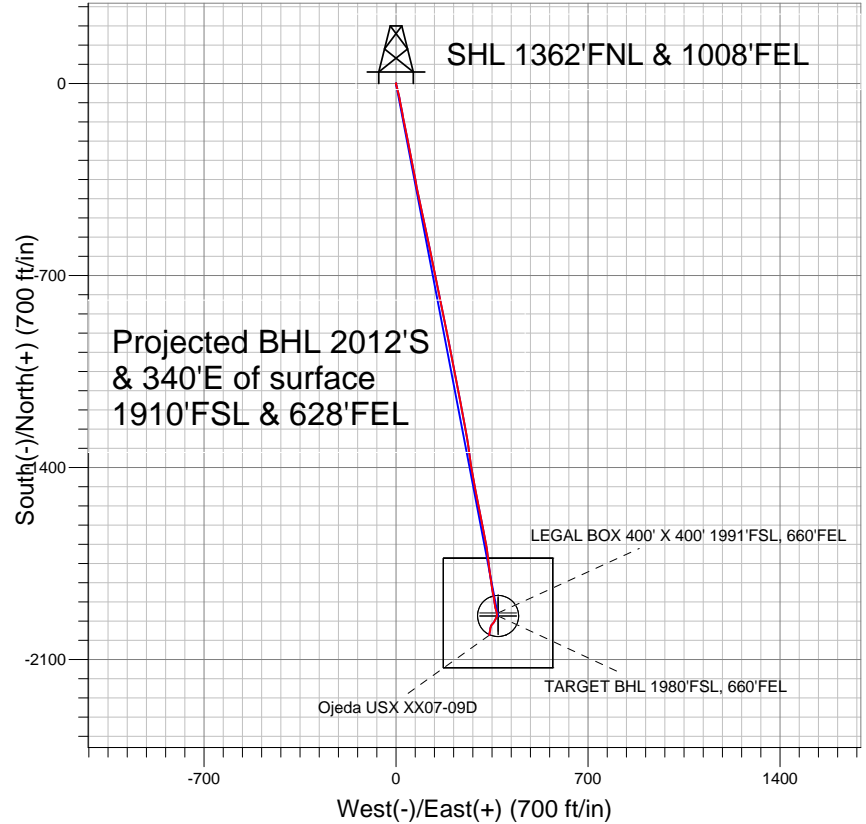
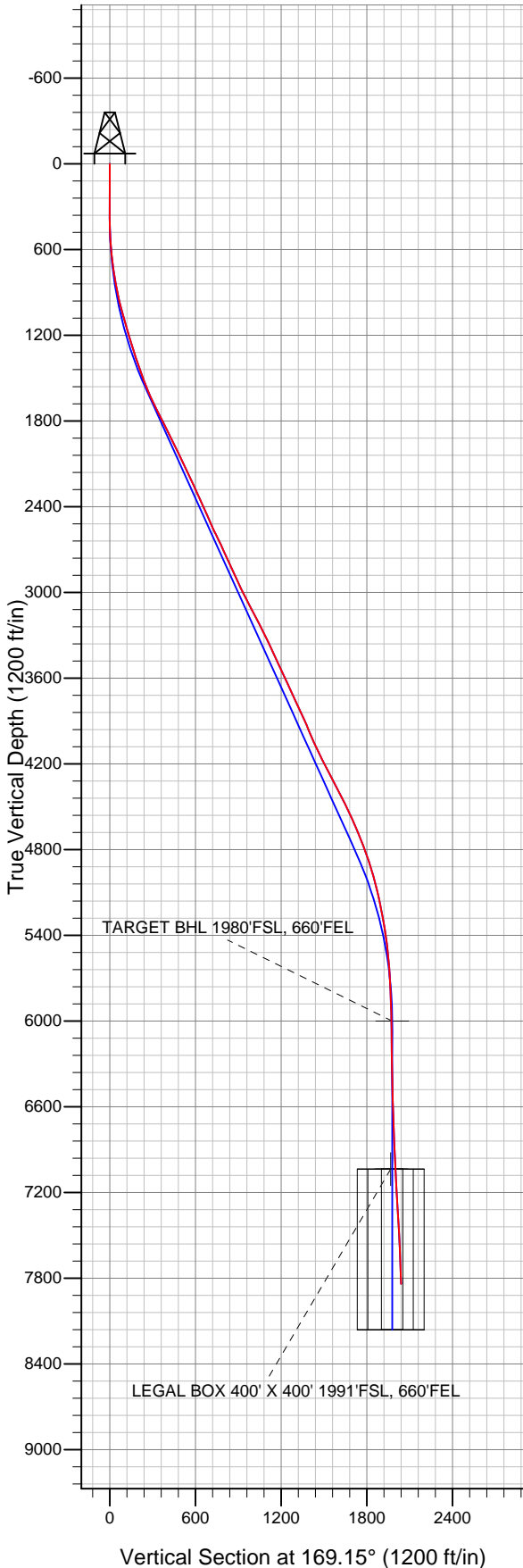


NOBLE ENERGY INC WELD COUNTY CO



LEGEND

- Ojeda USX XX07-09D, Wellbore #1, Noble Ojeda USX XX07-09D Plan #1 (6-20-1) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
8243'MD & 7841'TVD @ 2040'VS
1.9 deg Inc 182.2 deg AZ

Project: SEC.7-T1N-R65W
Site: Green USX XX07-07D Pad Sec.7-T1N-R65W
Well: Ojeda USX XX07-09D
Plan: Wellbore #1



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.7-T1N-R65W

Green USX XX07-07D Pad Sec.7-T1N-R65W

Ojeda USX XX07-09D

Wellbore #1

Survey: Survey #1

Standard Survey Report

25 August, 2011



Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Ojeda USX XX07-09D
Project:	SEC.7-T1N-R65W	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	Green USX XX07-07D Pad Sec.7-T1N-R65W	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Well:	Ojeda USX XX07-09D	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Landmark

Project	SEC.7-T1N-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	Green USX XX07-07D Pad Sec.7-T1N-R65W		
Site Position:		Northing:	1,269,175.20ft
From:	Lat/Long	Easting:	3,223,631.13ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	40.069510
		Longitude:	-104.700930
		Grid Convergence:	0.52 °

Well	Ojeda USX XX07-09D		
Well Position	+N/-S	0.0 ft	Northing: 1,269,175.40 ft
	+E/-W	0.0 ft	Easting: 3,223,653.52 ft
Position Uncertainty	0.0 ft		Wellhead Elevation: ft
			Latitude: 40.069510
			Longitude: -104.700850
			Ground Level: 4,987.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/20/2011	8.80	66.79	52,962

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	169.15

Survey Program	Date	8/25/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
347.0	8,243.0	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	
347.0	0.40	28.60	347.0	1.1	0.6	-0.9	0.12	0.12	0.00	
475.0	2.10	184.00	475.0	-0.9	0.6	1.0	1.93	1.33	121.41	
602.0	5.10	164.00	601.7	-8.6	2.0	8.9	2.53	2.36	-15.75	
730.0	8.20	166.20	728.8	-23.0	5.8	23.6	2.43	2.42	1.72	
858.0	10.60	167.10	855.1	-43.3	10.6	44.5	1.88	1.88	0.70	
985.0	13.50	169.50	979.3	-69.3	15.9	71.0	2.32	2.28	1.89	
1,122.0	16.40	169.30	1,111.6	-104.0	22.4	106.4	2.12	2.12	-0.15	
1,195.0	17.00	170.30	1,181.6	-124.7	26.1	127.3	0.91	0.82	1.37	
1,323.0	17.30	167.40	1,303.9	-161.7	33.4	165.1	0.71	0.23	-2.27	
1,452.0	18.60	168.20	1,426.6	-200.5	41.8	204.8	1.03	1.01	0.62	
1,580.0	21.70	170.00	1,546.7	-243.8	50.1	248.9	2.47	2.42	1.41	
1,709.0	25.60	168.10	1,664.9	-294.6	60.0	300.6	3.08	3.02	-1.47	

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Ojeda USX XX07-09D
Project:	SEC.7-T1N-R65W	TVD Reference:	WELL @ 5000.0ft (Original Well Elev)
Site:	Green USX XX07-07D Pad Sec.7-T1N-R65W	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Well:	Ojeda USX XX07-09D	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)
1,837.0	27.20	170.20	1,779.5	-350.5	70.7	357.5	1.45	1.25	1.64
1,965.0	26.30	167.60	1,893.8	-407.0	81.7	415.1	1.15	-0.70	-2.03
2,094.0	26.10	168.30	2,009.6	-462.7	93.6	472.1	0.29	-0.16	0.54
2,222.0	24.80	167.80	2,125.2	-516.5	105.0	527.1	1.03	-1.02	-0.39
2,351.0	25.20	168.80	2,242.1	-569.9	116.1	581.6	0.45	0.31	0.78
2,479.0	24.70	167.00	2,358.1	-622.7	127.4	635.6	0.71	-0.39	-1.41
2,607.0	23.10	168.70	2,475.2	-673.4	138.3	687.4	1.36	-1.25	1.33
2,736.0	26.20	169.80	2,592.4	-726.3	148.3	741.2	2.43	2.40	0.85
2,864.0	24.40	166.80	2,708.1	-779.8	159.3	795.9	1.73	-1.41	-2.34
2,993.0	24.60	169.60	2,825.5	-832.2	170.3	849.3	0.91	0.16	2.17
3,121.0	24.80	168.60	2,941.8	-884.7	180.4	902.8	0.36	0.16	-0.78
3,249.0	28.30	168.70	3,056.3	-940.8	191.7	960.0	2.73	2.73	0.08
3,378.0	27.20	167.80	3,170.4	-999.6	203.9	1,020.1	0.91	-0.85	-0.70
3,506.0	26.10	169.50	3,284.8	-1,055.9	215.2	1,077.5	1.05	-0.86	1.33
3,635.0	25.10	169.60	3,401.2	-1,110.7	225.3	1,133.2	0.78	-0.78	0.08
3,763.0	25.20	168.60	3,517.0	-1,164.1	235.6	1,187.6	0.34	0.08	-0.78
3,891.0	24.50	170.20	3,633.2	-1,217.0	245.5	1,241.4	0.76	-0.55	1.25
4,020.0	25.20	169.40	3,750.2	-1,270.3	255.1	1,295.6	0.60	0.54	-0.62
4,148.0	24.60	171.70	3,866.4	-1,323.5	264.0	1,349.5	0.89	-0.47	1.80
4,277.0	23.00	172.70	3,984.4	-1,375.0	271.0	1,401.5	1.28	-1.24	0.78
4,405.0	24.40	169.00	4,101.6	-1,425.8	279.3	1,452.9	1.60	1.09	-2.89
4,533.0	28.20	169.40	4,216.3	-1,481.5	289.9	1,509.6	2.97	2.97	0.31
4,662.0	27.60	170.00	4,330.3	-1,540.9	300.7	1,569.9	0.51	-0.47	0.47
4,790.0	26.60	167.40	4,444.3	-1,598.0	312.1	1,628.2	1.21	-0.78	-2.03
4,919.0	25.10	168.50	4,560.4	-1,653.0	323.8	1,684.4	1.22	-1.16	0.85
5,047.0	22.50	172.70	4,677.5	-1,704.0	332.3	1,736.1	2.42	-2.03	3.28
5,175.0	20.40	172.80	4,796.6	-1,750.4	338.3	1,782.8	1.64	-1.64	0.08
5,304.0	17.80	172.80	4,918.5	-1,792.3	343.5	1,824.9	2.02	-2.02	0.00
5,432.0	14.40	171.20	5,041.5	-1,827.4	348.4	1,860.3	2.68	-2.66	-1.25
5,561.0	11.50	169.30	5,167.2	-1,855.9	353.3	1,889.2	2.27	-2.25	-1.47
5,689.0	10.30	170.40	5,292.8	-1,879.7	357.6	1,913.4	0.95	-0.94	0.86
5,817.0	8.40	172.10	5,419.1	-1,900.3	360.7	1,934.2	1.50	-1.48	1.33
5,946.0	5.00	164.50	5,547.2	-1,915.0	363.5	1,949.2	2.72	-2.64	-5.89
6,074.0	3.80	163.30	5,674.9	-1,924.5	366.3	1,959.0	0.94	-0.94	-0.94
6,203.0	2.30	176.90	5,803.7	-1,931.1	367.6	1,965.8	1.28	-1.16	10.54
6,331.0	1.30	185.10	5,931.6	-1,935.2	367.6	1,969.8	0.80	-0.78	6.41
6,399.5	0.99	171.45	6,000.1	-1,936.5	367.7	1,971.1	0.60	-0.45	-19.92
TARGET BHL 1980°FSL, 660°FEL									
6,459.0	0.80	152.00	6,059.6	-1,937.4	367.9	1,972.0	0.60	-0.32	-32.69
6,588.0	1.10	171.10	6,188.6	-1,939.4	368.5	1,974.1	0.34	0.23	14.81
6,716.0	0.90	191.10	6,316.6	-1,941.6	368.5	1,976.3	0.31	-0.16	15.63
6,845.0	1.50	211.90	6,445.5	-1,944.0	367.4	1,978.5	0.57	0.47	16.12
6,973.0	1.60	199.90	6,573.5	-1,947.1	366.0	1,981.2	0.26	0.08	-9.38
7,101.0	2.60	209.70	6,701.4	-1,951.3	363.9	1,985.0	0.83	0.78	7.66
7,230.0	3.40	201.80	6,830.2	-1,957.4	361.0	1,990.4	0.70	0.62	-6.12
7,358.0	3.90	216.10	6,958.0	-1,964.5	357.1	1,996.6	0.81	0.39	11.17
7,434.2	4.36	220.54	7,033.9	-1,968.8	353.7	2,000.1	0.74	0.61	5.83
LEGAL BOX 400' X 400' 1991°FSL, 660°FEL									
7,434.7	4.37	220.57	7,034.4	-1,968.8	353.6	2,000.2	0.74	0.63	5.20
TARGET CIRCLE 1980°FSL, 660°FEL									
7,487.0	4.70	223.10	7,086.6	-1,971.9	350.9	2,002.7	0.74	0.63	4.84
7,615.0	3.70	199.00	7,214.3	-1,979.6	345.9	2,009.3	1.57	-0.78	-18.83
7,743.0	3.50	188.10	7,342.0	-1,987.4	344.0	2,016.6	0.56	-0.16	-8.52
7,872.0	3.40	185.50	7,470.8	-1,995.1	343.1	2,024.0	0.14	-0.08	-2.02

Company:	NOBLE ENERGY INC WELD COUNTY CO	Local Co-ordinate Reference:	Well Ojeda USX XX07-09D
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Site:	Green USX XX07-07D Pad Sec.7-T1N-R65W	MD Reference:	WELL @ 5000.0ft (Original Well Elev)
Well:	Ojeda USX XX07-09D	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)
8,000.0	2.70	196.00	7,598.6	-2,001.8	341.9	2,030.3	0.70	-0.55	8.20
8,193.0	2.20	184.30	7,791.4	-2,009.8	340.4	2,038.0	0.37	-0.26	-6.06
8,243.0	1.90	182.20	7,841.4	-2,011.6	340.3	2,039.7	0.62	-0.60	-4.20

Checked By: _____	Approved By: _____	Date: _____
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