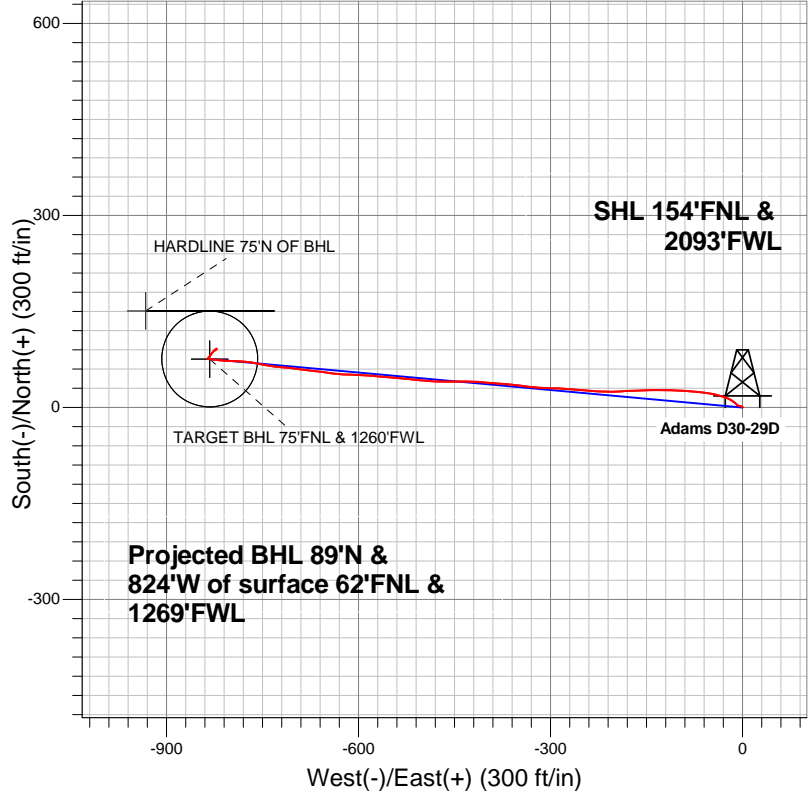


Well Name: Adams D30-29D

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	1318081.61	3252710.67	40.202992	-104.595248	
Original Well Elev						
WELL @ 4795.0ft (Original Well Elev)						

NOBLE ENERGY INC WELD COUNTY CO



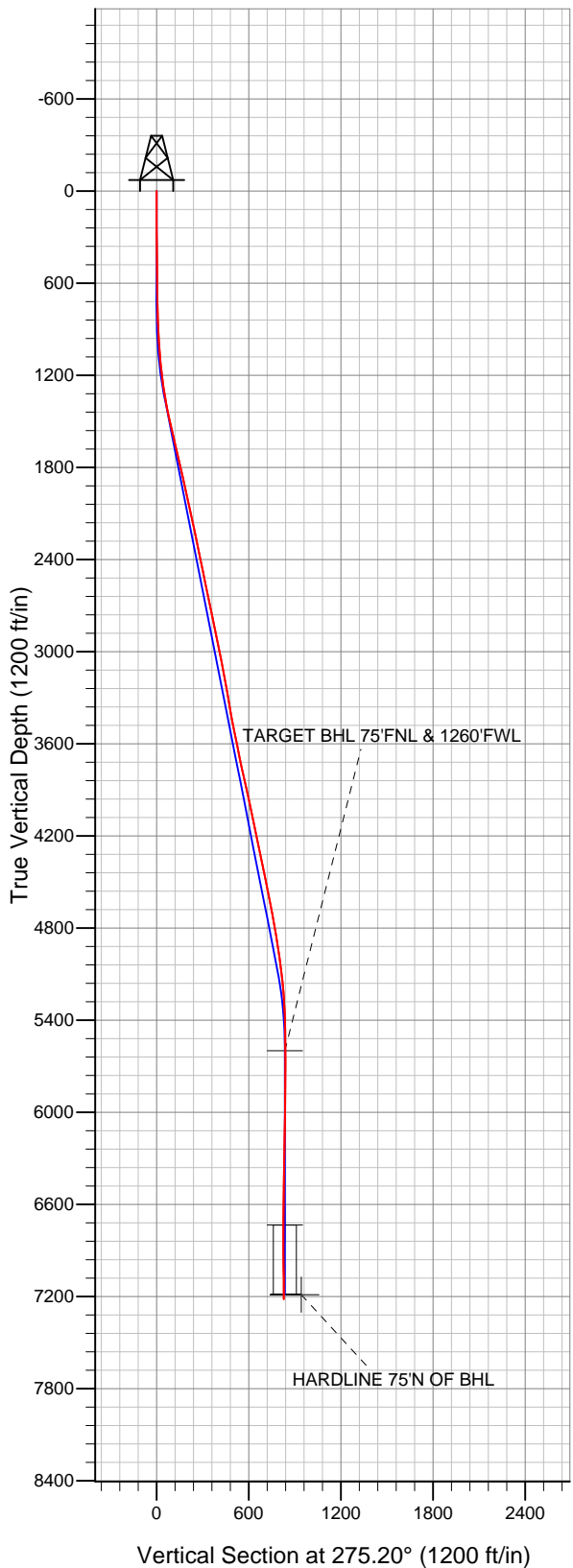
LEGEND

- Wellbore #1
- Adams D30-29D, Wellbore #1, Noble Adams D30-29D Plan #1 (3-7-12) V0
- Survey #1

Final Survey Plot

Projected Final Survey -
7299'MD & 7218'TVD @ 829'VS
0.40 deg Inc 245.00 deg AZ

Project: SEC.30-T3N-R64W
Site: Dechant D30-17D Pad Sec.30-T3N-R64W
Well: Adams D30-29D
Plan: Wellbore #1





NOBLE ENERGY INC WELD COUNTY CO

SEC.30-T3N-R64W

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

Adams D30-29D

Wellbore #1

Survey: Survey #1

Standard Survey Report

31 July, 2012



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Adams D30-29D
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 D30-29D	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 D30-29D		
Well Position	+N/-S	0.0 ft	Northing: 1,318,081.61 ft
	+E/-W	0.0 ft	Easting: 3,252,710.67 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.202992
		Longitude:	-104.595248
		Ground Level:	4,782.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/13/2012	8.66	66.89	52,968

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	275.20	

Survey Program	Date	7/31/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
144.0	7,299.0	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	0.20	350.20	144.0	0.2	0.0	0.1	0.14	0.14	0.00	
236.0	0.50	325.80	236.0	0.7	-0.3	0.4	0.36	0.33	-26.52	
328.0	0.50	331.20	328.0	1.4	-0.7	0.8	0.05	0.00	5.87	
420.0	1.00	283.90	420.0	2.0	-1.7	1.9	0.82	0.54	-51.41	
511.0	0.80	279.40	511.0	2.3	-3.1	3.3	0.23	-0.22	-4.95	
613.0	0.90	279.50	613.0	2.5	-4.6	4.8	0.10	0.10	0.10	
720.0	0.80	281.30	720.0	2.8	-6.1	6.4	0.10	-0.09	1.68	
765.0	0.80	283.00	764.9	2.9	-6.8	7.0	0.05	0.00	3.78	
794.0	1.10	296.60	793.9	3.1	-7.2	7.5	1.29	1.03	46.90	
876.0	2.50	316.80	875.9	4.8	-9.1	9.5	1.85	1.71	24.63	
957.0	4.00	311.20	956.8	7.9	-12.5	13.1	1.89	1.85	-6.91	
1,039.0	5.00	299.60	1,038.5	11.6	-17.7	18.7	1.64	1.22	-14.15	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Adams D30-29D
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 D30-29D	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)
1,121.0	6.20	291.10	1,120.1	14.9	-25.0	26.2	1.78	1.46	-10.37
1,202.0	7.30	285.50	1,200.6	17.9	-34.0	35.5	1.58	1.36	-6.91
1,284.0	8.40	283.20	1,281.8	20.6	-44.9	46.5	1.39	1.34	-2.80
1,366.0	9.70	276.90	1,362.8	22.8	-57.5	59.4	1.99	1.59	-7.68
1,447.0	11.50	275.50	1,442.4	24.4	-72.4	74.3	2.24	2.22	-1.73
1,529.0	13.10	274.10	1,522.5	25.9	-89.8	91.7	1.98	1.95	-1.71
1,611.0	13.10	271.80	1,602.4	26.8	-108.3	110.3	0.64	0.00	-2.80
1,692.0	12.80	270.00	1,681.3	27.1	-126.5	128.4	0.62	-0.37	-2.22
1,774.0	13.40	269.20	1,761.2	27.0	-145.1	146.9	0.76	0.73	-0.98
1,856.0	13.20	268.30	1,841.0	26.6	-163.9	165.6	0.35	-0.24	-1.10
1,937.0	12.90	266.50	1,919.9	25.7	-182.2	183.8	0.62	-0.37	-2.22
2,019.0	12.60	267.80	1,999.9	24.8	-200.3	201.7	0.51	-0.37	1.59
2,101.0	11.90	271.10	2,080.0	24.7	-217.6	219.0	1.21	-0.85	4.02
2,182.0	12.20	275.30	2,159.2	25.6	-234.5	235.9	1.14	0.37	5.19
2,264.0	11.80	276.00	2,239.4	27.3	-251.5	252.9	0.52	-0.49	0.85
2,346.0	11.40	272.90	2,319.7	28.6	-267.9	269.4	0.90	-0.49	-3.78
2,427.0	11.60	272.50	2,399.1	29.3	-284.0	285.5	0.27	0.25	-0.49
2,509.0	11.90	273.20	2,479.4	30.2	-300.7	302.2	0.41	0.37	0.85
2,591.0	11.30	273.00	2,559.7	31.1	-317.2	318.7	0.73	-0.73	-0.24
2,673.0	11.90	276.70	2,640.1	32.5	-333.6	335.2	1.17	0.73	4.51
2,754.0	12.20	277.10	2,719.3	34.5	-350.4	352.1	0.38	0.37	0.49
2,836.0	11.90	274.40	2,799.5	36.2	-367.4	369.2	0.78	-0.37	-3.29
2,918.0	11.80	274.30	2,879.7	37.5	-384.2	386.0	0.12	-0.12	-0.12
2,999.0	11.40	275.10	2,959.1	38.8	-400.4	402.3	0.53	-0.49	0.99
3,081.0	10.50	273.60	3,039.6	40.0	-416.0	417.9	1.15	-1.10	-1.83
3,163.0	11.00	271.80	3,120.1	40.7	-431.2	433.2	0.73	0.61	-2.20
3,244.0	10.60	267.60	3,199.7	40.7	-446.4	448.3	1.09	-0.49	-5.19
3,326.0	10.00	268.60	3,280.4	40.2	-461.1	462.8	0.76	-0.73	1.22
3,408.0	9.80	272.90	3,361.2	40.3	-475.2	476.9	0.93	-0.24	5.24
3,489.0	10.70	275.50	3,440.9	41.4	-489.5	491.3	1.25	1.11	3.21
3,571.0	11.20	274.60	3,521.4	42.8	-505.0	506.8	0.64	0.61	-1.10
3,653.0	11.60	276.90	3,601.7	44.4	-521.2	523.0	0.74	0.49	2.80
3,734.0	11.90	274.80	3,681.1	46.1	-537.6	539.5	0.64	0.37	-2.59
3,816.0	11.50	274.40	3,761.3	47.4	-554.1	556.2	0.50	-0.49	-0.49
3,898.0	12.70	275.00	3,841.5	48.8	-571.3	573.4	1.47	1.46	0.73
3,979.0	12.90	273.60	3,920.5	50.2	-589.2	591.3	0.46	0.25	-1.73
4,061.0	12.00	271.30	4,000.6	50.9	-606.8	608.9	1.25	-1.10	-2.80
4,143.0	11.80	273.40	4,080.8	51.6	-623.7	625.8	0.58	-0.24	2.56
4,224.0	11.70	277.40	4,160.1	53.2	-640.1	642.3	1.01	-0.12	4.94
4,306.0	11.70	278.50	4,240.4	55.5	-656.6	658.9	0.27	0.00	1.34
4,388.0	11.40	275.10	4,320.8	57.4	-672.9	675.3	0.91	-0.37	-4.15
4,469.0	11.90	278.70	4,400.1	59.4	-689.1	691.7	1.09	0.62	4.44
4,551.0	12.00	275.00	4,480.3	61.4	-706.0	708.6	0.94	0.12	-4.51
4,633.0	11.60	275.70	4,560.6	63.0	-722.7	725.4	0.52	-0.49	0.85
4,715.0	10.60	279.20	4,641.1	65.0	-738.3	741.2	1.47	-1.22	4.27
4,796.0	10.40	281.30	4,720.7	67.6	-752.8	755.9	0.53	-0.25	2.59
4,878.0	9.80	278.50	4,801.4	70.1	-767.0	770.2	0.95	-0.73	-3.41
4,960.0	8.90	274.10	4,882.3	71.6	-780.2	783.5	1.40	-1.10	-5.37
5,041.0	8.90	272.90	4,962.4	72.4	-792.7	796.0	0.23	0.00	-1.48
5,123.0	7.70	273.20	5,043.5	73.0	-804.6	807.9	1.46	-1.46	0.37
5,205.0	6.20	274.10	5,124.9	73.6	-814.5	817.8	1.83	-1.83	1.10
5,286.0	4.70	276.00	5,205.5	74.3	-822.1	825.5	1.86	-1.85	2.35
5,368.0	3.30	279.50	5,287.3	75.0	-827.8	831.2	1.73	-1.71	4.27
5,450.0	2.60	282.50	5,369.2	75.8	-831.9	835.4	0.87	-0.85	3.66

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Adams D30-29D
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 D30-29D	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)
5,531.0	1.40	273.60	5,450.2	76.3	-834.7	838.2	1.53	-1.48	-10.99
5,613.0	0.30	225.70	5,532.2	76.2	-835.9	839.3	1.49	-1.34	-58.41
5,680.8	0.21	195.47	5,600.0	75.9	-836.0	839.5	0.24	-0.14	-44.56
TARGET BHL 75'FNL & 1260'FWL									
5,695.0	0.20	186.40	5,614.2	75.9	-836.0	839.5	0.24	-0.06	-64.05
5,776.0	0.40	56.10	5,695.2	75.9	-835.8	839.3	0.68	0.25	-160.86
5,858.0	0.70	39.10	5,777.2	76.5	-835.3	838.8	0.41	0.37	-20.73
5,940.0	0.90	37.70	5,859.1	77.4	-834.6	838.1	0.25	0.24	-1.71
6,021.0	1.10	34.90	5,940.1	78.5	-833.7	837.4	0.25	0.25	-3.46
6,103.0	1.20	38.20	6,022.1	79.8	-832.7	836.6	0.15	0.12	4.02
6,185.0	1.40	37.10	6,104.1	81.3	-831.6	835.6	0.25	0.24	-1.34
6,266.0	1.70	36.60	6,185.1	83.1	-830.3	834.4	0.37	0.37	-0.62
6,348.0	1.90	39.40	6,267.0	85.1	-828.7	833.0	0.27	0.24	3.41
6,430.0	2.40	36.80	6,349.0	87.5	-826.8	831.3	0.62	0.61	-3.17
6,511.0	2.00	49.30	6,429.9	89.8	-824.7	829.5	0.77	-0.49	15.43
6,593.0	1.50	60.90	6,511.9	91.2	-822.7	827.6	0.74	-0.61	14.15
6,675.0	0.40	60.30	6,593.9	91.9	-821.5	826.5	1.34	-1.34	-0.73
6,757.0	0.30	215.00	6,675.9	91.9	-821.4	826.3	0.83	-0.12	188.66
6,816.3	0.37	201.64	6,735.1	91.6	-821.6	826.5	0.18	0.12	-22.54
TARGET CIRCLE 75'FNL & 1260'FWL									
6,838.0	0.40	198.00	6,756.9	91.4	-821.6	826.5	0.18	0.14	-16.76
6,920.0	0.40	206.80	6,838.9	90.9	-821.8	826.7	0.07	0.00	10.73
7,002.0	0.40	227.00	6,920.8	90.4	-822.2	827.0	0.17	0.00	24.63
7,083.0	0.40	231.40	7,001.8	90.1	-822.6	827.4	0.04	0.00	5.43
7,165.0	0.40	228.00	7,083.8	89.7	-823.0	827.8	0.03	0.00	-4.15
7,254.0	0.40	236.50	7,172.8	89.3	-823.5	828.2	0.07	0.00	9.55
HARDLINE 75'N OF BHL									
7,299.0	0.40	245.00	7,217.8	89.2	-823.8	828.5	0.13	0.00	18.89

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------