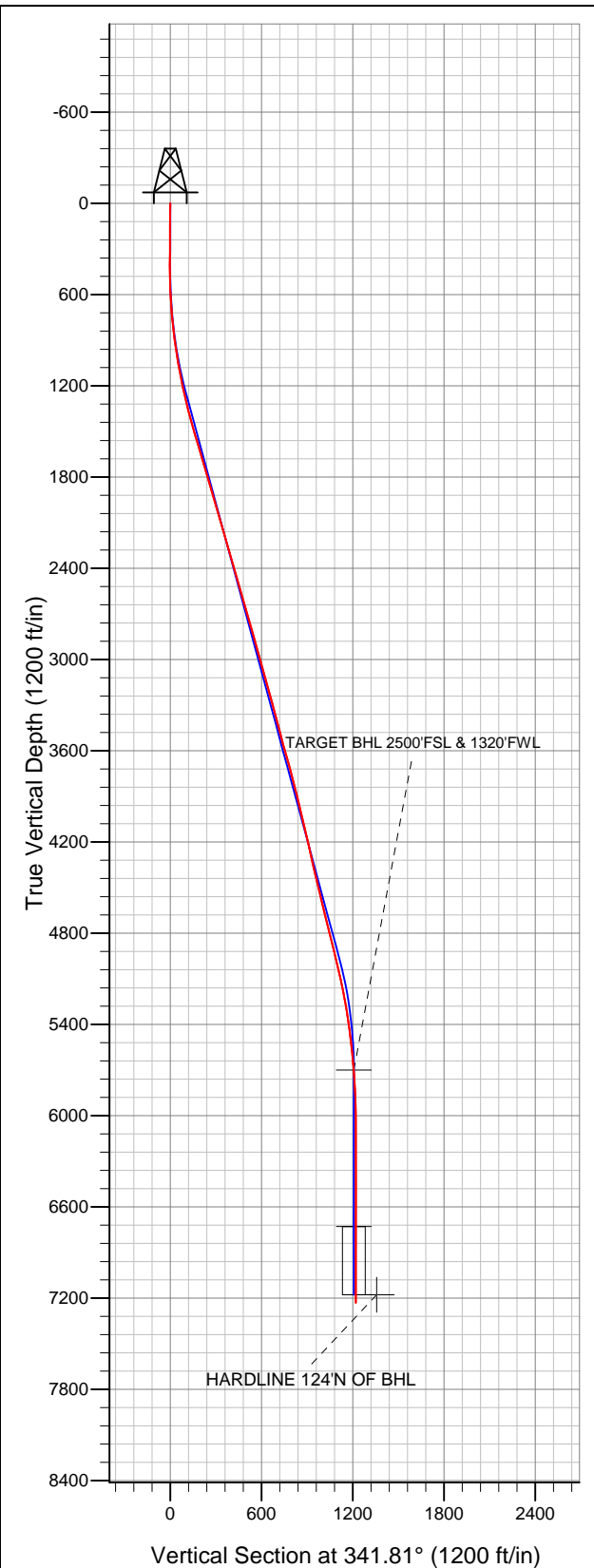


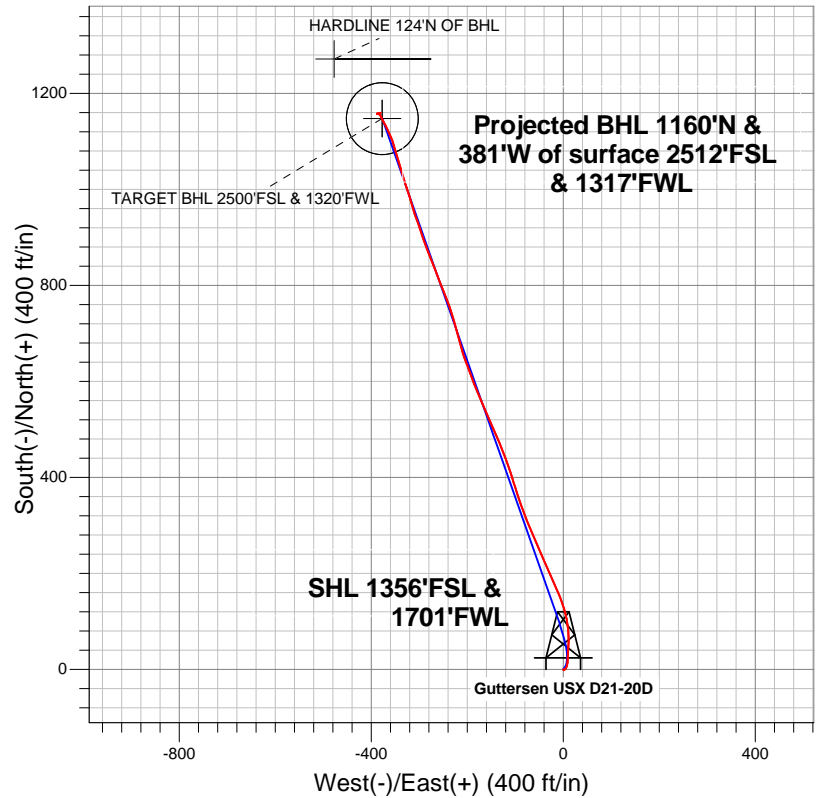
Well Name: Gutteresen USX D21-20D

Surface Location: Gutteresen USX D21-32D Pad Sec.21-T3N-R64W
North American Datum 1983 US State Plane 1983Colorado Northern Zone
Ground Elevation: 4820.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1319801.76	3262647.38	40.207430	-104.559610	
Original Well Elev			WELL @ 4833.0ft (Original Well Elev)			



NOBLE ENERGY INC WELD COUNTY CO



- LEGEND**
- Wellbore #1
 - Gutteresen USX D21-20D, Wellbore #1, Noble Gutteresen USX D21-20D Plan #1 (11-1-11) V0
 - Survey #1

Final Survey Plot

Projected Final Survey -
7382'MD & 7230'TVD @ 1221'VS
1.10 deg Inc 73.20 deg AZ

Project: SEC.21-T3N-R64W
Site: Gutteresen USX D21-32D Pad Sec.21-T3N-R64W
Well: Gutteresen USX D21-20D
Plan: Wellbore #1



NOBLE ENERGY INC WELD COUNTY CO

SEC.21-T3N-R64W

Guttersen USX D21-32D Pad Sec.21-T3N-R64W

Guttersen USX D21-20D

Wellbore #1

Survey: Survey #1

Standard Survey Report

12 July, 2012



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Guttersten USX D21-20D
Project:	SEC.21-T3N-R64W	TVD Reference:	WELL @ 4833.0ft (Original Well Elev)
Site:	Guttersten USX D21-32D Pad Sec.21-T3N-R64W	MD Reference:	WELL @ 4833.0ft (Original Well Elev)
Well:	Guttersten USX D21-20D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.21-T3N-R64W, Weld County, CO		
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		Guttersen USX D21-32D Pad Sec.21-T3N-R64W			
Site Position:		Northing:	1,319,830.53ft	Latitude:	40.207510
From:	Lat/Long	Easting:	3,262,610.76ft	Longitude:	-104.559740
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.61 °

Well	Guttersten USX D21-20D					
Well Position	+N-S	0.0 ft	Northing:	1,319,801.76 ft	Latitude:	40.207430
	+E-W	0.0 ft	Easting:	3,262,647.38 ft	Longitude:	-104.559610
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,820.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/1/2011	8.69	66.92	53,012

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	341.81	

Survey Program	Date	7/12/2012			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
142.0	7,382.0	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	
142.0	0.40	144.40	142.0	-0.4	0.3	-0.5	0.28	0.28	0.00	
235.0	0.30	174.40	235.0	-0.9	0.5	-1.0	0.22	-0.11	32.26	
327.0	0.40	119.20	327.0	-1.3	0.8	-1.5	0.37	0.11	-60.00	
419.0	1.10	64.00	419.0	-1.1	1.9	-1.6	1.01	0.76	-60.00	
510.0	2.10	44.30	510.0	0.5	3.8	-0.7	1.24	1.10	-21.65	
613.0	3.80	26.40	612.8	4.9	6.7	2.6	1.86	1.65	-17.38	
695.0	4.90	11.30	694.6	10.8	8.6	7.6	1.93	1.34	-18.41	
751.0	5.80	3.40	750.3	15.9	9.2	12.3	2.07	1.61	-14.11	
796.0	6.50	0.00	795.1	20.8	9.3	16.8	1.75	1.56	-7.56	
878.0	7.90	3.40	876.4	31.0	9.7	26.5	1.78	1.71	4.15	
960.0	9.00	5.00	957.5	43.0	10.6	37.6	1.37	1.34	1.95	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Guttersen USX D21-20D
Project:	SEC.21-T3N-R64W	TVD Reference:	WELL @ 4833.0ft (Original Well Elev)
Site:	Guttersen USX D21-32D Pad Sec.21-T3N-R64W	MD Reference:	WELL @ 4833.0ft (Original Well Elev)
Well:	Guttersen USX D21-20D	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)
1,041.0	9.90	0.40	1,037.4	56.3	11.2	50.0	1.45	1.11	-5.68
1,123.0	11.10	358.30	1,118.1	71.3	11.0	64.3	1.54	1.46	-2.56
1,205.0	12.60	352.50	1,198.3	88.0	9.6	80.6	2.33	1.83	-7.07
1,286.0	13.40	349.50	1,277.2	106.0	6.7	98.6	1.29	0.99	-3.70
1,368.0	14.30	343.00	1,356.9	125.0	2.0	118.2	2.19	1.10	-7.93
1,450.0	15.60	339.50	1,436.1	145.1	-4.8	139.3	1.93	1.59	-4.27
1,531.0	16.40	336.30	1,513.9	165.7	-13.2	161.6	1.47	0.99	-3.95
1,613.0	16.60	336.00	1,592.6	187.0	-22.6	184.7	0.27	0.24	-0.37
1,695.0	16.20	335.40	1,671.2	208.1	-32.2	207.8	0.53	-0.49	-0.73
1,776.0	16.20	336.50	1,749.0	228.8	-41.4	230.2	0.38	0.00	1.36
1,858.0	16.90	337.40	1,827.6	250.3	-50.5	253.5	0.91	0.85	1.10
1,940.0	16.60	337.00	1,906.1	272.0	-59.7	277.1	0.39	-0.37	-0.49
2,021.0	16.50	337.20	1,983.8	293.3	-68.6	300.1	0.14	-0.12	0.25
2,103.0	16.10	336.80	2,062.5	314.5	-77.6	323.0	0.51	-0.49	-0.49
2,185.0	15.90	341.20	2,141.3	335.6	-85.7	345.6	1.50	-0.24	5.37
2,266.0	16.40	341.80	2,219.1	356.9	-92.9	368.1	0.65	0.62	0.74
2,348.0	16.30	341.80	2,297.8	378.9	-100.1	391.2	0.12	-0.12	0.00
2,430.0	15.20	343.50	2,376.7	400.1	-106.7	413.4	1.45	-1.34	2.07
2,512.0	15.70	340.00	2,455.8	420.8	-113.6	435.3	1.29	0.61	-4.27
2,593.0	16.00	339.50	2,533.7	441.6	-121.2	457.4	0.41	0.37	-0.62
2,675.0	15.90	338.90	2,612.5	462.7	-129.2	479.9	0.24	-0.12	-0.73
2,757.0	16.10	337.00	2,691.4	483.6	-137.7	502.4	0.68	0.24	-2.32
2,838.0	17.00	336.00	2,769.0	504.8	-146.9	525.4	1.17	1.11	-1.23
2,920.0	16.10	336.30	2,847.6	526.1	-156.4	548.6	1.10	-1.10	0.37
3,002.0	15.70	336.00	2,926.5	546.7	-165.5	571.0	0.50	-0.49	-0.37
3,083.0	15.60	337.00	3,004.5	566.7	-174.2	592.8	0.36	-0.12	1.23
3,165.0	15.20	337.40	3,083.5	586.8	-182.6	614.5	0.50	-0.49	0.49
3,247.0	15.70	341.10	3,162.6	607.2	-190.3	636.3	1.35	0.61	4.51
3,328.0	16.40	339.10	3,240.4	628.2	-198.0	658.7	1.10	0.86	-2.47
3,410.0	14.70	339.10	3,319.4	648.8	-205.8	680.6	2.07	-2.07	0.00
3,492.0	13.90	346.70	3,398.9	668.1	-211.8	700.8	2.49	-0.98	9.27
3,573.0	15.00	343.70	3,477.3	687.6	-217.0	721.0	1.64	1.36	-3.70
3,655.0	15.30	344.60	3,556.4	708.2	-222.8	742.4	0.46	0.37	1.10
3,737.0	16.10	344.00	3,635.4	729.6	-228.8	764.6	1.00	0.98	-0.73
3,818.0	15.10	341.10	3,713.4	750.4	-235.3	786.3	1.57	-1.23	-3.58
3,900.0	14.00	338.20	3,792.8	769.7	-242.5	806.9	1.61	-1.34	-3.54
3,982.0	14.50	339.50	3,872.2	788.5	-249.8	827.1	0.72	0.61	1.59
4,063.0	14.20	338.40	3,950.7	807.2	-257.0	847.1	0.50	-0.37	-1.36
4,145.0	12.80	339.50	4,030.5	825.1	-263.9	866.2	1.74	-1.71	1.34
4,227.0	13.00	336.00	4,110.4	842.0	-270.8	884.5	0.98	0.24	-4.27
4,308.0	13.40	340.90	4,189.2	859.2	-277.6	902.9	1.47	0.49	6.05
4,390.0	12.20	337.20	4,269.2	876.2	-284.0	921.1	1.77	-1.46	-4.51
4,472.0	13.10	340.20	4,349.2	892.9	-290.5	939.0	1.36	1.10	3.66
4,554.0	13.50	343.20	4,429.0	910.8	-296.5	957.9	0.97	0.49	3.66
4,635.0	14.00	340.20	4,507.7	929.1	-302.5	977.1	1.07	0.62	-3.70
4,717.0	13.60	341.10	4,587.3	947.6	-309.0	996.7	0.55	-0.49	1.10
4,799.0	13.50	343.90	4,667.0	965.9	-314.8	1,015.9	0.81	-0.12	3.41
4,880.0	13.50	343.20	4,745.8	984.0	-320.1	1,034.8	0.20	0.00	-0.86
4,962.0	13.60	343.70	4,825.5	1,002.4	-325.6	1,054.0	0.19	0.12	0.61
5,044.0	13.50	340.00	4,905.2	1,020.7	-331.6	1,073.2	1.06	-0.12	-4.51
5,125.0	14.10	343.70	4,983.9	1,039.0	-337.6	1,092.5	1.32	0.74	4.57
5,207.0	13.50	343.50	5,063.5	1,057.8	-343.1	1,112.0	0.73	-0.73	-0.24
5,289.0	11.50	344.40	5,143.6	1,074.8	-348.0	1,129.8	2.45	-2.44	1.10

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Guttersten USX D21-20D
Project:	SEC.21-T3N-R64W	TVD Reference:	WELL @ 4833.0ft (Original Well Elev)
Site:	Guttersten USX D21-32D Pad Sec.21-T3N-R64W	MD Reference:	WELL @ 4833.0ft (Original Well Elev)
Well:	Guttersten USX D21-20D	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)
5,370.0	10.30	343.30	5,223.1	1,089.6	-352.3	1,145.1	1.50	-1.48	-1.36
5,452.0	9.10	340.50	5,304.0	1,102.7	-356.5	1,158.9	1.57	-1.46	-3.41
5,534.0	8.40	336.70	5,385.0	1,114.3	-361.1	1,171.3	1.11	-0.85	-4.63
5,615.0	7.60	333.10	5,465.2	1,124.5	-365.8	1,182.5	1.16	-0.99	-4.44
5,697.0	6.30	330.90	5,546.6	1,133.3	-370.5	1,192.3	1.62	-1.59	-2.68
5,779.0	5.50	333.70	5,628.2	1,140.7	-374.4	1,200.6	1.04	-0.98	3.41
5,851.2	4.43	331.54	5,700.1	1,146.3	-377.3	1,206.8	1.50	-1.48	-3.00
TARGET BHL 2500'FSL & 1320'FWL									
5,860.0	4.30	331.20	5,708.9	1,146.9	-377.6	1,207.4	1.50	-1.48	-3.83
5,942.0	3.70	336.30	5,790.7	1,152.0	-380.1	1,213.1	0.85	-0.73	6.22
6,024.0	2.50	310.10	5,872.6	1,155.6	-382.6	1,217.3	2.23	-1.46	-31.95
6,105.0	1.10	296.10	5,953.5	1,157.1	-384.6	1,219.3	1.80	-1.73	-17.28
6,187.0	0.70	274.80	6,035.5	1,157.4	-385.8	1,220.0	0.63	-0.49	-25.98
6,269.0	0.60	274.80	6,117.5	1,157.5	-386.8	1,220.4	0.12	-0.12	0.00
6,350.0	0.90	285.70	6,198.5	1,157.7	-387.8	1,220.9	0.41	0.37	13.46
6,432.0	0.10	148.20	6,280.5	1,157.8	-388.4	1,221.2	1.19	-0.98	-167.68
6,514.0	0.40	82.50	6,362.5	1,157.8	-388.0	1,221.1	0.45	0.37	-80.12
6,596.0	0.20	42.20	6,444.5	1,158.0	-387.7	1,221.1	0.34	-0.24	-49.15
6,677.0	0.40	64.00	6,525.5	1,158.2	-387.3	1,221.2	0.28	0.25	26.91
6,759.0	0.50	86.30	6,607.5	1,158.3	-386.7	1,221.2	0.24	0.12	27.20
6,841.0	0.40	67.90	6,689.5	1,158.5	-386.1	1,221.1	0.21	-0.12	-22.44
6,880.5	0.40	71.95	6,729.0	1,158.6	-385.8	1,221.1	0.07	0.00	10.25
TARGET CIRCLE 2500'FSL & 1320'FWL									
6,922.0	0.40	76.20	6,770.5	1,158.6	-385.5	1,221.1	0.07	0.00	10.25
7,004.0	0.50	84.10	6,852.5	1,158.7	-384.9	1,221.0	0.14	0.12	9.63
7,086.0	0.70	86.00	6,934.5	1,158.8	-384.1	1,220.8	0.25	0.24	2.32
7,167.0	0.50	65.30	7,015.5	1,159.0	-383.2	1,220.7	0.36	-0.25	-25.56
7,249.0	0.70	92.10	7,097.5	1,159.1	-382.4	1,220.6	0.41	0.24	32.68
7,328.6	0.87	67.37	7,177.1	1,159.4	-381.4	1,220.5	0.47	0.22	-31.07
HARDLINE 124'N OF BHL									
7,337.0	0.90	65.40	7,185.5	1,159.4	-381.3	1,220.5	0.47	0.31	-23.43
7,382.0	1.10	73.20	7,230.5	1,159.7	-380.5	1,220.5	0.54	0.44	17.33

Checked By: _____	Approved By: _____	Date: _____
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