

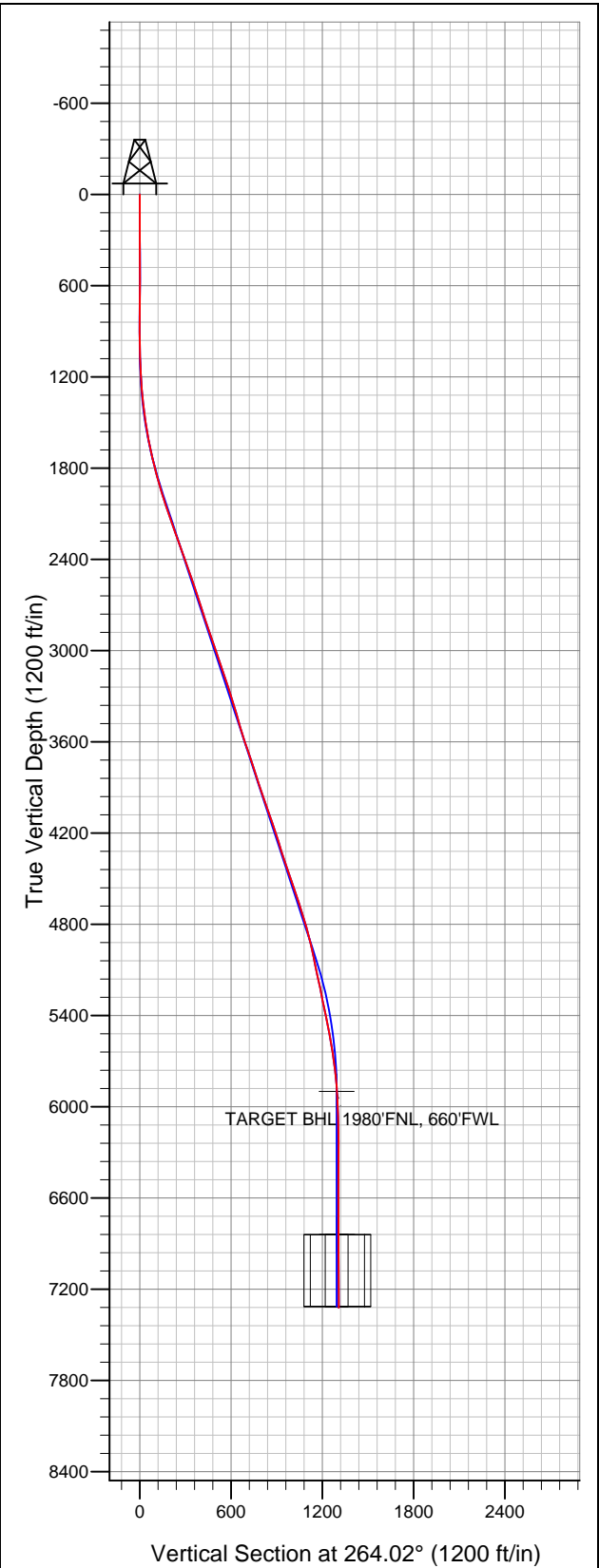


Well Name: Shaklee USX X25-05D

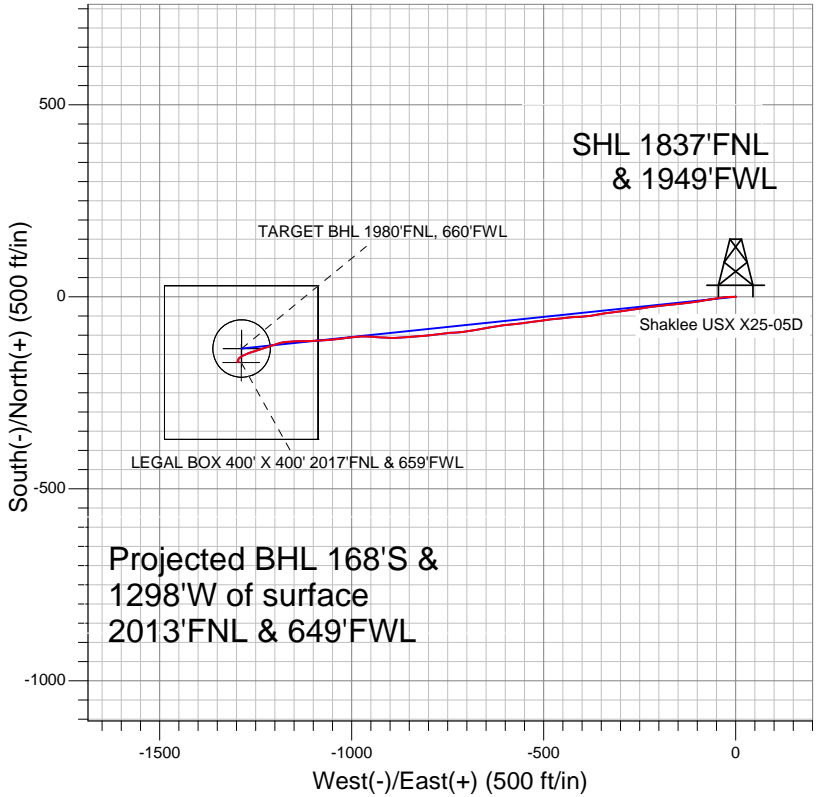
Surface Location: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
 North American Datum 1983 US State Plane 1983Colorado Northern Zone
 Ground Elevation: 4904.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1284772.38	3247598.44	40.111700	-104.614740	

Original Well EleWELL @ 4917.0ft (Original Well Elev)



NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- + Shaklee USX X25-05D, Wellbore #1, Noble Shaklee USX X25-05D Plan #3 (10-03-11) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 7513'MD & 7323'TVD @ 1308' VS
 0.6 deg Inc 312.1 deg AZ

Project: SEC.25-T2N-R65W
 Site: Shaklee USX X25-02D Pad Sec.25-T2N-R65W
 Well: Shaklee USX X25-05D
 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 X25-05D

Wellbore #1

Survey: Survey #1

Standard Survey Report

10 October, 2011



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Shaklee USX X25-05D
Project:	SEC.25-T2N-R65W	TVD Reference:	WELL @ 4917.0ft (Original Well Elev)
Site:	Shaklee USX X25-02D Pad Sec.25-T2N-R65W	MD Reference:	WELL @ 4917.0ft (Original Well Elev)
Well:	Shaklee USX X25-05D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	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:	1,284,773.06ft	Latitude:	40.111700
From:	Lat/Long	Easting:	3,247,665.57ft	Longitude:	-104.614500
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.57 °

Well	Shaklee USX X25-05D					
Well Position	+N/-S	0.0 ft	Northing:	1,284,772.38 ft	Latitude:	40.111700
	+E/-W	0.0 ft	Easting:	3,247,598.44 ft	Longitude:	-104.614740
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,904.0 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 (°)	
	5,900.0	0.0	0.0	264.02	

Survey Program	Date	10/10/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
76.0	7,513.0	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	0.00
76.0	0.10	27.50	76.0	0.1	0.0	0.0	0.13	0.13	0.00	0.00
165.0	0.10	108.00	165.0	0.1	0.1	-0.2	0.15	0.00	90.45	
259.0	0.10	261.80	259.0	0.1	0.1	-0.1	0.21	0.00	163.62	
352.0	0.10	269.90	352.0	0.1	0.0	0.0	0.02	0.00	8.71	
444.0	0.10	215.40	444.0	0.0	-0.2	0.2	0.10	0.00	-59.24	
536.0	0.10	77.10	536.0	-0.1	-0.1	0.1	0.20	0.00	-150.33	
628.0	0.20	73.90	628.0	0.0	0.1	-0.1	0.11	0.11	-3.48	
721.0	0.10	91.00	721.0	0.0	0.4	-0.4	0.12	-0.11	18.39	
823.0	0.10	35.60	823.0	0.1	0.5	-0.5	0.09	0.00	-54.31	
937.0	0.30	298.90	937.0	0.3	0.3	-0.3	0.29	0.18	-84.82	
988.0	0.30	310.70	988.0	0.5	0.1	-0.1	0.12	0.00	23.14	
1,069.0	1.30	244.80	1,069.0	0.2	-0.9	0.9	1.49	1.23	-81.36	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Shaklee USX X25-05D
Project:	SEC.25-T2N-R65W	TVD Reference:	WELL @ 4917.0ft (Original Well Elev)
Site:	Shaklee USX X25-02D Pad Sec.25-T2N-R65W	MD Reference:	WELL @ 4917.0ft (Original Well Elev)
Well:	Shaklee USX X25-05D	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)		
1,151.0	3.00	266.10	1,150.9	-0.3	-3.9	3.9	2.26	2.07	25.98		
1,233.0	3.90	274.00	1,232.8	-0.3	-8.8	8.8	1.24	1.10	9.63		
1,314.0	5.40	266.10	1,313.5	-0.3	-15.4	15.3	2.01	1.85	-9.75		
1,396.0	6.90	263.60	1,395.0	-1.1	-24.1	24.1	1.86	1.83	-3.05		
1,478.0	8.10	265.70	1,476.3	-2.1	-34.8	34.8	1.50	1.46	2.56		
1,560.0	9.40	258.70	1,557.4	-3.9	-47.1	47.3	2.05	1.59	-8.54		
1,641.0	11.20	260.80	1,637.1	-6.4	-61.4	61.7	2.27	2.22	2.59		
1,723.0	12.70	261.00	1,717.3	-9.1	-78.1	78.6	1.83	1.83	0.24		
1,805.0	14.20	260.40	1,797.0	-12.2	-96.9	97.7	1.84	1.83	-0.73		
1,886.0	16.00	263.80	1,875.2	-15.0	-117.8	118.8	2.48	2.22	4.20		
1,968.0	16.50	263.10	1,954.0	-17.7	-140.6	141.7	0.65	0.61	-0.85		
2,050.0	18.90	264.30	2,032.1	-20.4	-165.4	166.6	2.96	2.93	1.46		
2,132.0	18.80	264.50	2,109.7	-23.0	-191.8	193.1	0.15	-0.12	0.24		
2,213.0	19.30	262.90	2,186.2	-25.9	-218.1	219.6	0.89	0.62	-1.98		
2,295.0	19.10	260.40	2,263.7	-29.8	-244.7	246.5	1.03	-0.24	-3.05		
2,377.0	19.80	261.70	2,341.0	-34.0	-271.7	273.8	1.00	0.85	1.59		
2,459.0	20.00	262.50	2,418.1	-37.9	-299.4	301.7	0.41	0.24	0.98		
2,540.0	19.60	263.30	2,494.3	-41.3	-326.6	329.1	0.60	-0.49	0.99		
2,622.0	18.20	259.60	2,571.9	-45.2	-352.8	355.6	2.25	-1.71	-4.51		
2,704.0	18.10	261.50	2,649.8	-49.4	-378.0	381.1	0.73	-0.12	2.32		
2,785.0	18.00	267.80	2,726.8	-51.7	-403.0	406.2	2.41	-0.12	7.78		
2,867.0	18.60	263.80	2,804.7	-53.6	-428.6	431.9	1.70	0.73	-4.88		
2,949.0	18.80	264.50	2,882.4	-56.3	-454.8	458.2	0.37	0.24	0.85		
3,031.0	19.10	263.10	2,959.9	-59.2	-481.3	484.8	0.66	0.37	-1.71		
3,112.0	19.20	262.50	3,036.4	-62.5	-507.6	511.4	0.27	0.12	-0.74		
3,194.0	19.30	262.00	3,113.9	-66.1	-534.4	538.4	0.24	0.12	-0.61		
3,276.0	18.00	262.70	3,191.6	-69.6	-560.4	564.6	1.61	-1.59	0.85		
3,357.0	17.80	266.10	3,268.6	-72.1	-585.2	589.5	1.31	-0.25	4.20		
3,439.0	16.50	260.40	3,347.0	-74.9	-609.2	613.6	2.59	-1.59	-6.95		
3,521.0	16.20	261.10	3,425.7	-78.6	-631.9	636.7	0.44	-0.37	0.85		
3,603.0	16.70	259.20	3,504.3	-82.6	-654.8	659.9	0.90	0.61	-2.32		
3,684.0	17.80	261.30	3,581.7	-86.6	-678.5	683.8	1.56	1.36	2.59		
3,766.0	19.20	261.00	3,659.4	-90.6	-704.2	709.8	1.71	1.71	-0.37		
3,848.0	18.60	267.50	3,737.0	-93.3	-730.6	736.3	2.67	-0.73	7.93		
3,929.0	18.00	263.80	3,813.9	-95.2	-755.9	761.7	1.61	-0.74	-4.57		
4,011.0	18.70	262.00	3,891.8	-98.4	-781.5	787.5	1.10	0.85	-2.20		
4,093.0	17.50	265.40	3,969.7	-101.2	-806.9	813.0	1.95	-1.46	4.15		
4,175.0	19.90	264.50	4,047.4	-103.5	-833.0	839.3	2.95	2.93	-1.10		
4,256.0	19.90	266.60	4,123.5	-105.7	-860.5	866.8	0.88	0.00	2.59		
4,338.0	18.30	269.20	4,201.0	-106.7	-887.3	893.6	2.21	-1.95	3.17		
4,420.0	17.00	271.50	4,279.2	-106.6	-912.2	918.3	1.80	-1.59	2.80		
4,502.0	18.20	275.90	4,357.3	-104.9	-936.9	942.7	2.18	1.46	5.37		
4,583.0	18.70	270.60	4,434.2	-103.5	-962.5	968.0	2.16	0.62	-6.54		
4,665.0	19.50	265.20	4,511.7	-104.5	-989.3	994.8	2.36	0.98	-6.59		
4,747.0	18.60	263.10	4,589.2	-107.2	-1,015.9	1,021.5	1.38	-1.10	-2.56		
4,828.0	18.60	262.70	4,665.9	-110.4	-1,041.5	1,047.4	0.16	0.00	-0.49		
4,910.0	17.60	265.40	4,743.9	-113.1	-1,066.8	1,072.8	1.59	-1.22	3.29		
4,992.0	15.20	267.80	4,822.5	-114.5	-1,089.9	1,095.9	3.04	-2.93	2.93		
5,074.0	13.00	269.60	4,902.1	-115.0	-1,109.9	1,115.9	2.74	-2.68	2.20		
5,155.0	12.50	267.40	4,981.1	-115.4	-1,127.8	1,133.7	0.86	-0.62	-2.72		
5,237.0	11.70	268.00	5,061.2	-116.1	-1,145.0	1,150.8	0.99	-0.98	0.73		
5,319.0	12.30	267.10	5,141.4	-116.8	-1,162.0	1,167.8	0.77	0.73	-1.10		
5,400.0	12.10	259.60	5,220.6	-118.8	-1,179.0	1,184.9	1.97	-0.25	-9.26		
5,482.0	11.50	252.00	5,300.9	-122.9	-1,195.2	1,201.5	2.03	-0.73	-9.27		

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Shaklee USX X25-05D
Project:	SEC.25-T2N-R65W	TVD Reference:	WELL @ 4917.0ft (Original Well Elev)
Site:	Shaklee USX X25-02D Pad Sec.25-T2N-R65W	MD Reference:	WELL @ 4917.0ft (Original Well Elev)
Well:	Shaklee USX X25-05D	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)	
5,564.0	12.60	250.80	5,381.1	-128.4	-1,211.4	1,218.2	1.38	1.34	-1.46	
5,646.0	10.60	252.40	5,461.4	-133.6	-1,227.0	1,234.3	2.47	-2.44	1.95	
5,727.0	10.80	252.50	5,541.0	-138.1	-1,241.4	1,249.0	0.25	0.25	0.12	
5,809.0	9.80	253.20	5,621.7	-142.4	-1,255.4	1,263.4	1.23	-1.22	0.85	
5,891.0	7.80	249.00	5,702.7	-146.4	-1,267.3	1,275.6	2.56	-2.44	-5.12	
5,972.0	6.60	246.40	5,783.1	-150.3	-1,276.7	1,285.4	1.53	-1.48	-3.21	
6,054.0	5.10	239.90	5,864.6	-154.0	-1,284.1	1,293.2	2.00	-1.83	-7.93	
6,088.7	4.42	240.37	5,899.2	-155.4	-1,286.6	1,295.8	1.96	-1.95	1.35	
TARGET BHL 1980'FNL, 660'FWL										
6,136.0	3.50	241.30	5,946.4	-157.0	-1,289.5	1,298.8	1.96	-1.95	1.97	
6,218.0	2.20	225.50	6,028.3	-159.3	-1,292.8	1,302.4	1.84	-1.59	-19.27	
6,299.0	1.50	207.70	6,109.3	-161.4	-1,294.4	1,304.2	1.11	-0.86	-21.98	
6,381.0	1.10	203.00	6,191.2	-163.0	-1,295.2	1,305.2	0.50	-0.49	-5.73	
6,463.0	1.10	182.60	6,273.2	-164.5	-1,295.6	1,305.6	0.48	0.00	-24.88	
6,545.0	1.10	172.20	6,355.2	-166.1	-1,295.5	1,305.7	0.24	0.00	-12.68	
6,626.0	1.40	170.60	6,436.2	-167.9	-1,295.2	1,305.7	0.37	0.37	-1.98	
6,708.0	0.10	71.80	6,518.2	-168.8	-1,295.0	1,305.5	1.73	-1.59	-120.49	
6,790.0	0.30	187.30	6,600.2	-169.0	-1,294.9	1,305.5	0.43	0.24	140.85	
6,953.0	0.40	173.40	6,763.2	-170.0	-1,294.9	1,305.6	0.08	0.06	-8.53	
7,031.6	0.24	165.10	6,841.8	-170.4	-1,294.9	1,305.6	0.21	-0.20	-10.55	
TARGET CIRCLE 1980'FNL & 660'FWL										
7,031.8	0.24	165.07	6,842.0	-170.4	-1,294.9	1,305.6	0.21	-0.19	-17.31	
LEGAL BOX 400' X 400' 2017'FNL & 659'FWL										
7,117.0	0.10	126.30	6,927.2	-170.7	-1,294.8	1,305.5	0.21	-0.17	-45.52	
7,278.0	0.80	311.10	7,088.2	-170.0	-1,295.5	1,306.1	0.56	0.43	-108.82	
7,463.0	0.60	312.10	7,273.2	-168.5	-1,297.2	1,307.7	0.11	-0.11	0.54	
7,513.0	0.60	312.10	7,323.2	-168.2	-1,297.6	1,308.0	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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