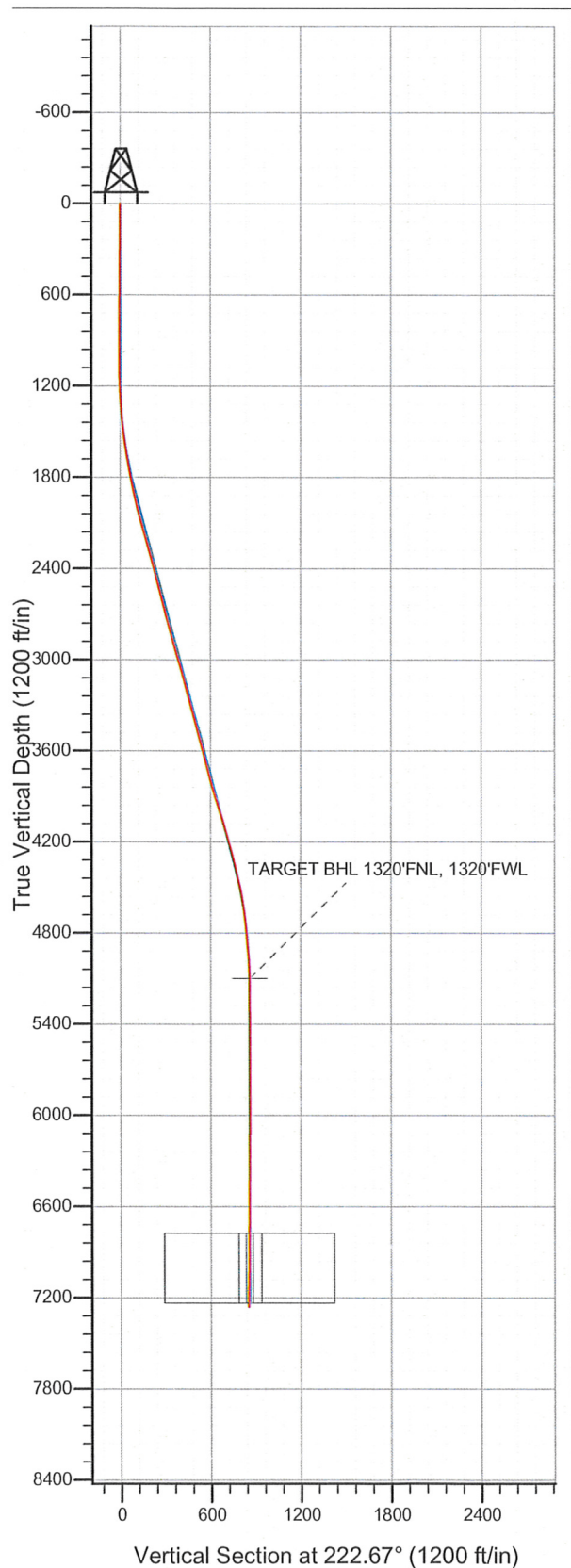
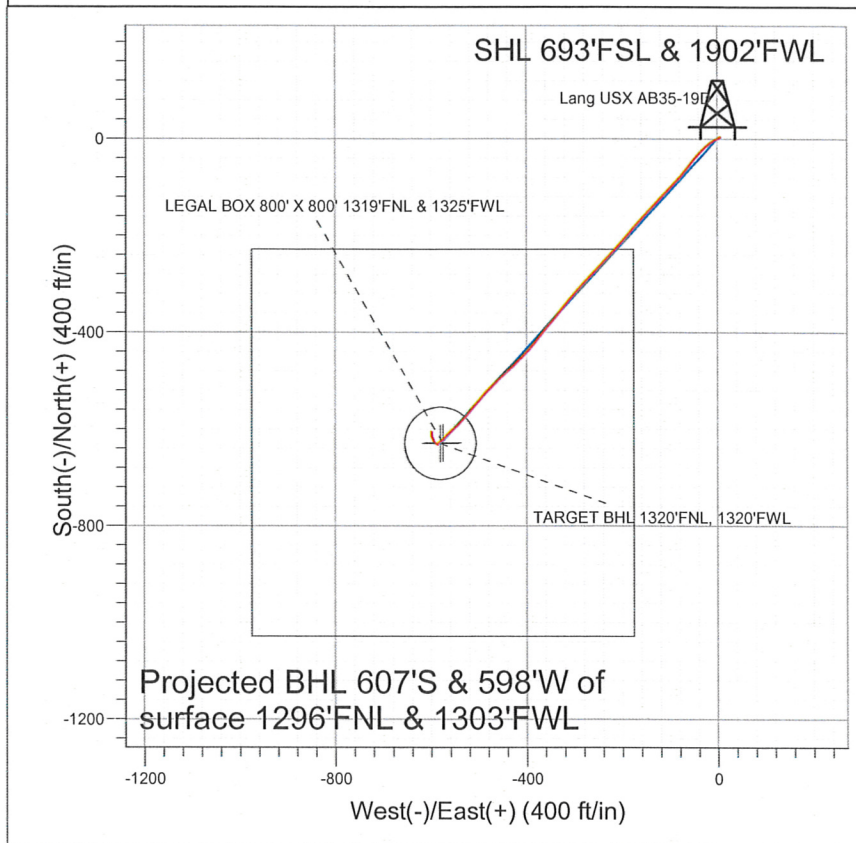


Surface Location: Lang USX AB35-05D Pad Sec.35-T7N-64W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4845.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1439301.34 3272415.49 40.535150 -104.519910
 Original Well Elev WELL @ 4858.0ft (Original Well Elev)



NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- Lang USX AB35-19D, Wellbore #1, Noble Lang USX AB35-19D Plan #2 (11-15-11) V0
- Wellbore #1

Final Survey Plot

Projected Final Survey -
 7368'MD & 7261'TVD @ 851'VS
 0.9 deg Inc 358.1 deg AZ

Project: SEC.35-T7N-R64W
 Site: Lang USX AB35-05D Pad Sec.35-T7N-64W
 Well: Lang USX AB35-19D
 Plan: Wellbore #1



Directional

**NOBLE ENERGY INC WELD
COUNTY CO**

SEC.35-T7N-R64W

Lang USX AB35-05D Pad Sec.35-T7N-64W

Lang USX AB35-19D

Wellbore #1

Design: Wellbore #1

Standard Survey Report

05 December, 2011



Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.35-T7N-R64W
Site: Lang USX AB35-05D Pad Sec.35-T7N-64W
Well: Lang USX AB35-19D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Lang USX AB35-19D
TVD Reference: WELL @ 4858.0ft (Original Well Elev)
MD Reference: WELL @ 4858.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

Project SEC.35-T7N-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 Lang USX AB35-05D Pad Sec.35-T7N-64W

Site Position:	Northing: 1,439,283.36 ft	Latitude: 40.535100
From: Lat/Long	Easting: 3,272,435.14 ft	Longitude: -104.519840
Position Uncertainty: 0.0 ft	Slot Radius: "	Grid Convergence: 0.63 °

Well Lang USX AB35-19D

Well Position	+N/-S 0.0 ft	Northing: 1,439,301.34 ft	Latitude: 40.535150
	+E/-W 0.0 ft	Easting: 3,272,415.49 ft	Longitude: -104.519910
Position Uncertainty 0.0 ft	Wellhead Elevation: ft	Ground Level: 4,845.0 ft	

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/15/2011	8.69	67.19	53,184

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 (°)
	5,100.0	0.0	0.0	222.67

Survey Program Date 12/5/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
914.0	7,368.0	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
914.0	0.90	65.60	914.0	3.0	6.5	-6.6	0.10	0.10	0.00
961.0	0.40	63.70	961.0	3.2	7.0	-7.1	1.06	-1.06	-4.04
1,054.0	0.30	229.60	1,054.0	3.2	7.1	-7.2	0.75	-0.11	178.39
1,148.0	1.80	234.60	1,147.9	2.2	5.7	-5.5	1.60	1.60	5.32
1,241.0	3.10	245.60	1,240.9	0.3	2.3	-1.7	1.48	1.40	11.83
1,334.0	4.50	248.10	1,333.6	-2.1	-3.4	3.9	1.52	1.51	2.69
1,428.0	5.60	240.00	1,427.3	-5.8	-10.8	11.6	1.39	1.17	-8.62
1,522.0	7.60	226.10	1,520.7	-12.4	-19.3	22.2	2.71	2.13	-14.79
1,616.0	8.70	226.10	1,613.7	-21.6	-28.9	35.5	1.17	1.17	0.00
1,709.0	9.80	222.40	1,705.5	-32.4	-39.3	50.4	1.34	1.18	-3.98
1,803.0	10.80	220.30	1,798.0	-45.0	-50.4	67.2	1.14	1.06	-2.23
1,897.0	12.30	218.00	1,890.1	-59.6	-62.2	86.0	1.67	1.60	-2.45

Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.35-T7N-R64W
 Site: Lang USX AB35-05D Pad Sec.35-T7N-64W
 Well: Lang USX AB35-19D
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Lang USX AB35-19D
 TVD Reference: WELL @ 4858.0ft (Original Well Elev)
 MD Reference: WELL @ 4858.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 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)
1,990.0	13.80	219.60	1,980.7	-75.9	-75.4	106.9	1.66	1.61	1.72
2,084.0	15.80	224.00	2,071.6	-93.8	-91.4	130.9	2.44	2.13	4.68
2,177.0	16.00	223.80	2,161.0	-112.1	-109.1	156.4	0.22	0.22	-0.22
2,271.0	15.30	222.30	2,251.5	-130.7	-126.4	181.8	0.86	-0.74	-1.60
2,365.0	15.00	222.60	2,342.2	-148.8	-143.0	206.3	0.33	-0.32	0.32
2,458.0	15.00	222.80	2,432.1	-166.5	-159.3	230.4	0.06	0.00	0.22
2,552.0	15.00	221.70	2,522.9	-184.5	-175.7	254.7	0.30	0.00	-1.17
2,646.0	14.50	218.90	2,613.8	-202.7	-191.2	278.6	0.93	-0.53	-2.98
2,740.0	15.10	222.40	2,704.7	-220.9	-206.8	302.6	1.15	0.64	3.72
2,834.0	15.60	222.10	2,795.3	-239.4	-223.5	327.5	0.54	0.53	-0.32
2,927.0	16.20	223.70	2,884.7	-258.0	-240.9	353.0	0.80	0.65	1.72
3,022.0	15.40	222.80	2,976.2	-276.9	-258.6	378.8	0.88	-0.84	-0.95
3,115.0	15.90	222.60	3,065.7	-295.3	-275.6	403.9	0.54	0.54	-0.22
3,208.0	15.10	221.90	3,155.3	-313.7	-292.3	428.8	0.88	-0.86	-0.75
3,302.0	15.10	221.10	3,246.1	-332.0	-308.6	453.3	0.22	0.00	-0.85
3,395.0	15.30	218.60	3,335.8	-350.7	-324.2	477.6	0.74	0.22	-2.69
3,489.0	15.20	219.30	3,426.5	-370.0	-339.7	502.3	0.22	-0.11	0.74
3,581.0	14.40	219.10	3,515.5	-388.2	-354.6	525.7	0.87	-0.87	-0.22
3,675.0	13.90	217.20	3,606.6	-406.2	-368.8	548.6	0.73	-0.53	-2.02
3,768.0	15.20	221.00	3,696.6	-424.3	-383.5	572.0	1.73	1.40	4.09
3,862.0	15.70	223.80	3,787.2	-442.8	-400.4	597.0	0.96	0.53	2.98
3,955.0	16.70	225.30	3,876.5	-461.3	-418.6	622.9	1.17	1.08	1.61
4,048.0	18.40	227.20	3,965.2	-480.7	-438.9	650.9	1.93	1.83	2.04
4,142.0	16.40	225.30	4,054.9	-500.1	-459.2	678.9	2.21	-2.13	-2.02
4,235.0	16.10	224.90	4,144.2	-518.5	-477.6	704.9	0.34	-0.32	-0.43
4,329.0	15.00	220.70	4,234.7	-536.9	-494.8	730.1	1.67	-1.17	-4.47
4,422.0	15.10	220.50	4,324.6	-555.3	-510.5	754.3	0.12	0.11	-0.22
4,515.0	13.90	220.50	4,414.6	-573.0	-525.6	777.5	1.29	-1.29	0.00
4,610.0	11.80	225.60	4,507.2	-588.4	-540.0	798.6	2.51	-2.21	5.37
4,704.0	8.90	226.80	4,599.7	-600.1	-552.1	815.5	3.09	-3.09	1.28
4,799.0	6.90	229.30	4,693.8	-608.9	-561.8	828.5	2.14	-2.11	2.63
4,892.0	6.30	221.60	4,786.2	-616.4	-569.4	839.1	1.15	-0.65	-8.28
4,986.0	4.60	226.50	4,879.7	-622.8	-575.6	848.1	1.87	-1.81	5.21
5,079.0	3.30	237.60	4,972.5	-626.8	-580.6	854.4	1.62	-1.40	11.94
5,173.0	1.80	217.70	5,066.4	-629.4	-583.8	858.5	1.83	-1.60	-21.17
5,206.6	1.55	215.02	5,100.0	-630.2	-584.3	859.4	0.79	-0.76	-7.99
TARGET BHL 1320'FNL, 1320'FWL									
5,267.0	1.10	207.10	5,160.4	-631.4	-585.1	860.8	0.79	-0.74	-13.10
5,362.0	0.60	334.80	5,255.4	-631.8	-585.7	861.5	1.62	-0.53	134.42
5,456.0	0.70	299.80	5,349.4	-631.0	-586.4	861.4	0.43	0.11	-37.23
5,549.0	0.60	298.90	5,442.4	-630.5	-587.3	861.7	0.11	-0.11	-0.97
5,643.0	0.70	286.80	5,536.4	-630.1	-588.3	862.0	0.18	0.11	-12.87
5,738.0	0.80	294.90	5,631.3	-629.7	-589.5	862.5	0.15	0.11	8.53
5,832.0	1.10	320.50	5,725.3	-628.7	-590.6	862.6	0.55	0.32	27.23
5,925.0	1.10	319.50	5,818.3	-627.3	-591.8	862.3	0.02	0.00	-1.08
6,019.0	0.90	329.30	5,912.3	-626.0	-592.7	862.0	0.28	-0.21	10.43
6,114.0	0.80	345.50	6,007.3	-624.7	-593.3	861.4	0.27	-0.11	17.05
6,208.0	0.70	0.80	6,101.3	-623.5	-593.4	860.7	0.24	-0.11	16.28
6,302.0	0.80	336.50	6,195.3	-622.3	-593.7	860.0	0.35	0.11	-25.85
6,395.0	0.50	334.40	6,288.3	-621.4	-594.1	859.6	0.32	-0.32	-2.26
6,488.0	0.90	334.40	6,381.3	-620.3	-594.6	859.1	0.43	0.43	0.00
6,581.0	1.10	323.20	6,474.3	-619.0	-595.5	858.7	0.30	0.22	-12.04
6,675.0	1.00	341.40	6,568.2	-617.5	-596.3	858.1	0.37	-0.11	19.36
6,769.0	0.90	348.10	6,662.2	-616.0	-596.7	857.3	0.16	-0.11	7.13

Company: NOBLE ENERGY INC WELD COUNTY CO
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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)
6,863.0	1.00	337.00	6,756.2	-614.5	-597.2	856.6	0.22	0.11	-11.81
6,884.4	1.00	339.18	6,777.6	-614.1	-597.3	856.4	0.18	-0.01	10.19
LEGAL BOX 800' X 800' 1319'FNL & 1325'FWL - TARGET CIRCLE 1320'FNL & 1320'FWL									
6,956.0	1.00	346.50	6,849.2	-613.0	-597.7	855.8	0.18	0.00	10.22
7,049.0	0.80	350.20	6,942.2	-611.5	-598.0	854.9	0.22	-0.22	3.98
7,143.0	0.90	6.40	7,036.2	-610.1	-598.0	853.9	0.28	0.11	17.23
7,237.0	0.90	9.00	7,130.2	-608.7	-597.8	852.7	0.04	0.00	2.77
7,316.0	0.90	358.10	7,209.2	-607.5	-597.7	851.8	0.22	0.00	-13.80
7,368.0	0.90	358.10	7,261.1	-606.6	-597.8	851.2	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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