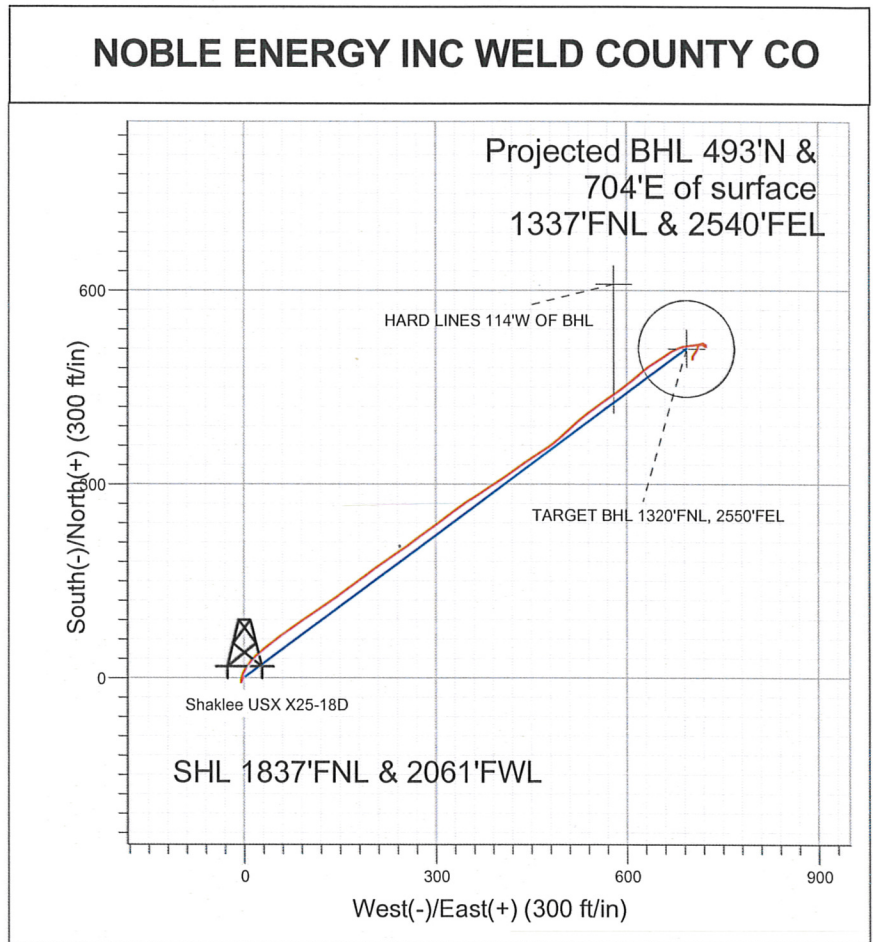
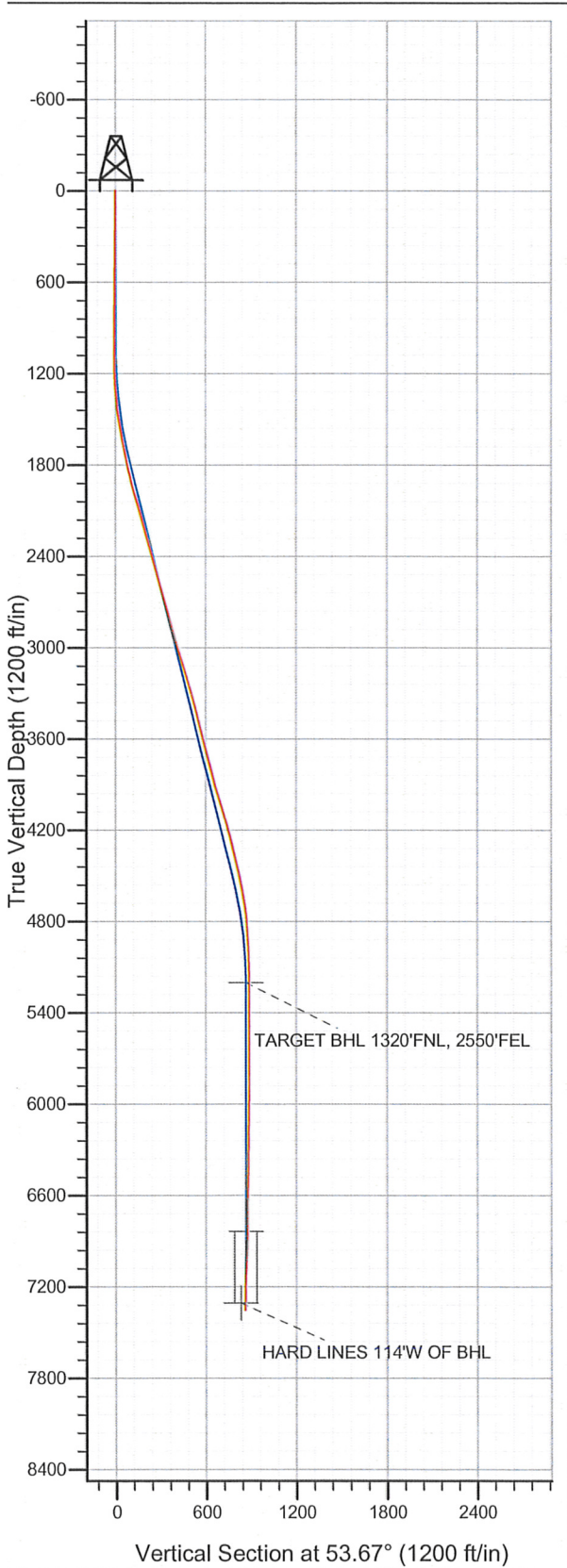


Surface Location: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4903.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1284773.50 3247710.31 40.111700 -104.614340
 Original Well Elev WELL @ 4916.0ft (Original Well Elev)



LEGEND

- Shaklee USX X25-18D, Wellbore #1, Noble Shaklee USX X25-18D Plan #3 (10-03-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7468'MD & 7354'TVD @ 859'VS
 1.3 deg Inc 160.3 deg AZ

Project: SEC.25-T2N-R65W
 Site: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
 Well: Shaklee USX X25-18D
 Plan: Wellbore #1



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.25-T2N-R65W

Shaklee USX X25-02D Pad Sec.25-T2N-R65W

Shaklee USX X25-18D

Wellbore #1

Survey: Survey #1

Standard Survey Report

14 November, 2011



Company: NOBLE ENERGY INC WELD COUNTY CO
Project: SEC.25-T2N-R65W
Site: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
Well: Shaklee USX X25-18D
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Shaklee USX X25-18D
TVD Reference: WELL @ 4916.0ft (Original Well Elev)
MD Reference: WELL @ 4916.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Landmark

Project	SEC.25-T2N-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 Shaklee USX X25-02D Pad Sec.25-T2N-R65W

Site Position: Northing: 1,284,773.06 ft Latitude: 40.111700
From: Lat/Long Easting: 3,247,665.57 ft Longitude: -104.614500
Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: 0.57 °

Well	Shaklee USX X25-18D				
Well Position	+N/-S	0.0 ft	Northing:	1,284,773.50 ft	Latitude: 40.111700
	+E/-W	0.0 ft	Easting:	3,247,710.31 ft	Longitude: -104.614340
Position Uncertainty	0.0 ft		Wellhead Elevation:	ft	Ground Level: 4,903.0 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/4/2011	8.72	66.83	52,963

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	53.67

Survey Program Date 11/14/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
259.0	7,468.0	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
259.0	0.70	223.90	259.0	-1.1	-1.1	-1.6	0.27	0.27	0.00
505.0	0.40	192.10	505.0	-3.1	-2.3	-3.7	0.17	-0.12	-12.93
751.0	0.40	202.70	751.0	-4.7	-2.8	-5.1	0.03	0.00	4.31
965.0	0.60	203.90	965.0	-6.4	-3.6	-6.7	0.09	0.09	0.56
1,027.0	0.60	183.20	1,027.0	-7.0	-3.7	-7.2	0.35	0.00	-33.39
1,108.0	0.90	10.20	1,108.0	-6.8	-3.6	-7.0	1.85	0.37	-213.58
1,190.0	2.60	3.50	1,189.9	-4.3	-3.4	-5.3	2.08	2.07	-8.17
1,272.0	4.20	13.70	1,271.8	0.4	-2.6	-1.8	2.08	1.95	12.44
1,354.0	5.90	22.70	1,353.5	7.2	-0.2	4.1	2.28	2.07	10.98
1,435.0	7.20	31.30	1,433.9	15.4	4.0	12.4	2.01	1.60	10.62
1,517.0	8.80	40.20	1,515.1	24.6	10.7	23.2	2.46	1.95	10.85
1,599.0	10.60	46.40	1,596.0	34.6	20.2	36.8	2.53	2.20	7.56

Company: NOBLE ENERGY INC WELD COUNTY CO
 Project: SEC.25-T2N-R65W
 Site: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
 Well: Shaklee USX X25-18D
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Shaklee USX X25-18D
 TVD Reference: WELL @ 4916.0ft (Original Well Elev)
 MD Reference: WELL @ 4916.0ft (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)	
1,680.0	11.30	52.90	1,675.5	44.5	32.0	52.1	1.75	0.86	8.02	
1,762.0	12.70	50.80	1,755.7	55.1	45.3	69.2	1.79	1.71	-2.56	
1,844.0	13.80	54.50	1,835.5	66.4	60.3	87.9	1.69	1.34	4.51	
1,926.0	14.90	55.40	1,914.9	78.1	76.9	108.3	1.37	1.34	1.10	
2,007.0	15.60	55.40	1,993.1	90.2	94.5	129.6	0.86	0.86	0.00	
2,089.0	15.70	56.10	2,072.1	102.7	112.8	151.7	0.26	0.12	0.85	
2,171.0	15.80	55.70	2,151.0	115.1	131.2	173.9	0.18	0.12	-0.49	
2,253.0	15.40	55.50	2,230.0	127.6	149.4	195.9	0.49	-0.49	-0.24	
2,334.0	15.40	53.40	2,308.0	140.1	166.9	217.4	0.69	0.00	-2.59	
2,416.0	15.70	52.40	2,387.0	153.4	184.4	239.4	0.49	0.37	-1.22	
2,498.0	16.50	53.40	2,465.8	167.1	202.6	262.2	1.03	0.98	1.22	
2,579.0	16.10	56.40	2,543.6	180.1	221.1	284.9	1.15	-0.49	3.70	
2,661.0	15.40	55.90	2,622.5	192.5	239.6	307.1	0.87	-0.85	-0.61	
2,743.0	14.90	54.30	2,701.6	204.8	257.2	328.5	0.79	-0.61	-1.95	
2,825.0	14.90	54.10	2,780.9	217.1	274.3	349.6	0.06	0.00	-0.24	
2,906.0	15.80	54.00	2,859.0	229.7	291.7	371.1	1.11	1.11	-0.12	
2,988.0	17.20	52.50	2,937.6	243.7	310.3	394.4	1.78	1.71	-1.83	
3,070.0	17.00	54.80	3,016.0	258.0	329.7	418.5	0.86	-0.24	2.80	
3,151.0	17.30	56.20	3,093.4	271.5	349.4	442.3	0.63	0.37	1.73	
3,233.0	16.70	57.60	3,171.8	284.6	369.5	466.3	0.89	-0.73	1.71	
3,315.0	16.50	57.10	3,250.4	297.2	389.2	489.6	0.30	-0.24	-0.61	
3,397.0	16.10	55.50	3,329.1	310.0	408.4	512.6	0.73	-0.49	-1.95	
3,478.0	15.20	54.80	3,407.1	322.5	426.3	534.5	1.14	-1.11	-0.86	
3,560.0	13.90	54.50	3,486.5	334.4	443.1	555.1	1.59	-1.59	-0.37	
3,642.0	13.70	58.40	3,566.1	345.2	459.4	574.6	1.16	-0.24	4.76	
3,723.0	15.00	56.40	3,644.6	356.0	476.3	594.6	1.72	1.60	-2.47	
3,805.0	14.00	50.40	3,724.0	368.2	492.8	615.1	2.20	-1.22	-7.32	
3,887.0	13.80	46.20	3,803.6	381.3	507.5	634.7	1.25	-0.24	-5.12	
3,969.0	14.40	48.00	3,883.1	394.9	522.1	654.6	0.91	0.73	2.20	
4,050.0	16.70	52.90	3,961.1	408.7	538.9	676.2	3.27	2.84	6.05	
4,132.0	18.70	55.20	4,039.2	423.3	559.1	701.2	2.58	2.44	2.80	
4,214.0	17.60	54.70	4,117.2	437.9	580.0	726.7	1.35	-1.34	-0.61	
4,296.0	15.10	53.10	4,195.8	451.5	598.7	749.8	3.10	-3.05	-1.95	
4,377.0	13.90	49.60	4,274.3	464.2	614.5	770.0	1.83	-1.48	-4.32	
4,459.0	13.70	50.80	4,353.9	476.7	629.5	789.6	0.43	-0.24	1.46	
4,541.0	12.40	57.10	4,433.8	487.6	644.4	808.0	2.35	-1.59	7.68	
4,622.0	11.00	57.50	4,513.1	496.5	658.3	824.4	1.73	-1.73	0.49	
4,704.0	10.80	57.30	4,593.6	504.8	671.3	839.9	0.25	-0.24	-0.24	
4,786.0	10.10	72.40	4,674.3	511.1	684.6	854.4	3.44	-0.85	18.41	
4,868.0	7.20	82.80	4,755.3	514.0	696.6	865.7	4.00	-3.54	12.68	
4,949.0	5.20	84.00	4,835.9	515.0	705.3	873.3	2.47	-2.47	1.48	
5,031.0	3.60	79.60	4,917.6	515.8	711.5	878.8	1.99	-1.95	-5.37	
5,113.0	2.10	75.20	4,999.5	516.7	715.5	882.5	1.85	-1.83	-5.37	
5,194.0	1.90	73.10	5,080.5	517.5	718.2	885.2	0.26	-0.25	-2.59	
5,276.0	1.10	100.70	5,162.4	517.7	720.3	887.0	1.29	-0.98	33.66	
5,313.2	1.07	104.52	5,199.6	517.6	721.0	887.5	0.21	-0.09	10.28	
TARGET BHL 1320'FNL, 2550'FEL										
5,440.0	1.00	119.00	5,326.4	516.7	723.1	888.7	0.21	-0.05	11.42	
5,603.0	0.80	161.70	5,489.4	515.0	724.7	888.9	0.42	-0.12	26.20	
5,766.0	0.60	157.30	5,652.4	513.1	725.4	888.4	0.13	-0.12	-2.70	
5,930.0	0.70	298.00	5,816.4	512.8	724.8	887.7	0.75	0.06	85.79	
6,093.0	1.00	305.00	5,979.3	514.0	722.8	886.8	0.19	0.18	4.29	
6,257.0	1.30	289.50	6,143.3	515.5	719.9	885.3	0.26	0.18	-9.45	
6,420.0	1.10	264.40	6,306.3	516.0	716.6	882.9	0.34	-0.12	-15.40	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Shaklee USX X25-18D
Project:	SEC.25-T2N-R65W	TVD Reference:	WELL @ 4916.0ft (Original Well Elev)
Site:	Shaklee USX X25-02D Pad Sec.25-T2N-R65W	MD Reference:	WELL @ 4916.0ft (Original Well Elev)
Well:	Shaklee USX X25-18D	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)
6,584.0	1.10	222.70	6,470.3	514.6	713.9	880.0	0.48	0.00	-25.43
6,747.0	0.90	203.70	6,633.2	512.3	712.4	877.4	0.24	-0.12	-11.66
6,911.0	0.50	160.00	6,797.2	510.5	712.1	876.1	0.39	-0.24	-26.65
6,947.0	0.84	191.83	6,833.2	510.1	712.1	875.8	1.37	0.95	88.47
TARGET CIRCLE 1320'FNL & 2550'FEL									
7,074.0	2.50	213.70	6,960.2	506.8	710.3	872.5	1.37	1.30	17.22
7,237.0	3.10	215.50	7,123.0	500.3	705.8	865.0	0.37	0.37	1.10
7,416.9	1.30	161.01	7,302.7	494.4	703.7	859.8	1.43	-1.00	-30.30
HARD LINES 114'W OF BHL									
7,418.0	1.30	160.30	7,303.8	494.4	703.7	859.8	1.43	-0.27	-61.84
7,468.0	1.30	160.30	7,353.8	493.3	704.0	859.4	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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