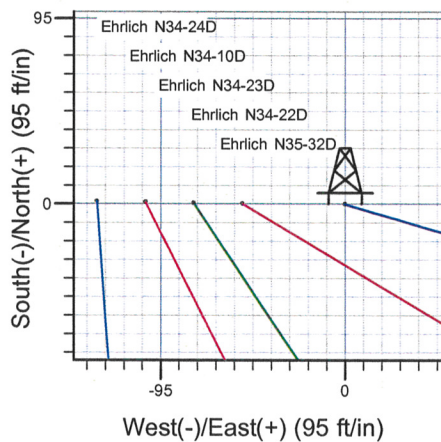
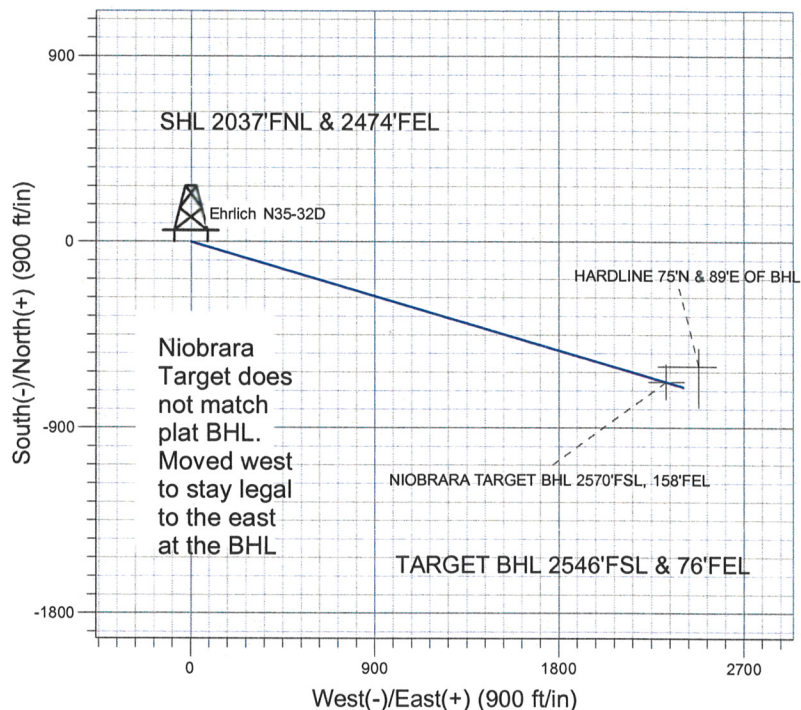
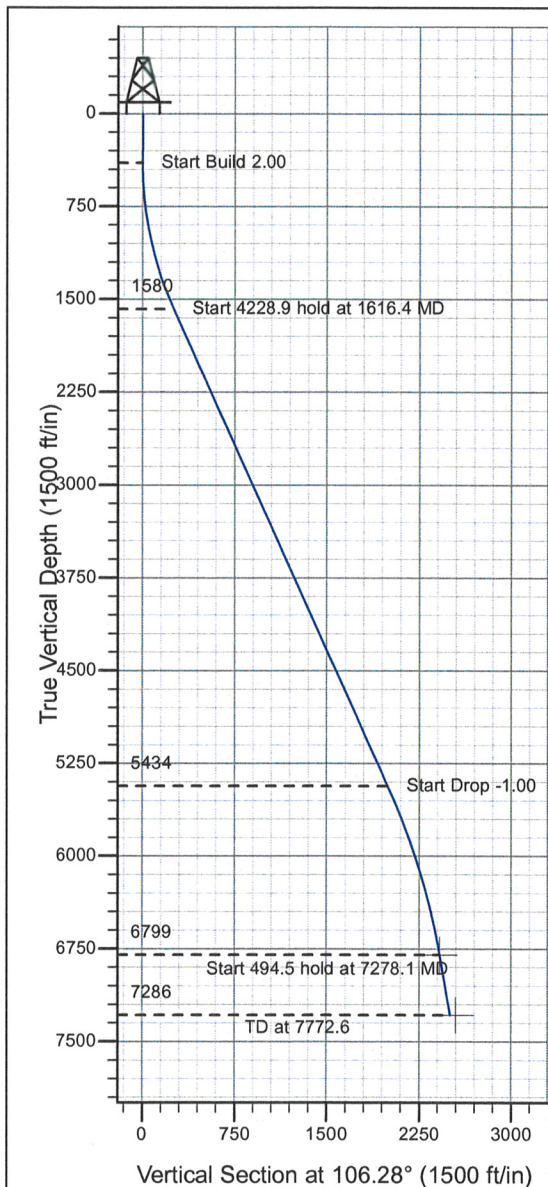


**Well Name:**Ehrlich N35-32D

Surface Location: Ehrlich N34-24D Pad Sec.34-T5N-R67W  
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
 Ground Elevation: 4863.0  
 S+E/-W    Northing    Easting    Latitude    Longitude    S  
 0.0 1373805.26 3173183.44 40° 21' 28.191 N 104° 52' 42.820 W  
 Original Well Elev    WELL @ 4876.0ft (Original Well Elev)

+N/-S+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1373805.26	3173183.44 40° 21' 28.191 N	104° 52' 42.820 W	
		Original Well Elev	WELL @ 4876.0ft (Original Well Elev)		

**NOBLE ENERGY INC WELD COUNTY CO**



Ehrlich N34-24D Pad Sec.34-T5N-R67W  
Ehrlich N35-32D  
Plan #1 (06-11-09)  
11:51, July 01 2009



Azimuths to True North  
Magnetic North:  $9.16^\circ$

Magnetic Field  
Strength: 53326.8snT  
Dip Angle: 67.07°  
Date: 6/11/2009  
Model: IGRF200510

## WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
NIOBRARA TARGET BHL 2570'FSL, 158'FEL	6799.0	-678.0	2321.3	40° 21' 21.491 N	104° 52' 12.835 W	Polygon
HARDLINE 75°N & 89°E OF BHL	7286.0	-603.0	2479.3	40° 21' 22.232 N	104° 52' 10.794 W	Polygon

## 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	1616.4	24.33	106.28	1580.2	-71.3	244.2	2.00	106.28	254.4	
4	5845.3	24.33	106.28	5433.5	-559.8	1916.5	0.00	0.00	1996.5	
5	7278.1	10.00	106.28	6799.0	-678.0	2321.3	1.00	180.00	2418.3	NIOBRARA TARGET BHL 2570'FSL, 158'FEL
6	7772.6	10.00	106.28	7286.0	-702.1	2403.7	0.00	0.00	2504.2	



## **Directional**

### **NOBLE ENERGY INC WELD COUNTY CO**

**SEC.34-T5N-R67W**

**Ehrlich N34-24D Pad Sec.34-T5N-R67W**

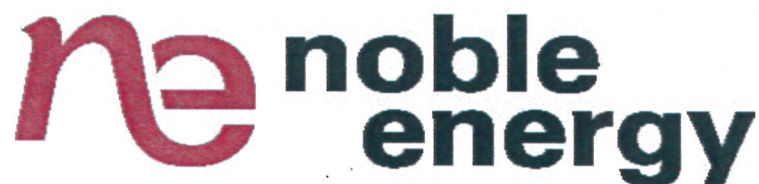
**Ehrlich N35-32D**

**Wellbore #1**

**Plan: Plan #1 (06-11-09)**

### **Standard Planning Report**

**01 July, 2009**





<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Ehrlich N35-32D
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Project:</b>	SEC.34-T5N-R67W	<b>MD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Site:</b>	Ehrlich N34-24D Pad Sec.34-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Ehrlich N35-32D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (06-11-09)		

<b>Project</b>	SEC.34-T5N-R67W, Weld County, Colorado		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		Ehrlich N34-24D Pad Sec.34-T5N-R67W			
Site Position:		Northing:	1,373,805.83 ft	Latitude:	40° 21' 28.206 N
From:	Lat/Long	Easting:	3,173,055.51 ft	Longitude:	104° 52' 44.472 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.40 °

Well	Ehrlich N35-32D					
Well Position	+N/-S	-1.5 ft	Northing:	1,373,805.26 ft	Latitude:	40° 21' 28.191 N
	+E/-W	127.9 ft	Easting:	3,173,183.44 ft	Longitude:	104° 52' 42.820 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,863.0 ft

<b>Wellbore</b>	Wellbore #1				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/11/2009	9.16	67.07	53,327

<b>Design</b>	Plan #1 (06-11-09)			
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<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	106.28

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	
1,616.4	24.33	106.28	1,580.2	-71.3	244.2	2.00	2.00	0.00	106.28	
5,845.3	24.33	106.28	5,433.5	-559.8	1,916.5	0.00	0.00	0.00	0.00	
7,278.1	10.00	106.28	6,799.0	-678.0	2,321.3	1.00	-1.00	0.00	180.00	NIOBRARA TARGE
7,772.6	10.00	106.28	7,286.0	-702.1	2,403.7	0.00	0.00	0.00	0.00	



Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well Ehrlich N35-32D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4876.0ft (Original Well Elev)
Project:	SEC.34-T5N-R67W	MD Reference:	WELL @ 4876.0ft (Original Well Elev)
Site:	Ehrlich N34-24D Pad Sec.34-T5N-R67W	North Reference:	True
Well:	Ehrlich N35-32D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-11-09)		

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	106.28	440.0	-0.1	0.3	0.3	2.00	2.00	0.00
480.0	1.60	106.28	480.0	-0.3	1.1	1.1	2.00	2.00	0.00
520.0	2.40	106.28	520.0	-0.7	2.4	2.5	2.00	2.00	0.00
560.0	3.20	106.28	559.9	-1.3	4.3	4.5	2.00	2.00	0.00
600.0	4.00	106.28	599.8	-2.0	6.7	7.0	2.00	2.00	0.00
640.0	4.80	106.28	639.7	-2.8	9.6	10.0	2.00	2.00	0.00
680.0	5.60	106.28	679.6	-3.8	13.1	13.7	2.00	2.00	0.00
720.0	6.40	106.28	719.3	-5.0	17.1	17.9	2.00	2.00	0.00
760.0	7.20	106.28	759.1	-6.3	21.7	22.6	2.00	2.00	0.00
800.0	8.00	106.28	798.7	-7.8	26.8	27.9	2.00	2.00	0.00
840.0	8.80	106.28	838.3	-9.5	32.4	33.7	2.00	2.00	0.00
880.0	9.60	106.28	877.8	-11.2	38.5	40.1	2.00	2.00	0.00
920.0	10.40	106.28	917.1	-13.2	45.2	47.1	2.00	2.00	0.00
960.0	11.20	106.28	956.4	-15.3	52.4	54.6	2.00	2.00	0.00
1,000.0	12.00	106.28	995.6	-17.6	60.1	62.6	2.00	2.00	0.00
1,040.0	12.80	106.28	1,034.7	-20.0	68.3	71.2	2.00	2.00	0.00
1,080.0	13.60	106.28	1,073.6	-22.5	77.1	80.3	2.00	2.00	0.00
1,120.0	14.40	106.28	1,112.4	-25.2	86.4	90.0	2.00	2.00	0.00
1,160.0	15.20	106.28	1,151.1	-28.1	96.2	100.2	2.00	2.00	0.00
1,200.0	16.00	106.28	1,189.6	-31.1	106.5	111.0	2.00	2.00	0.00
1,240.0	16.80	106.28	1,228.0	-34.3	117.4	122.3	2.00	2.00	0.00
1,280.0	17.60	106.28	1,266.2	-37.6	128.7	134.1	2.00	2.00	0.00
1,320.0	18.40	106.28	1,304.3	-41.1	140.6	146.5	2.00	2.00	0.00
1,360.0	19.20	106.28	1,342.1	-44.7	153.0	159.3	2.00	2.00	0.00
1,400.0	20.00	106.28	1,379.8	-48.4	165.8	172.8	2.00	2.00	0.00
1,440.0	20.80	106.28	1,417.3	-52.3	179.2	186.7	2.00	2.00	0.00
1,480.0	21.60	106.28	1,454.6	-56.4	193.1	201.2	2.00	2.00	0.00
1,520.0	22.40	106.28	1,491.7	-60.6	207.5	216.2	2.00	2.00	0.00
1,560.0	23.20	106.28	1,528.6	-64.9	222.4	231.7	2.00	2.00	0.00
1,600.0	24.00	106.28	1,565.2	-69.4	237.7	247.7	2.00	2.00	0.00
1,616.4	24.33	106.28	1,580.2	-71.3	244.2	254.4	2.00	2.00	0.00
1,640.0	24.33	106.28	1,601.7	-74.0	253.5	264.1	0.00	0.00	0.00
1,680.0	24.33	106.28	1,638.1	-78.7	269.3	280.6	0.00	0.00	0.00
1,720.0	24.33	106.28	1,674.6	-83.3	285.2	297.1	0.00	0.00	0.00
1,760.0	24.33	106.28	1,711.0	-87.9	301.0	313.5	0.00	0.00	0.00
1,800.0	24.33	106.28	1,747.5	-92.5	316.8	330.0	0.00	0.00	0.00
1,840.0	24.33	106.28	1,783.9	-97.1	332.6	346.5	0.00	0.00	0.00
1,880.0	24.33	106.28	1,820.4	-101.8	348.4	363.0	0.00	0.00	0.00
1,920.0	24.33	106.28	1,856.8	-106.4	364.2	379.5	0.00	0.00	0.00
1,960.0	24.33	106.28	1,893.3	-111.0	380.1	395.9	0.00	0.00	0.00
2,000.0	24.33	106.28	1,929.7	-115.6	395.9	412.4	0.00	0.00	0.00
2,040.0	24.33	106.28	1,966.2	-120.2	411.7	428.9	0.00	0.00	0.00
2,080.0	24.33	106.28	2,002.6	-124.9	427.5	445.4	0.00	0.00	0.00



Database:	EDM den0-adp01 Server Data	Local Co-ordinate Reference:	Well Ehrlich N35-32D
Company:	NOBLE ENERGY INC WELD COUNTY CO	TVD Reference:	WELL @ 4876.0ft (Original Well Elev)
Project:	SEC.34-T5N-R67W	MD Reference:	WELL @ 4876.0ft (Original Well Elev)
Site:	Ehrlich N34-24D Pad Sec.34-T5N-R67W	North Reference:	True
Well:	Ehrlich N35-32D	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1 (06-11-09)		

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)
2,120.0	24.33	106.28	2,039.1	-129.5	443.3	461.9	0.00	0.00	0.00
2,160.0	24.33	106.28	2,075.5	-134.1	459.1	478.3	0.00	0.00	0.00
2,200.0	24.33	106.28	2,112.0	-138.7	475.0	494.8	0.00	0.00	0.00
2,240.0	24.33	106.28	2,148.4	-143.3	490.8	511.3	0.00	0.00	0.00
2,280.0	24.33	106.28	2,184.8	-148.0	506.6	527.8	0.00	0.00	0.00
2,320.0	24.33	106.28	2,221.3	-152.6	522.4	544.2	0.00	0.00	0.00
2,360.0	24.33	106.28	2,257.7	-157.2	538.2	560.7	0.00	0.00	0.00
2,400.0	24.33	106.28	2,294.2	-161.8	554.1	577.2	0.00	0.00	0.00
2,440.0	24.33	106.28	2,330.6	-166.4	569.9	593.7	0.00	0.00	0.00
2,480.0	24.33	106.28	2,367.1	-171.1	585.7	610.2	0.00	0.00	0.00
2,520.0	24.33	106.28	2,403.5	-175.7	601.5	626.6	0.00	0.00	0.00
2,560.0	24.33	106.28	2,440.0	-180.3	617.3	643.1	0.00	0.00	0.00
2,600.0	24.33	106.28	2,476.4	-184.9	633.1	659.6	0.00	0.00	0.00
2,640.0	24.33	106.28	2,512.9	-189.5	649.0	676.1	0.00	0.00	0.00
2,680.0	24.33	106.28	2,549.3	-194.2	664.8	692.6	0.00	0.00	0.00
2,720.0	24.33	106.28	2,585.8	-198.8	680.6	709.0	0.00	0.00	0.00
2,760.0	24.33	106.28	2,622.2	-203.4	696.4	725.5	0.00	0.00	0.00
2,800.0	24.33	106.28	2,658.7	-208.0	712.2	742.0	0.00	0.00	0.00
2,840.0	24.33	106.28	2,695.1	-212.6	728.0	758.5	0.00	0.00	0.00
2,880.0	24.33	106.28	2,731.6	-217.3	743.9	774.9	0.00	0.00	0.00
2,920.0	24.33	106.28	2,768.0	-221.9	759.7	791.4	0.00	0.00	0.00
2,960.0	24.33	106.28	2,804.5	-226.5	775.5	807.9	0.00	0.00	0.00
3,000.0	24.33	106.28	2,840.9	-231.1	791.3	824.4	0.00	0.00	0.00
3,040.0	24.33	106.28	2,877.4	-235.7	807.1	840.9	0.00	0.00	0.00
3,080.0	24.33	106.28	2,913.8	-240.4	823.0	857.3	0.00	0.00	0.00
3,120.0	24.33	106.28	2,950.3	-245.0	838.8	873.8	0.00	0.00	0.00
3,160.0	24.33	106.28	2,986.7	-249.6	854.6	890.3	0.00	0.00	0.00
3,200.0	24.33	106.28	3,023.2	-254.2	870.4	906.8	0.00	0.00	0.00
3,240.0	24.33	106.28	3,059.6	-258.8	886.2	923.3	0.00	0.00	0.00
3,280.0	24.33	106.28	3,096.0	-263.5	902.0	939.7	0.00	0.00	0.00
3,320.0	24.33	106.28	3,132.5	-268.1	917.9	956.2	0.00	0.00	0.00
3,360.0	24.33	106.28	3,168.9	-272.7	933.7	972.7	0.00	0.00	0.00
3,400.0	24.33	106.28	3,205.4	-277.3	949.5	989.2	0.00	0.00	0.00
3,440.0	24.33	106.28	3,241.8	-281.9	965.3	1,005.6	0.00	0.00	0.00
3,480.0	24.33	106.28	3,278.3	-286.6	981.1	1,022.1	0.00	0.00	0.00
3,520.0	24.33	106.28	3,314.7	-291.2	996.9	1,038.6	0.00	0.00	0.00
3,560.0	24.33	106.28	3,351.2	-295.8	1,012.8	1,055.1	0.00	0.00	0.00
3,600.0	24.33	106.28	3,387.6	-300.4	1,028.6	1,071.6	0.00	0.00	0.00
3,640.0	24.33	106.28	3,424.1	-305.0	1,044.4	1,088.0	0.00	0.00	0.00
3,680.0	24.33	106.28	3,460.5	-309.7	1,060.2	1,104.5	0.00	0.00	0.00
3,720.0	24.33	106.28	3,497.0	-314.3	1,076.0	1,121.0	0.00	0.00	0.00
3,760.0	24.33	106.28	3,533.4	-318.9	1,091.9	1,137.5	0.00	0.00	0.00
3,800.0	24.33	106.28	3,569.9	-323.5	1,107.7	1,154.0	0.00	0.00	0.00
3,840.0	24.33	106.28	3,606.3	-328.1	1,123.5	1,170.4	0.00	0.00	0.00
3,880.0	24.33	106.28	3,642.8	-332.8	1,139.3	1,186.9	0.00	0.00	0.00
3,920.0	24.33	106.28	3,679.2	-337.4	1,155.1	1,203.4	0.00	0.00	0.00
3,960.0	24.33	106.28	3,715.7	-342.0	1,170.9	1,219.9	0.00	0.00	0.00
4,000.0	24.33	106.28	3,752.1	-346.6	1,186.8	1,236.3	0.00	0.00	0.00
4,040.0	24.33	106.28	3,788.6	-351.2	1,202.6	1,252.8	0.00	0.00	0.00
4,080.0	24.33	106.28	3,825.0	-355.9	1,218.4	1,269.3	0.00	0.00	0.00
4,120.0	24.33	106.28	3,861.5	-360.5	1,234.2	1,285.8	0.00	0.00	0.00
4,160.0	24.33	106.28	3,897.9	-365.1	1,250.0	1,302.3	0.00	0.00	0.00
4,200.0	24.33	106.28	3,934.4	-369.7	1,265.9	1,318.7	0.00	0.00	0.00
4,240.0	24.33	106.28	3,970.8	-374.3	1,281.7	1,335.2	0.00	0.00	0.00



<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Ehrlich N35-32D
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Project:</b>	SEC.34-T5N-R67W	<b>MD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Site:</b>	Ehrlich N34-24D Pad Sec.34-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Ehrlich N35-32D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (06-11-09)		

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)
4,280.0	24.33	106.28	4,007.2	-379.0	1,297.5	1,351.7	0.00	0.00	0.00
4,320.0	24.33	106.28	4,043.7	-383.6	1,313.3	1,368.2	0.00	0.00	0.00
4,360.0	24.33	106.28	4,080.1	-388.2	1,329.1	1,384.7	0.00	0.00	0.00
4,400.0	24.33	106.28	4,116.6	-392.8	1,344.9	1,401.1	0.00	0.00	0.00
4,440.0	24.33	106.28	4,153.0	-397.4	1,360.8	1,417.6	0.00	0.00	0.00
4,480.0	24.33	106.28	4,189.5	-402.1	1,376.6	1,434.1	0.00	0.00	0.00
4,520.0	24.33	106.28	4,225.9	-406.7	1,392.4	1,450.6	0.00	0.00	0.00
4,560.0	24.33	106.28	4,262.4	-411.3	1,408.2	1,467.0	0.00	0.00	0.00
4,600.0	24.33	106.28	4,298.8	-415.9	1,424.0	1,483.5	0.00	0.00	0.00
4,640.0	24.33	106.28	4,335.3	-420.5	1,439.8	1,500.0	0.00	0.00	0.00
4,680.0	24.33	106.28	4,371.7	-425.2	1,455.7	1,516.5	0.00	0.00	0.00
4,720.0	24.33	106.28	4,408.2	-429.8	1,471.5	1,533.0	0.00	0.00	0.00
4,760.0	24.33	106.28	4,444.6	-434.4	1,487.3	1,549.4	0.00	0.00	0.00
4,800.0	24.33	106.28	4,481.1	-439.0	1,503.1	1,565.9	0.00	0.00	0.00
4,840.0	24.33	106.28	4,517.5	-443.6	1,518.9	1,582.4	0.00	0.00	0.00
4,880.0	24.33	106.28	4,554.0	-448.3	1,534.8	1,598.9	0.00	0.00	0.00
4,920.0	24.33	106.28	4,590.4	-452.9	1,550.6	1,615.4	0.00	0.00	0.00
4,960.0	24.33	106.28	4,626.9	-457.5	1,566.4	1,631.8	0.00	0.00	0.00
5,000.0	24.33	106.28	4,663.3	-462.1	1,582.2	1,648.3	0.00	0.00	0.00
5,040.0	24.33	106.28	4,699.8	-466.7	1,598.0	1,664.8	0.00	0.00	0.00
5,080.0	24.33	106.28	4,736.2	-471.4	1,613.8	1,681.3	0.00	0.00	0.00
5,120.0	24.33	106.28	4,772.7	-476.0	1,629.7	1,697.7	0.00	0.00	0.00
5,160.0	24.33	106.28	4,809.1	-480.6	1,645.5	1,714.2	0.00	0.00	0.00
5,200.0	24.33	106.28	4,845.6	-485.2	1,661.3	1,730.7	0.00	0.00	0.00
5,240.0	24.33	106.28	4,882.0	-489.8	1,677.1	1,747.2	0.00	0.00	0.00
5,280.0	24.33	106.28	4,918.4	-494.5	1,692.9	1,763.7	0.00	0.00	0.00
5,320.0	24.33	106.28	4,954.9	-499.1	1,708.7	1,780.1	0.00	0.00	0.00
5,360.0	24.33	106.28	4,991.3	-503.7	1,724.6	1,796.6	0.00	0.00	0.00
5,400.0	24.33	106.28	5,027.8	-508.3	1,740.4	1,813.1	0.00	0.00	0.00
5,440.0	24.33	106.28	5,064.2	-512.9	1,756.2	1,829.6	0.00	0.00	0.00
5,480.0	24.33	106.28	5,100.7	-517.6	1,772.0	1,846.1	0.00	0.00	0.00
5,520.0	24.33	106.28	5,137.1	-522.2	1,787.8	1,862.5	0.00	0.00	0.00
5,560.0	24.33	106.28	5,173.6	-526.8	1,803.7	1,879.0	0.00	0.00	0.00
5,600.0	24.33	106.28	5,210.0	-531.4	1,819.5	1,895.5	0.00	0.00	0.00
5,640.0	24.33	106.28	5,246.5	-536.0	1,835.3	1,912.0	0.00	0.00	0.00
5,680.0	24.33	106.28	5,282.9	-540.7	1,851.1	1,928.4	0.00	0.00	0.00
5,720.0	24.33	106.28	5,319.4	-545.3	1,866.9	1,944.9	0.00	0.00	0.00
5,760.0	24.33	106.28	5,355.8	-549.9	1,882.7	1,961.4	0.00	0.00	0.00
5,800.0	24.33	106.28	5,392.3	-554.5	1,898.6	1,977.9	0.00	0.00	0.00
5,840.0	24.33	106.28	5,428.7	-559.1	1,914.4	1,994.4	0.00	0.00	0.00
5,845.3	24.33	106.28	5,433.5	-559.8	1,916.5	1,996.5	0.00	0.00	0.00
5,880.0	23.98	106.28	5,465.2	-563.7	1,930.1	2,010.7	1.00	-1.00	0.00
5,920.0	23.58	106.28	5,501.8	-568.3	1,945.6	2,026.9	1.00	-1.00	0.00
5,960.0	23.18	106.28	5,538.5	-572.7	1,960.8	2,042.8	1.00	-1.00	0.00
6,000.0	22.78	106.28	5,575.4	-577.1	1,975.8	2,058.4	1.00	-1.00	0.00
6,040.0	22.38	106.28	5,612.3	-581.4	1,990.6	2,073.7	1.00	-1.00	0.00
6,080.0	21.98	106.28	5,649.3	-585.6	2,005.1	2,088.8	1.00	-1.00	0.00
6,120.0	21.58	106.28	5,686.5	-589.8	2,019.3	2,103.7	1.00	-1.00	0.00
6,160.0	21.18	106.28	5,723.7	-593.9	2,033.3	2,118.3	1.00	-1.00	0.00
6,200.0	20.78	106.28	5,761.1	-597.9	2,047.0	2,132.6	1.00	-1.00	0.00
6,240.0	20.38	106.28	5,798.5	-601.8	2,060.5	2,146.6	1.00	-1.00	0.00
6,280.0	19.98	106.28	5,836.1	-605.7	2,073.8	2,160.4	1.00	-1.00	0.00
6,320.0	19.58	106.28	5,873.7	-609.5	2,086.8	2,174.0	1.00	-1.00	0.00
6,360.0	19.18	106.28	5,911.4	-613.2	2,099.5	2,187.2	1.00	-1.00	0.00



<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Ehrlich N35-32D
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Project:</b>	SEC.34-T5N-R67W	<b>MD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Site:</b>	Ehrlich N34-24D Pad Sec.34-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Ehrlich N35-32D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (06-11-09)		

**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)
6,400.0	18.78	106.28	5,949.3	-616.9	2,112.0	2,200.3	1.00	-1.00	0.00
6,440.0	18.38	106.28	5,987.2	-620.4	2,124.2	2,213.0	1.00	-1.00	0.00
6,480.0	17.98	106.28	6,025.2	-623.9	2,136.2	2,225.5	1.00	-1.00	0.00
6,520.0	17.58	106.28	6,063.3	-627.4	2,148.0	2,237.7	1.00	-1.00	0.00
6,560.0	17.18	106.28	6,101.4	-630.7	2,159.4	2,249.7	1.00	-1.00	0.00
6,600.0	16.78	106.28	6,139.7	-634.0	2,170.6	2,261.3	1.00	-1.00	0.00
6,640.0	16.38	106.28	6,178.0	-637.2	2,181.6	2,272.7	1.00	-1.00	0.00
6,680.0	15.98	106.28	6,216.4	-640.3	2,192.3	2,283.9	1.00	-1.00	0.00
6,720.0	15.58	106.28	6,254.9	-643.4	2,202.7	2,294.8	1.00	-1.00	0.00
6,760.0	15.18	106.28	6,293.5	-646.3	2,212.9	2,305.4	1.00	-1.00	0.00
6,800.0	14.78	106.28	6,332.1	-649.2	2,222.8	2,315.7	1.00	-1.00	0.00
6,840.0	14.38	106.28	6,370.9	-652.1	2,232.5	2,325.8	1.00	-1.00	0.00
6,880.0	13.98	106.28	6,409.6	-654.8	2,241.9	2,335.6	1.00	-1.00	0.00
6,920.0	13.58	106.28	6,448.5	-657.5	2,251.1	2,345.1	1.00	-1.00	0.00
6,960.0	13.18	106.28	6,487.4	-660.1	2,260.0	2,354.4	1.00	-1.00	0.00
7,000.0	12.78	106.28	6,526.4	-662.6	2,268.6	2,363.4	1.00	-1.00	0.00
7,040.0	12.38	106.28	6,565.4	-665.0	2,276.9	2,372.1	1.00	-1.00	0.00
7,080.0	11.98	106.28	6,604.5	-667.4	2,285.0	2,380.5	1.00	-1.00	0.00
7,120.0	11.58	106.28	6,643.7	-669.7	2,292.9	2,388.7	1.00	-1.00	0.00
7,160.0	11.18	106.28	6,682.9	-671.9	2,300.5	2,396.6	1.00	-1.00	0.00
7,200.0	10.78	106.28	6,722.2	-674.0	2,307.8	2,404.2	1.00	-1.00	0.00
7,240.0	10.38	106.28	6,761.5	-676.1	2,314.8	2,411.5	1.00	-1.00	0.00
7,278.1	10.00	106.28	6,799.0	-678.0	2,321.3	2,418.3	1.00	-1.00	0.00
<b>NIORARA - NIOBRARA TARGET BHL 2570'FSL, 158'FEL</b>									
7,280.0	10.00	106.28	6,800.8	-678.1	2,321.6	2,418.6	0.00	0.00	0.00
7,320.0	10.00	106.28	6,840.2	-680.0	2,328.3	2,425.6	0.00	0.00	0.00
7,360.0	10.00	106.28	6,879.6	-682.0	2,334.9	2,432.5	0.00	0.00	0.00
7,400.0	10.00	106.28	6,919.0	-683.9	2,341.6	2,439.5	0.00	0.00	0.00
7,440.0	10.00	106.28	6,958.4	-685.9	2,348.3	2,446.4	0.00	0.00	0.00
7,480.0	10.00	106.28	6,997.8	-687.8	2,354.9	2,453.3	0.00	0.00	0.00
7,520.0	10.00	106.28	7,037.2	-689.8	2,361.6	2,460.3	0.00	0.00	0.00
7,560.0	10.00	106.28	7,076.6	-691.7	2,368.3	2,467.2	0.00	0.00	0.00
7,600.0	10.00	106.28	7,116.0	-693.7	2,375.0	2,474.2	0.00	0.00	0.00
7,620.3	10.00	106.28	7,136.0	-694.7	2,378.3	2,477.7	0.00	0.00	0.00
<b>CODELL</b>									
7,640.0	10.00	106.28	7,155.4	-695.6	2,381.6	2,481.1	0.00	0.00	0.00
7,680.0	10.00	106.28	7,194.8	-697.6	2,388.3	2,488.1	0.00	0.00	0.00
7,720.0	10.00	106.28	7,234.2	-699.5	2,395.0	2,495.0	0.00	0.00	0.00
7,760.0	10.00	106.28	7,273.6	-701.5	2,401.6	2,502.0	0.00	0.00	0.00
7,772.6	10.00	106.28	7,286.0	-702.1	2,403.7	2,504.2	0.00	0.00	0.00
<b>HARDLINE 75'N &amp; 89'E OF BHL</b>									

<b>Database:</b>	EDM den0-adp01 Server Data	<b>Local Co-ordinate Reference:</b>	Well Ehrlich N35-32D
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Project:</b>	SEC.34-T5N-R67W	<b>MD Reference:</b>	WELL @ 4876.0ft (Original Well Elev)
<b>Site:</b>	Ehrlich N34-24D Pad Sec.34-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Ehrlich N35-32D	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan #1 (06-11-09)		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NIOBRARA TARGET	0.00	0.00	6,799.0	-678.0	2,321.3	1,373,143.57	3,175,509.33	40° 21' 21.491 N	104° 52' 12.835 W
- plan hits target center									
- Point									
HARDLINE 75°N & 89	0.00	0.00	7,286.0	-603.0	2,479.3	1,373,219.68	3,175,666.79	40° 21' 22.232 N	104° 52' 10.794 W
- plan misses target center by 124.6ft at 7772.6ft MD (7286.0 TVD, -702.1 N, 2403.7 E)									
- Polygon									
Point 1			7,286.0	0.0	0.0	1,373,219.68	3,175,666.79		
Point 2			7,286.0	0.0	-200.0	1,373,218.27	3,175,466.81		
Point 3			7,286.0	0.0	0.0	1,373,219.68	3,175,666.79		
Point 4			7,286.0	-200.0	0.0	1,373,019.69	3,175,668.20		

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
7,278.1	6,799.0	NIOBRARA		0.00		
7,620.3	7,136.0	CODELL		0.00		