4	-12.5	167.7	0.17	0.11	-0.56	
1,316.0	14.00	187.50	1,296.6	-187.9	-15.0	188.4	0.95	0.91	1.14	
1,405.0	14.80	186.70	1,382.8	-209.9	-17.8	210.6	0.93	0.90	-0.90	
1,493.0	14.60	185.50	1,468.0	-232.1	-20.1	232.9	0.41	-0.23	-1.36	
1,582.0	14.60	185.60	1,554.1	-254.4	-22.3	255.3	0.03	0.00	0.11	
1,671.0	15.10	185.00	1,640.1	-277.2	-24.4	278.1	0.59	0.56	-0.67	
1,759.0	15.00	183.80	1,725.1	-299.9	-26.2	301.0	0.37	-0.11	-1.36	
1,848.0	15.60	183.80	1,810.9	-323.4	-27.7	324.4	0.67	0.67	0.00	
1,937.0	15.30	183.60	1,896.7	-347.0	-29.3	348.1	0.34	-0.34	-0.22	
2,025.0	15.60	186.40	1,981.5	-370.4	-31.3	371.5	0.91	0.34	3.18	
2,114.0	15.30	186.90	2,067.3	-393.9	-34.0	395.2	0.37	-0.34	0.56	
2,203.0	15.90	191.10	2,153.0	-417.5	-37.8	419.1	1.44	0.67	4.72	
2,291.0	15.40	190.90	2,237.8	-440.8	-42.3	442.8	0.57	-0.57	-0.23	
2,380.0	15.30	190.40	2,323.6	-464.0	-46.7	466.3	0.19	-0.11	-0.56	
2,469.0	15.40	192.60	2,409.4	-487.1	-51.4	489.8	0.66	0.11	2.47	
2,557.0	15.20	191.80	2,494.3	-509.8	-56.3	512.9	0.33	-0.23	-0.91	
2,646.0	16.00	190.30	2,580.0	-533.3	-60.9	536.7	1.01	0.90	-1.69	
2,734.0	15.60	187.30	2,664.7	-556.9	-64.5	560.7	1.03	-0.45	-3.41	
2,823.0	15.50	186.30	2,750.5	-580.6	-67.4	584.5	0.32	-0.11	-1.12	
2,912.0	15.40	186.60	2,836.2	-604.2	-70.0	608.2	0.14	-0.11	0.34	
3,000.0	16.00	187.90	2,921.0	-627.8	-73.0	632.0	0.79	0.68	1.48	
3,089.0	16.70	188.60	3,006.4	-652.6	-76.6	657.1	0.82	0.79	0.79	
3,178.0	17.00	187.30	3,091.5	-678.1	-80.2	682.9	0.54	0.34	-1.46	
3,266.0	17.20	187.50	3,175.6	-703.8	-83.5	708.7	0.24	0.23	0.23	
3,355.0	16.50	186.70	3,260.8	-729.4	-86.7	734.5	0.83	-0.79	-0.90	
3,444.0	17.00	185.70	3,346.1	-754.9	-89.5	760.2	0.65	0.56	-1.12	
3,532.0	15.50	185.90	3,430.5	-779.4	-92.0	784.8	1.71	-1.70	0.23	
3,621.0	15.90	191.10	3,516.2	-803.2	-95.6	808.9	1.64	0.45	5.84	
3,709.0	15.60	188.80	3,600.9	-826.7	-99.7	832.7	0.79	-0.34	-2.61	
3,798.0	15.20	186.50	3,686.7	-850.1	-102.8	856.3	0.82	-0.45	-2.58	
3,887.0	15.10	186.50	3,772.6	-873.2	-105.5	879.6	0.11	-0.11	0.00	
3,975.0	15.30	189.30	3,857.5	-896.1	-108.6	902.6	0.86	0.23	3.18	
4,064.0	14.90	188.40	3,943.5	-919.0	-112.2	925.8	0.52	-0.45	-1.01	
4,153.0	15.20	184.60	4,029.4	-942.0	-114.8	948.9	1.16	0.34	-4.27	
4,241.0	14.60	184.80	4,114.5	-964.5	-116.7	971.5	0.68	-0.68	0.23	
4,330.0	15.00	185.90	4,200.5	-987.1	-118.8	994.2	0.55	0.45	1.24	
4,419.0	15.20	184.10	4,286.4	-1,010.2	-120.8	1,017.4	0.57	0.22	-2.02	
4,507.0	15.40	184.20	4,371.3	-1,033.4	-122.5	1,040.6	0.23	0.23	0.11	
4,596.0	13.60	185.40	4,457.5	-1,055.6	-124.3	1,062.9	2.05	-2.02	1.35	
4,684.0	11.60	185.00	4,543.4	-1,074.7	-126.1	1,082.1	2.27	-2.27	-0.45	
4,773.0	10.00	187.00	4,630.8	-1,091.3	-127.8	1,098.8	1.85	-1.80	2.25	
4,862.0	9.00	187.80	4,718.6	-1,105.9	-129.7	1,113.4	1.13	-1.12	0.90	
4,950.0	8.20	194.90	4,805.6	-1,118.8	-132.2	1,126.5	1.51	-0.91	8.07	
5,039.0	6.40	197.00	4,893.8	-1,129.6	-135.3	1,137.7	2.04	-2.02	2.36	
5,128.0	4.30	190.00	4,982.5	-1,137.7	-137.4	1,145.9	2.47	-2.36	-7.87	
5,216.0	2.00	181.70	5,070.3	-1,142.4	-138.0	1,150.7	2.66	-2.61	-9.43	
5,349.0	0.70	114.00	5,203.3	-1,145.1	-137.3	1,153.3	1.39	-0.98	-50.90	
5,445.7	0.12	108.54	5,300.0	-1,145.4	-136.7	1,153.5	0.60	-0.60	-5.65	
TARGET BHL 2610'FNL, 1330'FEL										
5,482.0	0.10	303.00	5,336.3	-1,145.4	-136.7	1,153.5	0.60	-0.05	-456.64	
5,615.0	0.10	345.00	5,469.3	-1,145.2	-136.8	1,153.3	0.05	0.00	31.58	
5,748.0	0.50	131.00	5,602.3	-1,145.5	-136.4	1,153.5	0.44	0.30	109.77	
5,881.0	0.90	358.00	5,735.3	-1,144.8	-136.0	1,152.8	0.97	0.30	-100.00	
6,014.0	0.70	16.30	5,868.3	-1,143.0	-135.8	1,151.0	0.24	-0.15	13.76	

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Site:	Badding 17-26 Pad Sec.26-T2N-R66W	MD Reference:	WELL @ 5081.0ft (Original Well Elev)
Well:	Badding 24-26	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)
6,147.0	0.50	32.50	6,001.3	-1,141.7	-135.2	1,149.7	0.20	-0.15	12.18
6,280.0	0.80	41.00	6,134.2	-1,140.5	-134.3	1,148.4	0.24	0.23	6.39
6,413.0	0.90	46.70	6,267.2	-1,139.1	-133.0	1,146.8	0.10	0.08	4.29
6,546.0	0.90	50.00	6,400.2	-1,137.7	-131.4	1,145.3	0.04	0.00	2.48
6,679.0	1.40	52.00	6,533.2	-1,136.0	-129.3	1,143.4	0.38	0.38	1.50
6,812.0	2.00	57.00	6,666.1	-1,133.8	-126.1	1,140.8	0.46	0.45	3.76
6,945.0	1.70	43.30	6,799.1	-1,131.1	-122.8	1,137.7	0.40	-0.23	-10.30
7,078.0	1.20	100.30	6,932.0	-1,129.9	-120.1	1,136.2	1.09	-0.38	42.86
7,211.0	0.50	201.90	7,065.0	-1,130.7	-118.9	1,136.9	1.04	-0.53	76.39
7,343.1	0.10	29.88	7,197.1	-1,131.1	-119.1	1,137.3	0.45	-0.31	-130.26
TARGET CIRCLE 2610'FNL, 1330'FEL									
7,344.0	0.10	29.60	7,198.0	-1,131.1	-119.1	1,137.3	0.45	0.45	-30.14
7,477.0	0.10	348.40	7,331.0	-1,130.9	-119.0	1,137.1	0.05	0.00	-30.98
7,610.0	0.40	72.40	7,464.0	-1,130.6	-118.6	1,136.8	0.30	0.23	63.16
7,743.0	0.20	68.20	7,597.0	-1,130.4	-118.0	1,136.5	0.15	-0.15	-3.16
7,876.0	0.30	57.40	7,730.0	-1,130.1	-117.4	1,136.2	0.08	0.08	-8.12
8,008.0	0.20	31.00	7,862.0	-1,129.8	-117.0	1,135.7	0.11	-0.08	-20.00
8,141.0	0.50	20.10	7,995.0	-1,129.0	-116.7	1,135.0	0.23	0.23	-8.20
8,232.0	0.30	13.40	8,086.0	-1,128.4	-116.5	1,134.3	0.23	-0.22	-7.36
8,262.5	0.30	13.40	8,116.5	-1,128.2	-116.5	1,134.2	0.00	0.00	0.00
HARDLINE 44'S OF BHL									
8,280.0	0.30	13.40	8,134.0	-1,128.2	-116.5	1,134.1	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____