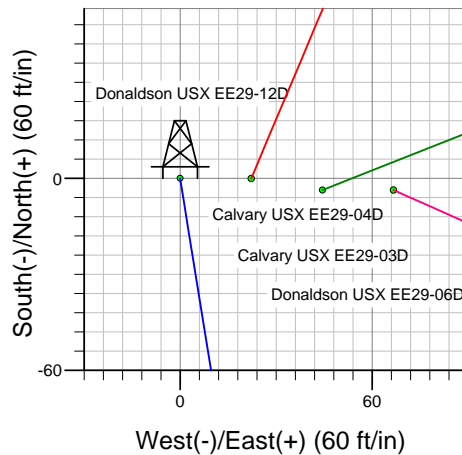
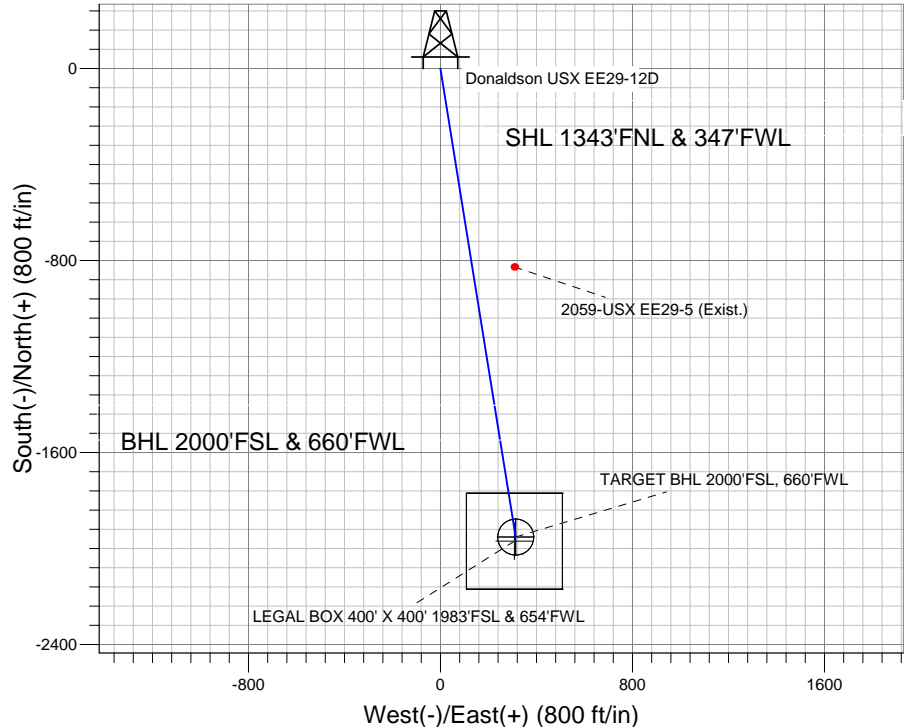
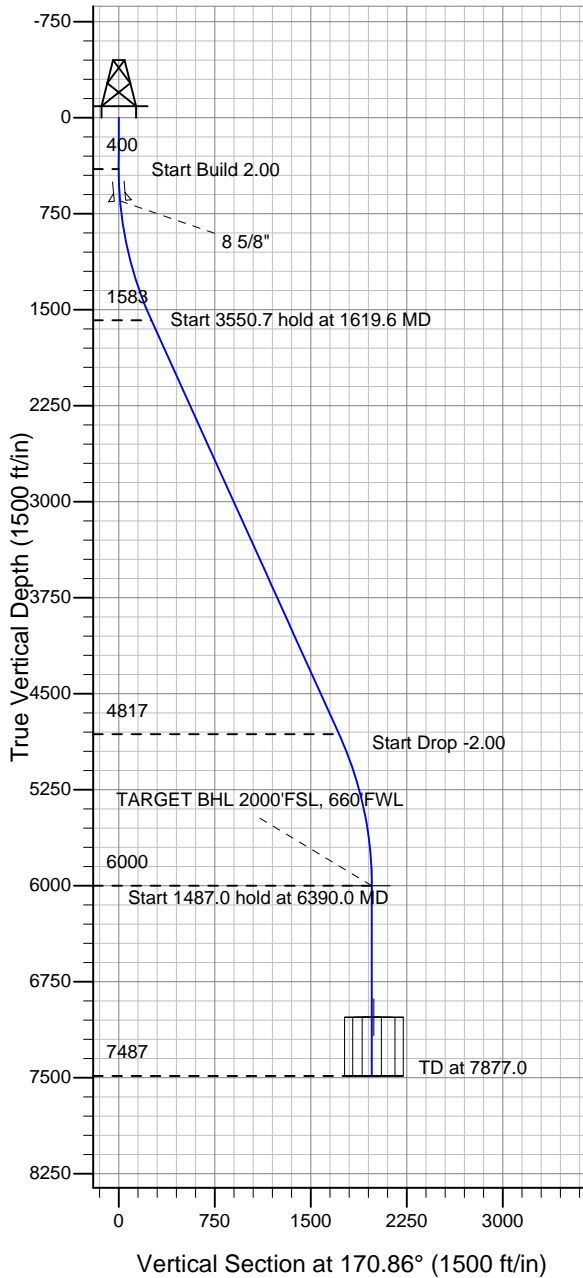


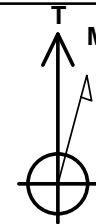
Well Name: Donaldson USX EE29-12D

Surface Location: Donaldson USX EE29-12D Pad Sec.29-T7N-R65W
 North American Datum 1983 US State Plane 1983 Colorado Northern Zone
 Ground Elevation: 4924.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1444056.54 3223614.25 40.549550 -104.695320
 Original Well Elev WELL @ 4937.0ft (Original Well Elev)

NOBLE ENERGY INC WELD COUNTY CO



Donaldson USX EE29-12D Pad Sec.29-T7N-R65W
 Donaldson USX EE29-12D
 Noble Donaldson USX EE29-12D Plan #1 (5-04-11)
 11:10, May 06 2011



Azimuths to True North
 Magnetic North: 8.86°
 Magnetic Field
 Strength: 53228.5nT
 Dip Angle: 67.19°
 Date: 5/4/2011
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 2000'FSL, 660'FWL	6000.0	-1952.8	314.1	40.544190	-104.694190	Point
LEGAL BOX 400' X 400' 1983'FSL & 654'FWL	7027.0	-1969.8	308.1	40.544143	-104.694211	Rectangle (Sides: L400.0 W400.0)
TARGET CIRCLE 2000'FSL & 660'FWL	7027.0	-1952.8	314.1	40.544190	-104.694190	Circle (Radius: 75.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1619.6	24.39	170.86	1583.1	-252.5	40.6	2.00	170.86	255.7	
4	5170.3	24.39	170.86	4816.9	-1700.3	273.5	0.00	0.00	1722.1	
5	6390.0	0.00	0.00	6000.0	-1952.8	314.1	2.00	180.00	1977.8	TARGET BHL 2000'FSL, 660'FWL
6	7877.0	0.00	0.00	7487.0	-1952.8	314.1	0.00	0.00	1977.8	



Directional

NOBLE ENERGY INC WELD COUNTY CO

SEC.29-T7N-R65W

Donaldson USX EE29-12D Pad Sec.29-T7N-R65W

Donaldson USX EE29-12D

Wellbore #1

Plan: Noble Donaldson USX EE29-12D Plan #1 (5-04-11)

Standard Planning Report

06 May, 2011



Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-04-11)		

Project	SEC.29-T7N-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						Donaldson USX EE29-12D Pad Sec.29-T7N-R65W											
Site Position:						Northing:			1,444,056.55 ft			Latitude:			40.549550		
From:			Lat/Long			Easting:			3,223,614.25 ft			Longitude:			-104.695320		
Position Uncertainty:			0.0 ft			Slot Radius:			"			Grid Convergence:			0.52 °		

Well	Donaldson USX EE29-12D					
Well Position	+N/-S	0.0 ft	Northing:	1,444,056.54 ft	Latitude:	40.549550
	+E/-W	0.0 ft	Easting:	3,223,614.25 ft	Longitude:	-104.695320
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,924.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/4/2011	8.86	67.19	53,229

Design	Noble Donaldson USX EE29-12D Plan #1 (5-04-11)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	170.86

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,619.6	24.39	170.86	1,583.1	-252.5	40.6	2.00	2.00	0.00	170.86	
5,170.3	24.39	170.86	4,816.9	-1,700.3	273.5	0.00	0.00	0.00	0.00	
6,390.0	0.00	0.00	6,000.0	-1,952.8	314.1	2.00	-2.00	0.00	180.00	TARGET BHL 200C
7,877.0	0.00	0.00	7,487.0	-1,952.8	314.1	0.00	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-0)		

Planned 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
40.0	0.00	0.00	40.0	0.0	0.0	0.0	0.00	0.00	0.00
80.0	0.00	0.00	80.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
160.0	0.00	0.00	160.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
240.0	0.00	0.00	240.0	0.0	0.0	0.0	0.00	0.00	0.00
280.0	0.00	0.00	280.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
360.0	0.00	0.00	360.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
440.0	0.80	170.86	440.0	-0.3	0.0	0.3	2.00	2.00	0.00
480.0	1.60	170.86	480.0	-1.1	0.2	1.1	2.00	2.00	0.00
520.0	2.40	170.86	520.0	-2.5	0.4	2.5	2.00	2.00	0.00
560.0	3.20	170.86	559.9	-4.4	0.7	4.5	2.00	2.00	0.00
600.0	4.00	170.86	599.8	-6.9	1.1	7.0	2.00	2.00	0.00
640.0	4.80	170.86	639.7	-9.9	1.6	10.0	2.00	2.00	0.00
650.3	5.01	170.86	650.0	-10.8	1.7	10.9	2.00	2.00	0.00
8 5/8"									
680.0	5.60	170.86	679.6	-13.5	2.2	13.7	2.00	2.00	0.00
720.0	6.40	170.86	719.3	-17.6	2.8	17.9	2.00	2.00	0.00
760.0	7.20	170.86	759.1	-22.3	3.6	22.6	2.00	2.00	0.00
800.0	8.00	170.86	798.7	-27.5	4.4	27.9	2.00	2.00	0.00
840.0	8.80	170.86	838.3	-33.3	5.4	33.7	2.00	2.00	0.00
880.0	9.60	170.86	877.8	-39.6	6.4	40.1	2.00	2.00	0.00
920.0	10.40	170.86	917.1	-46.5	7.5	47.1	2.00	2.00	0.00
960.0	11.20	170.86	956.4	-53.9	8.7	54.6	2.00	2.00	0.00
1,000.0	12.00	170.86	995.6	-61.8	9.9	62.6	2.00	2.00	0.00
1,040.0	12.80	170.86	1,034.7	-70.3	11.3	71.2	2.00	2.00	0.00
1,080.0	13.60	170.86	1,073.6	-79.3	12.8	80.3	2.00	2.00	0.00
1,120.0	14.40	170.86	1,112.4	-88.9	14.3	90.0	2.00	2.00	0.00
1,160.0	15.20	170.86	1,151.1	-98.9	15.9	100.2	2.00	2.00	0.00
1,200.0	16.00	170.86	1,189.6	-109.6	17.6	111.0	2.00	2.00	0.00
1,240.0	16.80	170.86	1,228.0	-120.7	19.4	122.3	2.00	2.00	0.00
1,280.0	17.60	170.86	1,266.2	-132.4	21.3	134.1	2.00	2.00	0.00
1,320.0	18.40	170.86	1,304.3	-144.6	23.3	146.5	2.00	2.00	0.00
1,360.0	19.20	170.86	1,342.1	-157.3	25.3	159.3	2.00	2.00	0.00
1,400.0	20.00	170.86	1,379.8	-170.6	27.4	172.8	2.00	2.00	0.00
1,440.0	20.80	170.86	1,417.3	-184.3	29.6	186.7	2.00	2.00	0.00
1,480.0	21.60	170.86	1,454.6	-198.6	31.9	201.2	2.00	2.00	0.00
1,520.0	22.40	170.86	1,491.7	-213.4	34.3	216.2	2.00	2.00	0.00
1,560.0	23.20	170.86	1,528.6	-228.7	36.8	231.7	2.00	2.00	0.00
1,600.0	24.00	170.86	1,565.2	-244.5	39.3	247.7	2.00	2.00	0.00
1,619.6	24.39	170.86	1,583.1	-252.5	40.6	255.7	2.00	2.00	0.00
1,640.0	24.39	170.86	1,601.7	-260.8	41.9	264.1	0.00	0.00	0.00
1,680.0	24.39	170.86	1,638.1	-277.1	44.6	280.7	0.00	0.00	0.00
1,720.0	24.39	170.86	1,674.5	-293.4	47.2	297.2	0.00	0.00	0.00
1,760.0	24.39	170.86	1,711.0	-309.7	49.8	313.7	0.00	0.00	0.00
1,800.0	24.39	170.86	1,747.4	-326.0	52.4	330.2	0.00	0.00	0.00
1,840.0	24.39	170.86	1,783.8	-342.3	55.1	346.7	0.00	0.00	0.00
1,880.0	24.39	170.86	1,820.2	-358.6	57.7	363.2	0.00	0.00	0.00
1,920.0	24.39	170.86	1,856.7	-375.0	60.3	379.8	0.00	0.00	0.00
1,960.0	24.39	170.86	1,893.1	-391.3	62.9	396.3	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-0)		

Planned 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)	
2,000.0	24.39	170.86	1,929.5	-407.6	65.5	412.8	0.00	0.00	0.00	
2,040.0	24.39	170.86	1,966.0	-423.9	68.2	429.3	0.00	0.00	0.00	
2,080.0	24.39	170.86	2,002.4	-440.2	70.8	445.8	0.00	0.00	0.00	
2,120.0	24.39	170.86	2,038.8	-456.5	73.4	462.4	0.00	0.00	0.00	
2,160.0	24.39	170.86	2,075.3	-472.8	76.0	478.9	0.00	0.00	0.00	
2,200.0	24.39	170.86	2,111.7	-489.1	78.7	495.4	0.00	0.00	0.00	
2,240.0	24.39	170.86	2,148.1	-505.4	81.3	511.9	0.00	0.00	0.00	
2,280.0	24.39	170.86	2,184.5	-521.7	83.9	528.4	0.00	0.00	0.00	
2,320.0	24.39	170.86	2,221.0	-538.1	86.5	545.0	0.00	0.00	0.00	
2,360.0	24.39	170.86	2,257.4	-554.4	89.2	561.5	0.00	0.00	0.00	
2,400.0	24.39	170.86	2,293.8	-570.7	91.8	578.0	0.00	0.00	0.00	
2,440.0	24.39	170.86	2,330.3	-587.0	94.4	594.5	0.00	0.00	0.00	
2,480.0	24.39	170.86	2,366.7	-603.3	97.0	611.0	0.00	0.00	0.00	
2,520.0	24.39	170.86	2,403.1	-619.6	99.6	627.6	0.00	0.00	0.00	
2,560.0	24.39	170.86	2,439.5	-635.9	102.3	644.1	0.00	0.00	0.00	
2,600.0	24.39	170.86	2,476.0	-652.2	104.9	660.6	0.00	0.00	0.00	
2,640.0	24.39	170.86	2,512.4	-668.5	107.5	677.1	0.00	0.00	0.00	
2,680.0	24.39	170.86	2,548.8	-684.8	110.1	693.6	0.00	0.00	0.00	
2,720.0	24.39	170.86	2,585.3	-701.2	112.8	710.2	0.00	0.00	0.00	
2,760.0	24.39	170.86	2,621.7	-717.5	115.4	726.7	0.00	0.00	0.00	
2,800.0	24.39	170.86	2,658.1	-733.8	118.0	743.2	0.00	0.00	0.00	
2,840.0	24.39	170.86	2,694.6	-750.1	120.6	759.7	0.00	0.00	0.00	
2,880.0	24.39	170.86	2,731.0	-766.4	123.3	776.2	0.00	0.00	0.00	
2,920.0	24.39	170.86	2,767.4	-782.7	125.9	792.8	0.00	0.00	0.00	
2,960.0	24.39	170.86	2,803.8	-799.0	128.5	809.3	0.00	0.00	0.00	
3,000.0	24.39	170.86	2,840.3	-815.3	131.1	825.8	0.00	0.00	0.00	
3,040.0	24.39	170.86	2,876.7	-831.6	133.7	842.3	0.00	0.00	0.00	
3,080.0	24.39	170.86	2,913.1	-847.9	136.4	858.8	0.00	0.00	0.00	
3,120.0	24.39	170.86	2,949.6	-864.3	139.0	875.4	0.00	0.00	0.00	
3,160.0	24.39	170.86	2,986.0	-880.6	141.6	891.9	0.00	0.00	0.00	
3,200.0	24.39	170.86	3,022.4	-896.9	144.2	908.4	0.00	0.00	0.00	
3,240.0	24.39	170.86	3,058.8	-913.2	146.9	924.9	0.00	0.00	0.00	
3,280.0	24.39	170.86	3,095.3	-929.5	149.5	941.4	0.00	0.00	0.00	
3,320.0	24.39	170.86	3,131.7	-945.8	152.1	958.0	0.00	0.00	0.00	
3,360.0	24.39	170.86	3,168.1	-962.1	154.7	974.5	0.00	0.00	0.00	
3,400.0	24.39	170.86	3,204.6	-978.4	157.4	991.0	0.00	0.00	0.00	
3,440.0	24.39	170.86	3,241.0	-994.7	160.0	1,007.5	0.00	0.00	0.00	
3,480.0	24.39	170.86	3,277.4	-1,011.0	162.6	1,024.0	0.00	0.00	0.00	
3,520.0	24.39	170.86	3,313.9	-1,027.4	165.2	1,040.6	0.00	0.00	0.00	
3,560.0	24.39	170.86	3,350.3	-1,043.7	167.8	1,057.1	0.00	0.00	0.00	
3,600.0	24.39	170.86	3,386.7	-1,060.0	170.5	1,073.6	0.00	0.00	0.00	
3,640.0	24.39	170.86	3,423.1	-1,076.3	173.1	1,090.1	0.00	0.00	0.00	
3,680.0	24.39	170.86	3,459.6	-1,092.6	175.7	1,106.6	0.00	0.00	0.00	
3,720.0	24.39	170.86	3,496.0	-1,108.9	178.3	1,123.2	0.00	0.00	0.00	
3,760.0	24.39	170.86	3,532.4	-1,125.2	181.0	1,139.7	0.00	0.00	0.00	
3,800.0	24.39	170.86	3,568.9	-1,141.5	183.6	1,156.2	0.00	0.00	0.00	
3,840.0	24.39	170.86	3,605.3	-1,157.8	186.2	1,172.7	0.00	0.00	0.00	
3,880.0	24.39	170.86	3,641.7	-1,174.1	188.8	1,189.2	0.00	0.00	0.00	
3,920.0	24.39	170.86	3,678.1	-1,190.5	191.5	1,205.7	0.00	0.00	0.00	
3,960.0	24.39	170.86	3,714.6	-1,206.8	194.1	1,222.3	0.00	0.00	0.00	
4,000.0	24.39	170.86	3,751.0	-1,223.1	196.7	1,238.8	0.00	0.00	0.00	
4,040.0	24.39	170.86	3,787.4	-1,239.4	199.3	1,255.3	0.00	0.00	0.00	
4,080.0	24.39	170.86	3,823.9	-1,255.7	202.0	1,271.8	0.00	0.00	0.00	

Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-0)		

Planned 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)
4,120.0	24.39	170.86	3,860.3	-1,272.0	204.6	1,288.3	0.00	0.00	0.00
4,160.0	24.39	170.86	3,896.7	-1,288.3	207.2	1,304.9	0.00	0.00	0.00
4,200.0	24.39	170.86	3,933.2	-1,304.6	209.8	1,321.4	0.00	0.00	0.00
4,240.0	24.39	170.86	3,969.6	-1,320.9	212.4	1,337.9	0.00	0.00	0.00
4,280.0	24.39	170.86	4,006.0	-1,337.2	215.1	1,354.4	0.00	0.00	0.00
4,320.0	24.39	170.86	4,042.4	-1,353.6	217.7	1,370.9	0.00	0.00	0.00
4,360.0	24.39	170.86	4,078.9	-1,369.9	220.3	1,387.5	0.00	0.00	0.00
4,400.0	24.39	170.86	4,115.3	-1,386.2	222.9	1,404.0	0.00	0.00	0.00
4,440.0	24.39	170.86	4,151.7	-1,402.5	225.6	1,420.5	0.00	0.00	0.00
4,480.0	24.39	170.86	4,188.2	-1,418.8	228.2	1,437.0	0.00	0.00	0.00
4,520.0	24.39	170.86	4,224.6	-1,435.1	230.8	1,453.5	0.00	0.00	0.00
4,560.0	24.39	170.86	4,261.0	-1,451.4	233.4	1,470.1	0.00	0.00	0.00
4,600.0	24.39	170.86	4,297.4	-1,467.7	236.1	1,486.6	0.00	0.00	0.00
4,640.0	24.39	170.86	4,333.9	-1,484.0	238.7	1,503.1	0.00	0.00	0.00
4,680.0	24.39	170.86	4,370.3	-1,500.3	241.3	1,519.6	0.00	0.00	0.00
4,720.0	24.39	170.86	4,406.7	-1,516.7	243.9	1,536.1	0.00	0.00	0.00
4,760.0	24.39	170.86	4,443.2	-1,533.0	246.5	1,552.7	0.00	0.00	0.00
4,800.0	24.39	170.86	4,479.6	-1,549.3	249.2	1,569.2	0.00	0.00	0.00
4,840.0	24.39	170.86	4,516.0	-1,565.6	251.8	1,585.7	0.00	0.00	0.00
4,880.0	24.39	170.86	4,552.5	-1,581.9	254.4	1,602.2	0.00	0.00	0.00
4,920.0	24.39	170.86	4,588.9	-1,598.2	257.0	1,618.7	0.00	0.00	0.00
4,960.0	24.39	170.86	4,625.3	-1,614.5	259.7	1,635.3	0.00	0.00	0.00
5,000.0	24.39	170.86	4,661.7	-1,630.8	262.3	1,651.8	0.00	0.00	0.00
5,040.0	24.39	170.86	4,698.2	-1,647.1	264.9	1,668.3	0.00	0.00	0.00
5,080.0	24.39	170.86	4,734.6	-1,663.4	267.5	1,684.8	0.00	0.00	0.00
5,120.0	24.39	170.86	4,771.0	-1,679.8	270.2	1,701.3	0.00	0.00	0.00
5,160.0	24.39	170.86	4,807.5	-1,696.1	272.8	1,717.9	0.00	0.00	0.00
5,170.3	24.39	170.86	4,816.9	-1,700.3	273.5	1,722.1	0.00	0.00	0.00
5,200.0	23.80	170.86	4,844.0	-1,712.2	275.4	1,734.2	2.00	-2.00	0.00
5,240.0	23.00	170.86	4,880.7	-1,727.9	277.9	1,750.1	2.00	-2.00	0.00
5,280.0	22.20	170.86	4,917.6	-1,743.1	280.3	1,765.5	2.00	-2.00	0.00
5,320.0	21.40	170.86	4,954.7	-1,757.8	282.7	1,780.3	2.00	-2.00	0.00
5,360.0	20.60	170.86	4,992.1	-1,771.9	285.0	1,794.7	2.00	-2.00	0.00
5,400.0	19.80	170.86	5,029.6	-1,785.5	287.2	1,808.5	2.00	-2.00	0.00
5,440.0	19.00	170.86	5,067.3	-1,798.7	289.3	1,821.8	2.00	-2.00	0.00
5,480.0	18.20	170.86	5,105.3	-1,811.3	291.3	1,834.5	2.00	-2.00	0.00
5,520.0	17.40	170.86	5,143.3	-1,823.3	293.2	1,846.8	2.00	-2.00	0.00
5,560.0	16.60	170.86	5,181.6	-1,834.9	295.1	1,858.5	2.00	-2.00	0.00
5,600.0	15.80	170.86	5,220.0	-1,845.9	296.9	1,869.6	2.00	-2.00	0.00
5,640.0	15.00	170.86	5,258.6	-1,856.4	298.6	1,880.2	2.00	-2.00	0.00
5,680.0	14.20	170.86	5,297.3	-1,866.3	300.2	1,890.3	2.00	-2.00	0.00
5,720.0	13.40	170.86	5,336.1	-1,875.8	301.7	1,899.9	2.00	-2.00	0.00
5,760.0	12.60	170.86	5,375.1	-1,884.6	303.1	1,908.9	2.00	-2.00	0.00
5,800.0	11.80	170.86	5,414.2	-1,893.0	304.4	1,917.3	2.00	-2.00	0.00
5,840.0	11.00	170.86	5,453.4	-1,900.8	305.7	1,925.2	2.00	-2.00	0.00
5,880.0	10.20	170.86	5,492.7	-1,908.1	306.9	1,932.6	2.00	-2.00	0.00
5,920.0	9.40	170.86	5,532.1	-1,914.8	307.9	1,939.4	2.00	-2.00	0.00
5,960.0	8.60	170.86	5,571.6	-1,921.0	308.9	1,945.6	2.00	-2.00	0.00
6,000.0	7.80	170.86	5,611.2	-1,926.6	309.8	1,951.3	2.00	-2.00	0.00
6,040.0	7.00	170.86	5,650.9	-1,931.7	310.7	1,956.5	2.00	-2.00	0.00
6,080.0	6.20	170.86	5,690.6	-1,936.2	311.4	1,961.1	2.00	-2.00	0.00
6,120.0	5.40	170.86	5,730.4	-1,940.2	312.0	1,965.1	2.00	-2.00	0.00
6,160.0	4.60	170.86	5,770.3	-1,943.6	312.6	1,968.6	2.00	-2.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-0)		

Planned 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)
6,200.0	3.80	170.86	5,810.2	-1,946.5	313.1	1,971.5	2.00	-2.00	0.00
6,240.0	3.00	170.86	5,850.1	-1,948.9	313.4	1,973.9	2.00	-2.00	0.00
6,280.0	2.20	170.86	5,890.1	-1,950.7	313.7	1,975.7	2.00	-2.00	0.00
6,320.0	1.40	170.86	5,930.0	-1,951.9	313.9	1,977.0	2.00	-2.00	0.00
6,360.0	0.60	170.86	5,970.0	-1,952.6	314.0	1,977.7	2.00	-2.00	0.00
6,390.0	0.00	0.00	6,000.0	-1,952.8	314.1	1,977.8	2.00	-2.00	-570.09
TARGET BHL 2000'FSL, 660'FWL									
6,400.0	0.00	0.00	6,010.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,440.0	0.00	0.00	6,050.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,480.0	0.00	0.00	6,090.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,520.0	0.00	0.00	6,130.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,560.0	0.00	0.00	6,170.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,210.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,640.0	0.00	0.00	6,250.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,680.0	0.00	0.00	6,290.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,720.0	0.00	0.00	6,330.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,760.0	0.00	0.00	6,370.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,410.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,840.0	0.00	0.00	6,450.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,880.0	0.00	0.00	6,490.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,920.0	0.00	0.00	6,530.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
6,960.0	0.00	0.00	6,570.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,610.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,040.0	0.00	0.00	6,650.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,080.0	0.00	0.00	6,690.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,120.0	0.00	0.00	6,730.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,160.0	0.00	0.00	6,770.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,200.0	0.00	0.00	6,810.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,240.0	0.00	0.00	6,850.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,280.0	0.00	0.00	6,890.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,320.0	0.00	0.00	6,930.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,360.0	0.00	0.00	6,970.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,010.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,417.0	0.00	0.00	7,027.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
NIOBRARA - LEGAL BOX 400' X 400' 1983'FSL & 654'FWL - TARGET CIRCLE 2000'FSL & 660'FWL									
7,440.0	0.00	0.00	7,050.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,480.0	0.00	0.00	7,090.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,520.0	0.00	0.00	7,130.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,560.0	0.00	0.00	7,170.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,210.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,640.0	0.00	0.00	7,250.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,680.0	0.00	0.00	7,290.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,720.0	0.00	0.00	7,330.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,727.0	0.00	0.00	7,337.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
CODELL									
7,760.0	0.00	0.00	7,370.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,410.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,840.0	0.00	0.00	7,450.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00
7,877.0	0.00	0.00	7,487.0	-1,952.8	314.1	1,977.8	0.00	0.00	0.00

Database:	Landmark	Local Co-ordinate Reference:	Well Donaldson USX EE29-12D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4937.0ft (Original Well Elev)
Project:	SEC.29-T7N-R65W	MD Reference:	WELL @ 4937.0ft (Original Well Elev)
Site:	Donaldson USX EE29-12D Pad Sec.29-T7N-R65W	North Reference:	True
Well:	Donaldson USX EE29-12D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Noble Donaldson USX EE29-12D Plan #1 (5-0)		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
TARGET BHL 2000'F:	0.00	0.00	6,000.0	-1,952.8	314.1	1,442,106.78	3,223,946.01	40.544190	-104.694190
- plan hits target center									
- Point									
LEGAL BOX 400' X 400'	0.00	0.00	7,027.0	-1,969.8	308.1	1,442,089.68	3,223,940.20	40.544143	-104.694211
- plan misses target center by 18.1ft at 7417.0ft MD (7027.0 TVD, -1952.8 N, 314.1 E)									
- Rectangle (sides W400.0 H400.0 D460.0)									
TARGET CIRCLE 200'	0.00	0.00	7,027.0	-1,952.8	314.1	1,442,106.78	3,223,946.01	40.544190	-104.694190
- plan hits target center									
- Circle (radius 75.0)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
650.3	650.0	8 5/8"	8-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,417.0	7,027.0	NIOBRARA		0.00	
7,727.0	7,337.0	CODELL		0.00	