

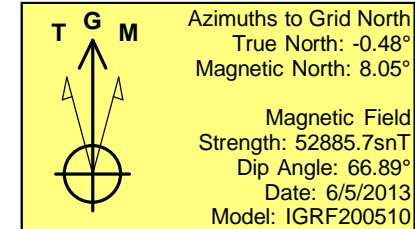
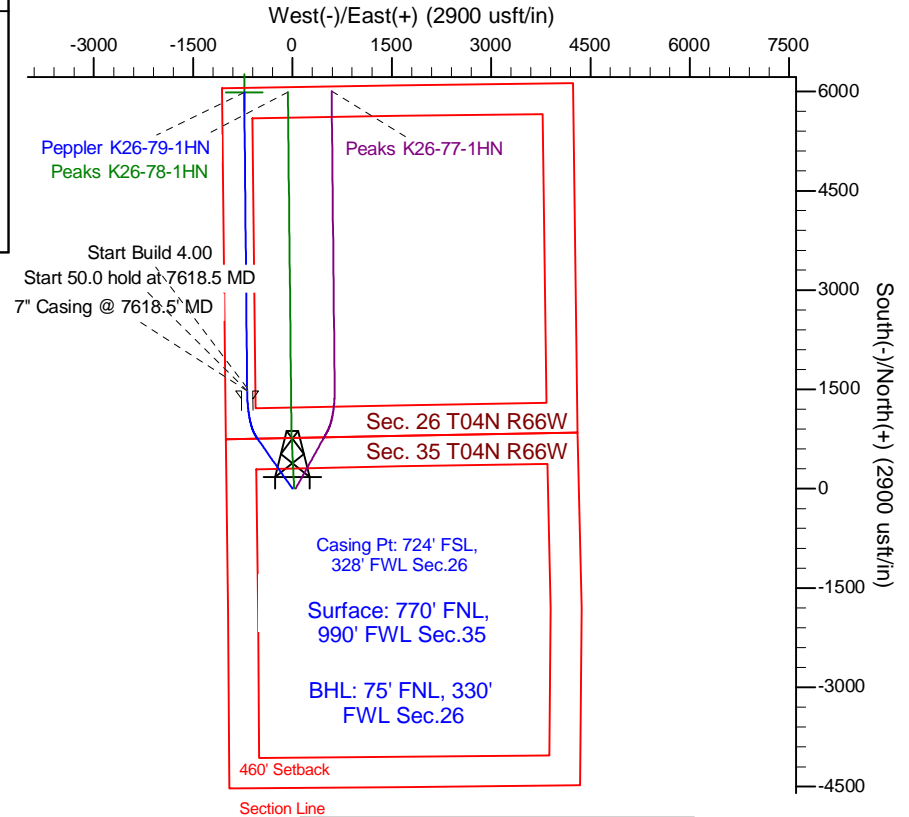
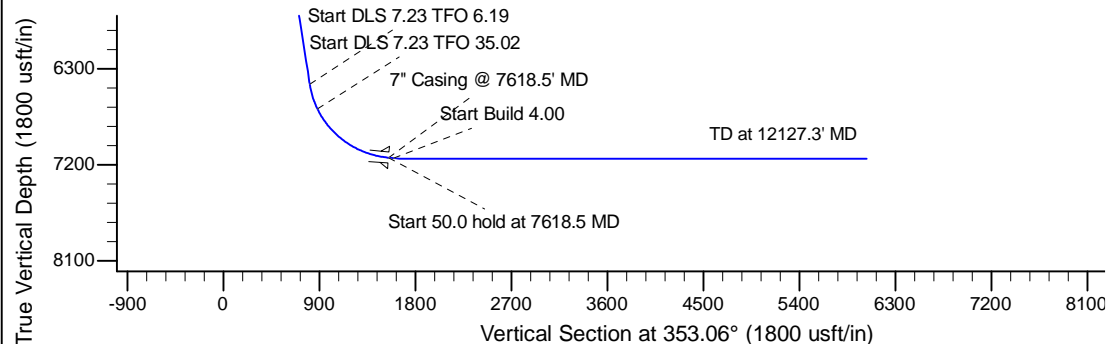
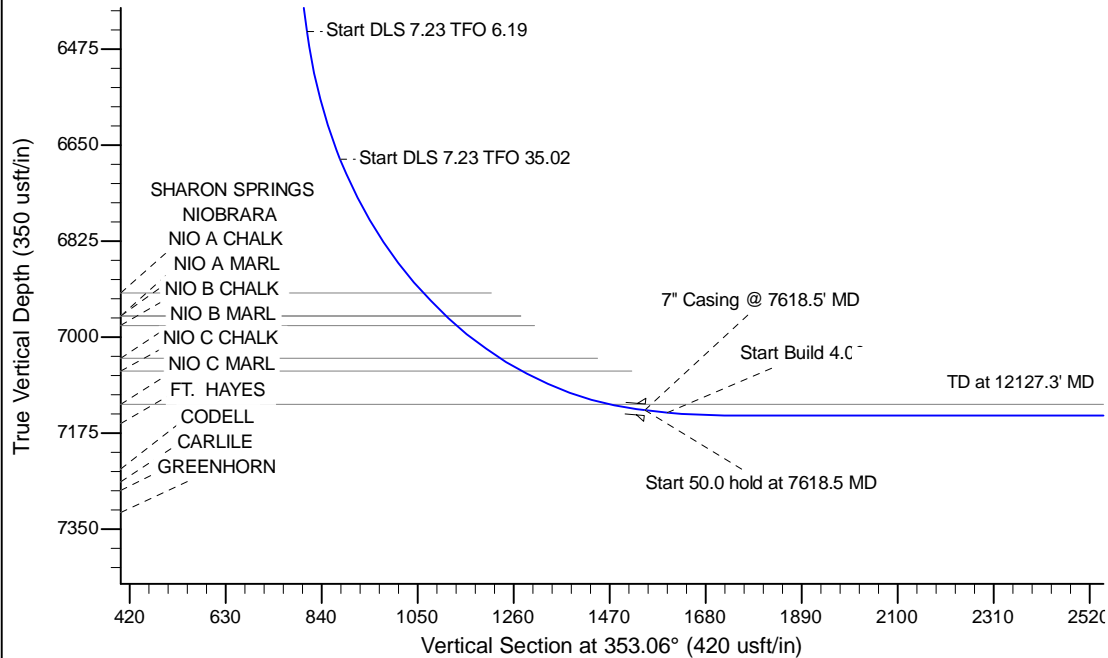
Project: Wattenberg Field
Site: K (Sec.35-T04-R66W) Weld County, CO
Well: Peppler K26-79-1HN
Wellbore: Original Drilling
Design: APD - Rev 2

Northern Region Drilling - Working

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone
System Datum: Mean Sea Level

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	1000.0	0.00	0.00	1000.0	0.0	0.0	0.00	0.00	0.0	
3	1500.0	10.00	325.00	1497.5	35.7	-25.0	2.00	325.00	38.4	
4	6521.8	10.00	325.00	6443.0	750.0	-525.1	0.00	0.00	808.0	
5	6769.1	27.84	329.06	6676.0	817.6	-567.5	7.23	6.19	880.2	
6	7618.5	85.00	359.45	7133.2	1475.0	-685.0	7.23	35.02	1547.0	
7	7668.5	85.00	359.45	7137.6	1524.8	-685.5	0.00	0.00	1596.5	
8	7793.5	90.00	359.45	7143.0	1649.6	-686.7	4.00	0.00	1720.5	
9	12127.3	90.00	359.44	7143.0	5983.2	-728.5	0.00	-87.98	6027.4	Peppler K26-79-1HN BHL 75'FNL, 330'FWL



WELL DETAILS: Peppler K26-79-1HN				
Ground Level: 4787.0				
0.0	0.0	Northing 1343350.74	Easting 3209180.84	Latitude 40.273470 Longitude -104.750320
Plan: APD - Rev 2 (Peppler K26-79-1HN/Original Drilling)				
Created By: Shailey Jewell		Date: 13:05, October 29 2013		
Checked: _____		Date: _____		
Reviewed: _____		Date: _____		
Approved: _____		Date: _____		

Northern Region Drilling - Working

Wattenberg Field

K (04-66W)

Peppler K26-79-1HN

Original Drilling

Plan: APD - Rev 2

Standard Planning Report

29 October, 2013

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Project	Wattenberg Field, Weld County CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	K (04-66W)				
Site Position:		Northing:	1,345,613.68 usft	Latitude:	40.279820
From:	Lat/Long	Easting:	3,203,135.01 usft	Longitude:	-104.771920
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Peppler K26-79-1HN					
Well Position	+N/-S	-2,263.0 usft	Northing:	1,343,350.74 usft	Latitude:	40.273470
	+E/-W	6,046.1 usft	Easting:	3,209,180.84 usft	Longitude:	-104.750320
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	4,787.0 usft

Wellbore	Original Drilling				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/5/2013	8.53	66.89	52,886

Design	APD - Rev 2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	353.06

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	10.00	325.00	1,497.5	35.7	-25.0	2.00	2.00	0.00	325.00	
6,521.8	10.00	325.00	6,443.0	750.0	-525.1	0.00	0.00	0.00	0.00	
6,769.1	27.84	329.06	6,676.0	817.6	-567.5	7.23	7.22	1.64	6.19	
7,618.5	85.00	359.45	7,133.2	1,475.0	-685.0	7.23	6.73	3.58	35.02	
7,668.5	85.00	359.45	7,137.6	1,524.8	-685.5	0.00	0.00	0.00	0.00	
7,793.5	90.00	359.45	7,143.0	1,649.6	-686.7	4.00	4.00	0.00	0.00	
12,127.3	90.00	359.44	7,143.0	5,983.2	-728.5	0.00	0.00	0.00	-87.98	Peppler K26-79-1HN

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Pepler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Pepler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
50.0	0.00	0.00	50.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
150.0	0.00	0.00	150.0	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
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	0.00	350.0	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
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
550.0	0.00	0.00	550.0	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
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
750.0	0.00	0.00	750.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
850.0	0.00	0.00	850.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
950.0	0.00	0.00	950.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP - Start Build 2.00									
1,050.0	1.00	325.00	1,050.0	0.4	-0.3	0.4	2.00	2.00	0.00
1,100.0	2.00	325.00	1,100.0	1.4	-1.0	1.5	2.00	2.00	0.00
1,150.0	3.00	325.00	1,149.9	3.2	-2.3	3.5	2.00	2.00	0.00
1,200.0	4.00	325.00	1,199.8	5.7	-4.0	6.2	2.00	2.00	0.00
1,250.0	5.00	325.00	1,249.7	8.9	-6.3	9.6	2.00	2.00	0.00
1,300.0	6.00	325.00	1,299.5	12.9	-9.0	13.8	2.00	2.00	0.00
1,350.0	7.00	325.00	1,349.1	17.5	-12.2	18.8	2.00	2.00	0.00
1,400.0	8.00	325.00	1,398.7	22.8	-16.0	24.6	2.00	2.00	0.00
1,442.8	8.86	325.00	1,441.0	28.0	-19.6	30.1	2.00	2.00	0.00
PIERRE									
1,450.0	9.00	325.00	1,448.2	28.9	-20.2	31.1	2.00	2.00	0.00
1,500.0	10.00	325.00	1,497.5	35.7	-25.0	38.4	2.00	2.00	0.00
1,550.0	10.00	325.00	1,546.7	42.8	-29.9	46.1	0.00	0.00	0.00
1,600.0	10.00	325.00	1,595.9	49.9	-34.9	53.7	0.00	0.00	0.00
1,650.0	10.00	325.00	1,645.2	57.0	-39.9	61.4	0.00	0.00	0.00
1,700.0	10.00	325.00	1,694.4	64.1	-44.9	69.1	0.00	0.00	0.00
1,750.0	10.00	325.00	1,743.7	71.2	-49.9	76.7	0.00	0.00	0.00
1,800.0	10.00	325.00	1,792.9	78.3	-54.8	84.4	0.00	0.00	0.00
1,850.0	10.00	325.00	1,842.1	85.4	-59.8	92.0	0.00	0.00	0.00
1,900.0	10.00	325.00	1,891.4	92.5	-64.8	99.7	0.00	0.00	0.00
1,950.0	10.00	325.00	1,940.6	99.7	-69.8	107.4	0.00	0.00	0.00
2,000.0	10.00	325.00	1,989.9	106.8	-74.8	115.0	0.00	0.00	0.00
2,050.0	10.00	325.00	2,039.1	113.9	-79.7	122.7	0.00	0.00	0.00
2,100.0	10.00	325.00	2,088.4	121.0	-84.7	130.4	0.00	0.00	0.00
2,150.0	10.00	325.00	2,137.6	128.1	-89.7	138.0	0.00	0.00	0.00
2,200.0	10.00	325.00	2,186.8	135.2	-94.7	145.7	0.00	0.00	0.00
2,250.0	10.00	325.00	2,236.1	142.3	-99.7	153.3	0.00	0.00	0.00
2,300.0	10.00	325.00	2,285.3	149.4	-104.6	161.0	0.00	0.00	0.00
2,350.0	10.00	325.00	2,334.6	156.6	-109.6	168.7	0.00	0.00	0.00
2,400.0	10.00	325.00	2,383.8	163.7	-114.6	176.3	0.00	0.00	0.00
2,450.0	10.00	325.00	2,433.0	170.8	-119.6	184.0	0.00	0.00	0.00
2,500.0	10.00	325.00	2,482.3	177.9	-124.6	191.6	0.00	0.00	0.00

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Pepler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Pepler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
2,550.0	10.00	325.00	2,531.5	185.0	-129.5	199.3	0.00	0.00	0.00	
2,600.0	10.00	325.00	2,580.8	192.1	-134.5	207.0	0.00	0.00	0.00	
2,650.0	10.00	325.00	2,630.0	199.2	-139.5	214.6	0.00	0.00	0.00	
2,700.0	10.00	325.00	2,679.2	206.3	-144.5	222.3	0.00	0.00	0.00	
2,750.0	10.00	325.00	2,728.5	213.5	-149.5	230.0	0.00	0.00	0.00	
2,800.0	10.00	325.00	2,777.7	220.6	-154.4	237.6	0.00	0.00	0.00	
2,850.0	10.00	325.00	2,827.0	227.7	-159.4	245.3	0.00	0.00	0.00	
2,900.0	10.00	325.00	2,876.2	234.8	-164.4	252.9	0.00	0.00	0.00	
2,950.0	10.00	325.00	2,925.4	241.9	-169.4	260.6	0.00	0.00	0.00	
3,000.0	10.00	325.00	2,974.7	249.0	-174.4	268.3	0.00	0.00	0.00	
3,050.0	10.00	325.00	3,023.9	256.1	-179.3	275.9	0.00	0.00	0.00	
3,100.0	10.00	325.00	3,073.2	263.2	-184.3	283.6	0.00	0.00	0.00	
3,150.0	10.00	325.00	3,122.4	270.4	-189.3	291.3	0.00	0.00	0.00	
3,200.0	10.00	325.00	3,171.6	277.5	-194.3	298.9	0.00	0.00	0.00	
3,250.0	10.00	325.00	3,220.9	284.6	-199.3	306.6	0.00	0.00	0.00	
3,300.0	10.00	325.00	3,270.1	291.7	-204.2	314.2	0.00	0.00	0.00	
3,350.0	10.00	325.00	3,319.4	298.8	-209.2	321.9	0.00	0.00	0.00	
3,400.0	10.00	325.00	3,368.6	305.9	-214.2	329.6	0.00	0.00	0.00	
3,450.0	10.00	325.00	3,417.8	313.0	-219.2	337.2	0.00	0.00	0.00	
3,500.0	10.00	325.00	3,467.1	320.1	-224.2	344.9	0.00	0.00	0.00	
3,550.0	10.00	325.00	3,516.3	327.3	-229.1	352.5	0.00	0.00	0.00	
3,600.0	10.00	325.00	3,565.6	334.4	-234.1	360.2	0.00	0.00	0.00	
3,650.0	10.00	325.00	3,614.8	341.5	-239.1	367.9	0.00	0.00	0.00	
3,700.0	10.00	325.00	3,664.0	348.6	-244.1	375.5	0.00	0.00	0.00	
3,750.0	10.00	325.00	3,713.3	355.7	-249.1	383.2	0.00	0.00	0.00	
3,800.0	10.00	325.00	3,762.5	362.8	-254.0	390.9	0.00	0.00	0.00	
3,807.6	10.00	325.00	3,770.0	363.9	-254.8	392.0	0.00	0.00	0.00	
PARKMAN										
3,850.0	10.00	325.00	3,811.8	369.9	-259.0	398.5	0.00	0.00	0.00	
3,900.0	10.00	325.00	3,861.0	377.0	-264.0	406.2	0.00	0.00	0.00	
3,950.0	10.00	325.00	3,910.2	384.2	-269.0	413.8	0.00	0.00	0.00	
4,000.0	10.00	325.00	3,959.5	391.3	-274.0	421.5	0.00	0.00	0.00	
4,050.0	10.00	325.00	4,008.7	398.4	-278.9	429.2	0.00	0.00	0.00	
4,100.0	10.00	325.00	4,058.0	405.5	-283.9	436.8	0.00	0.00	0.00	
4,150.0	10.00	325.00	4,107.2	412.6	-288.9	444.5	0.00	0.00	0.00	
4,200.0	10.00	325.00	4,156.4	419.7	-293.9	452.2	0.00	0.00	0.00	
4,250.0	10.00	325.00	4,205.7	426.8	-298.9	459.8	0.00	0.00	0.00	
4,300.0	10.00	325.00	4,254.9	433.9	-303.8	467.5	0.00	0.00	0.00	
4,350.0	10.00	325.00	4,304.2	441.0	-308.8	475.1	0.00	0.00	0.00	
4,400.0	10.00	325.00	4,353.4	448.2	-313.8	482.8	0.00	0.00	0.00	
4,449.3	10.00	325.00	4,402.0	455.2	-318.7	490.4	0.00	0.00	0.00	
SUSSEX										
4,450.0	10.00	325.00	4,402.6	455.3	-318.8	490.5	0.00	0.00	0.00	
4,500.0	10.00	325.00	4,451.9	462.4	-323.8	498.1	0.00	0.00	0.00	
4,550.0	10.00	325.00	4,501.1	469.5	-328.7	505.8	0.00	0.00	0.00	
4,600.0	10.00	325.00	4,550.4	476.6	-333.7	513.5	0.00	0.00	0.00	
4,650.0	10.00	325.00	4,599.6	483.7	-338.7	521.1	0.00	0.00	0.00	
4,700.0	10.00	325.00	4,648.9	490.8	-343.7	528.8	0.00	0.00	0.00	
4,750.0	10.00	325.00	4,698.1	497.9	-348.7	536.4	0.00	0.00	0.00	
4,800.0	10.00	325.00	4,747.3	505.1	-353.6	544.1	0.00	0.00	0.00	
4,850.0	10.00	325.00	4,796.6	512.2	-358.6	551.8	0.00	0.00	0.00	
4,900.0	10.00	325.00	4,845.8	519.3	-363.6	559.4	0.00	0.00	0.00	
4,926.6	10.00	325.00	4,872.0	523.1	-366.3	563.5	0.00	0.00	0.00	

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Pepler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Pepler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
SHANNON									
4,950.0	10.00	325.00	4,895.1	526.4	-368.6	567.1	0.00	0.00	0.00
5,000.0	10.00	325.00	4,944.3	533.5	-373.6	574.7	0.00	0.00	0.00
5,050.0	10.00	325.00	4,993.5	540.6	-378.5	582.4	0.00	0.00	0.00
5,100.0	10.00	325.00	5,042.8	547.7	-383.5	590.1	0.00	0.00	0.00
5,150.0	10.00	325.00	5,092.0	554.8	-388.5	597.7	0.00	0.00	0.00
5,200.0	10.00	325.00	5,141.3	562.0	-393.5	605.4	0.00	0.00	0.00
5,250.0	10.00	325.00	5,190.5	569.1	-398.5	613.1	0.00	0.00	0.00
5,300.0	10.00	325.00	5,239.7	576.2	-403.4	620.7	0.00	0.00	0.00
5,350.0	10.00	325.00	5,289.0	583.3	-408.4	628.4	0.00	0.00	0.00
5,400.0	10.00	325.00	5,338.2	590.4	-413.4	636.0	0.00	0.00	0.00
5,450.0	10.00	325.00	5,387.5	597.5	-418.4	643.7	0.00	0.00	0.00
5,500.0	10.00	325.00	5,436.7	604.6	-423.4	651.4	0.00	0.00	0.00
5,550.0	10.00	325.00	5,485.9	611.7	-428.3	659.0	0.00	0.00	0.00
5,600.0	10.00	325.00	5,535.2	618.9	-433.3	666.7	0.00	0.00	0.00
5,650.0	10.00	325.00	5,584.4	626.0	-438.3	674.4	0.00	0.00	0.00
5,700.0	10.00	325.00	5,633.7	633.1	-443.3	682.0	0.00	0.00	0.00
5,750.0	10.00	325.00	5,682.9	640.2	-448.3	689.7	0.00	0.00	0.00
5,800.0	10.00	325.00	5,732.1	647.3	-453.2	697.3	0.00	0.00	0.00
5,850.0	10.00	325.00	5,781.4	654.4	-458.2	705.0	0.00	0.00	0.00
5,900.0	10.00	325.00	5,830.6	661.5	-463.2	712.7	0.00	0.00	0.00
5,950.0	10.00	325.00	5,879.9	668.6	-468.2	720.3	0.00	0.00	0.00
6,000.0	10.00	325.00	5,929.1	675.8	-473.2	728.0	0.00	0.00	0.00
6,050.0	10.00	325.00	5,978.3	682.9	-478.1	735.6	0.00	0.00	0.00
6,100.0	10.00	325.00	6,027.6	690.0	-483.1	743.3	0.00	0.00	0.00
6,115.7	10.00	325.00	6,043.0	692.2	-484.7	745.7	0.00	0.00	0.00
TEEPER BUTTES									
6,150.0	10.00	325.00	6,076.8	697.1	-488.1	751.0	0.00	0.00	0.00
6,200.0	10.00	325.00	6,126.1	704.2	-493.1	758.6	0.00	0.00	0.00
6,250.0	10.00	325.00	6,175.3	711.3	-498.1	766.3	0.00	0.00	0.00
6,300.0	10.00	325.00	6,224.5	718.4	-503.0	774.0	0.00	0.00	0.00
6,350.0	10.00	325.00	6,273.8	725.5	-508.0	781.6	0.00	0.00	0.00
6,400.0	10.00	325.00	6,323.0	732.6	-513.0	789.3	0.00	0.00	0.00
6,450.0	10.00	325.00	6,372.3	739.8	-518.0	796.9	0.00	0.00	0.00
6,500.0	10.00	325.00	6,421.5	746.9	-523.0	804.6	0.00	0.00	0.00
6,521.8	10.00	325.00	6,443.0	750.0	-525.1	807.9	0.00	0.00	0.00
Start DLS 7.23 TFO 6.19									
6,550.0	12.03	326.05	6,470.7	754.4	-528.2	812.7	7.22	7.19	3.74
6,600.0	15.63	327.26	6,519.2	764.4	-534.7	823.4	7.23	7.21	2.41
6,650.0	19.24	328.02	6,566.9	777.1	-542.7	837.0	7.23	7.22	1.52
6,700.0	22.85	328.55	6,613.5	792.3	-552.2	853.3	7.23	7.22	1.06
6,750.0	26.46	328.94	6,659.0	810.2	-563.0	872.3	7.23	7.22	0.78
6,769.1	27.84	329.06	6,676.0	817.6	-567.5	880.2	7.22	7.22	0.65
Start DLS 7.23 TFO 35.02									
6,800.0	29.70	331.65	6,703.1	830.6	-574.8	894.0	7.24	6.01	8.38
6,850.0	32.79	335.26	6,745.8	853.8	-586.4	918.4	7.23	6.19	7.22
6,900.0	35.97	338.31	6,787.1	879.7	-597.5	945.5	7.23	6.36	6.09
UPRC 35-4F									
6,950.0	39.22	340.92	6,826.7	908.3	-608.1	975.2	7.23	6.49	5.22
7,000.0	42.52	343.18	6,864.5	939.4	-618.1	1,007.3	7.23	6.60	4.53
7,050.0	45.85	345.18	6,900.3	973.0	-627.6	1,041.7	7.23	6.67	3.99
7,078.7	47.79	346.23	6,920.0	993.3	-632.8	1,062.5	7.23	6.72	3.65
SHARON SPRINGS									

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Pepler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Pepler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,100.0	49.22	346.96	6,934.1	1,008.8	-636.5	1,078.3	7.23	6.75	3.45	
7,144.1	52.21	348.39	6,962.0	1,042.1	-643.8	1,112.3	7.23	6.78	3.24	
NIOBRARA - NIO A CHALK										
7,150.0	52.62	348.57	6,965.6	1,046.7	-644.7	1,116.9	7.23	6.80	3.09	
7,172.5	54.15	349.25	6,979.0	1,064.4	-648.2	1,134.9	7.23	6.82	3.01	
NIO A MARL										
7,200.0	56.03	350.04	6,994.8	1,086.6	-652.2	1,157.5	7.23	6.83	2.88	
7,250.0	59.46	351.40	7,021.4	1,128.3	-659.0	1,199.7	7.23	6.86	2.71	
7,285.9	61.92	352.31	7,039.0	1,159.3	-663.4	1,231.0	7.23	6.88	2.55	
NIO B CHALK										
7,300.0	62.90	352.66	7,045.6	1,171.7	-665.1	1,243.5	7.23	6.89	2.47	
7,337.8	65.51	353.56	7,062.0	1,205.5	-669.2	1,277.5	7.23	6.90	2.39	
NIO B MARL										
7,350.0	66.35	353.85	7,067.0	1,216.6	-670.4	1,288.7	7.23	6.91	2.32	
7,400.0	69.81	354.97	7,085.6	1,262.7	-674.9	1,335.0	7.23	6.92	2.25	
7,450.0	73.28	356.05	7,101.5	1,310.0	-678.6	1,382.4	7.23	6.94	2.15	
7,500.0	76.75	357.09	7,114.4	1,358.2	-681.5	1,430.6	7.23	6.95	2.08	
7,542.2	79.69	357.94	7,123.0	1,399.5	-683.3	1,471.8	7.23	6.95	2.02	
NIO C CHALK										
7,550.0	80.23	358.10	7,124.4	1,407.1	-683.5	1,479.4	7.23	6.96	2.00	
7,600.0	83.71	359.09	7,131.3	1,456.6	-684.8	1,528.7	7.23	6.96	1.98	
7,618.5	85.00	359.45	7,133.2	1,475.0	-685.0	1,547.0	7.23	6.96	1.96	
Start 50.0 hold at 7618.5 MD - 7" Casing @ 7618.5' MD										
7,650.0	85.00	359.45	7,135.9	1,506.4	-685.3	1,578.2	0.00	0.00	0.00	
7,668.5	85.00	359.45	7,137.6	1,524.8	-685.5	1,596.5	0.00	0.00	0.00	
Start Build 4.00										
7,700.0	86.26	359.45	7,140.0	1,556.2	-685.8	1,627.7	4.00	4.00	0.00	
7,750.0	88.26	359.45	7,142.3	1,606.1	-686.3	1,677.3	4.00	4.00	0.00	
7,793.5	90.00	359.45	7,143.0	1,649.6	-686.7	1,720.5	4.00	4.00	0.00	
7,800.0	90.00	359.45	7,143.0	1,656.1	-686.7	1,727.0	0.00	0.00	0.00	
7,850.0	90.00	359.45	7,143.0	1,706.1	-687.2	1,776.7	0.00	0.00	0.00	
7,900.0	90.00	359.45	7,143.0	1,756.1	-687.7	1,826.4	0.00	0.00	0.00	
7,950.0	90.00	359.45	7,143.0	1,806.1	-688.2	1,876.1	0.00	0.00	0.00	
8,000.0	90.00	359.45	7,143.0	1,856.1	-688.7	1,925.8	0.00	0.00	0.00	
8,050.0	90.00	359.45	7,143.0	1,906.1	-689.1	1,975.4	0.00	0.00	0.00	
8,100.0	90.00	359.45	7,143.0	1,956.1	-689.6	2,025.1	0.00	0.00	0.00	
8,150.0	90.00	359.45	7,143.0	2,006.1	-690.1	2,074.8	0.00	0.00	0.00	
8,200.0	90.00	359.45	7,143.0	2,056.1	-690.6	2,124.5	0.00	0.00	0.00	
8,250.0	90.00	359.45	7,143.0	2,106.1	-691.1	2,174.2	0.00	0.00	0.00	
8,300.0	90.00	359.45	7,143.0	2,156.1	-691.5	2,223.9	0.00	0.00	0.00	
8,350.0	90.00	359.45	7,143.0	2,206.1	-692.0	2,273.6	0.00	0.00	0.00	
8,400.0	90.00	359.45	7,143.0	2,256.1	-692.5	2,323.3	0.00	0.00	0.00	
8,450.0	90.00	359.45	7,143.0	2,306.1	-693.0	2,373.0	0.00	0.00	0.00	
8,500.0	90.00	359.45	7,143.0	2,356.1	-693.5	2,422.6	0.00	0.00	0.00	
8,550.0	90.00	359.45	7,143.0	2,406.1	-693.9	2,472.3	0.00	0.00	0.00	
8,600.0	90.00	359.45	7,143.0	2,456.1	-694.4	2,522.0	0.00	0.00	0.00	
8,650.0	90.00	359.45	7,143.0	2,506.1	-694.9	2,571.7	0.00	0.00	0.00	
8,700.0	90.00	359.45	7,143.0	2,556.1	-695.4	2,621.4	0.00	0.00	0.00	
8,750.0	90.00	359.45	7,143.0	2,606.1	-695.9	2,671.1	0.00	0.00	0.00	
8,800.0	90.00	359.45	7,143.0	2,656.1	-696.4	2,720.8	0.00	0.00	0.00	
8,850.0	90.00	359.45	7,143.0	2,706.1	-696.8	2,770.5	0.00	0.00	0.00	
8,900.0	90.00	359.45	7,143.0	2,756.1	-697.3	2,820.2	0.00	0.00	0.00	
8,950.0	90.00	359.45	7,143.0	2,806.1	-697.8	2,869.9	0.00	0.00	0.00	

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,000.0	90.00	359.45	7,143.0	2,856.1	-698.3	2,919.5	0.00	0.00	0.00	
9,050.0	90.00	359.45	7,143.0	2,906.1	-698.8	2,969.2	0.00	0.00	0.00	
9,100.0	90.00	359.45	7,143.0	2,956.1	-699.2	3,018.9	0.00	0.00	0.00	
9,150.0	90.00	359.45	7,143.0	3,006.1	-699.7	3,068.6	0.00	0.00	0.00	
9,200.0	90.00	359.45	7,143.0	3,056.1	-700.2	3,118.3	0.00	0.00	0.00	
9,250.0	90.00	359.45	7,143.0	3,106.1	-700.7	3,168.0	0.00	0.00	0.00	
9,300.0	90.00	359.45	7,143.0	3,156.1	-701.2	3,217.7	0.00	0.00	0.00	
9,350.0	90.00	359.45	7,143.0	3,206.1	-701.6	3,267.4	0.00	0.00	0.00	
9,400.0	90.00	359.45	7,143.0	3,256.1	-702.1	3,317.1	0.00	0.00	0.00	
9,450.0	90.00	359.45	7,143.0	3,306.1	-702.6	3,366.7	0.00	0.00	0.00	
9,500.0	90.00	359.45	7,143.0	3,356.1	-703.1	3,416.4	0.00	0.00	0.00	
9,550.0	90.00	359.45	7,143.0	3,406.1	-703.6	3,466.1	0.00	0.00	0.00	
9,600.0	90.00	359.45	7,143.0	3,456.1	-704.1	3,515.8	0.00	0.00	0.00	
9,650.0	90.00	359.45	7,143.0	3,506.1	-704.5	3,565.5	0.00	0.00	0.00	
9,700.0	90.00	359.45	7,143.0	3,556.0	-705.0	3,615.2	0.00	0.00	0.00	
9,750.0	90.00	359.45	7,143.0	3,606.0	-705.5	3,664.9	0.00	0.00	0.00	
9,800.0	90.00	359.45	7,143.0	3,656.0	-706.0	3,714.6	0.00	0.00	0.00	
9,850.0	90.00	359.45	7,143.0	3,706.0	-706.5	3,764.3	0.00	0.00	0.00	
9,900.0	90.00	359.45	7,143.0	3,756.0	-707.0	3,814.0	0.00	0.00	0.00	
9,950.0	90.00	359.45	7,143.0	3,806.0	-707.4	3,863.6	0.00	0.00	0.00	
10,000.0	90.00	359.45	7,143.0	3,856.0	-707.9	3,913.3	0.00	0.00	0.00	
10,050.0	90.00	359.45	7,143.0	3,906.0	-708.4	3,963.0	0.00	0.00	0.00	
10,100.0	90.00	359.45	7,143.0	3,956.0	-708.9	4,012.7	0.00	0.00	0.00	
10,150.0	90.00	359.45	7,143.0	4,006.0	-709.4	4,062.4	0.00	0.00	0.00	
10,200.0	90.00	359.45	7,143.0	4,056.0	-709.9	4,112.1	0.00	0.00	0.00	
10,250.0	90.00	359.45	7,143.0	4,106.0	-710.3	4,161.8	0.00	0.00	0.00	
10,300.0	90.00	359.45	7,143.0	4,156.0	-710.8	4,211.5	0.00	0.00	0.00	
10,350.0	90.00	359.45	7,143.0	4,206.0	-711.3	4,261.2	0.00	0.00	0.00	
10,400.0	90.00	359.45	7,143.0	4,256.0	-711.8	4,310.8	0.00	0.00	0.00	
10,450.0	90.00	359.45	7,143.0	4,306.0	-712.3	4,360.5	0.00	0.00	0.00	
10,500.0	90.00	359.45	7,143.0	4,356.0	-712.8	4,410.2	0.00	0.00	0.00	
10,550.0	90.00	359.45	7,143.0	4,406.0	-713.2	4,459.9	0.00	0.00	0.00	
10,600.0	90.00	359.45	7,143.0	4,456.0	-713.7	4,509.6	0.00	0.00	0.00	
10,650.0	90.00	359.45	7,143.0	4,506.0	-714.2	4,559.3	0.00	0.00	0.00	
10,700.0	90.00	359.45	7,143.0	4,556.0	-714.7	4,609.0	0.00	0.00	0.00	
10,750.0	90.00	359.45	7,143.0	4,606.0	-715.2	4,658.7	0.00	0.00	0.00	
10,800.0	90.00	359.45	7,143.0	4,656.0	-715.7	4,708.4	0.00	0.00	0.00	
10,850.0	90.00	359.45	7,143.0	4,706.0	-716.1	4,758.1	0.00	0.00	0.00	
10,900.0	90.00	359.45	7,143.0	4,756.0	-716.6	4,807.7	0.00	0.00	0.00	
10,950.0	90.00	359.45	7,143.0	4,806.0	-717.1	4,857.4	0.00	0.00	0.00	
11,000.0	90.00	359.45	7,143.0	4,856.0	-717.6	4,907.1	0.00	0.00	0.00	
11,050.0	90.00	359.45	7,143.0	4,906.0	-718.1	4,956.8	0.00	0.00	0.00	
11,100.0	90.00	359.45	7,143.0	4,956.0	-718.6	5,006.5	0.00	0.00	0.00	
11,150.0	90.00	359.45	7,143.0	5,006.0	-719.0	5,056.2	0.00	0.00	0.00	
11,200.0	90.00	359.45	7,143.0	5,056.0	-719.5	5,105.9	0.00	0.00	0.00	
11,250.0	90.00	359.45	7,143.0	5,106.0	-720.0	5,155.6	0.00	0.00	0.00	
11,300.0	90.00	359.45	7,143.0	5,156.0	-720.5	5,205.3	0.00	0.00	0.00	
11,350.0	90.00	359.44	7,143.0	5,206.0	-721.0	5,254.9	0.00	0.00	0.00	
11,400.0	90.00	359.44	7,143.0	5,256.0	-721.5	5,304.6	0.00	0.00	0.00	
11,450.0	90.00	359.44	7,143.0	5,306.0	-721.9	5,354.3	0.00	0.00	0.00	
11,500.0	90.00	359.44	7,143.0	5,356.0	-722.4	5,404.0	0.00	0.00	0.00	
11,550.0	90.00	359.44	7,143.0	5,406.0	-722.9	5,453.7	0.00	0.00	0.00	
11,600.0	90.00	359.44	7,143.0	5,456.0	-723.4	5,503.4	0.00	0.00	0.00	
11,650.0	90.00	359.44	7,143.0	5,506.0	-723.9	5,553.1	0.00	0.00	0.00	

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,700.0	90.00	359.44	7,143.0	5,556.0	-724.4	5,602.8	0.00	0.00	0.00
11,750.0	90.00	359.44	7,143.0	5,606.0	-724.9	5,652.5	0.00	0.00	0.00
11,800.0	90.00	359.44	7,143.0	5,656.0	-725.3	5,702.2	0.00	0.00	0.00
11,850.0	90.00	359.44	7,143.0	5,705.9	-725.8	5,751.8	0.00	0.00	0.00
11,900.0	90.00	359.44	7,143.0	5,755.9	-726.3	5,801.5	0.00	0.00	0.00
11,950.0	90.00	359.44	7,143.0	5,805.9	-726.8	5,851.2	0.00	0.00	0.00
12,000.0	90.00	359.44	7,143.0	5,855.9	-727.3	5,900.9	0.00	0.00	0.00
12,050.0	90.00	359.44	7,143.0	5,905.9	-727.8	5,950.6	0.00	0.00	0.00
12,100.0	90.00	359.44	7,143.0	5,955.9	-728.3	6,000.3	0.00	0.00	0.00
12,127.3	90.00	359.44	7,143.0	5,983.2	-728.5	6,027.4	0.00	0.00	0.00
TD at 12127.3 - Peppler K26-79-1HN BHL 75°FNL, 330°FWL - Peppler K26-79-1HC BHL 75°FNL, 330°FWL - Peppler K36-79-1HC BHL 75°FNL									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Peppler K26-79-1HN BH - plan hits target center - Point	0.00	0.00	7,143.0	5,983.2	-728.5	1,349,333.71	3,208,452.36	40.289910	-104.752750

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
7,618.5	7,133.2	7" Casing @ 7618.5' MD	7	8-3/4	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,442.8	1,441.0	PIERRE		0.00		
3,807.6	3,770.0	PARKMAN		0.00		
4,449.3	4,402.0	SUSSEX		0.00		
4,926.6	4,872.0	SHANNON		0.00		
6,115.7	6,043.0	TEEPEE BUTTES		0.00		
7,078.7	6,920.0	SHARON SPRINGS		0.00		
7,144.1	6,962.0	NIOBRARA		0.00		
7,144.1	6,962.0	NIO A CHALK		0.00		
7,172.5	6,979.0	NIO A MARL		0.00		
7,285.9	7,039.0	NIO B CHALK		0.00		
7,337.8	7,062.0	NIO B MARL		0.00		
7,542.2	7,123.0	NIO C CHALK		0.00		

Noble Energy Inc

Planning Report

Database:	EDM Production	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Company:	Northern Region Drilling - Working	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Project:	Wattenberg Field	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site:	K (04-66W)	North Reference:	Grid
Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Drilling		
Design:	APD - Rev 2		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.0	1,000.0	0.0	0.0	KOP - Start Build 2.00
6,521.8	6,443.0	750.0	-525.1	Start DLS 7.23 TFO 6.19
6,769.1	6,676.0	817.6	-567.5	Start DLS 7.23 TFO 35.02
7,618.5	7,133.2	1,475.0	-685.0	Start 50.0 hold at 7618.5 MD
7,668.5	7,137.6	1,524.8	-685.5	Start Build 4.00
12,127.3	7,143.0	5,983.2	-728.5	TD at 12127.3

Northern Region Drilling - Working

Wattenberg Field

K (04-66W)

Peppler K26-79-1HN

Original Drilling

APD - Rev 2

Anticollision Report

29 October, 2013

Noble Energy Inc
Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Reference	APD - Rev 2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	10/24/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	12,126.8	APD - Rev 2 (Original Drilling)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
K (04-66W)						
Peaks K26-77-1HN - Original Drilling - APD - Rev 0	1,000.0	1,000.0	47.4	43.2	11.202	CC, ES
Peaks K26-77-1HN - Original Drilling - APD - Rev 0	12,127.3	12,040.8	1,322.0	1,096.1	5.853	SF
Peaks K26-78-1HN - Original Drilling - APD - Rev 0	1,000.0	1,000.0	25.1	20.9	5.931	CC, ES
Peaks K26-78-1HN - Original Drilling - APD - Rev 0	12,127.3	12,191.2	665.8	439.4	2.941	SF

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.52	0.4	47.4	47.4				
100.0	100.0	100.0	100.0	0.1	0.1	89.52	0.4	47.4	47.4	47.2	0.19	251.251	
200.0	200.0	200.0	200.0	0.3	0.3	89.52	0.4	47.4	47.4	46.8	0.64	74.314	
300.0	300.0	300.0	300.0	0.5	0.5	89.52	0.4	47.4	47.4	46.3	1.09	43.606	
400.0	400.0	400.0	400.0	0.8	0.8	89.52	0.4	47.4	47.4	45.9	1.54	30.855	
500.0	500.0	500.0	500.0	1.0	1.0	89.52	0.4	47.4	47.4	45.5	1.99	23.875	
600.0	600.0	600.0	600.0	1.2	1.2	89.52	0.4	47.4	47.4	45.0	2.44	19.470	
700.0	700.0	700.0	700.0	1.4	1.4	89.52	0.4	47.4	47.4	44.6	2.89	16.437	
800.0	800.0	800.0	800.0	1.7	1.7	89.52	0.4	47.4	47.4	44.1	3.34	14.222	
900.0	900.0	900.0	900.0	1.9	1.9	89.52	0.4	47.4	47.4	43.7	3.79	12.533	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	89.52	0.4	47.4	47.4	43.2	4.23	11.202	CC, ES
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	126.20	0.4	47.4	48.4	43.8	4.68	10.350	
1,200.0	1,199.8	1,199.8	1,199.8	2.6	2.6	130.83	0.4	47.4	51.7	46.6	5.12	10.094	
1,300.0	1,299.5	1,298.8	1,298.8	2.8	2.8	135.64	1.9	48.3	58.3	52.7	5.56	10.483	
1,400.0	1,398.7	1,397.6	1,397.5	3.0	3.0	138.50	6.4	50.7	68.7	62.7	6.00	11.451	
1,500.0	1,497.5	1,496.0	1,495.4	3.3	3.2	139.75	13.8	54.8	82.8	76.3	6.46	12.823	
1,600.0	1,595.9	1,593.9	1,592.7	3.6	3.5	139.49	24.0	60.5	99.0	92.0	6.94	14.250	
1,700.0	1,694.4	1,691.4	1,689.0	3.9	3.7	137.68	37.2	67.8	116.0	108.5	7.47	15.533	
1,800.0	1,792.9	1,789.7	1,785.8	4.3	4.0	135.52	52.1	76.1	133.7	125.7	8.03	16.658	
1,900.0	1,891.4	1,888.0	1,882.6	4.6	4.3	133.85	67.0	84.4	151.6	143.0	8.61	17.609	
2,000.0	1,889.9	1,886.3	1,879.4	5.0	4.6	132.54	81.9	92.6	169.6	160.3	9.21	18.414	
2,100.0	2,088.4	2,084.6	2,076.2	5.3	4.9	131.48	96.9	100.9	187.6	177.8	9.82	19.099	
2,200.0	2,186.8	2,182.9	2,173.0	5.7	5.3	130.61	111.8	109.2	205.7	195.2	10.45	19.686	

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

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design K (04-66W) - Peaks K26-77-1HN - Original Drilling - APD - Rev 0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,300.0	2,285.3	2,281.2	2,269.8	6.0	5.6	129.87	126.7	117.5	223.8	212.7	11.08	20.192		
2,400.0	2,383.8	2,379.5	2,366.6	6.4	5.9	129.25	141.7	125.7	242.0	230.2	11.73	20.631		
2,500.0	2,482.3	2,477.8	2,463.5	6.8	6.3	128.71	156.6	134.0	260.1	247.8	12.38	21.015		
2,600.0	2,580.8	2,576.1	2,560.3	7.1	6.6	128.25	171.5	142.3	278.3	265.3	13.04	21.352		
2,700.0	2,679.2	2,674.4	2,657.1	7.5	7.0	127.84	186.5	150.6	296.6	282.9	13.70	21.650		
2,800.0	2,777.7	2,772.7	2,753.9	7.9	7.3	127.47	201.4	158.8	314.8	300.4	14.36	21.915		
2,900.0	2,876.2	2,871.0	2,850.7	8.3	7.7	127.15	216.3	167.1	333.0	318.0	15.03	22.152		
3,000.0	2,974.7	2,969.3	2,947.5	8.7	8.1	126.86	231.2	175.4	351.3	335.6	15.71	22.364		
3,100.0	3,073.2	3,067.6	3,044.3	9.0	8.4	126.60	246.2	183.7	369.5	353.1	16.38	22.555		
3,200.0	3,171.6	3,165.9	3,141.1	9.4	8.8	126.37	261.1	191.9	387.8	370.7	17.06	22.729		
3,300.0	3,270.1	3,264.3	3,238.0	9.8	9.2	126.15	276.0	200.2	406.0	388.3	17.74	22.886		
3,400.0	3,368.6	3,362.6	3,334.8	10.2	9.5	125.96	291.0	208.5	424.3	405.9	18.42	23.030		
3,500.0	3,467.1	3,460.9	3,431.6	10.6	9.9	125.78	305.9	216.8	442.6	423.5	19.11	23.162		
3,600.0	3,565.6	3,559.2	3,528.4	11.0	10.3	125.61	320.8	225.1	460.9	441.1	19.80	23.282		
3,700.0	3,664.0	3,657.5	3,625.2	11.4	10.7	125.46	335.8	233.3	479.2	458.7	20.48	23.394		
3,800.0	3,762.5	3,755.8	3,722.0	11.7	11.0	125.32	350.7	241.6	497.4	476.3	21.17	23.496		
3,900.0	3,861.0	3,854.1	3,818.8	12.1	11.4	125.18	365.6	249.9	515.7	493.9	21.86	23.591		
4,000.0	3,959.5	3,952.4	3,915.6	12.5	11.8	125.06	380.6	258.2	534.0	511.5	22.55	23.680		
4,100.0	4,058.0	4,050.7	4,012.5	12.9	12.1	124.95	395.5	266.4	552.3	529.1	23.24	23.762		
4,200.0	4,156.4	4,149.0	4,109.3	13.3	12.5	124.84	410.4	274.7	570.6	546.7	23.94	23.839		
4,300.0	4,254.9	4,247.3	4,206.1	13.7	12.9	124.74	425.3	283.0	588.9	564.3	24.63	23.910		
4,400.0	4,353.4	4,345.6	4,302.9	14.1	13.3	124.65	440.3	291.3	607.2	581.9	25.33	23.977		
4,500.0	4,451.9	4,443.9	4,399.7	14.5	13.7	124.56	455.2	299.5	625.5	599.5	26.02	24.040		
4,600.0	4,550.4	4,542.2	4,496.5	14.9	14.0	124.47	470.1	307.8	643.8	617.1	26.72	24.099		
4,700.0	4,648.9	4,640.5	4,593.3	15.3	14.4	124.39	485.1	316.1	662.1	634.7	27.41	24.155		
4,800.0	4,747.3	4,738.9	4,690.2	15.6	14.8	124.32	500.0	324.4	680.4	652.3	28.11	24.207		
4,900.0	4,845.8	4,837.2	4,787.0	16.0	15.2	124.25	514.9	332.6	698.7	669.9	28.81	24.257		
5,000.0	4,944.3	4,935.5	4,883.8	16.4	15.5	124.18	529.9	340.9	717.1	687.5	29.50	24.304		
5,100.0	5,042.8	5,033.8	4,980.6	16.8	15.9	124.12	544.8	349.2	735.4	705.2	30.20	24.348		
5,200.0	5,141.3	5,132.1	5,077.4	17.2	16.3	124.05	559.7	357.5	753.7	722.8	30.90	24.390		
5,300.0	5,239.7	5,230.4	5,174.2	17.6	16.7	124.00	574.6	365.7	772.0	740.4	31.60	24.430		
5,400.0	5,338.2	5,328.7	5,271.0	18.0	17.1	123.94	589.6	374.0	790.3	758.0	32.30	24.468		
5,500.0	5,436.7	5,427.0	5,367.8	18.4	17.4	123.89	604.5	382.3	808.6	775.6	33.00	24.504		
5,600.0	5,535.2	5,525.3	5,464.7	18.8	17.8	123.84	619.4	390.6	826.9	793.2	33.70	24.538		
5,700.0	5,633.7	5,623.6	5,561.5	19.2	18.2	123.79	634.4	398.9	845.2	810.8	34.40	24.571		
5,800.0	5,732.1	5,721.9	5,658.3	19.6	18.6	123.74	649.3	407.1	863.5	828.4	35.10	24.602		
5,900.0	5,830.6	5,820.2	5,755.1	20.0	19.0	123.70	664.2	415.4	881.9	846.1	35.80	24.632		
6,000.0	5,929.1	5,918.5	5,851.9	20.3	19.3	123.66	679.2	423.7	900.2	863.7	36.50	24.660		
6,100.0	6,027.6	6,016.8	5,948.7	20.7	19.7	123.62	694.1	432.0	918.5	881.3	37.20	24.688		
6,200.0	6,126.1	6,115.1	6,045.5	21.1	20.1	123.58	709.0	440.2	936.8	898.9	37.91	24.714		
6,300.0	6,224.5	6,213.5	6,142.3	21.5	20.5	123.54	724.0	448.5	955.1	916.5	38.61	24.739		
6,400.0	6,323.0	6,311.8	6,239.2	21.9	20.9	123.50	738.9	456.8	973.4	934.1	39.31	24.763		
6,500.0	6,421.5	6,410.1	6,336.0	22.3	21.3	123.47	753.8	465.1	991.7	951.7	40.01	24.786		
6,521.8	6,443.0	6,425.8	6,351.4	22.4	21.3	123.46	756.2	466.4	995.8	955.6	40.15	24.803		
6,550.0	6,470.7	6,443.0	6,368.3	22.5	21.4	122.04	759.2	468.0	1,001.5	961.2	40.27	24.869		
6,600.0	6,519.2	6,473.2	6,397.7	22.8	21.5	120.10	765.1	471.3	1,013.4	972.8	40.51	25.013		
6,650.0	6,566.9	6,500.0	6,423.6	23.1	21.7	118.47	771.2	474.7	1,027.5	986.7	40.77	25.201		
6,700.0	6,613.5	6,532.0	6,454.2	23.4	21.8	116.97	779.4	479.2	1,043.7	1,002.6	41.10	25.393		
6,750.0	6,659.0	6,560.4	6,481.1	23.8	22.0	115.47	787.5	483.7	1,061.9	1,020.5	41.46	25.614		
6,769.1	6,676.0	6,571.1	6,491.1	23.9	22.1	114.89	790.8	485.5	1,069.4	1,027.8	41.61	25.701		
6,800.0	6,703.1	6,588.3	6,507.1	24.2	22.2	111.79	796.3	488.5	1,081.8	1,039.8	42.03	25.741		
6,850.0	6,745.8	6,615.8	6,532.4	24.6	22.4	107.39	805.8	493.7	1,102.0	1,059.3	42.74	25.786		

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

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design K (04-66W) - Peaks K26-77-1HN - Original Drilling - APD - Rev 0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.0	6,787.1	6,650.0	6,563.3	25.1	22.6	103.69	818.6	500.7	1,122.4	1,078.9	43.52	25.789		
6,950.0	6,826.7	6,670.1	6,581.2	25.6	22.8	100.31	826.6	505.1	1,142.9	1,098.6	44.28	25.813		
7,000.0	6,864.5	6,700.0	6,607.4	26.1	23.1	97.46	839.3	512.1	1,163.4	1,118.3	45.11	25.793		
7,050.0	6,900.3	6,723.4	6,627.5	26.7	23.3	94.85	849.8	517.9	1,184.0	1,138.0	45.93	25.778		
7,100.0	6,934.1	6,753.1	6,652.4	27.3	23.5	92.61	863.8	525.6	1,204.4	1,157.6	46.80	25.734		
7,150.0	6,965.6	6,805.8	6,695.5	27.9	24.0	91.04	890.9	539.3	1,224.4	1,176.5	47.88	25.573		
7,200.0	6,994.8	6,869.0	6,744.9	28.5	24.7	89.86	927.2	554.8	1,242.9	1,193.8	49.10	25.315		
7,250.0	7,021.4	6,935.6	6,793.9	29.2	25.4	88.90	969.7	570.0	1,260.0	1,209.5	50.42	24.987		
7,300.0	7,045.6	7,005.8	6,841.9	29.9	26.2	88.15	1,018.8	584.6	1,275.3	1,223.5	51.87	24.586		
7,350.0	7,067.0	7,079.6	6,887.9	30.6	27.1	87.56	1,074.8	598.1	1,288.9	1,235.5	53.46	24.112		
7,400.0	7,085.6	7,157.0	6,930.8	31.3	28.1	87.13	1,138.0	610.4	1,300.5	1,245.4	55.17	23.573		
7,450.0	7,101.5	7,237.8	6,969.4	32.0	29.2	86.83	1,208.1	620.8	1,310.1	1,253.0	57.03	22.973		
7,500.0	7,114.4	7,321.5	7,002.3	32.8	30.4	86.62	1,284.6	629.0	1,317.4	1,258.4	59.01	22.326		
7,550.0	7,124.4	7,407.6	7,028.3	33.5	31.7	86.51	1,366.5	634.7	1,322.3	1,261.2	61.09	21.644		
7,600.0	7,131.3	7,495.5	7,046.2	34.3	33.0	86.46	1,452.4	637.4	1,324.9	1,261.6	63.27	20.941		
7,618.5	7,133.2	7,528.2	7,050.7	34.6	33.5	86.45	1,484.8	637.6	1,325.2	1,261.1	64.09	20.678		
7,668.5	7,137.6	7,589.4	7,056.4	35.3	34.5	86.47	1,545.8	637.1	1,325.2	1,259.3	65.90	20.109		
7,700.0	7,140.0	7,619.9	7,059.0	35.8	34.9	86.48	1,576.2	636.7	1,325.2	1,258.2	66.92	19.803		
7,793.5	7,143.0	7,708.5	7,063.0	37.3	36.3	86.54	1,664.6	635.8	1,325.0	1,255.1	69.93	18.949		
7,800.0	7,143.0	7,714.6	7,063.0	37.4	36.4	86.54	1,670.8	635.8	1,325.0	1,254.9	70.14	18.892		
7,900.0	7,143.0	7,813.8	7,063.1	39.0	37.9	86.54	1,770.0	634.7	1,324.9	1,251.6	73.34	18.065		
8,000.0	7,143.0	7,913.8	7,063.1	40.5	39.4	86.54	1,870.0	633.7	1,324.8	1,248.3	76.48	17.323		
8,100.0	7,143.0	8,013.8	7,063.1	42.1	40.9	86.54	1,969.9	632.6	1,324.7	1,245.1	79.67	16.627		
8,200.0	7,143.0	8,113.8	7,063.1	43.7	42.5	86.54	2,069.9	631.6	1,324.6	1,241.7	82.93	15.974		
8,300.0	7,143.0	8,213.8	7,063.1	45.3	44.1	86.54	2,169.9	630.5	1,324.6	1,238.3	86.23	15.361		
8,400.0	7,143.0	8,313.8	7,063.1	46.9	45.7	86.54	2,269.9	629.5	1,324.5	1,234.9	89.57	14.787		
8,500.0	7,143.0	8,413.8	7,063.1	48.6	47.3	86.54	2,369.9	628.4	1,324.4	1,231.4	92.95	14.248		
8,600.0	7,143.0	8,513.8	7,063.1	50.3	49.0	86.54	2,469.9	627.4	1,324.3	1,227.9	96.37	13.742		
8,700.0	7,143.0	8,613.7	7,063.1	52.0	50.7	86.54	2,569.9	626.4	1,324.2	1,224.4	99.82	13.266		
8,800.0	7,143.0	8,713.7	7,063.1	53.7	52.3	86.54	2,669.9	625.3	1,324.2	1,220.9	103.30	12.819		
8,900.0	7,143.0	8,813.7	7,063.1	55.4	54.1	86.54	2,769.8	624.3	1,324.1	1,217.3	106.80	12.398		
9,000.0	7,143.0	8,913.7	7,063.1	57.1	55.8	86.54	2,869.8	623.2	1,324.0	1,213.7	110.32	12.001		
9,100.0	7,143.0	9,013.7	7,063.1	58.9	57.5	86.54	2,969.8	622.2	1,323.9	1,210.1	113.87	11.627		
9,200.0	7,143.0	9,113.7	7,063.1	60.6	59.3	86.54	3,069.8	621.2	1,323.8	1,206.4	117.43	11.273		
9,300.0	7,143.0	9,213.7	7,063.1	62.4	61.0	86.54	3,169.8	620.1	1,323.8	1,202.8	121.01	10.939		
9,400.0	7,143.0	9,313.7	7,063.1	64.2	62.8	86.54	3,269.8	619.1	1,323.7	1,199.1	124.61	10.623		
9,500.0	7,143.0	9,413.7	7,063.1	66.0	64.6	86.54	3,369.8	618.0	1,323.6	1,195.4	128.22	10.323		
9,600.0	7,143.0	9,513.7	7,063.1	67.8	66.3	86.54	3,469.8	617.0	1,323.6	1,191.7	131.85	10.039		
9,700.0	7,143.0	9,613.7	7,063.1	69.6	68.1	86.54	3,569.7	616.0	1,323.5	1,188.0	135.48	9.769		
9,800.0	7,143.0	9,713.7	7,063.1	71.4	69.9	86.54	3,669.7	614.9	1,323.4	1,184.3	139.13	9.512		
9,900.0	7,143.0	9,813.7	7,063.1	73.2	71.7	86.54	3,769.7	613.9	1,323.3	1,180.6	142.79	9.268		
10,000.0	7,143.0	9,913.6	7,063.1	75.0	73.5	86.54	3,869.7	612.9	1,323.3	1,176.8	146.45	9.035		
10,100.0	7,143.0	10,013.6	7,063.1	76.8	75.4	86.54	3,969.7	611.8	1,323.2	1,173.1	150.13	8.814		
10,200.0	7,143.0	10,113.6	7,063.1	78.6	77.2	86.54	4,069.7	610.8	1,323.1	1,169.3	153.82	8.602		
10,300.0	7,143.0	10,213.6	7,063.1	80.5	79.0	86.54	4,169.7	609.8	1,323.1	1,165.6	157.51	8.400		
10,400.0	7,143.0	10,313.6	7,063.1	82.3	80.8	86.54	4,269.6	608.7	1,323.0	1,161.8	161.21	8.207		
10,500.0	7,143.0	10,413.6	7,063.1	84.1	82.7	86.54	4,369.6	607.7	1,322.9	1,158.0	164.91	8.022		
10,600.0	7,143.0	10,513.6	7,063.1	86.0	84.5	86.54	4,469.6	606.7	1,322.9	1,154.2	168.62	7.845		
10,700.0	7,143.0	10,613.6	7,063.1	87.8	86.4	86.54	4,569.6	605.6	1,322.8	1,150.5	172.34	7.675		
10,800.0	7,143.0	10,713.6	7,063.1	89.7	88.2	86.53	4,669.6	604.6	1,322.7	1,146.7	176.07	7.513		
10,900.0	7,143.0	10,813.6	7,063.1	91.5	90.1	86.53	4,769.6	603.6	1,322.7	1,142.9	179.79	7.357		
11,000.0	7,143.0	10,913.6	7,063.0	93.4	91.9	86.53	4,869.6	602.5	1,322.6	1,139.1	183.53	7.207		

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

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design K (04-66W) - Peaks K26-77-1HN - Original Drilling - APD - Rev 0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,100.0	7,143.0	11,013.6	7,063.0	95.2	93.8	86.53	4,969.6	601.5	1,322.6	1,135.3	187.26	7.063	
11,200.0	7,143.0	11,113.6	7,063.0	97.1	95.6	86.53	5,069.5	600.5	1,322.5	1,131.5	191.01	6.924	
11,300.0	7,143.0	11,213.5	7,063.0	99.0	97.5	86.53	5,169.5	599.5	1,322.4	1,127.7	194.75	6.790	
11,400.0	7,143.0	11,313.5	7,063.0	100.8	99.4	86.53	5,269.5	598.4	1,322.4	1,123.9	198.50	6.662	
11,500.0	7,143.0	11,413.5	7,063.0	102.7	101.2	86.53	5,369.5	597.4	1,322.3	1,120.1	202.26	6.538	
11,600.0	7,143.0	11,513.5	7,063.0	104.5	103.1	86.53	5,469.5	596.4	1,322.3	1,116.3	206.01	6.418	
11,700.0	7,143.0	11,613.5	7,063.0	106.4	105.0	86.53	5,569.5	595.4	1,322.2	1,112.4	209.77	6.303	
11,800.0	7,143.0	11,713.5	7,063.0	108.3	106.9	86.53	5,669.5	594.3	1,322.2	1,108.6	213.53	6.192	
11,900.0	7,143.0	11,813.5	7,063.0	110.2	108.7	86.53	5,769.5	593.3	1,322.1	1,104.8	217.30	6.084	
12,000.0	7,143.0	11,913.5	7,063.0	112.0	110.6	86.53	5,869.4	592.3	1,322.1	1,101.0	221.07	5.980	
12,100.0	7,143.0	12,013.5	7,063.0	113.9	112.5	86.53	5,969.4	591.3	1,322.0	1,097.2	224.84	5.880	
12,127.3	7,143.0	12,040.8	7,063.0	114.4	113.0	86.53	5,996.7	591.0	1,322.0	1,096.1	225.85	5.853 SF	

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design K (04-66W) - Peaks K26-78-1HN - Original Drilling - APD - Rev 0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
0.0	0.0	0.0	0.0	0.0	0.0	89.51	0.2	25.1	25.1					
100.0	100.0	100.0	100.0	0.1	0.1	89.51	0.2	25.1	25.1	24.9	0.19	133.015		
200.0	200.0	200.0	200.0	0.3	0.3	89.51	0.2	25.1	25.1	24.5	0.64	39.343		
300.0	300.0	300.0	300.0	0.5	0.5	89.51	0.2	25.1	25.1	24.0	1.09	23.085		
400.0	400.0	400.0	400.0	0.8	0.8	89.51	0.2	25.1	25.1	23.6	1.54	16.335		
500.0	500.0	500.0	500.0	1.0	1.0	89.51	0.2	25.1	25.1	23.1	1.99	12.639		
600.0	600.0	600.0	600.0	1.2	1.2	89.51	0.2	25.1	25.1	22.7	2.44	10.307		
700.0	700.0	700.0	700.0	1.4	1.4	89.51	0.2	25.1	25.1	22.2	2.89	8.702		
800.0	800.0	800.0	800.0	1.7	1.7	89.51	0.2	25.1	25.1	21.8	3.34	7.529		
900.0	900.0	900.0	900.0	1.9	1.9	89.51	0.2	25.1	25.1	21.3	3.79	6.635		
1,000.0	1,000.0	1,000.0	1,000.0	2.1	2.1	89.51	0.2	25.1	25.1	20.9	4.23	5.931 CC, ES		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	127.64	0.2	25.1	26.1	21.5	4.68	5.585		
1,200.0	1,199.8	1,199.8	1,199.8	2.6	2.6	135.63	0.2	25.1	29.6	24.5	5.12	5.784		
1,300.0	1,299.5	1,299.5	1,299.5	2.8	2.8	145.18	0.2	25.1	36.4	30.8	5.56	6.541		
1,400.0	1,398.7	1,398.7	1,398.7	3.0	3.0	153.60	0.2	25.1	46.9	40.9	6.00	7.824		
1,500.0	1,497.5	1,497.5	1,497.5	3.3	3.2	160.00	0.2	25.1	61.3	54.9	6.42	9.549		
1,600.0	1,595.9	1,595.9	1,595.9	3.6	3.5	164.37	0.2	25.1	77.9	71.0	6.87	11.338		
1,700.0	1,694.4	1,694.4	1,694.4	3.9	3.7	167.20	0.2	25.1	94.8	87.4	7.32	12.940		
1,800.0	1,792.9	1,792.9	1,792.9	4.3	3.9	169.17	0.2	25.1	111.8	104.0	7.78	14.371		
1,900.0	1,891.4	1,894.5	1,894.5	4.6	4.1	170.19	1.8	25.0	127.8	119.5	8.24	15.505		
2,000.0	1,989.9	1,997.2	1,997.1	5.0	4.4	170.00	7.0	24.8	141.1	132.4	8.71	16.210		
2,100.0	2,088.4	2,100.5	2,099.9	5.3	4.6	168.90	15.9	24.4	151.9	142.7	9.18	16.541		
2,200.0	2,186.8	2,204.1	2,202.7	5.7	4.8	167.02	28.6	23.8	160.1	150.5	9.67	16.552		
2,300.0	2,285.3	2,307.7	2,305.1	6.0	5.1	164.38	45.0	23.0	166.1	155.9	10.19	16.296		
2,400.0	2,383.8	2,411.2	2,406.5	6.4	5.4	160.98	65.1	22.0	170.0	159.3	10.75	15.821		
2,500.0	2,482.3	2,514.1	2,506.7	6.8	5.7	156.77	88.7	20.9	172.4	161.0	11.36	15.173		
2,600.0	2,580.8	2,616.3	2,605.3	7.1	6.1	151.71	115.6	19.6	173.8	161.8	12.06	14.410		
2,700.0	2,679.2	2,715.8	2,700.5	7.5	6.5	146.08	144.5	18.2	175.4	162.5	12.86	13.638		
2,800.0	2,777.7	2,814.3	2,794.7	7.9	6.9	140.58	173.4	16.9	178.5	164.8	13.72	13.007		
2,900.0	2,876.2	2,912.8	2,888.8	8.3	7.3	135.32	202.2	15.5	183.3	168.6	14.64	12.515		
3,000.0	2,974.7	3,011.2	2,982.9	8.7	7.8	130.36	231.0	14.1	189.5	173.9	15.60	12.151		
3,100.0	3,073.2	3,109.7	3,077.1	9.0	8.2	125.74	259.8	12.8	197.2	180.6	16.57	11.899		
3,200.0	3,171.6	3,208.1	3,171.2	9.4	8.7	121.48	288.7	11.4	206.0	188.4	17.54	11.741		
3,300.0	3,270.1	3,306.6	3,265.3	9.8	9.2	117.58	317.5	10.0	215.9	197.4	18.51	11.662		
3,400.0	3,368.6	3,405.1	3,359.5	10.2	9.7	114.03	346.3	8.7	226.7	207.2	19.46	11.646		
3,500.0	3,467.1	3,503.5	3,453.6	10.6	10.3	110.81	375.1	7.3	238.3	217.9	20.40	11.680		
3,600.0	3,565.6	3,602.0	3,547.7	11.0	10.8	107.89	404.0	5.9	250.6	229.2	21.32	11.753		
3,700.0	3,664.0	3,700.4	3,641.9	11.4	11.3	105.25	432.8	4.5	263.4	241.2	22.22	11.855		
3,800.0	3,762.5	3,798.9	3,736.0	11.7	11.8	102.85	461.6	3.2	276.8	253.7	23.11	11.979		
3,900.0	3,861.0	3,897.3	3,830.2	12.1	12.4	100.68	490.4	1.8	290.6	266.6	23.98	12.120		
4,000.0	3,959.5	3,995.8	3,924.3	12.5	12.9	98.70	519.3	0.4	304.8	280.0	24.84	12.273		
4,100.0	4,058.0	4,094.3	4,018.4	12.9	13.5	96.90	548.1	-0.9	319.3	293.6	25.68	12.434		
4,200.0	4,156.4	4,192.7	4,112.6	13.3	14.0	95.26	576.9	-2.3	334.1	307.6	26.52	12.600		
4,300.0	4,254.9	4,291.2	4,206.7	13.7	14.5	93.75	605.7	-3.7	349.2	321.8	27.35	12.769		
4,400.0	4,353.4	4,389.6	4,300.8	14.1	15.1	92.37	634.6	-5.1	364.5	336.3	28.17	12.939		
4,500.0	4,451.9	4,488.1	4,395.0	14.5	15.7	91.10	663.4	-6.4	379.9	350.9	28.98	13.109		
4,600.0	4,550.4	4,586.6	4,489.1	14.9	16.2	89.93	692.2	-7.8	395.6	365.8	29.79	13.279		
4,700.0	4,648.9	4,686.6	4,584.8	15.3	16.8	88.84	721.4	-9.2	411.3	380.7	30.59	13.447		
4,800.0	4,747.3	4,794.0	4,688.3	15.6	17.2	88.07	750.2	-10.6	425.8	394.5	31.32	13.595		
4,900.0	4,845.8	4,902.3	4,793.6	16.0	17.6	87.78	775.3	-11.8	438.3	406.2	32.05	13.672		
5,000.0	4,944.3	5,011.2	4,900.4	16.4	18.0	87.95	796.5	-12.8	448.6	415.8	32.79	13.681		
5,100.0	5,042.8	5,120.3	5,008.1	16.8	18.3	88.55	813.6	-13.6	456.9	423.4	33.53	13.626		

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

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design K (04-66W) - Peaks K26-78-1HN - Original Drilling - APD - Rev 0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,141.3	5,229.3	5,116.3	17.2	18.6	89.55	826.6	-14.2	463.2	428.9	34.27	13.517		
5,300.0	5,239.7	5,337.9	5,224.6	17.6	18.8	90.95	835.5	-14.6	467.6	432.6	34.99	13.364		
5,400.0	5,338.2	5,445.8	5,332.4	18.0	19.0	92.75	840.3	-14.8	470.5	434.8	35.69	13.181		
5,500.0	5,436.7	5,550.2	5,436.7	18.4	19.2	94.85	841.2	-14.9	472.0	435.7	36.36	12.984		
5,600.0	5,535.2	5,648.7	5,535.2	18.8	19.3	96.91	841.2	-14.9	473.9	436.9	36.99	12.811		
5,700.0	5,633.7	5,747.1	5,633.7	19.2	19.4	98.95	841.2	-14.9	476.3	438.7	37.60	12.668		
5,800.0	5,732.1	5,845.6	5,732.1	19.6	19.6	100.97	841.2	-14.9	479.3	441.2	38.18	12.554		
5,900.0	5,830.6	5,944.1	5,830.6	20.0	19.7	102.97	841.2	-14.9	483.0	444.2	38.74	12.467		
6,000.0	5,929.1	6,042.6	5,929.1	20.3	19.8	104.93	841.2	-14.9	487.2	448.0	39.28	12.405		
6,100.0	6,027.6	6,141.1	6,027.6	20.7	20.0	106.85	841.2	-14.9	492.1	452.3	39.79	12.368		
6,200.0	6,126.1	6,239.5	6,126.1	21.1	20.1	108.74	841.2	-14.9	497.4	457.2	40.27	12.352		
6,300.0	6,224.5	6,338.0	6,224.5	21.5	20.2	110.59	841.2	-14.9	503.4	462.6	40.74	12.357		
6,400.0	6,323.0	6,436.5	6,323.0	21.9	20.4	112.39	841.2	-14.9	509.8	468.6	41.18	12.380		
6,500.0	6,421.5	6,535.0	6,421.5	22.3	20.5	114.15	841.2	-14.9	516.8	475.2	41.60	12.422		
6,521.8	6,443.0	6,556.5	6,443.0	22.4	20.6	114.53	841.2	-14.9	518.3	476.7	41.69	12.433		
6,550.0	6,470.7	6,584.1	6,470.7	22.5	20.6	113.87	841.2	-14.9	520.6	478.8	41.80	12.455		
6,600.0	6,519.2	6,632.7	6,519.2	22.8	20.7	113.54	841.2	-14.9	525.5	483.5	41.99	12.515		
6,650.0	6,566.9	6,676.7	6,563.2	23.1	20.8	113.55	842.6	-14.9	531.9	489.7	42.23	12.597		
6,700.0	6,613.5	6,721.2	6,607.5	23.4	20.9	113.66	846.7	-14.9	540.0	497.5	42.52	12.699		
6,750.0	6,659.0	6,766.1	6,651.9	23.8	21.0	113.77	853.6	-15.0	549.7	506.9	42.89	12.818		
6,769.1	6,676.0	6,783.4	6,668.8	23.9	21.1	113.80	857.0	-15.1	553.9	510.8	43.05	12.867		
6,800.0	6,703.1	6,811.5	6,696.2	24.2	21.2	111.71	863.4	-15.1	560.7	517.3	43.43	12.912		
6,850.0	6,745.8	6,857.7	6,740.5	24.6	21.5	108.91	876.2	-15.3	571.6	527.5	44.09	12.965		
6,900.0	6,787.1	6,904.5	6,784.6	25.1	21.8	106.67	892.2	-15.4	582.2	537.4	44.82	12.990		
6,950.0	6,826.7	6,952.3	6,828.3	25.6	22.1	104.87	911.3	-15.6	592.4	546.8	45.62	12.987		
7,000.0	6,864.5	7,000.8	6,871.4	26.1	22.5	103.41	933.7	-15.9	602.3	555.8	46.49	12.956		
7,050.0	6,900.3	7,050.3	6,913.5	26.7	22.9	102.24	959.5	-16.2	611.7	564.3	47.44	12.896		
7,100.0	6,934.1	7,100.6	6,954.6	27.3	23.4	101.29	988.7	-16.5	620.7	572.2	48.46	12.808		
7,150.0	6,965.6	7,151.9	6,994.1	27.9	23.9	100.52	1,021.3	-16.8	629.0	579.5	49.56	12.693		
7,200.0	6,994.8	7,204.0	7,031.9	28.5	24.5	99.90	1,057.2	-17.2	636.8	586.0	50.73	12.552		
7,250.0	7,021.4	7,257.1	7,067.5	29.2	25.1	99.42	1,096.5	-17.6	643.8	591.9	51.97	12.387		
7,300.0	7,045.6	7,311.0	7,100.6	29.9	25.8	99.04	1,139.0	-18.1	650.2	596.9	53.29	12.200		
7,350.0	7,067.0	7,365.7	7,130.8	30.6	26.5	98.75	1,184.6	-18.6	655.7	601.0	54.68	11.992		
7,400.0	7,085.6	7,421.2	7,157.8	31.3	27.3	98.55	1,233.1	-19.1	660.4	604.3	56.13	11.766		
7,450.0	7,101.5	7,477.4	7,181.3	32.0	28.2	98.41	1,284.1	-19.6	664.3	606.6	57.64	11.525		
7,500.0	7,114.4	7,534.1	7,200.8	32.8	29.0	98.34	1,337.4	-20.2	667.2	608.0	59.20	11.271		
7,550.0	7,124.4	7,591.4	7,216.2	33.5	29.9	98.32	1,392.5	-20.8	669.2	608.4	60.80	11.006		
7,600.0	7,131.3	7,649.0	7,227.2	34.3	30.9	98.35	1,449.1	-21.4	670.3	607.8	62.44	10.734		
7,618.5	7,133.2	7,670.4	7,230.1	34.6	31.2	98.37	1,470.2	-21.6	670.4	607.4	63.06	10.632		
7,668.5	7,137.6	7,723.8	7,235.2	35.3	32.1	98.40	1,523.4	-22.2	670.4	605.7	64.74	10.355		
7,679.5	7,138.5	7,734.8	7,236.2	35.5	32.3	98.41	1,534.3	-22.3	670.4	605.3	65.12	10.296		
7,700.0	7,140.0	7,755.3	7,238.0	35.8	32.6	98.43	1,554.8	-22.5	670.4	604.6	65.81	10.188		
7,793.5	7,143.0	7,857.4	7,242.0	37.3	34.3	98.49	1,656.8	-23.6	670.4	601.3	69.15	9.695		
7,800.0	7,143.0	7,863.9	7,242.0	37.4	34.5	98.49	1,663.3	-23.7	670.4	601.0	69.37	9.664		
7,900.0	7,143.0	7,963.9	7,242.0	39.0	36.2	98.49	1,763.3	-24.8	670.3	597.6	72.69	9.222		
8,000.0	7,143.0	8,063.9	7,242.0	40.5	37.9	98.49	1,863.2	-25.9	670.2	594.2	75.99	8.820		
8,100.0	7,143.0	8,163.9	7,242.0	42.1	39.6	98.50	1,963.2	-26.9	670.1	590.7	79.33	8.446		
8,200.0	7,143.0	8,263.9	7,242.0	43.7	41.4	98.50	2,063.2	-28.0	670.0	587.2	82.72	8.099		
8,300.0	7,143.0	8,363.9	7,242.0	45.3	43.2	98.50	2,163.2	-29.1	669.9	583.7	86.14	7.777		
8,400.0	7,143.0	8,463.9	7,242.0	46.9	45.0	98.50	2,263.2	-30.2	669.7	580.2	89.59	7.476		
8,500.0	7,143.0	8,563.9	7,242.0	48.6	46.8	98.50	2,363.2	-31.2	669.6	576.6	93.07	7.195		
8,600.0	7,143.0	8,663.9	7,242.0	50.3	48.6	98.50	2,463.2	-32.3	669.5	573.0	96.57	6.933		

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

Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:		0.0 usft
Survey Program: 0-MWD												Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor	
8,700.0	7,143.0	8,763.9	7,242.0	52.0	50.4	98.50	2,563.2	-33.4	669.4	569.3	100.09	6.688		
8,800.0	7,143.0	8,863.9	7,242.0	53.7	52.2	98.51	2,663.2	-34.4	669.3	565.7	103.64	6.458		
8,900.0	7,143.0	8,963.9	7,242.0	55.4	54.0	98.51	2,763.2	-35.5	669.2	562.0	107.20	6.242		
9,000.0	7,143.0	9,063.9	7,242.0	57.1	55.9	98.51	2,863.2	-36.6	669.1	558.3	110.78	6.040		
9,100.0	7,143.0	9,163.9	7,242.0	58.9	57.7	98.51	2,963.2	-37.7	669.0	554.6	114.37	5.849		
9,200.0	7,143.0	9,263.9	7,242.0	60.6	59.6	98.51	3,063.2	-38.7	668.9	550.9	117.98	5.669		
9,300.0	7,143.0	9,363.9	7,242.0	62.4	61.4	98.51	3,163.2	-39.8	668.8	547.2	121.60	5.500		
9,400.0	7,143.0	9,463.9	7,242.0	64.2	63.3	98.51	3,263.2	-40.9	668.6	543.4	125.23	5.339		
9,500.0	7,143.0	9,563.9	7,242.0	66.0	65.1	98.52	3,363.2	-42.0	668.5	539.7	128.87	5.188		
9,600.0	7,143.0	9,663.9	7,242.0	67.8	67.0	98.52	3,463.2	-43.0	668.4	535.9	132.52	5.044		
9,700.0	7,143.0	9,763.9	7,242.0	69.6	68.9	98.52	3,563.1	-44.1	668.3	532.2	136.17	4.908		
9,800.0	7,143.0	9,863.9	7,242.0	71.4	70.7	98.52	3,663.1	-45.2	668.2	528.4	139.84	4.779		
9,900.0	7,143.0	9,963.9	7,242.0	73.2	72.6	98.52	3,763.1	-46.3	668.1	524.6	143.51	4.656		
10,000.0	7,143.0	10,063.9	7,242.0	75.0	74.5	98.52	3,863.1	-47.3	668.0	520.8	147.19	4.538		
10,100.0	7,143.0	10,163.9	7,242.0	76.8	76.4	98.52	3,963.1	-48.4	667.9	517.0	150.87	4.427		
10,200.0	7,143.0	10,263.9	7,242.0	78.6	78.2	98.53	4,063.1	-49.5	667.8	513.2	154.56	4.320		
10,300.0	7,143.0	10,363.9	7,242.0	80.5	80.1	98.53	4,163.1	-50.6	667.7	509.4	158.26	4.219		
10,400.0	7,143.0	10,463.9	7,242.0	82.3	82.0	98.53	4,263.1	-51.6	667.6	505.6	161.96	4.122		
10,500.0	7,143.0	10,563.9	7,242.0	84.1	83.9	98.53	4,363.1	-52.7	667.5	501.8	165.67	4.029		
10,600.0	7,143.0	10,663.9	7,242.0	86.0	85.8	98.53	4,463.1	-53.8	667.4	498.0	169.38	3.940		
10,700.0	7,143.0	10,763.9	7,242.0	87.8	87.7	98.53	4,563.1	-54.8	667.3	494.2	173.09	3.855		
10,800.0	7,143.0	10,863.9	7,242.0	89.7	89.5	98.53	4,663.1	-55.9	667.2	490.3	176.81	3.773		
10,900.0	7,143.0	10,963.9	7,242.0	91.5	91.4	98.53	4,763.1	-57.0	667.1	486.5	180.53	3.695		
11,000.0	7,143.0	11,063.9	7,242.0	93.4	93.3	98.54	4,863.1	-58.1	666.9	482.7	184.26	3.620		
11,100.0	7,143.0	11,163.9	7,242.0	95.2	95.2	98.54	4,963.1	-59.1	666.8	478.9	187.98	3.547		
11,200.0	7,143.0	11,263.9	7,242.0	97.1	97.1	98.54	5,063.1	-60.2	666.7	475.0	191.72	3.478		
11,300.0	7,143.0	11,363.9	7,242.0	99.0	99.0	98.54	5,163.1	-61.3	666.6	471.2	195.45	3.411		
11,400.0	7,143.0	11,463.9	7,242.0	100.8	100.9	98.54	5,263.0	-62.4	666.5	467.3	199.19	3.346		
11,500.0	7,143.0	11,563.9	7,242.0	102.7	102.8	98.54	5,363.0	-63.4	666.4	463.5	202.92	3.284		
11,600.0	7,143.0	11,663.9	7,242.0	104.5	104.7	98.54	5,463.0	-64.5	666.3	459.7	206.67	3.224		
11,700.0	7,143.0	11,763.9	7,242.0	106.4	106.6	98.55	5,563.0	-65.6	666.2	455.8	210.41	3.166		
11,800.0	7,143.0	11,863.9	7,242.0	108.3	108.5	98.55	5,663.0	-66.7	666.1	452.0	214.16	3.110		
11,900.0	7,143.0	11,963.9	7,242.0	110.2	110.4	98.55	5,763.0	-67.7	666.0	448.1	217.90	3.056		
12,000.0	7,143.0	12,063.9	7,242.0	112.0	112.3	98.55	5,863.0	-68.8	665.9	444.3	221.65	3.004		
12,100.0	7,143.0	12,163.9	7,242.0	113.9	114.2	98.55	5,963.0	-69.9	665.8	440.4	225.40	2.954		
12,127.3	7,143.0	12,191.2	7,242.0	114.4	114.7	98.55	5,990.3	-70.2	665.8	439.4	226.41	2.941 SF		

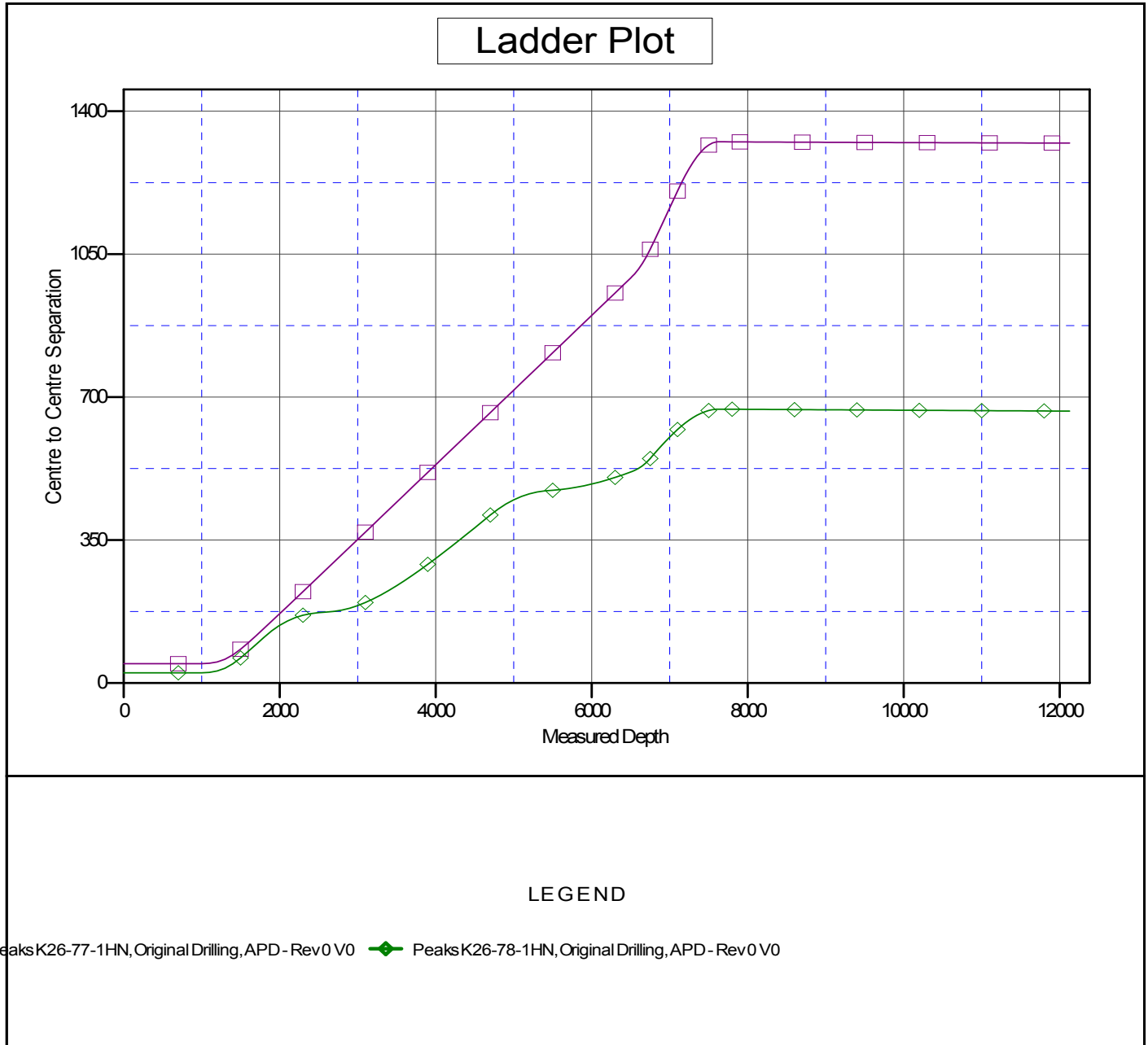
Noble Energy Inc

Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4803.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Peppler K26-79-1HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.48°



Noble Energy Inc
Anticollision Report

Company:	Northern Region Drilling - Working	Local Co-ordinate Reference:	Well Peppler K26-79-1HN
Project:	Wattenberg Field	TVD Reference:	WELL @ 4803.0usft (Original Well Elev)
Reference Site:	K (04-66W)	MD Reference:	WELL @ 4803.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Peppler K26-79-1HN	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Original Drilling	Database:	EDM Production
Reference Design:	APD - Rev 2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4803.0usft (Original Well Ele
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: Peppler K26-79-1HN
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.48°

