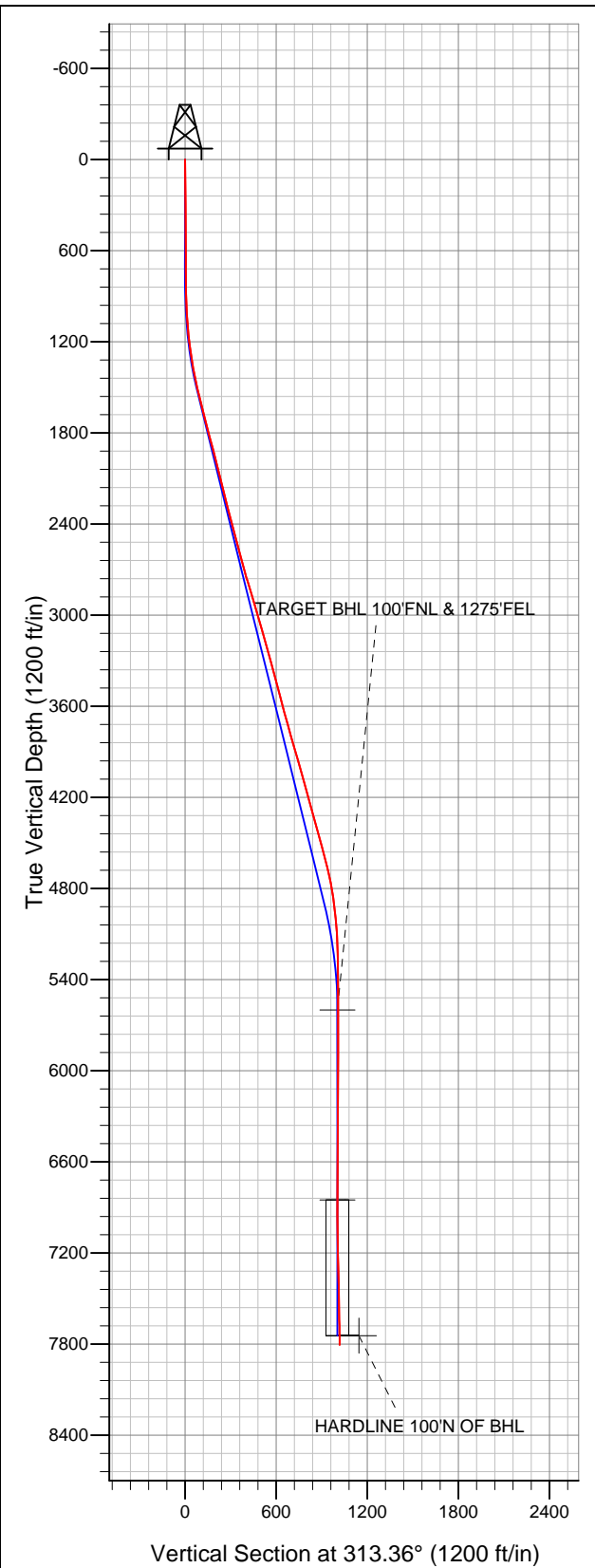


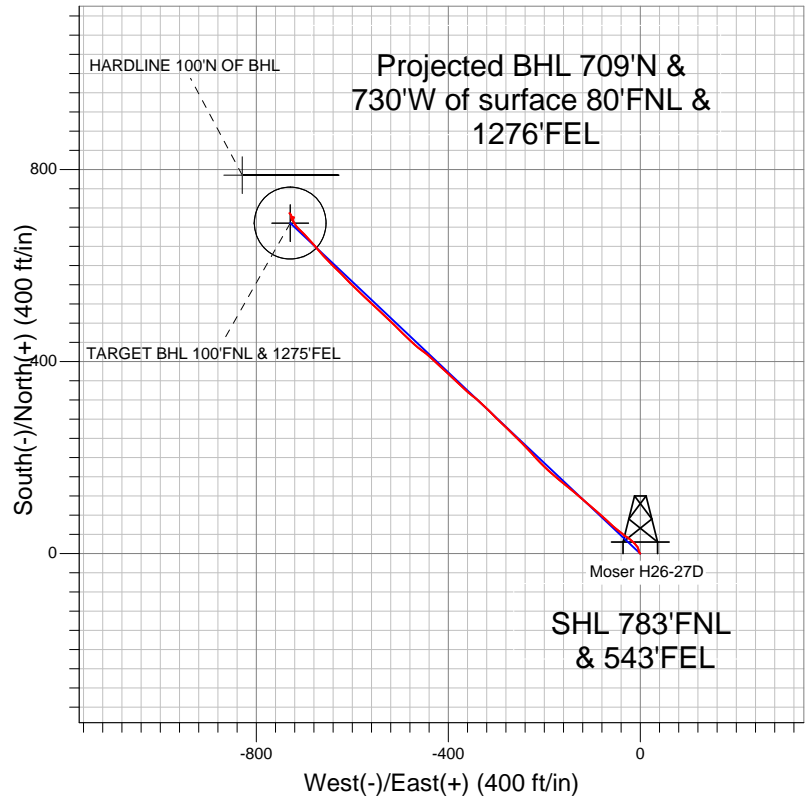
Well Name: Moser H26-27D

Surface Location: Moser-Dechant Pad Sec.26-T3N-R65W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4857.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1317412.61	3244937.29	40.201370	-104.623100	
		Original Well Elev	WELL @ 4870.0ft (Original Well Elev)			



NOBLE ENERGY INC WELD COUNTY CO



- LEGEND
- Wellbore #1
 - Moser H26-27D, Wellbore #1, Noble Moser H26-27D Plan #2 (3-30-12) R V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
 7930'MD & 7804'TVD @ 1018'VS
 0.90 deg Inc 317.90 deg AZ

Project: SEC.26-T3N-R65W
 Site: Moser-Dechant Pad Sec.26-T3N-R65W
 Well: Moser H26-27D
 Plan: Wellbore #1



NOBLE ENERGY INC WELD COUNTY CO

SEC.26-T3N-R65W

Moser-Dechant Pad Sec.26-T3N-R65W

Moser H26-27D

Wellbore #1

Survey: Survey #1

Standard Survey Report

10 April, 2012



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Moser H26-27D
Project:	SEC.26-T3N-R65W	TVD Reference:	WELL @ 4870.0ft (Original Well Elev)
Site:	Moser-Dechant Pad Sec.26-T3N-R65W	MD Reference:	WELL @ 4870.0ft (Original Well Elev)
Well:	Moser H26-27D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.26-T3N-R65W, 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	Moser-Dechant Pad Sec.26-T3N-R65W		
Site Position:		Northing:	1,317,412.62 ft
From:	Lat/Long	Easting:	3,244,937.29 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.201370
		Longitude:	-104.623100
		Grid Convergence:	0.57 °

Well	Moser H26-27D		
Well Position	+N/-S	0.0 ft	Northing: 1,317,412.61 ft
	+E/-W	0.0 ft	Easting: 3,244,937.29 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	40.201370
		Longitude:	-104.623100
		Ground Level:	4,857.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/30/2012	8.62	66.90	52,982

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 (°)	
	5,600.0	0.0	0.0	313.36	

Survey Program	Date	4/10/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
108.0	7,930.0	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	
108.0	0.80	325.40	108.0	0.6	-0.4	0.7	0.74	0.74	0.00	
292.0	0.50	308.40	292.0	2.2	-1.8	2.8	0.19	-0.16	-9.24	
476.0	0.30	15.40	476.0	3.1	-2.3	3.8	0.26	-0.11	36.41	
662.0	0.30	300.00	662.0	3.9	-2.6	4.5	0.20	0.00	-40.54	
810.0	0.50	354.80	810.0	4.7	-3.0	5.4	0.28	0.14	37.03	
861.0	1.10	12.90	861.0	5.4	-2.9	5.8	1.26	1.18	35.49	
942.0	2.10	337.40	941.9	7.5	-3.3	7.5	1.68	1.23	-43.83	
1,024.0	4.00	341.10	1,023.8	11.6	-4.8	11.5	2.33	2.32	4.51	
1,106.0	5.00	318.60	1,105.6	17.0	-8.1	17.5	2.45	1.22	-27.44	
1,187.0	6.80	314.20	1,186.1	23.0	-13.8	25.9	2.29	2.22	-5.43	
1,269.0	8.10	307.30	1,267.4	29.9	-21.9	36.5	1.92	1.59	-8.41	
1,351.0	9.50	304.70	1,348.5	37.2	-32.1	48.9	1.77	1.71	-3.17	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Moser H26-27D
Project:	SEC.26-T3N-R65W	TVD Reference:	WELL @ 4870.0ft (Original Well Elev)
Site:	Moser-Dechant Pad Sec.26-T3N-R65W	MD Reference:	WELL @ 4870.0ft (Original Well Elev)
Well:	Moser H26-27D	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)
1,433.0	11.30	309.40	1,429.1	46.2	-43.9	63.6	2.43	2.20	5.73
1,514.0	13.00	311.60	1,508.3	57.3	-56.8	80.6	2.17	2.10	2.72
1,596.0	14.40	312.60	1,588.0	70.3	-71.2	100.0	1.73	1.71	1.22
1,678.0	14.50	311.90	1,667.4	84.0	-86.4	120.5	0.25	0.12	-0.85
1,760.0	13.90	310.30	1,746.9	97.3	-101.5	140.6	0.87	-0.73	-1.95
1,841.0	15.00	310.00	1,825.3	110.3	-117.0	160.8	1.36	1.36	-0.37
1,923.0	15.30	311.30	1,904.5	124.3	-133.2	182.2	0.55	0.37	1.59
2,005.0	14.40	307.50	1,983.7	137.6	-149.4	203.1	1.62	-1.10	-4.63
2,086.0	13.50	310.10	2,062.3	149.8	-164.7	222.6	1.35	-1.11	3.21
2,168.0	14.00	312.40	2,142.0	162.7	-179.3	242.1	0.90	0.61	2.80
2,250.0	14.10	311.40	2,221.5	176.0	-194.1	262.0	0.32	0.12	-1.22
2,332.0	15.30	316.40	2,300.9	190.4	-209.1	282.7	2.13	1.46	6.10
2,413.0	14.00	317.70	2,379.2	205.4	-223.0	303.2	1.66	-1.60	1.60
2,495.0	15.10	315.20	2,458.6	220.3	-237.2	323.8	1.54	1.34	-3.05
2,577.0	14.90	316.60	2,537.8	235.6	-252.0	345.0	0.50	-0.24	1.71
2,658.0	14.70	314.50	2,616.1	250.3	-266.5	365.6	0.71	-0.25	-2.59
2,740.0	15.40	312.40	2,695.3	265.0	-282.0	386.9	1.08	0.85	-2.56
2,822.0	17.30	315.40	2,774.0	281.0	-298.6	410.0	2.53	2.32	3.66
2,904.0	16.60	314.70	2,852.4	297.9	-315.4	433.9	0.89	-0.85	-0.85
2,985.0	16.40	312.40	2,930.1	313.8	-332.1	456.9	0.84	-0.25	-2.84
3,067.0	16.30	308.20	3,008.8	328.7	-349.7	479.9	1.45	-0.12	-5.12
3,149.0	16.20	313.10	3,087.5	343.6	-367.1	502.8	1.68	-0.12	5.98
3,230.0	16.10	312.80	3,165.3	359.0	-383.6	525.4	0.16	-0.12	-0.37
3,312.0	15.70	313.00	3,244.2	374.3	-400.0	547.8	0.49	-0.49	0.24
3,394.0	14.80	313.00	3,323.3	389.0	-415.8	569.4	1.10	-1.10	0.00
3,476.0	14.20	314.20	3,402.7	403.1	-430.7	589.9	0.82	-0.73	1.46
3,557.0	14.70	307.30	3,481.1	416.3	-446.0	610.1	2.21	0.62	-8.52
3,639.0	15.00	308.70	3,560.4	429.2	-462.5	631.0	0.57	0.37	1.71
3,721.0	15.90	313.10	3,639.4	443.5	-479.0	652.8	1.80	1.10	5.37
3,803.0	15.60	315.10	3,718.3	459.0	-495.0	675.1	0.76	-0.37	2.44
3,884.0	15.60	314.40	3,796.3	474.4	-510.5	696.8	0.23	0.00	-0.86
3,966.0	16.40	313.80	3,875.2	490.1	-526.7	719.4	1.00	0.98	-0.73
4,048.0	15.80	313.00	3,954.0	505.7	-543.2	742.2	0.78	-0.73	-0.98
4,129.0	16.10	313.00	4,031.8	520.9	-559.5	764.4	0.37	0.37	0.00
4,211.0	15.60	313.10	4,110.7	536.2	-575.9	786.8	0.61	-0.61	0.12
4,293.0	14.60	313.80	4,189.9	550.9	-591.4	808.2	1.24	-1.22	0.85
4,375.0	15.70	316.10	4,269.0	566.0	-606.5	829.6	1.53	1.34	2.80
4,456.0	15.40	315.20	4,347.1	581.5	-621.7	851.3	0.48	-0.37	-1.11
4,538.0	15.40	314.20	4,426.1	596.9	-637.2	873.1	0.32	0.00	-1.22
4,620.0	16.10	317.00	4,505.0	612.8	-652.8	895.3	1.26	0.85	3.41
4,701.0	15.10	318.20	4,583.1	628.8	-667.5	917.0	1.30	-1.23	1.48
4,783.0	13.50	319.50	4,662.5	644.1	-680.8	937.2	1.99	-1.95	1.59
4,865.0	11.20	317.70	4,742.6	657.3	-692.4	954.6	2.84	-2.80	-2.20
4,947.0	9.10	314.00	4,823.3	667.6	-702.4	969.1	2.68	-2.56	-4.51
5,028.0	7.70	313.80	4,903.5	675.9	-710.9	980.9	1.73	-1.73	-0.25
5,110.0	5.20	325.80	4,984.9	682.7	-717.0	990.0	3.45	-3.05	14.63
5,192.0	4.70	330.20	5,066.6	688.7	-720.7	996.9	0.77	-0.61	5.37
5,273.0	2.70	342.50	5,147.5	693.4	-723.0	1,001.7	2.64	-2.47	15.19
5,355.0	2.10	358.00	5,229.4	696.8	-723.6	1,004.5	1.07	-0.73	18.90
5,437.0	0.80	333.00	5,311.4	698.8	-723.9	1,006.1	1.73	-1.59	-30.49
5,600.0	0.50	329.80	5,474.3	700.4	-724.8	1,007.8	0.19	-0.18	-1.96
5,725.6	0.47	291.83	5,600.0	701.1	-725.5	1,008.8	0.25	-0.03	-30.22
TARGET BHL 100'FNL & 1275'FEL									
5,764.0	0.50	281.00	5,638.3	701.2	-725.8	1,009.1	0.25	0.08	-28.23

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Moser H26-27D
Project:	SEC.26-T3N-R65W	TVD Reference:	WELL @ 4870.0ft (Original Well Elev)
Site:	Moser-Dechant Pad Sec.26-T3N-R65W	MD Reference:	WELL @ 4870.0ft (Original Well Elev)
Well:	Moser H26-27D	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)
5,927.0	0.80	112.90	5,801.3	700.8	-725.5	1,008.7	0.79	0.18	-103.13
6,091.0	0.80	92.90	5,965.3	700.3	-723.3	1,006.7	0.17	0.00	-12.20
6,254.0	0.40	82.90	6,128.3	700.4	-721.6	1,005.5	0.25	-0.25	-6.13
6,418.0	0.40	220.30	6,292.3	700.0	-721.4	1,005.1	0.45	0.00	83.78
6,581.0	0.40	211.10	6,455.3	699.1	-722.1	1,004.9	0.04	0.00	-5.64
6,744.0	0.50	205.20	6,618.3	697.9	-722.6	1,004.6	0.07	0.06	-3.62
6,908.0	0.50	195.50	6,782.3	696.6	-723.1	1,004.0	0.05	0.00	-5.91
6,976.8	0.62	204.07	6,851.1	696.0	-723.4	1,003.8	0.21	0.18	12.46
TARGET CIRCLE 100'FNL & 1275'FEL									
7,071.0	0.80	211.40	6,945.3	694.9	-723.9	1,003.5	0.21	0.19	7.78
7,235.0	0.60	306.50	7,109.3	694.5	-725.2	1,004.1	0.64	-0.12	57.99
7,398.0	2.20	351.80	7,272.2	698.1	-726.3	1,007.4	1.12	0.98	27.79
7,439.0	3.00	354.40	7,313.2	699.9	-726.6	1,008.8	1.97	1.95	6.34
7,480.0	1.80	358.00	7,354.1	701.6	-726.7	1,010.1	2.95	-2.93	8.78
7,521.0	1.80	352.50	7,395.1	702.9	-726.8	1,011.0	0.42	0.00	-13.41
7,562.0	1.10	345.00	7,436.1	703.9	-727.0	1,011.9	1.77	-1.71	-18.29
7,603.0	1.00	340.60	7,477.1	704.7	-727.2	1,012.5	0.31	-0.24	-10.73
7,643.0	0.80	338.80	7,517.1	705.3	-727.4	1,013.1	0.50	-0.50	-4.50
7,684.0	1.10	321.90	7,558.1	705.8	-727.8	1,013.7	0.99	0.73	-41.22
7,725.0	0.90	320.00	7,599.1	706.4	-728.2	1,014.4	0.49	-0.49	-4.63
7,766.0	0.90	321.70	7,640.1	706.9	-728.6	1,015.1	0.07	0.00	4.15
7,807.0	1.10	320.50	7,681.1	707.4	-729.1	1,015.8	0.49	0.49	-2.93
7,848.0	1.10	318.90	7,722.1	708.0	-729.6	1,016.6	0.07	0.00	-3.90
7,872.1	0.95	318.19	7,746.2	708.4	-729.9	1,017.0	0.63	-0.63	-2.96
HARDLINE 100'N OF BHL									
7,880.0	0.90	317.90	7,754.1	708.5	-730.0	1,017.1	0.63	-0.62	-3.62
7,930.0	0.90	317.90	7,804.1	709.0	-730.5	1,017.9	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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