

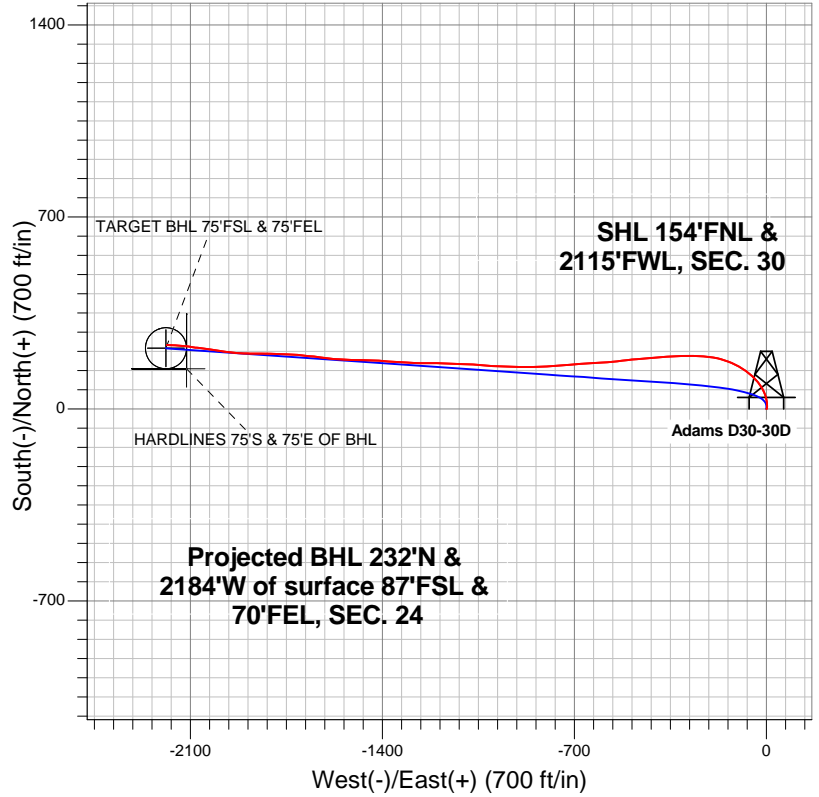


Well Name: Adams D30-30D

Surface Location: Dechant D30-17D Pad Sec.30-T3N-R64W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4782.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1318082.17	3252733.01	40.202993	-104.595168	
Original Well Elev		WELL @ 4795.0ft (Original Well Elev)				

NOBLE ENERGY INC WELD COUNTY CO



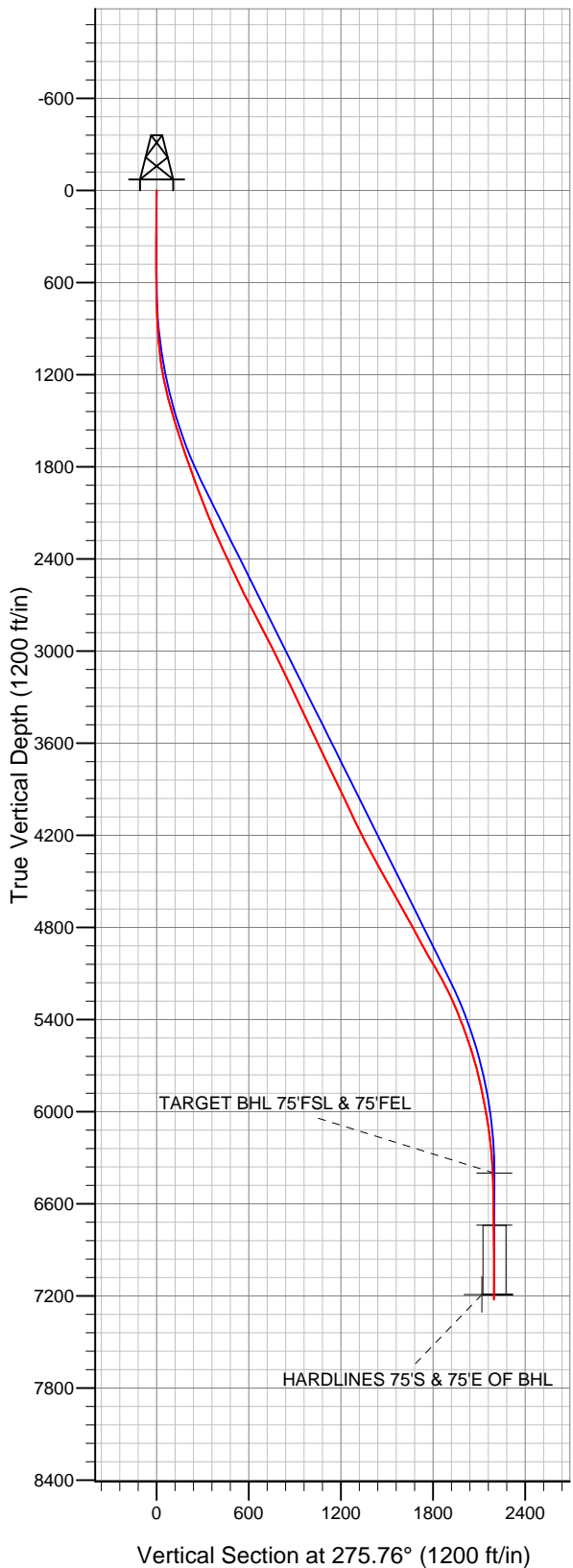
LEGEND

- Wellbore #1
- Adams D30-30D, Wellbore #1, Noble Adams D30-30D Plan #1 (7-26-12) R V0
- Survey #1

Final Survey Plot

Projected Final Survey -
7707'MD & 7225'TVD @ 2197'VS
0.60 deg Inc 119.30 deg AZ

Project: SEC.30-T3N-R64W
Site: Dechant D30-17D Pad Sec.30-T3N-R64W
Well: Adams D30-30D
Plan: Wellbore #1





NOBLE ENERGY INC WELD COUNTY CO

SEC.30-T3N-R64W

Dechant D30-17D Pad Sec.30-T3N-R64W

Adams D30-30D

Wellbore #1

Survey: Survey #1

Standard Survey Report

06 August, 2012



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Adams D30-30D
Project:	SEC.30-T3N-R64W	TVD Reference:	WELL @ 4795.0ft (Original Well Elev)
Site:	Dechant D30-17D Pad Sec.30-T3N-R64W	MD Reference:	WELL @ 4795.0ft (Original Well Elev)
Well:	Adams D30-30D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.30-T3N-R64W, 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	Dechant D30-17D Pad Sec.30-T3N-R64W		
Site Position:		Northing:	1,318,082.67 ft
From:	Lat/Long	Easting:	3,252,777.98 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.202993
		Longitude:	-104.595007
		Grid Convergence:	0.58 °

Well	Adams D30-30D		
Well Position	+N/-S	0.0 ft	Northing: 1,318,082.17 ft
	+E/-W	0.0 ft	Easting: 3,252,733.01 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.202993
		Longitude:	-104.595168
		Ground Level:	4,782.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/26/2012	8.61	66.88	52,929

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	275.76	

Survey Program	Date	8/3/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
144.0	7,707.0	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	
144.0	0.40	126.60	144.0	-0.3	0.4	-0.4	0.28	0.28	0.00	
236.0	0.60	54.20	236.0	-0.2	1.1	-1.1	0.67	0.22	-78.70	
328.0	1.20	41.40	328.0	0.8	2.1	-2.0	0.68	0.65	-13.91	
420.0	1.90	5.70	420.0	3.0	2.9	-2.5	1.26	0.76	-38.80	
511.0	3.70	359.90	510.8	7.5	3.0	-2.2	2.00	1.98	-6.37	
613.0	5.00	359.70	612.5	15.2	3.0	-1.4	1.27	1.27	-0.20	
695.0	6.20	351.50	694.2	23.2	2.3	0.0	1.76	1.46	-10.00	
794.0	6.60	347.60	792.5	34.0	0.3	3.1	0.60	0.40	-3.94	
876.0	7.70	343.70	873.9	43.9	-2.3	6.6	1.47	1.34	-4.76	
957.0	9.40	339.50	954.0	55.3	-6.1	11.6	2.23	2.10	-5.19	
1,039.0	10.60	333.00	1,034.8	68.3	-11.9	18.7	2.01	1.46	-7.93	
1,121.0	12.30	326.60	1,115.1	82.3	-20.1	28.3	2.59	2.07	-7.80	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Adams D30-30D
Project:	SEC.30-T3N-R64W	TVD Reference:	WELL @ 4795.0ft (Original Well Elev)
Site:	Dechant D30-17D Pad Sec.30-T3N-R64W	MD Reference:	WELL @ 4795.0ft (Original Well Elev)
Well:	Adams D30-30D	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)
1,202.0	14.30	320.70	1,193.9	97.2	-31.2	40.8	2.98	2.47	-7.28
1,284.0	16.00	316.10	1,273.1	113.2	-45.4	56.6	2.54	2.07	-5.61
1,366.0	17.10	308.70	1,351.7	128.9	-62.7	75.3	2.90	1.34	-9.02
1,447.0	17.90	303.80	1,429.0	143.3	-82.3	96.3	2.07	0.99	-6.05
1,529.0	18.50	298.90	1,506.9	156.6	-104.2	119.4	2.00	0.73	-5.98
1,611.0	18.10	292.50	1,584.7	167.7	-127.3	143.5	2.50	-0.49	-7.80
1,692.0	18.50	288.20	1,661.6	176.6	-151.2	168.1	1.74	0.49	-5.31
1,774.0	19.30	283.40	1,739.2	183.8	-176.7	194.3	2.13	0.98	-5.85
1,856.0	20.10	278.10	1,816.4	188.9	-203.9	221.8	2.39	0.98	-6.46
1,937.0	20.10	273.60	1,892.5	191.7	-231.5	249.6	1.91	0.00	-5.56
2,019.0	20.80	270.90	1,969.3	192.8	-260.1	278.2	1.43	0.85	-3.29
2,101.0	21.50	269.70	2,045.8	193.0	-289.7	307.6	1.00	0.85	-1.46
2,182.0	22.30	267.20	2,121.0	192.2	-319.9	337.6	1.52	0.99	-3.09
2,264.0	23.80	266.40	2,196.4	190.4	-352.0	369.3	1.87	1.83	-0.98
2,346.0	24.50	266.70	2,271.2	188.4	-385.5	402.4	0.87	0.85	0.37
2,427.0	24.90	265.30	2,344.8	186.0	-419.2	435.8	0.87	0.49	-1.73
2,509.0	25.50	265.30	2,419.0	183.1	-454.0	470.1	0.73	0.73	0.00
2,591.0	26.40	263.70	2,492.7	179.7	-489.7	505.3	1.39	1.10	-1.95
2,673.0	25.50	262.50	2,566.5	175.4	-525.4	540.3	1.27	-1.10	-1.46
2,754.0	27.40	265.40	2,639.0	171.6	-561.2	575.6	2.84	2.35	3.58
2,836.0	28.40	266.50	2,711.5	168.9	-599.5	613.4	1.37	1.22	1.34
2,918.0	28.10	266.90	2,783.7	166.7	-638.3	651.8	0.43	-0.37	0.49
2,999.0	27.90	265.50	2,855.2	164.1	-676.2	689.3	0.85	-0.25	-1.73
3,081.0	27.40	264.80	2,927.9	160.9	-714.1	726.7	0.73	-0.61	-0.85
3,163.0	26.60	265.70	3,000.9	157.8	-751.2	763.3	1.10	-0.98	1.10
3,244.0	25.50	266.20	3,073.7	155.3	-786.7	798.3	1.38	-1.36	0.62
3,326.0	26.70	267.80	3,147.3	153.5	-822.7	834.0	1.70	1.46	1.95
3,408.0	25.70	269.20	3,220.9	152.5	-858.9	869.9	1.43	-1.22	1.71
3,489.0	25.10	271.80	3,294.1	152.8	-893.6	904.5	1.56	-0.74	3.21
3,571.0	25.60	271.30	3,368.2	153.7	-928.7	939.5	0.66	0.61	-0.61
3,653.0	25.50	271.50	3,442.2	154.6	-964.1	974.7	0.16	-0.12	0.24
3,734.0	25.30	273.60	3,515.3	156.1	-998.8	1,009.4	1.14	-0.25	2.59
3,816.0	25.20	275.00	3,589.5	158.8	-1,033.7	1,044.4	0.74	-0.12	1.71
3,898.0	25.90	273.60	3,663.5	161.4	-1,068.9	1,079.7	1.13	0.85	-1.71
3,979.0	25.10	272.30	3,736.6	163.2	-1,103.8	1,114.6	1.21	-0.99	-1.60
4,061.0	25.90	272.20	3,810.6	164.6	-1,139.0	1,149.8	0.98	0.98	-0.12
4,143.0	26.40	271.60	3,884.2	165.8	-1,175.1	1,185.9	0.69	0.61	-0.73
4,224.0	25.90	269.70	3,956.9	166.2	-1,210.8	1,221.4	1.20	-0.62	-2.35
4,306.0	24.60	270.60	4,031.1	166.3	-1,245.8	1,256.2	1.65	-1.59	1.10
4,388.0	25.10	273.00	4,105.5	167.4	-1,280.3	1,290.6	1.37	0.61	2.93
4,469.0	27.50	272.50	4,178.1	169.1	-1,316.1	1,326.4	2.98	2.96	-0.62
4,551.0	28.00	274.40	4,250.7	171.4	-1,354.2	1,364.6	1.24	0.61	2.32
4,633.0	28.00	274.10	4,323.1	174.3	-1,392.6	1,403.1	0.17	0.00	-0.37
4,715.0	28.00	271.80	4,395.5	176.2	-1,431.0	1,441.5	1.32	0.00	-2.80
4,796.0	29.70	271.80	4,466.4	177.5	-1,470.1	1,480.5	2.10	2.10	0.00
4,878.0	30.50	271.80	4,537.4	178.8	-1,511.2	1,521.5	0.98	0.98	0.00
4,960.0	29.20	272.30	4,608.5	180.2	-1,552.0	1,562.2	1.61	-1.59	0.61
5,041.0	28.60	276.90	4,679.4	183.3	-1,591.0	1,601.3	2.84	-0.74	5.68
5,123.0	28.50	277.80	4,751.4	188.3	-1,629.8	1,640.5	0.54	-0.12	1.10
5,205.0	29.30	275.00	4,823.2	192.7	-1,669.2	1,680.1	1.92	0.98	-3.41
5,286.0	28.10	275.70	4,894.3	196.4	-1,707.9	1,719.0	1.54	-1.48	0.86
5,368.0	29.00	272.20	4,966.3	199.1	-1,747.0	1,758.2	2.32	1.10	-4.27
5,450.0	31.70	271.30	5,037.1	200.3	-1,788.4	1,799.5	3.34	3.29	-1.10
5,531.0	29.90	271.10	5,106.6	201.2	-1,829.9	1,840.9	2.23	-2.22	-0.25

Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.30-T3N-R64W
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Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Adams D30-30D
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Survey Calculation Method: Minimum Curvature
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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)
5,613.0	27.10	270.00	5,178.7	201.6	-1,869.0	1,879.8	3.47	-3.41	-1.34
5,695.0	25.20	272.70	5,252.3	202.4	-1,905.1	1,915.8	2.73	-2.32	3.29
5,776.0	22.70	275.80	5,326.3	204.8	-1,937.9	1,948.7	3.45	-3.09	3.83
5,858.0	21.30	275.80	5,402.3	207.9	-1,968.5	1,979.4	1.71	-1.71	0.00
5,940.0	20.10	277.30	5,479.1	211.2	-1,997.3	2,008.4	1.60	-1.46	1.83
6,021.0	18.30	282.90	5,555.5	215.8	-2,023.5	2,034.9	3.18	-2.22	6.91
6,103.0	16.80	277.80	5,633.7	220.3	-2,047.8	2,059.5	2.62	-1.83	-6.22
6,185.0	15.70	273.90	5,712.5	222.6	-2,070.6	2,082.5	1.89	-1.34	-4.76
6,266.0	12.70	276.70	5,791.0	224.4	-2,090.4	2,102.3	3.80	-3.70	3.46
6,348.0	11.50	282.00	5,871.2	227.2	-2,107.3	2,119.5	1.99	-1.46	6.46
6,430.0	10.50	273.00	5,951.7	229.3	-2,122.8	2,135.1	2.42	-1.22	-10.98
6,511.0	10.00	274.40	6,031.4	230.2	-2,137.2	2,149.5	0.69	-0.62	1.73
6,593.0	8.20	273.40	6,112.3	231.1	-2,150.1	2,162.4	2.20	-2.20	-1.22
6,675.0	6.90	272.90	6,193.6	231.7	-2,160.9	2,173.2	1.59	-1.59	-0.61
6,757.0	4.70	272.70	6,275.2	232.1	-2,169.1	2,181.5	2.68	-2.68	-0.24
6,838.0	3.00	270.70	6,356.0	232.3	-2,174.6	2,186.9	2.10	-2.10	-2.47
6,882.6	2.46	271.98	6,400.5	232.3	-2,176.7	2,189.0	1.23	-1.22	2.88
TARGET BHL 75'FSL & 75'FEL									
6,920.0	2.00	273.60	6,437.9	232.4	-2,178.1	2,190.5	1.23	-1.22	4.32
7,002.0	1.20	277.30	6,519.9	232.6	-2,180.4	2,192.8	0.98	-0.98	4.51
7,083.0	0.90	276.70	6,600.9	232.8	-2,181.9	2,194.2	0.37	-0.37	-0.74
7,165.0	0.70	282.40	6,682.9	232.9	-2,183.0	2,195.4	0.26	-0.24	6.95
7,222.2	0.49	278.20	6,740.0	233.1	-2,183.6	2,196.0	0.38	-0.37	-7.36
TARGET CIRCLE 75'FSL & 75'FEL									
7,247.0	0.40	275.00	6,764.9	233.1	-2,183.8	2,196.2	0.38	-0.36	-12.87
7,328.0	0.30	262.70	6,845.9	233.1	-2,184.3	2,196.6	0.15	-0.12	-15.19
7,410.0	0.20	266.10	6,927.9	233.0	-2,184.6	2,197.0	0.12	-0.12	4.15
7,492.0	0.10	188.30	7,009.9	233.0	-2,184.8	2,197.1	0.25	-0.12	-94.88
7,573.0	0.00	145.90	7,090.9	232.9	-2,184.8	2,197.1	0.12	-0.12	0.00
7,662.0	0.40	126.80	7,179.9	232.7	-2,184.6	2,196.9	0.45	0.45	0.00
HARDLINES 75'S & 75'E OF BHL									
7,707.0	0.60	119.30	7,224.9	232.5	-2,184.2	2,196.5	0.47	0.44	-16.67

Checked By: _____ Approved By: _____ Date: _____