

# ENSIGN

## Directional

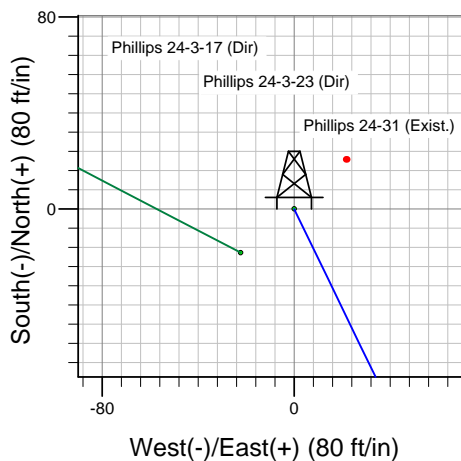
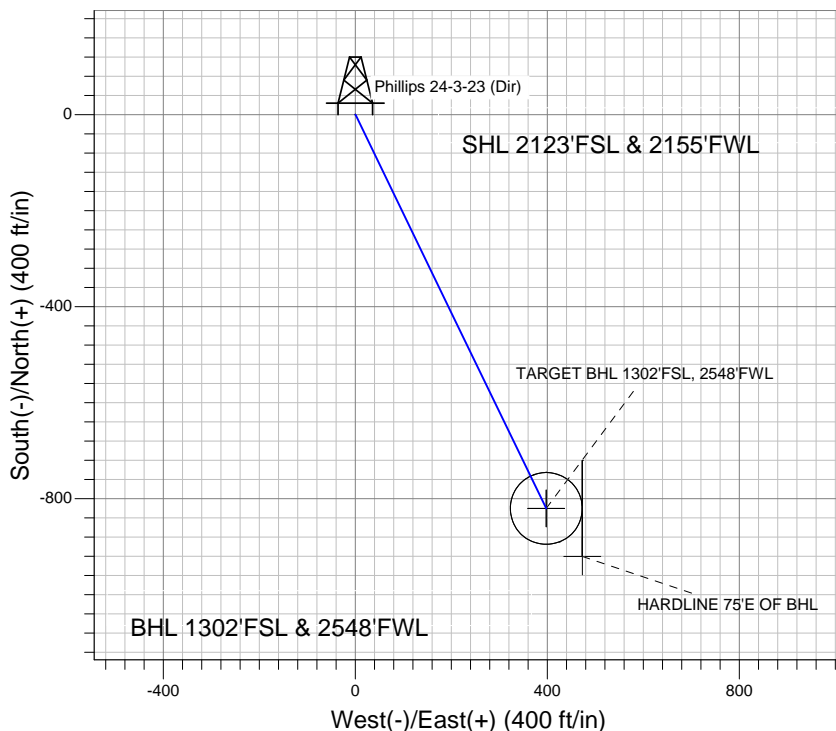
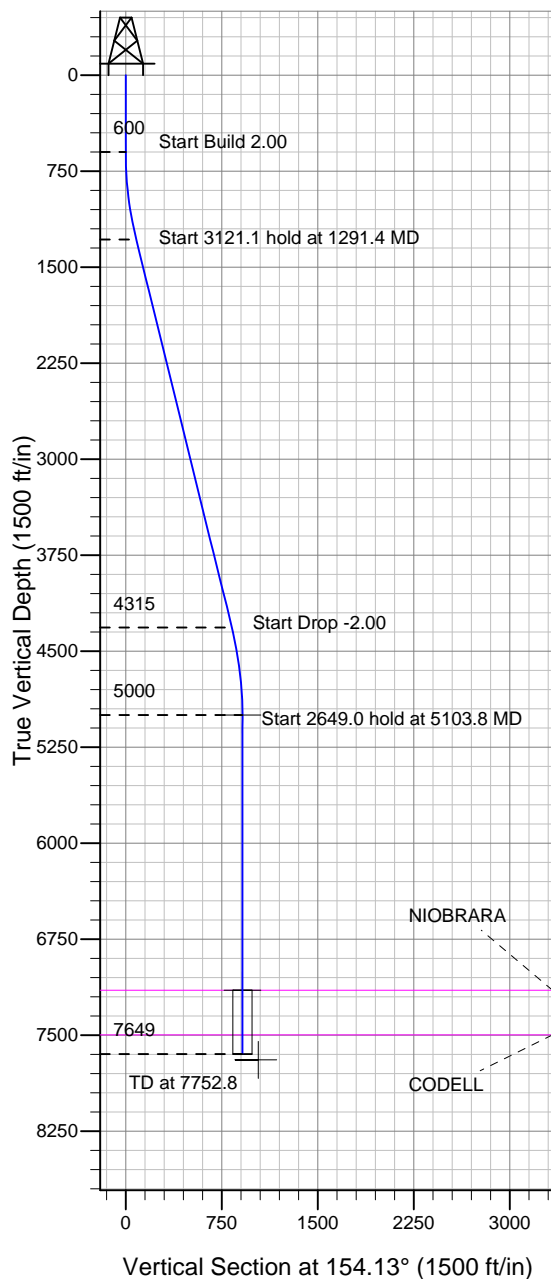
Well Name: **Phillips 24-3-23 (Dir)**

Surface Location: Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W  
North American Datum 1983, US State Plane 1983 Colorado Northern Zone  
Ground Elevation: 4996.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1383285.36	3182965.23	40° 23' 1.176 N	104° 50' 35.556 W	

Original Well EleWELL @ 5009.0ft (Original Well Elev)

### NOBLE ENERGY INC WELD COUNTY CO



Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W  
Phillips 24-3-23 (Dir)  
Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)  
6:49, September 20 2010



Azimuths to True North  
Magnetic North: 9.00°  
Magnetic Field  
Strength: 53191.3snT  
Dip Angle: 67.05°  
Date: 9/17/2010  
Model: IGRF2010

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
TARGET BHL 1302'FSL, 2548'FWL	5000.0	-820.6	397.9	40° 22' 53.067 N	104° 50' 30.414 W	Point
TARGET CIRCLE 1302'FSL, 2548'FWL	7149.0	-820.6	397.9	40° 22' 53.067 N	104° 50' 30.414 W	Circle (Radius: 75.0)
HARDLINE 75°E OF BHL	7694.0	-920.6	472.9	40° 22' 52.079 N	104° 50' 29.445 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	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	1291.4	13.83	154.13	1284.7	-74.7	36.2	2.00	154.13	83.0	
4	4412.5	13.83	154.13	4315.3	-745.9	361.7	0.00	0.00	829.0	
5	5103.8	0.00	0.00	5000.0	-820.6	397.9	2.00	180.00	912.0	TARGET BHL 1302'FSL, 2548'FWL
6	7752.8	0.00	0.00	7649.0	-820.6	397.9	0.00	0.00	912.0	



## **Directional**

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

**SEC.24-T5N-R67W**

**Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W**

**Phillips 24-3-23 (Dir)**

**Wellbore #1**

**Plan: Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)**

### **Standard Planning Report**

**20 September, 2010**



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

<b>Project</b>	SEC.24-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 Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W					
Site Position:		Northing:	1,383,285.38 ft	Latitude:	40° 23' 1.176 N
From:	Lat/Long	Easting:	3,182,965.23 ft	Longitude:	104° 50' 35.556 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.42 °

Well	Phillips 24-3-23 (Dir)					
Well Position	+N-S	0.0 ft	Northing:	1,383,285.36 ft	Latitude:	40° 23' 1.176 N
	+E-W	0.0 ft	Easting:	3,182,965.23 ft	Longitude:	104° 50' 35.556 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,996.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	9/17/2010	9.01	67.05	53,191

<b>Design</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)			
<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	154.13

<b>Plan Sections</b>										
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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,291.4	13.83	154.13	1,284.7	-74.7	36.2	2.00	2.00	0.00	154.13	
4,412.5	13.83	154.13	4,315.3	-745.9	361.7	0.00	0.00	0.00	0.00	
5,103.8	0.00	0.00	5,000.0	-820.6	397.9	2.00	-2.00	0.00	180.00	TARGET BHL 1302
7,752.8	0.00	0.00	7,649.0	-820.6	397.9	0.00	0.00	0.00	0.00	

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

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	0.00	0.00	440.0	0.0	0.0	0.0	0.00	0.00	0.00
480.0	0.00	0.00	480.0	0.0	0.0	0.0	0.00	0.00	0.00
520.0	0.00	0.00	520.0	0.0	0.0	0.0	0.00	0.00	0.00
560.0	0.00	0.00	560.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
640.0	0.80	154.13	640.0	-0.3	0.1	0.3	2.00	2.00	0.00
680.0	1.60	154.13	680.0	-1.0	0.5	1.1	2.00	2.00	0.00
720.0	2.40	154.13	720.0	-2.3	1.1	2.5	2.00	2.00	0.00
760.0	3.20	154.13	759.9	-4.0	1.9	4.5	2.00	2.00	0.00
800.0	4.00	154.13	799.8	-6.3	3.0	7.0	2.00	2.00	0.00
840.0	4.80	154.13	839.7	-9.0	4.4	10.0	2.00	2.00	0.00
880.0	5.60	154.13	879.6	-12.3	6.0	13.7	2.00	2.00	0.00
920.0	6.40	154.13	919.3	-16.1	7.8	17.9	2.00	2.00	0.00
960.0	7.20	154.13	959.1	-20.3	9.9	22.6	2.00	2.00	0.00
1,000.0	8.00	154.13	998.7	-25.1	12.2	27.9	2.00	2.00	0.00
1,040.0	8.80	154.13	1,038.3	-30.3	14.7	33.7	2.00	2.00	0.00
1,080.0	9.60	154.13	1,077.8	-36.1	17.5	40.1	2.00	2.00	0.00
1,120.0	10.40	154.13	1,117.1	-42.3	20.5	47.1	2.00	2.00	0.00
1,160.0	11.20	154.13	1,156.4	-49.1	23.8	54.6	2.00	2.00	0.00
1,200.0	12.00	154.13	1,195.6	-56.3	27.3	62.6	2.00	2.00	0.00
1,240.0	12.80	154.13	1,234.7	-64.1	31.1	71.2	2.00	2.00	0.00
1,280.0	13.60	154.13	1,273.6	-72.3	35.0	80.3	2.00	2.00	0.00
1,291.4	13.83	154.13	1,284.7	-74.7	36.2	83.0	2.00	2.00	0.00
1,320.0	13.83	154.13	1,312.5	-80.9	39.2	89.9	0.00	0.00	0.00
1,360.0	13.83	154.13	1,351.3	-89.5	43.4	99.4	0.00	0.00	0.00
1,400.0	13.83	154.13	1,390.2	-98.1	47.6	109.0	0.00	0.00	0.00
1,440.0	13.83	154.13	1,429.0	-106.7	51.7	118.5	0.00	0.00	0.00
1,480.0	13.83	154.13	1,467.8	-115.3	55.9	128.1	0.00	0.00	0.00
1,520.0	13.83	154.13	1,506.7	-123.9	60.1	137.7	0.00	0.00	0.00
1,560.0	13.83	154.13	1,545.5	-132.5	64.2	147.2	0.00	0.00	0.00
1,600.0	13.83	154.13	1,584.4	-141.1	68.4	156.8	0.00	0.00	0.00
1,640.0	13.83	154.13	1,623.2	-149.7	72.6	166.3	0.00	0.00	0.00
1,680.0	13.83	154.13	1,662.0	-158.3	76.8	175.9	0.00	0.00	0.00
1,720.0	13.83	154.13	1,700.9	-166.9	80.9	185.5	0.00	0.00	0.00
1,760.0	13.83	154.13	1,739.7	-175.5	85.1	195.0	0.00	0.00	0.00
1,800.0	13.83	154.13	1,778.6	-184.1	89.3	204.6	0.00	0.00	0.00
1,840.0	13.83	154.13	1,817.4	-192.7	93.4	214.1	0.00	0.00	0.00
1,880.0	13.83	154.13	1,856.2	-201.3	97.6	223.7	0.00	0.00	0.00
1,920.0	13.83	154.13	1,895.1	-209.9	101.8	233.3	0.00	0.00	0.00
1,960.0	13.83	154.13	1,933.9	-218.5	106.0	242.8	0.00	0.00	0.00
2,000.0	13.83	154.13	1,972.8	-227.1	110.1	252.4	0.00	0.00	0.00
2,040.0	13.83	154.13	2,011.6	-235.7	114.3	261.9	0.00	0.00	0.00
2,080.0	13.83	154.13	2,050.5	-244.3	118.5	271.5	0.00	0.00	0.00

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<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

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	13.83	154.13	2,089.3	-252.9	122.6	281.1	0.00	0.00	0.00
2,160.0	13.83	154.13	2,128.1	-261.5	126.8	290.6	0.00	0.00	0.00
2,200.0	13.83	154.13	2,167.0	-270.1	131.0	300.2	0.00	0.00	0.00
2,240.0	13.83	154.13	2,205.8	-278.7	135.2	309.7	0.00	0.00	0.00
2,280.0	13.83	154.13	2,244.7	-287.3	139.3	319.3	0.00	0.00	0.00
2,320.0	13.83	154.13	2,283.5	-295.9	143.5	328.9	0.00	0.00	0.00
2,360.0	13.83	154.13	2,322.3	-304.5	147.7	338.4	0.00	0.00	0.00
2,400.0	13.83	154.13	2,361.2	-313.1	151.8	348.0	0.00	0.00	0.00
2,440.0	13.83	154.13	2,400.0	-321.7	156.0	357.5	0.00	0.00	0.00
2,480.0	13.83	154.13	2,438.9	-330.3	160.2	367.1	0.00	0.00	0.00
2,520.0	13.83	154.13	2,477.7	-338.9	164.4	376.7	0.00	0.00	0.00
2,560.0	13.83	154.13	2,516.5	-347.5	168.5	386.2	0.00	0.00	0.00
2,600.0	13.83	154.13	2,555.4	-356.1	172.7	395.8	0.00	0.00	0.00
2,640.0	13.83	154.13	2,594.2	-364.7	176.9	405.3	0.00	0.00	0.00
2,680.0	13.83	154.13	2,633.1	-373.3	181.0	414.9	0.00	0.00	0.00
2,720.0	13.83	154.13	2,671.9	-381.9	185.2	424.5	0.00	0.00	0.00
2,760.0	13.83	154.13	2,710.7	-390.5	189.4	434.0	0.00	0.00	0.00
2,800.0	13.83	154.13	2,749.6	-399.1	193.6	443.6	0.00	0.00	0.00
2,840.0	13.83	154.13	2,788.4	-407.7	197.7	453.1	0.00	0.00	0.00
2,880.0	13.83	154.13	2,827.3	-416.3	201.9	462.7	0.00	0.00	0.00
2,920.0	13.83	154.13	2,866.1	-424.9	206.1	472.3	0.00	0.00	0.00
2,960.0	13.83	154.13	2,904.9	-433.5	210.2	481.8	0.00	0.00	0.00
3,000.0	13.83	154.13	2,943.8	-442.1	214.4	491.4	0.00	0.00	0.00
3,040.0	13.83	154.13	2,982.6	-450.7	218.6	500.9	0.00	0.00	0.00
3,080.0	13.83	154.13	3,021.5	-459.3	222.8	510.5	0.00	0.00	0.00
3,120.0	13.83	154.13	3,060.3	-467.9	226.9	520.1	0.00	0.00	0.00
3,160.0	13.83	154.13	3,099.2	-476.6	231.1	529.6	0.00	0.00	0.00
3,200.0	13.83	154.13	3,138.0	-485.2	235.3	539.2	0.00	0.00	0.00
3,240.0	13.83	154.13	3,176.8	-493.8	239.4	548.7	0.00	0.00	0.00
3,280.0	13.83	154.13	3,215.7	-502.4	243.6	558.3	0.00	0.00	0.00
3,320.0	13.83	154.13	3,254.5	-511.0	247.8	567.9	0.00	0.00	0.00
3,360.0	13.83	154.13	3,293.4	-519.6	252.0	577.4	0.00	0.00	0.00
3,400.0	13.83	154.13	3,332.2	-528.2	256.1	587.0	0.00	0.00	0.00
3,440.0	13.83	154.13	3,371.0	-536.8	260.3	596.5	0.00	0.00	0.00
3,480.0	13.83	154.13	3,409.9	-545.4	264.5	606.1	0.00	0.00	0.00
3,520.0	13.83	154.13	3,448.7	-554.0	268.6	615.7	0.00	0.00	0.00
3,560.0	13.83	154.13	3,487.6	-562.6	272.8	625.2	0.00	0.00	0.00
3,600.0	13.83	154.13	3,526.4	-571.2	277.0	634.8	0.00	0.00	0.00
3,640.0	13.83	154.13	3,565.2	-579.8	281.2	644.4	0.00	0.00	0.00
3,680.0	13.83	154.13	3,604.1	-588.4	285.3	653.9	0.00	0.00	0.00
3,720.0	13.83	154.13	3,642.9	-597.0	289.5	663.5	0.00	0.00	0.00
3,760.0	13.83	154.13	3,681.8	-605.6	293.7	673.0	0.00	0.00	0.00
3,800.0	13.83	154.13	3,720.6	-614.2	297.8	682.6	0.00	0.00	0.00
3,840.0	13.83	154.13	3,759.4	-622.8	302.0	692.2	0.00	0.00	0.00
3,880.0	13.83	154.13	3,798.3	-631.4	306.2	701.7	0.00	0.00	0.00
3,920.0	13.83	154.13	3,837.1	-640.0	310.4	711.3	0.00	0.00	0.00
3,960.0	13.83	154.13	3,876.0	-648.6	314.5	720.8	0.00	0.00	0.00
4,000.0	13.83	154.13	3,914.8	-657.2	318.7	730.4	0.00	0.00	0.00
4,040.0	13.83	154.13	3,953.7	-665.8	322.9	740.0	0.00	0.00	0.00
4,080.0	13.83	154.13	3,992.5	-674.4	327.0	749.5	0.00	0.00	0.00
4,120.0	13.83	154.13	4,031.3	-683.0	331.2	759.1	0.00	0.00	0.00
4,160.0	13.83	154.13	4,070.2	-691.6	335.4	768.6	0.00	0.00	0.00
4,200.0	13.83	154.13	4,109.0	-700.2	339.6	778.2	0.00	0.00	0.00
4,240.0	13.83	154.13	4,147.9	-708.8	343.7	787.8	0.00	0.00	0.00

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<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

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	13.83	154.13	4,186.7	-717.4	347.9	797.3	0.00	0.00	0.00
4,320.0	13.83	154.13	4,225.5	-726.0	352.1	806.9	0.00	0.00	0.00
4,360.0	13.83	154.13	4,264.4	-734.6	356.2	816.4	0.00	0.00	0.00
4,400.0	13.83	154.13	4,303.2	-743.2	360.4	826.0	0.00	0.00	0.00
4,412.5	13.83	154.13	4,315.3	-745.9	361.7	829.0	0.00	0.00	0.00
4,440.0	13.28	154.13	4,342.1	-751.7	364.5	835.4	2.00	-2.00	0.00
4,480.0	12.48	154.13	4,381.1	-759.7	368.4	844.3	2.00	-2.00	0.00
4,520.0	11.68	154.13	4,420.2	-767.3	372.1	852.7	2.00	-2.00	0.00
4,560.0	10.88	154.13	4,459.4	-774.3	375.5	860.5	2.00	-2.00	0.00
4,600.0	10.08	154.13	4,498.8	-780.8	378.7	867.8	2.00	-2.00	0.00
4,640.0	9.28	154.13	4,538.2	-786.9	381.6	874.5	2.00	-2.00	0.00
4,680.0	8.48	154.13	4,577.7	-792.4	384.3	880.7	2.00	-2.00	0.00
4,720.0	7.68	154.13	4,617.3	-797.5	386.7	886.3	2.00	-2.00	0.00
4,760.0	6.88	154.13	4,657.0	-802.1	388.9	891.4	2.00	-2.00	0.00
4,800.0	6.08	154.13	4,696.7	-806.1	390.9	895.9	2.00	-2.00	0.00
4,840.0	5.28	154.13	4,736.5	-809.7	392.6	899.9	2.00	-2.00	0.00
4,880.0	4.48	154.13	4,776.4	-812.7	394.1	903.3	2.00	-2.00	0.00
4,920.0	3.68	154.13	4,816.3	-815.3	395.4	906.1	2.00	-2.00	0.00
4,960.0	2.88	154.13	4,856.2	-817.3	396.4	908.4	2.00	-2.00	0.00
5,000.0	2.08	154.13	4,896.2	-818.9	397.1	910.1	2.00	-2.00	0.00
5,040.0	1.28	154.13	4,936.2	-820.0	397.6	911.3	2.00	-2.00	0.00
5,080.0	0.48	154.13	4,976.2	-820.5	397.9	911.9	2.00	-2.00	0.00
5,103.8	0.00	0.00	5,000.0	-820.6	397.9	912.0	2.00	-2.00	0.00
TARGET BHL 1302'FSL, 2548'FWL									
5,120.0	0.00	0.00	5,016.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,160.0	0.00	0.00	5,056.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,096.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,240.0	0.00	0.00	5,136.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,280.0	0.00	0.00	5,176.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,320.0	0.00	0.00	5,216.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,360.0	0.00	0.00	5,256.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,296.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,440.0	0.00	0.00	5,336.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,480.0	0.00	0.00	5,376.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,520.0	0.00	0.00	5,416.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,560.0	0.00	0.00	5,456.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,496.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,640.0	0.00	0.00	5,536.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,680.0	0.00	0.00	5,576.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,720.0	0.00	0.00	5,616.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,760.0	0.00	0.00	5,656.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,696.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,840.0	0.00	0.00	5,736.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,880.0	0.00	0.00	5,776.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,920.0	0.00	0.00	5,816.2	-820.6	397.9	912.0	0.00	0.00	0.00
5,960.0	0.00	0.00	5,856.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,896.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,040.0	0.00	0.00	5,936.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,080.0	0.00	0.00	5,976.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,120.0	0.00	0.00	6,016.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,160.0	0.00	0.00	6,056.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,096.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,240.0	0.00	0.00	6,136.2	-820.6	397.9	912.0	0.00	0.00	0.00

<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

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)
6,280.0	0.00	0.00	6,176.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,320.0	0.00	0.00	6,216.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,360.0	0.00	0.00	6,256.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,296.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,440.0	0.00	0.00	6,336.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,480.0	0.00	0.00	6,376.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,520.0	0.00	0.00	6,416.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,560.0	0.00	0.00	6,456.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,496.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,640.0	0.00	0.00	6,536.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,680.0	0.00	0.00	6,576.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,720.0	0.00	0.00	6,616.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,760.0	0.00	0.00	6,656.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,696.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,840.0	0.00	0.00	6,736.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,880.0	0.00	0.00	6,776.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,920.0	0.00	0.00	6,816.2	-820.6	397.9	912.0	0.00	0.00	0.00
6,960.0	0.00	0.00	6,856.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,896.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,040.0	0.00	0.00	6,936.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,080.0	0.00	0.00	6,976.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,120.0	0.00	0.00	7,016.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,160.0	0.00	0.00	7,056.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,096.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,240.0	0.00	0.00	7,136.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,252.8	0.00	0.00	7,149.0	-820.6	397.9	912.0	0.00	0.00	0.00
<b>NIOBRARA - TARGET CIRCLE 1302'FSL, 2548'FWL</b>									
7,280.0	0.00	0.00	7,176.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,320.0	0.00	0.00	7,216.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,360.0	0.00	0.00	7,256.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,296.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,440.0	0.00	0.00	7,336.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,480.0	0.00	0.00	7,376.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,520.0	0.00	0.00	7,416.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,560.0	0.00	0.00	7,456.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,496.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,602.8	0.00	0.00	7,499.0	-820.6	397.9	912.0	0.00	0.00	0.00
<b>CODELL</b>									
7,640.0	0.00	0.00	7,536.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,680.0	0.00	0.00	7,576.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,720.0	0.00	0.00	7,616.2	-820.6	397.9	912.0	0.00	0.00	0.00
7,752.8	0.00	0.00	7,649.0	-820.6	397.9	912.0	0.00	0.00	0.00
<b>HARDLINE 75'E OF BHL</b>									



<b>Database:</b>	Landmark	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Project:</b>	SEC.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>North Reference:</b>	True
<b>Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)		

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 CIRCLE 1302'F	0.00	0.00	7,149.0	-820.6	397.9	1,382,467.78	3,183,369.18	40° 22' 53.067 N	104° 50' 30.414 W
- plan hits target									
- Circle (radius 75.0)									
HARDLINE 75'E OF E	0.00	0.00	7,694.0	-920.6	472.9	1,382,368.34	3,183,444.92	40° 22' 52.079 N	104° 50' 29.445 W
- plan misses by 132.8ft at 7752.8ft MD (7649.0 TVD, -820.6 N, 397.9 E)									
- Polygon									
Point 1			7,694.0	0.0	0.0	1,382,368.34	3,183,444.92		
Point 2			7,694.0	200.0	0.0	1,382,568.33	3,183,443.44		
TARGET BHL 1302'F	0.00	0.00	5,000.0	-820.6	397.9	1,382,467.77	3,183,369.22	40° 22' 53.067 N	104° 50' 30.414 W
- plan hits target									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,252.8	7,149.0	NIOBRARA		0.00	
7,602.8	7,499.0	CODELL		0.00	





## **Directional**

# **NOBLE ENERGY INC WELD COUNTY CO**

**SEC.24-T5N-R67W**

**Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W**

**Phillips 24-3-23 (Dir)**

**Wellbore #1**

**Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)**

## **Anticollision Report**

**20 September, 2010**



<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Project:</b>	SEC.24-T5N-R67W	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Reference Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	Noble Phillips 24-3-23 (Dir) Plan #2(		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0ft	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma		

<b>Survey Tool Program</b>	<b>Date</b> 9/20/2010			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	7,752.8	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-	MWD	MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (ft)</b>	<b>Offset Measured Depth (ft)</b>	<b>Distance Between Centres (ft)</b>	<b>Distance Between Ellipses (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W						
Phillips 24-31 (Exist.) - Wellbore #1 - Design #1	600.0	600.0	30.0	27.6	12.274	CC, ES
Phillips 24-31 (Exist.) - Wellbore #1 - Design #1	800.0	799.8	32.8	29.5	10.006	SF
Phillips 24-3-17 (Dir) - Wellbore #1 - Noble Phillips 24-3-1	795.5	796.4	28.0	24.7	8.587	CC
Phillips 24-3-17 (Dir) - Wellbore #1 - Noble Phillips 24-3-1	800.0	800.8	28.0	24.7	8.540	ES
Phillips 24-3-17 (Dir) - Wellbore #1 - Noble Phillips 24-3-1	900.0	900.0	30.9	27.2	8.333	SF

<b>Offset Design</b> Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W - Phillips 24-31 (Exist.) - Wellbore #1 - Design #1												
Survey Program: 0-MWD												
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>			<b>Distance</b>							
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre +N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>
0.0	0.0	0.0	0.0	0.0	0.0	46.33	20.7	21.7	30.0			
100.0	100.0	100.0	100.0	0.1	0.1	46.33	20.7	21.7	30.0		0.20	152.544
200.0	200.0	200.0	200.0	0.3	0.3	46.33	20.7	21.7	30.0	29.8	0.65	46.427
300.0	300.0	300.0	300.0	0.5	0.5	46.33	20.7	21.7	30.0	29.4	1.10	27.380
400.0	400.0	400.0	400.0	0.8	0.8	46.33	20.7	21.7	30.0	28.9	1.55	19.415
500.0	500.0	500.0	500.0	1.0	1.0	46.33	20.7	21.7	30.0	28.5	1.99	15.040
600.0	600.0	600.0	600.0	1.2	1.2	46.33	20.7	21.7	30.0	28.0	2.44	12.274 CC, ES
700.0	700.0	700.0	700.0	1.4	1.4	-110.90	20.7	21.7	30.6	27.6	2.87	10.662
800.0	799.8	799.8	799.8	1.6	1.7	-119.42	20.7	21.7	32.8	27.7	3.28	10.006 SF
900.0	899.5	899.5	899.5	1.8	1.9	-130.88	20.7	21.7	37.9	29.5	3.71	10.214
1,000.0	998.7	998.7	998.7	2.1	2.1	-142.10	20.7	21.7	46.8	34.2	4.14	11.290
1,100.0	1,097.5	1,097.5	1,097.5	2.3	2.3	-151.17	20.7	21.7	59.9	42.6	4.58	13.089
1,200.0	1,195.6	1,195.6	1,195.6	2.7	2.6	-157.86	20.7	21.7	77.2	55.4	5.01	15.412
1,291.4	1,284.7	1,284.7	1,284.7	3.0	2.8	-162.30	20.7	21.7	96.5	72.2	5.41	17.854
1,300.0	1,293.1	1,293.1	1,293.1	3.1	2.8	-162.67	20.7	21.7	98.5	91.1	5.44	18.089
1,400.0	1,390.2	1,390.2	1,390.2	3.5	3.0	-166.02	20.7	21.7	121.6	93.0	5.90	20.617
1,500.0	1,487.3	1,487.3	1,487.3	4.0	3.2	-168.30	20.7	21.7	144.9	115.7	6.35	22.807
1,600.0	1,584.4	1,584.4	1,584.4	4.4	3.4	-169.95	20.7	21.7	168.4	138.5	6.82	24.706
1,700.0	1,681.5	1,681.5	1,681.5	4.9	3.7	-171.19	20.7	21.7	192.0	161.6	7.28	26.363
1,800.0	1,778.6	1,778.6	1,778.6	5.4	3.9	-172.16	20.7	21.7	215.7	184.7	7.75	27.815
1,900.0	1,875.7	1,875.7	1,875.7	5.9	4.1	-172.94	20.7	21.7	239.4	207.9	8.23	29.097
2,000.0	1,972.8	1,972.8	1,972.8	6.4	4.3	-173.58	20.7	21.7	263.1	231.1	8.70	30.235

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Project:</b>	SEC.24-T5N-R67W	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Reference Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W - Phillips 24-31 (Exist.) - Wellbore #1 - Design #1												Offset Site Error:	0.0ft
Survey Program: 0-MWD												Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
2,100.0	2,069.9	2,069.9	2,069.9	6.9	4.5	-174.12	20.7	21.7	286.9	277.7	9.18	31.250	
2,200.0	2,167.0	2,167.0	2,167.0	7.4	4.7	-174.57	20.7	21.7	310.7	301.0	9.66	32.161	
2,300.0	2,264.1	2,264.1	2,264.1	7.9	5.0	-174.96	20.7	21.7	334.5	324.3	10.14	32.982	
2,400.0	2,361.2	2,361.2	2,361.2	8.4	5.2	-175.29	20.7	21.7	358.3	347.7	10.62	33.727	
2,500.0	2,458.3	2,458.3	2,458.3	8.9	5.4	-175.59	20.7	21.7	382.1	371.0	11.11	34.403	
2,600.0	2,555.4	2,555.4	2,555.4	9.4	5.6	-175.85	20.7	21.7	406.0	394.4	11.59	35.021	
2,700.0	2,652.5	2,652.5	2,652.5	9.9	5.8	-176.08	20.7	21.7	429.8	417.7	12.08	35.588	
2,800.0	2,749.6	2,749.6	2,749.6	10.4	6.1	-176.28	20.7	21.7	453.7	441.1	12.56	36.109	
2,900.0	2,846.7	2,846.7	2,846.7	11.0	6.3	-176.47	20.7	21.7	477.5	464.5	13.05	36.589	
3,000.0	2,943.8	2,943.8	2,943.8	11.5	6.5	-176.64	20.7	21.7	501.4	487.8	13.54	37.034	
3,100.0	3,040.9	3,040.9	3,040.9	12.0	6.7	-176.79	20.7	21.7	525.2	511.2	14.03	37.447	
3,200.0	3,138.0	3,138.0	3,138.0	12.5	6.9	-176.93	20.7	21.7	549.1	534.6	14.51	37.830	
3,300.0	3,235.1	3,235.1	3,235.1	13.0	7.1	-177.06	20.7	21.7	573.0	558.0	15.00	38.188	
3,400.0	3,332.2	3,332.2	3,332.2	13.5	7.4	-177.18	20.7	21.7	596.8	581.4	15.49	38.522	
3,500.0	3,429.3	3,429.3	3,429.3	14.0	7.6	-177.28	20.7	21.7	620.7	604.7	15.98	38.835	
3,600.0	3,526.4	3,526.4	3,526.4	14.6	7.8	-177.38	20.7	21.7	644.6	628.1	16.47	39.129	
3,700.0	3,623.5	3,623.5	3,623.5	15.1	8.0	-177.48	20.7	21.7	668.5	651.5	16.96	39.405	
3,800.0	3,720.6	3,720.6	3,720.6	15.6	8.2	-177.56	20.7	21.7	692.4	674.9	17.46	39.665	
3,900.0	3,817.7	3,817.7	3,817.7	16.1	8.5	-177.65	20.7	21.7	716.2	698.3	17.95	39.910	
4,000.0	3,914.8	3,914.8	3,914.8	16.6	8.7	-177.72	20.7	21.7	740.1	721.7	18.44	40.141	
4,100.0	4,011.9	4,011.9	4,011.9	17.1	8.9	-177.79	20.7	21.7	764.0	745.1	18.93	40.360	
4,200.0	4,109.0	4,109.0	4,109.0	17.6	9.1	-177.86	20.7	21.7	787.9	768.5	19.42	40.568	
4,300.0	4,206.1	4,206.1	4,206.1	18.2	9.3	-177.92	20.7	21.7	811.8	791.9	19.91	40.765	
4,400.0	4,303.2	4,303.2	4,303.2	18.7	9.5	-177.98	20.7	21.7	835.7	815.2	20.41	40.952	
4,412.5	4,315.3	4,315.3	4,315.3	18.7	9.6	-177.99	20.7	21.7	838.6	818.2	20.47	40.974	
4,500.0	4,400.6	4,400.6	4,400.6	19.1	9.8	-178.05	20.7	21.7	858.2	837.3	20.94	40.987	
4,600.0	4,498.8	4,498.8	4,498.8	19.4	10.0	-178.11	20.7	21.7	877.4	856.0	21.43	40.939	
4,700.0	4,597.5	4,597.5	4,597.5	19.7	10.2	-178.15	20.7	21.7	893.2	871.3	21.90	40.793	
4,800.0	4,696.7	4,696.7	4,696.7	19.9	10.4	-178.18	20.7	21.7	905.5	883.2	22.33	40.558	
4,900.0	4,796.3	4,796.3	4,796.3	20.1	10.7	-178.21	20.7	21.7	914.4	891.6	22.72	40.238	
5,000.0	4,896.2	4,896.2	4,896.2	20.3	10.9	-178.22	20.7	21.7	919.7	896.6	23.09	39.838	
5,103.8	5,000.0	5,000.0	5,000.0	20.4	11.1	-24.09	20.7	21.7	921.6	898.2	23.44	39.319	
5,200.0	5,096.2	5,096.2	5,096.2	20.5	11.3	-24.09	20.7	21.7	921.6	897.8	23.82	38.688	
5,300.0	5,196.2	5,196.2	5,196.2	20.6	11.6	-24.09	20.7	21.7	921.6	897.4	24.21	38.069	
5,400.0	5,296.2	5,296.2	5,296.2	20.7	11.8	-24.09	20.7	21.7	921.6	897.0	24.60	37.466	
5,500.0	5,396.2	5,396.2	5,396.2	20.8	12.0	-24.09	20.7	21.7	921.6	896.6	24.99	36.879	
5,600.0	5,496.2	5,496.2	5,496.2	20.9	12.2	-24.09	20.7	21.7	921.6	896.2	25.38	36.308	
5,700.0	5,596.2	5,596.2	5,596.2	21.0	12.5	-24.09	20.7	21.7	921.6	895.8	25.78	35.752	
5,800.0	5,696.2	5,696.2	5,696.2	21.1	12.7	-24.09	20.7	21.7	921.6	895.4	26.17	35.210	
5,900.0	5,796.2	5,796.2	5,796.2	21.3	12.9	-24.09	20.7	21.7	921.6	895.0	26.57	34.683	
6,000.0	5,896.2	5,896.2	5,896.2	21.4	13.1	-24.09	20.7	21.7	921.6	894.6	26.97	34.169	
6,100.0	5,996.2	5,996.2	5,996.2	21.5	13.4	-24.09	20.7	21.7	921.6	894.2	27.37	33.669	
6,200.0	6,096.2	6,096.2	6,096.2	21.6	13.6	-24.09	20.7	21.7	921.6	893.8	27.78	33.181	
6,300.0	6,196.2	6,196.2	6,196.2	21.7	13.8	-24.09	20.7	21.7	921.6	893.4	28.18	32.706	
6,400.0	6,296.2	6,296.2	6,296.2	21.8	14.0	-24.09	20.7	21.7	921.6	893.0	28.58	32.243	
6,500.0	6,396.2	6,396.2	6,396.2	21.9	14.3	-24.09	20.7	21.7	921.6	892.6	28.99	31.791	
6,600.0	6,496.2	6,496.2	6,496.2	22.1	14.5	-24.09	20.7	21.7	921.6	892.2	29.40	31.351	
6,700.0	6,596.2	6,596.2	6,596.2	22.2	14.7	-24.09	20.7	21.7	921.6	891.8	29.81	30.921	
6,800.0	6,696.2	6,696.2	6,696.2	22.3	14.9	-24.09	20.7	21.7	921.6	891.4	30.21	30.502	
6,900.0	6,796.2	6,796.2	6,796.2	22.4	15.1	-24.09	20.7	21.7	921.6	891.0	30.63	30.093	
7,000.0	6,896.2	6,896.2	6,896.2	22.6	15.4	-24.09	20.7	21.7	921.6	890.6	31.04	29.694	
7,100.0	6,996.2	6,996.2	6,996.2	22.7	15.6	-24.09	20.7	21.7	921.6	890.2	31.45	29.305	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Project:</b>	SEC.24-T5N-R67W	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Reference Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W - Phillips 24-31 (Exist.) - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
7,200.0	7,096.2	7,096.2	7,096.2	22.8	15.8	-24.09	20.7	21.7	921.6	889.7	31.86	28.924	
7,300.0	7,196.2	7,196.2	7,196.2	23.0	16.0	-24.09	20.7	21.7	921.6	889.3	32.28	28.553	
7,400.0	7,296.2	7,296.2	7,296.2	23.1	16.3	-24.09	20.7	21.7	921.6	888.9	32.69	28.190	
7,500.0	7,396.2	7,396.2	7,396.2	23.2	16.5	-24.09	20.7	21.7	921.6	888.5	33.11	27.836	
7,600.0	7,496.2	7,496.2	7,496.2	23.4	16.7	-24.09	20.7	21.7	921.6	888.1	33.53	27.490	
7,700.0	7,596.2	7,596.2	7,596.2	23.5	16.9	-24.09	20.7	21.7	921.6	887.7	33.94	27.151	
7,733.4	7,629.5	7,629.5	7,629.5	23.6	17.0	-24.09	20.7	21.7	921.6	887.5	34.08	27.040	
7,752.8	7,649.0	7,644.0	7,644.0	23.6	17.1	-24.09	20.7	21.7	921.6	887.5	34.15	26.985	

<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Project:</b>	SEC.24-T5N-R67W	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Reference Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W - Phillips 24-3-17 (Dir) - Wellbore #1 - Noble Phillips 24-3-1													Offset Site Error:	0.0ft
Survey Program: 0-MWD													Offset Well Error:	0.0ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-129.27	-18.2	-22.3	28.8					
100.0	100.0	101.0	101.0	0.1	0.1	-129.27	-18.2	-22.3	28.8	28.6	0.20	145.538		
200.0	200.0	201.0	201.0	0.3	0.3	-129.27	-18.2	-22.3	28.8	28.1	0.65	44.470		
300.0	300.0	301.0	301.0	0.5	0.5	-129.27	-18.2	-22.3	28.8	27.7	1.10	26.245		
400.0	400.0	401.0	401.0	0.8	0.8	-129.27	-18.2	-22.3	28.8	27.2	1.55	18.615		
500.0	500.0	501.0	501.0	1.0	1.0	-129.27	-18.2	-22.3	28.8	26.8	2.00	14.423		
600.0	600.0	601.0	601.0	1.2	1.2	-129.27	-18.2	-22.3	28.8	26.3	2.45	11.772		
700.0	700.0	701.0	701.0	1.4	1.4	80.03	-18.2	-22.3	28.4	25.6	2.87	9.911		
795.5	795.4	796.4	796.4	1.6	1.7	90.00	-18.2	-22.3	28.0	24.7	3.26	8.587 CC		
800.0	799.8	800.8	800.8	1.6	1.7	90.63	-18.2	-22.3	28.0	24.7	3.28	8.540 ES		
900.0	899.5	900.0	900.0	1.8	1.9	109.56	-17.4	-23.8	30.9	27.2	3.70	8.333 SF		
1,000.0	998.7	997.1	996.9	2.1	2.1	129.05	-15.1	-28.3	41.8	37.6	4.14	10.087		
1,100.0	1,097.5	1,092.7	1,092.2	2.3	2.3	141.85	-11.3	-35.5	61.5	57.0	4.59	13.417		
1,200.0	1,195.6	1,185.9	1,184.8	2.7	2.6	149.08	-6.2	-45.3	89.0	84.0	5.04	17.672		
1,291.4	1,284.7	1,268.6	1,266.5	3.0	2.8	152.91	-0.6	-56.2	120.0	114.6	5.45	22.008		
1,300.0	1,293.1	1,276.3	1,274.1	3.1	2.8	153.21	0.0	-57.3	123.2	117.7	5.49	22.427		
1,400.0	1,390.2	1,364.0	1,360.4	3.5	3.1	155.69	7.3	-71.4	161.9	155.9	5.97	27.128		
1,500.0	1,487.3	1,449.7	1,444.1	4.0	3.4	157.01	15.6	-87.4	203.4	196.9	6.45	31.533		
1,600.0	1,584.4	1,535.1	1,527.1	4.4	3.7	157.72	25.0	-105.4	247.4	240.4	6.94	35.642		
1,700.0	1,681.5	1,624.6	1,613.8	4.9	4.1	158.21	35.1	-124.8	292.0	284.6	7.44	39.228		
1,800.0	1,778.6	1,714.0	1,700.6	5.4	4.5	158.57	45.2	-144.2	336.7	328.7	7.95	42.336		
1,900.0	1,875.7	1,803.5	1,787.3	5.9	4.9	158.85	55.3	-163.7	381.3	372.9	8.47	45.027		
2,000.0	1,972.8	1,892.9	1,874.0	6.4	5.4	159.06	65.4	-183.1	426.0	417.0	8.99	47.372		
2,100.0	2,069.9	1,982.4	1,960.8	6.9	5.8	159.24	75.5	-202.5	470.7	461.2	9.52	49.427		
2,200.0	2,167.0	2,071.8	2,047.5	7.4	6.2	159.39	85.6	-221.9	515.4	505.3	10.06	51.241		
2,300.0	2,264.1	2,161.3	2,134.2	7.9	6.7	159.51	95.8	-241.4	560.1	549.5	10.60	52.851		
2,400.0	2,361.2	2,250.7	2,221.0	8.4	7.1	159.61	105.9	-260.8	604.8	593.6	11.14	54.287		
2,500.0	2,458.3	2,340.2	2,307.7	8.9	7.6	159.70	116.0	-280.2	649.4	637.8	11.69	55.574		
2,600.0	2,555.4	2,429.6	2,394.4	9.4	8.0	159.78	126.1	-299.6	694.1	681.9	12.24	56.733		
2,700.0	2,652.5	2,519.1	2,481.2	9.9	8.5	159.85	136.2	-319.1	738.8	726.0	12.79	57.782		
2,800.0	2,749.6	2,608.6	2,567.9	10.4	8.9	159.91	146.3	-338.5	783.5	770.2	13.34	58.734		
2,900.0	2,846.7	2,698.0	2,654.6	11.0	9.4	159.97	156.4	-357.9	828.2	814.3	13.90	59.601		
3,000.0	2,943.8	2,787.5	2,741.4	11.5	9.8	160.02	166.5	-377.3	872.9	858.5	14.45	60.394		
3,100.0	3,040.9	2,876.9	2,828.1	12.0	10.3	160.06	176.6	-396.7	917.6	902.6	15.01	61.122		
3,200.0	3,138.0	2,966.4	2,914.8	12.5	10.8	160.10	186.7	-416.2	962.3	946.7	15.57	61.792		
3,300.0	3,235.1	3,055.8	3,001.6	13.0	11.2	160.14	196.8	-435.6	1,007.0	990.9	16.13	62.410		
3,400.0	3,332.2	3,145.3	3,088.3	13.5	11.7	160.17	206.9	-455.0	1,051.7	1,035.0	16.70	62.983		
3,500.0	3,429.3	3,234.7	3,175.0	14.0	12.1	160.20	217.0	-474.4	1,096.4	1,079.1	17.26	63.514		
3,600.0	3,526.4	3,324.2	3,261.8	14.6	12.6	160.23	227.1	-493.9	1,141.1	1,123.2	17.83	64.009		
3,700.0	3,623.5	3,413.6	3,348.5	15.1	13.1	160.26	237.2	-513.3	1,185.8	1,167.4	18.39	64.470		
3,800.0	3,720.6	3,503.1	3,435.2	15.6	13.5	160.28	247.3	-532.7	1,230.5	1,211.5	18.96	64.900		
3,900.0	3,817.7	3,592.6	3,522.0	16.1	14.0	160.30	257.4	-552.1	1,275.2	1,255.6	19.53	65.303		
4,000.0	3,914.8	3,682.0	3,608.7	16.6	14.5	160.32	267.5	-571.6	1,319.9	1,299.8	20.10	65.681		
4,100.0	4,011.9	3,771.5	3,695.4	17.1	14.9	160.34	277.7	-591.0	1,364.6	1,343.9	20.66	66.035		
4,200.0	4,109.0	3,860.9	3,782.2	17.6	15.4	160.36	287.8	-610.4	1,409.2	1,388.0	21.23	66.369		
4,300.0	4,206.1	3,950.4	3,868.9	18.2	15.9	160.38	297.9	-629.8	1,453.9	1,432.1	21.80	66.684		
4,400.0	4,303.2	4,039.8	3,955.6	18.7	16.3	160.40	308.0	-649.3	1,498.6	1,476.3	22.37	66.981		
4,412.5	4,315.3	4,051.0	3,966.4	18.7	16.4	160.40	309.2	-651.7	1,504.2	1,481.8	22.45	67.017		
4,500.0	4,400.6	4,129.8	4,042.9	19.1	16.8	160.67	318.1	-668.8	1,542.2	1,519.2	23.02	66.981		
4,600.0	4,498.8	4,221.2	4,131.5	19.4	17.3	160.92	328.5	-688.6	1,582.8	1,559.2	23.64	66.968		
4,700.0	4,597.5	4,313.8	4,221.3	19.7	17.8	161.09	338.9	-708.8	1,620.4	1,596.1	24.22	66.898		
4,800.0	4,696.7	4,407.6	4,312.3	19.9	18.2	161.20	349.5	-729.1	1,654.9	1,630.1	24.78	66.783		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

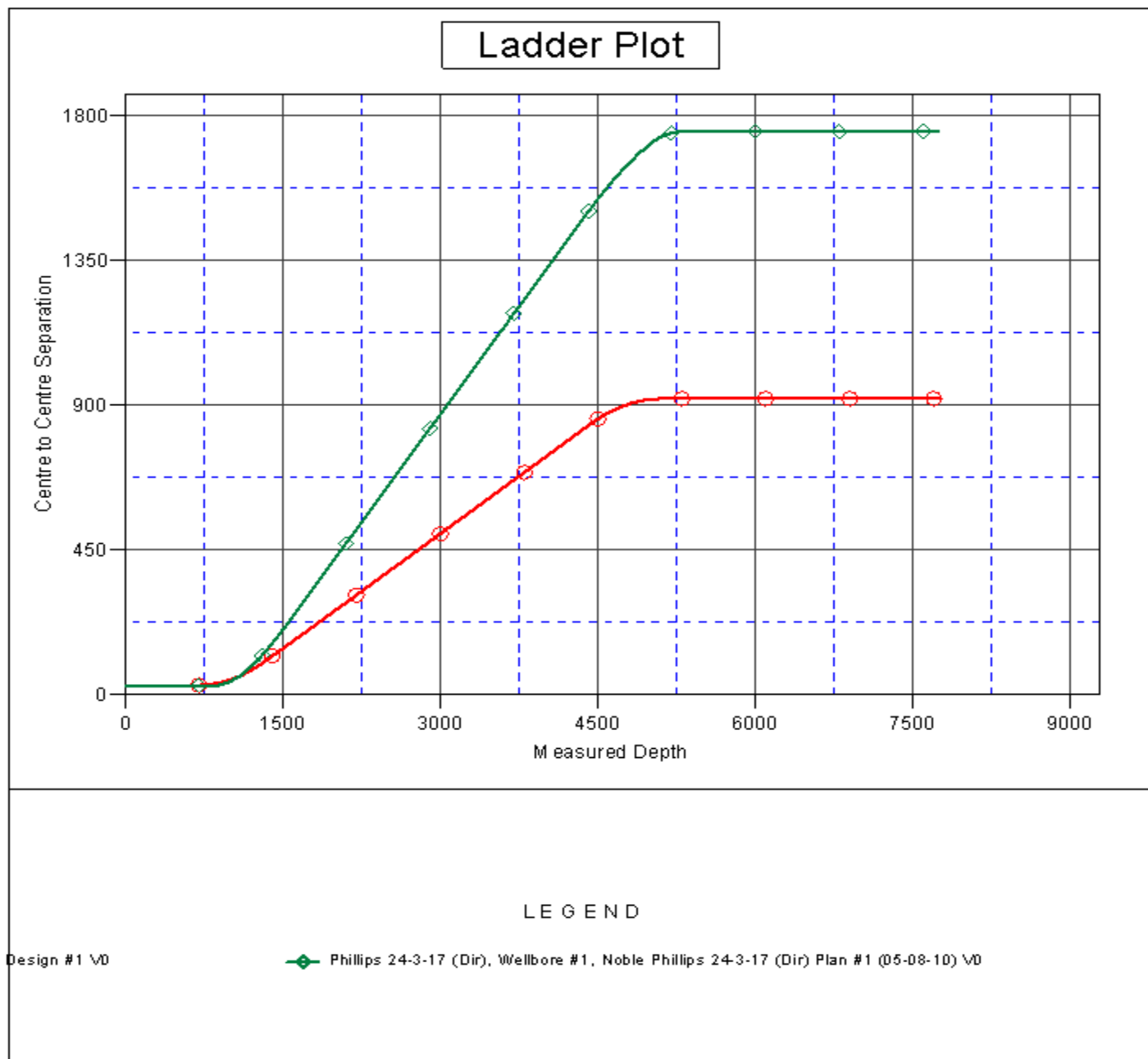
<b>Company:</b>	NOBLE ENERGY INC WELD COUNTY CO	<b>Local Co-ordinate Reference:</b>	Well Phillips 24-3-23 (Dir)
<b>Project:</b>	SEC.24-T5N-R67W	<b>TVD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Reference Site:</b>	Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W	<b>MD Reference:</b>	WELL @ 5009.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Phillips 24-3-23 (Dir)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	Landmark
<b>Reference Design:</b>	Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W - Phillips 24-3-17 (Dir) - Wellbore #1 - Noble Phillips 24-3-1												<b>Offset Site Error:</b>	0.0 ft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.0	4,796.3	4,502.5	4,404.2	20.1	18.7	161.25	360.2	-749.7	1,686.2	1,660.9	25.31	66.629	
5,000.0	4,896.2	4,598.2	4,497.1	20.3	19.2	161.24	371.1	-770.5	1,714.5	1,688.7	25.80	66.444	
5,103.8	5,000.0	4,834.0	4,727.8	20.4	20.1	-44.94	393.4	-813.4	1,736.6	1,710.1	26.55	65.405	
5,200.0	5,096.2	5,061.6	4,953.5	20.5	20.7	-45.22	406.6	-838.8	1,748.2	1,721.0	27.15	64.398	
5,300.0	5,196.2	5,301.6	5,193.2	20.6	21.1	-45.33	411.5	-848.2	1,752.4	1,724.7	27.68	63.307	
5,400.0	5,296.2	5,405.6	5,297.2	20.7	21.2	-45.33	411.5	-848.2	1,752.4	1,724.4	28.00	62.594	
5,500.0	5,396.2	5,505.6	5,397.2	20.8	21.3	-45.33	411.5	-848.2	1,752.4	1,724.1	28.32	61.878	
5,600.0	5,496.2	5,605.6	5,497.2	20.9	21.4	-45.33	411.5	-848.2	1,752.4	1,723.7	28.65	61.170	
5,700.0	5,596.2	5,705.6	5,597.2	21.0	21.5	-45.33	411.5	-848.2	1,752.4	1,723.4	28.98	60.472	
5,800.0	5,696.2	5,805.6	5,697.2	21.1	21.7	-45.33	411.5	-848.2	1,752.4	1,723.1	29.31	59.783	
5,900.0	5,796.2	5,905.6	5,797.2	21.3	21.8	-45.33	411.5	-848.2	1,752.4	1,722.7	29.65	59.103	
6,000.0	5,896.2	6,005.6	5,897.2	21.4	21.9	-45.33	411.5	-848.2	1,752.4	1,722.4	29.99	58.433	
6,100.0	5,996.2	6,105.6	5,997.2	21.5	22.0	-45.33	411.5	-848.2	1,752.4	1,722.1	30.33	57.773	
6,200.0	6,096.2	6,205.6	6,097.2	21.6	22.2	-45.33	411.5	-848.2	1,752.4	1,721.7	30.68	57.122	
6,300.0	6,196.2	6,305.6	6,197.2	21.7	22.3	-45.33	411.5	-848.2	1,752.4	1,721.4	31.03	56.481	
6,400.0	6,296.2	6,405.6	6,297.2	21.8	22.4	-45.33	411.5	-848.2	1,752.4	1,721.0	31.38	55.849	
6,500.0	6,396.2	6,505.6	6,397.2	21.9	22.6	-45.33	411.5	-848.2	1,752.4	1,720.7	31.73	55.228	
6,600.0	6,496.2	6,605.6	6,497.2	22.1	22.7	-45.33	411.5	-848.2	1,752.4	1,720.3	32.09	54.615	
6,700.0	6,596.2	6,705.6	6,597.2	22.2	22.9	-45.33	411.5	-848.2	1,752.4	1,719.9	32.44	54.013	
6,800.0	6,696.2	6,805.6	6,697.2	22.3	23.0	-45.33	411.5	-848.2	1,752.4	1,719.6	32.80	53.420	
6,900.0	6,796.2	6,905.6	6,797.2	22.4	23.1	-45.33	411.5	-848.2	1,752.4	1,719.2	33.17	52.836	
7,000.0	6,896.2	7,005.6	6,897.2	22.6	23.3	-45.33	411.5	-848.2	1,752.4	1,718.9	33.53	52.262	
7,100.0	6,996.2	7,105.6	6,997.2	22.7	23.4	-45.33	411.5	-848.2	1,752.4	1,718.5	33.90	51.696	
7,200.0	7,096.2	7,205.6	7,097.2	22.8	23.6	-45.33	411.5	-848.2	1,752.4	1,718.1	34.27	51.140	
7,300.0	7,196.2	7,305.6	7,197.2	23.0	23.7	-45.33	411.5	-848.2	1,752.4	1,717.7	34.64	50.594	
7,400.0	7,296.2	7,405.6	7,297.2	23.1	23.9	-45.33	411.5	-848.2	1,752.4	1,717.4	35.01	50.056	
7,500.0	7,396.2	7,505.6	7,397.2	23.2	24.0	-45.33	411.5	-848.2	1,752.4	1,717.0	35.38	49.526	
7,600.0	7,496.2	7,605.6	7,497.2	23.4	24.2	-45.33	411.5	-848.2	1,752.4	1,716.6	35.76	49.006	
7,700.0	7,596.2	7,705.6	7,597.2	23.5	24.3	-45.33	411.5	-848.2	1,752.4	1,716.2	36.14	48.494	
7,752.8	7,649.0	7,758.4	7,650.0	23.6	24.4	-45.33	411.5	-848.2	1,752.4	1,716.0	36.34	48.227	

**Company:** NOBLE ENERGY INC WELD COUNTY CO  
**Project:** SEC.24-T5N-R67W  
**Reference Site:** Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W  
**Site Error:** 0.0ft  
**Reference Well:** Phillips 24-3-23 (Dir)  
**Well Error:** 0.0ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)

**Local Co-ordinate Reference:** Well Phillips 24-3-23 (Dir)  
**TVD Reference:** WELL @ 5009.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5009.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** Landmark  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 5009.0ft (Original Well Elev) Coordinates are relative to: Phillips 24-3-23 (Dir)  
 Offset Depths are relative to Offset Datum  
 Coordinate System is US State Plane 1983, Colorado Northern Zone  
 Central Meridian is 105° 30' 0.000 W °  
 Grid Convergence at Surface is: 0.42°



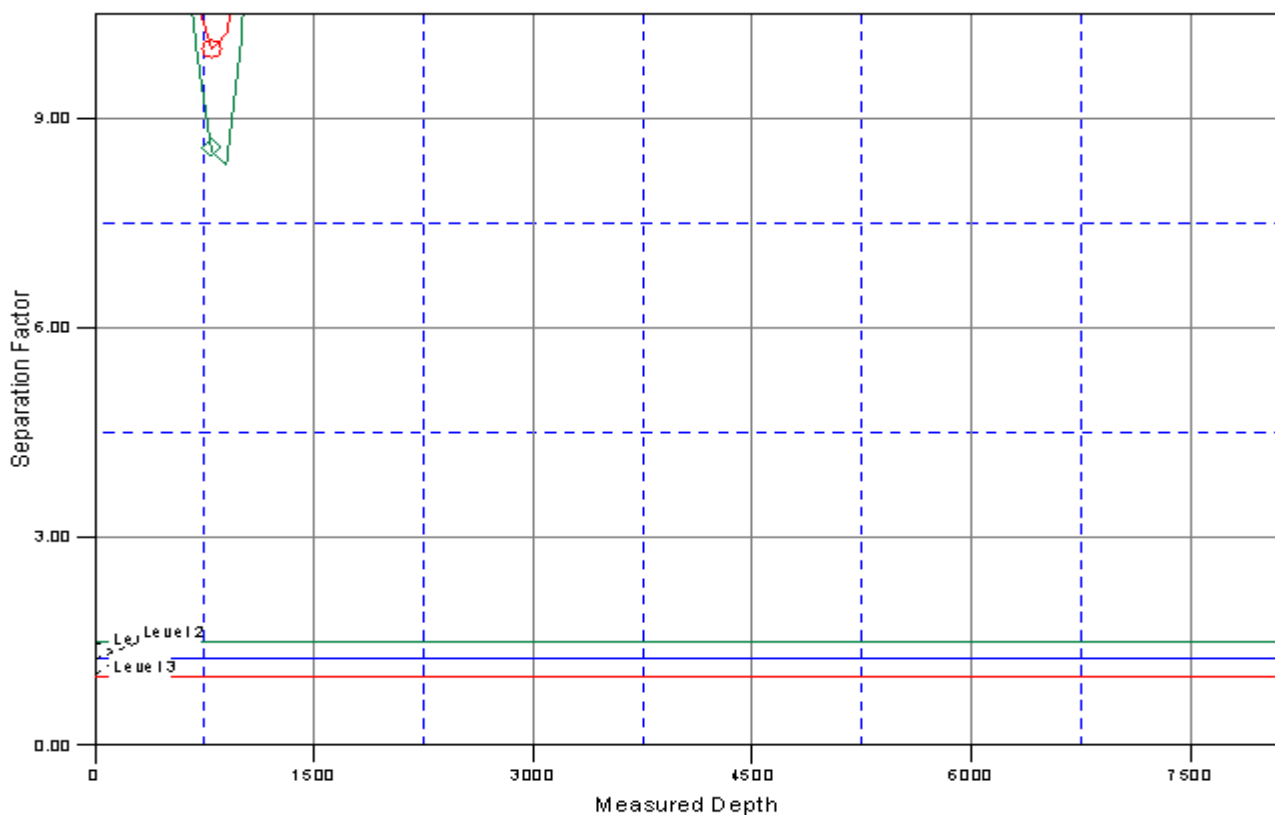


**Company:** NOBLE ENERGY INC WELD COUNTY CO  
**Project:** SEC.24-T5N-R67W  
**Reference Site:** Phillips 24-3-23 (Dir) Pad Sec.24-T5N-R67W  
**Site Error:** 0.0ft  
**Reference Well:** Phillips 24-3-23 (Dir)  
**Well Error:** 0.0ft  
**Reference Wellbore:** Wellbore #1  
**Reference Design:** Noble Phillips 24-3-23 (Dir) Plan #2(09-17-10)

**Local Co-ordinate Reference:** Well Phillips 24-3-23 (Dir)  
**TVD Reference:** WELL @ 5009.0ft (Original Well Elev)  
**MD Reference:** WELL @ 5009.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at** 2.00 sigma  
**Database:** Landmark  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to WELL @ 5009.0ft (Original Well Elev) Coordinates are relative to: Phillips 24-3-23 (Dir)  
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone  
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.42°

## Separation Factor Plot



## LEGEND

Design #1 \0

—●— Phillips 24-3-17 (Dir), Wellbore #1, Noble Phillips 24-3-17 (Dir) Plan #1 (05-08-10) \0