



NPR 22B-10 596
Plan #3 (5-01-18)
14:29, May 01 2018



Azimuths to True North
Magnetic North: 9.60°

Magnetic Field
Strength: 51480.0snT
Dip Angle: 65.83°
Date: 5/1/2018
Model: HDGM

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
SHL 2113'FNL, 171'FEL, SEC.15	1.0	0.0	0.0	39.616556	-108.146050	Point
Top of Gas Interval 701'FSL, 1135'FEL, SEC.10	2813.0	2813.9	-974.1	39.624281	-108.149508	Point
BHL 640'FSL, 1304'FEL, SEC.10	9525.0	2752.0	-1143.1	39.624111	-108.150108	Ellipse (Radii: L200.0 W100.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	650.0	3.00	270.00	649.9	0.0	-3.9	2.00	270.00	1.5	
4	1778.0	34.68	341.55	1707.9	313.6	-138.9	3.00	75.78	342.9	
5	5813.4	34.68	341.55	5026.2	2492.0	-865.6	0.00	0.00	2633.4	
6	6969.5	0.00	0.00	6113.0	2813.9	-973.0	3.00	180.00	2971.9	
7	7288.1	3.19	250.00	6431.4	2810.9	-981.3	1.00	250.00	2972.3	
8	10386.5	3.19	250.00	9525.0	2752.0	-1143.1	0.00	0.00	2980.0	BHL 640'FSL, 1304'FEL, SEC.10



Caerus Oil and Gas LLC

SEC.15-T5S-R96W

NPR H15 596 South Pad Sec.15-T5S-R96W

NPR 22B-10 596

Wellbore #1

Plan: Plan #3 (5-01-18)

Standard Planning Report

01 May, 2018

Database:	US_EDM	Local Co-ordinate Reference:	Well NPR 22B-10 596
Company:	Caerus Oil and Gas LLC	TVD Reference:	WELL @ 6453.0ft (Original Well Elev)
Project:	SEC.15-T5S-R96W	MD Reference:	WELL @ 6453.0ft (Original Well Elev)
Site:	NPR H15 596 South Pad Sec.15-T5S-R96W	North Reference:	True
Well:	NPR 22B-10 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-01-18)		

Project	SEC.15-T5S-R96W, Garfield County, CO		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		Using Well Reference Point
Map Zone:	Zone 12N (114 W to 108 W)		Using geodetic scale factor

Site	NPR H15 596 South Pad Sec.15-T5S-R96W				
Site Position:		Northing:	14,399,246.79 usft	Latitude:	39.616700
From:	Lat/Long	Easting:	2,444,190.74 usft	Longitude:	-108.146093
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.82

Well	NPR 22B-10 596					
Well Position	+N/-S	-52.5 ft	Northing:	14,399,194.73 usft	Latitude:	39.616556
	+E/-W	11.9 ft	Easting:	2,444,204.32 usft	Longitude:	-108.146050
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,429.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/1/2018	9.60	65.83	51,480

Design	Plan #3 (5-01-18)			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	337.44

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
650.0	3.00	270.00	649.9	0.0	-3.9	2.00	2.00	0.00	270.00	
1,778.0	34.68	341.55	1,707.9	313.6	-138.9	3.00	2.81	6.34	75.78	
5,813.4	34.68	341.55	5,026.2	2,492.0	-865.6	0.00	0.00	0.00	0.00	
6,969.5	0.00	0.00	6,113.0	2,813.9	-973.0	3.00	-3.00	0.00	180.00	
7,288.1	3.19	250.00	6,431.4	2,810.9	-981.3	1.00	1.00	-34.52	250.00	
10,386.5	3.19	250.00	9,525.0	2,752.0	-1,143.1	0.00	0.00	0.00	0.00	BHL 640'FSL, 1304'FI

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Project:	SEC.15-T5S-R96W	MD Reference:	WELL @ 6453.0ft (Original Well Elev)
Site:	NPR H15 596 South Pad Sec.15-T5S-R96W	North Reference:	True
Well:	NPR 22B-10 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-01-18)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
1.0	0.00	0.00	1.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL 2113'FNL, 171'FEL, SEC.15									
100.0	0.00	0.00	100.0	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
300.0	0.00	0.00	300.0	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
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	270.00	600.0	0.0	-1.7	0.7	2.00	2.00	0.00
650.0	3.00	270.00	649.9	0.0	-3.9	1.5	2.00	2.00	0.00
700.0	3.67	293.36	699.8	0.6	-6.7	3.2	3.00	1.34	46.73
800.0	5.99	316.80	799.5	5.7	-13.2	10.3	3.00	2.32	23.44
900.0	8.73	326.45	898.7	15.8	-21.0	22.7	3.00	2.74	9.65
1,000.0	11.60	331.44	997.1	31.0	-30.0	40.1	3.00	2.87	4.99
1,100.0	14.53	334.46	1,094.5	51.2	-40.2	62.7	3.00	2.92	3.02
1,200.0	17.47	336.48	1,190.6	76.2	-51.6	90.2	3.00	2.95	2.02
1,300.0	20.44	337.93	1,285.2	106.2	-64.2	122.7	3.00	2.96	1.45
1,400.0	23.41	339.02	1,377.9	140.9	-77.8	160.0	3.00	2.97	1.10
1,500.0	26.39	339.88	1,468.6	180.3	-92.6	202.1	3.00	2.98	0.86
1,600.0	29.37	340.58	1,557.0	224.4	-108.4	248.8	3.00	2.98	0.70
1,649.7	30.85	340.88	1,600.0	247.9	-116.6	273.7	3.00	2.98	0.61
WASATCH.NPC									
1,700.0	32.35	341.16	1,642.8	272.8	-125.2	300.0	3.00	2.99	0.55
1,778.0	34.68	341.55	1,707.9	313.6	-138.9	342.9	3.00	2.99	0.50
1,800.0	34.68	341.55	1,726.0	325.5	-142.9	355.4	0.00	0.00	0.00
1,900.0	34.68	341.55	1,808.2	379.5	-160.9	412.2	0.00	0.00	0.00
2,000.0	34.68	341.55	1,890.4	433.5	-178.9	468.9	0.00	0.00	0.00
2,100.0	34.68	341.55	1,972.7	487.4	-196.9	525.7	0.00	0.00	0.00
2,200.0	34.68	341.55	2,054.9	541.4	-214.9	582.5	0.00	0.00	0.00
2,300.0	34.68	341.55	2,137.1	595.4	-232.9	639.2	0.00	0.00	0.00
2,400.0	34.68	341.55	2,219.3	649.4	-251.0	696.0	0.00	0.00	0.00
2,500.0	34.68	341.55	2,301.6	703.4	-269.0	752.7	0.00	0.00	0.00
2,600.0	34.68	341.55	2,383.8	757.3	-287.0	809.5	0.00	0.00	0.00
2,700.0	34.68	341.55	2,466.0	811.3	-305.0	866.2	0.00	0.00	0.00
2,741.3	34.68	341.55	2,500.0	833.6	-312.4	889.7	0.00	0.00	0.00
9 5/8"									
2,800.0	34.68	341.55	2,548.3	865.3	-323.0	923.0	0.00	0.00	0.00
2,900.0	34.68	341.55	2,630.5	919.3	-341.0	979.8	0.00	0.00	0.00
3,000.0	34.68	341.55	2,712.7	973.3	-359.0	1,036.5	0.00	0.00	0.00
3,100.0	34.68	341.55	2,795.0	1,027.2	-377.0	1,093.3	0.00	0.00	0.00
3,200.0	34.68	341.55	2,877.2	1,081.2	-395.0	1,150.0	0.00	0.00	0.00
3,300.0	34.68	341.55	2,959.4	1,135.2	-413.0	1,206.8	0.00	0.00	0.00
3,400.0	34.68	341.55	3,041.6	1,189.2	-431.0	1,263.6	0.00	0.00	0.00
3,500.0	34.68	341.55	3,123.9	1,243.2	-449.0	1,320.3	0.00	0.00	0.00
3,600.0	34.68	341.55	3,206.1	1,297.2	-467.0	1,377.1	0.00	0.00	0.00
3,700.0	34.68	341.55	3,288.3	1,351.1	-485.0	1,433.8	0.00	0.00	0.00
3,800.0	34.68	341.55	3,370.6	1,405.1	-503.1	1,490.6	0.00	0.00	0.00
3,900.0	34.68	341.55	3,452.8	1,459.1	-521.1	1,547.4	0.00	0.00	0.00
4,000.0	34.68	341.55	3,535.0	1,513.1	-539.1	1,604.1	0.00	0.00	0.00
4,100.0	34.68	341.55	3,617.3	1,567.1	-557.1	1,660.9	0.00	0.00	0.00
4,179.9	34.68	341.55	3,683.0	1,610.2	-571.5	1,706.2	0.00	0.00	0.00
WASATCH_G.NPC									
4,200.0	34.68	341.55	3,699.5	1,621.0	-575.1	1,717.6	0.00	0.00	0.00
4,300.0	34.68	341.55	3,781.7	1,675.0	-593.1	1,774.4	0.00	0.00	0.00

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Site:	NPR H15 596 South Pad Sec.15-T5S-R96W	North Reference:	True
Well:	NPR 22B-10 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-01-18)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.0	34.68	341.55	3,863.9	1,729.0	-611.1	1,831.1	0.00	0.00	0.00
4,500.0	34.68	341.55	3,946.2	1,783.0	-629.1	1,887.9	0.00	0.00	0.00
4,600.0	34.68	341.55	4,028.4	1,837.0	-647.1	1,944.7	0.00	0.00	0.00
4,605.6	34.68	341.55	4,033.0	1,840.0	-648.1	1,947.8	0.00	0.00	0.00
FORT_UNION.NPC									
4,700.0	34.68	341.55	4,110.6	1,890.9	-665.1	2,001.4	0.00	0.00	0.00
4,800.0	34.68	341.55	4,192.9	1,944.9	-683.1	2,058.2	0.00	0.00	0.00
4,900.0	34.68	341.55	4,275.1	1,998.9	-701.1	2,114.9	0.00	0.00	0.00
5,000.0	34.68	341.55	4,357.3	2,052.9	-719.1	2,171.7	0.00	0.00	0.00
5,100.0	34.68	341.55	4,439.6	2,106.9	-737.1	2,228.5	0.00	0.00	0.00
5,200.0	34.68	341.55	4,521.8	2,160.8	-755.2	2,285.2	0.00	0.00	0.00
5,300.0	34.68	341.55	4,604.0	2,214.8	-773.2	2,342.0	0.00	0.00	0.00
5,400.0	34.68	341.55	4,686.3	2,268.8	-791.2	2,398.7	0.00	0.00	0.00
5,500.0	34.68	341.55	4,768.5	2,322.8	-809.2	2,455.5	0.00	0.00	0.00
5,600.0	34.68	341.55	4,850.7	2,376.8	-827.2	2,512.2	0.00	0.00	0.00
5,700.0	34.68	341.55	4,932.9	2,430.7	-845.2	2,569.0	0.00	0.00	0.00
5,800.0	34.68	341.55	5,015.2	2,484.7	-863.2	2,625.8	0.00	0.00	0.00
5,813.4	34.68	341.55	5,026.2	2,492.0	-865.6	2,633.4	0.00	0.00	0.00
5,900.0	32.09	341.55	5,098.5	2,537.2	-880.7	2,680.9	3.00	-3.00	0.00
6,000.0	29.09	341.55	5,184.6	2,585.4	-896.8	2,731.6	3.00	-3.00	0.00
6,100.0	26.09	341.55	5,273.2	2,629.3	-911.4	2,777.8	3.00	-3.00	0.00
6,200.0	23.09	341.55	5,364.1	2,668.8	-924.6	2,819.3	3.00	-3.00	0.00
6,300.0	20.09	341.55	5,457.1	2,703.7	-936.2	2,856.0	3.00	-3.00	0.00
6,400.0	17.09	341.55	5,551.9	2,733.9	-946.3	2,887.8	3.00	-3.00	0.00
6,500.0	14.09	341.55	5,648.2	2,759.4	-954.8	2,914.6	3.00	-3.00	0.00
6,600.0	11.09	341.55	5,745.8	2,780.1	-961.7	2,936.3	3.00	-3.00	0.00
6,700.0	8.09	341.55	5,844.4	2,795.9	-967.0	2,952.9	3.00	-3.00	0.00
6,798.3	5.14	341.55	5,942.0	2,806.6	-970.6	2,964.2	3.00	-3.00	0.00
OHIO_CREEK.MBL									
6,800.0	5.09	341.55	5,943.7	2,806.8	-970.6	2,964.4	3.00	-3.00	0.00
6,900.0	2.09	341.55	6,043.5	2,812.7	-972.6	2,970.6	3.00	-3.00	0.00
6,969.5	0.00	0.00	6,113.0	2,813.9	-973.0	2,971.9	3.00	-3.00	0.00
7,000.0	0.30	250.00	6,143.5	2,813.9	-973.1	2,971.9	1.00	1.00	0.00
7,019.5	0.50	250.00	6,163.0	2,813.8	-973.2	2,971.9	1.00	1.00	0.00
WILLIAMS_FORK.MBL									
7,069.5	1.00	250.00	6,213.0	2,813.6	-973.8	2,971.9	1.00	1.00	0.00
TOP_GAS.MBL - Top of Gas Interval 701'FSL, 1135'FEL, SEC.10									
7,100.0	1.30	250.00	6,243.5	2,813.4	-974.4	2,971.9	1.00	1.00	0.00
7,200.0	2.30	250.00	6,343.4	2,812.3	-977.4	2,972.1	1.00	1.00	0.00
7,288.1	3.19	250.00	6,431.4	2,810.9	-981.3	2,972.3	1.00	1.00	0.00
7,300.0	3.19	250.00	6,443.3	2,810.6	-981.9	2,972.3	0.00	0.00	0.00
7,400.0	3.19	250.00	6,543.1	2,808.7	-987.2	2,972.5	0.00	0.00	0.00
7,500.0	3.19	250.00	6,643.0	2,806.8	-992.4	2,972.8	0.00	0.00	0.00
7,600.0	3.19	250.00	6,742.8	2,804.9	-997.6	2,973.0	0.00	0.00	0.00
7,700.0	3.19	250.00	6,842.7	2,803.0	-1,002.8	2,973.3	0.00	0.00	0.00
7,800.0	3.19	250.00	6,942.5	2,801.1	-1,008.1	2,973.5	0.00	0.00	0.00
7,900.0	3.19	250.00	7,042.4	2,799.2	-1,013.3	2,973.8	0.00	0.00	0.00
8,000.0	3.19	250.00	7,142.2	2,797.3	-1,018.5	2,974.0	0.00	0.00	0.00
8,100.0	3.19	250.00	7,242.0	2,795.4	-1,023.7	2,974.3	0.00	0.00	0.00
8,200.0	3.19	250.00	7,341.9	2,793.5	-1,028.9	2,974.5	0.00	0.00	0.00
8,300.0	3.19	250.00	7,441.7	2,791.6	-1,034.2	2,974.8	0.00	0.00	0.00
8,400.0	3.19	250.00	7,541.6	2,789.7	-1,039.4	2,975.0	0.00	0.00	0.00
8,500.0	3.19	250.00	7,641.4	2,787.8	-1,044.6	2,975.3	0.00	0.00	0.00

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Wellbore:	Wellbore #1		
Design:	Plan #3 (5-01-18)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,600.0	3.19	250.00	7,741.3	2,785.9	-1,049.8	2,975.5	0.00	0.00	0.00	
8,700.0	3.19	250.00	7,841.1	2,784.0	-1,055.1	2,975.8	0.00	0.00	0.00	
8,800.0	3.19	250.00	7,941.0	2,782.1	-1,060.3	2,976.0	0.00	0.00	0.00	
8,900.0	3.19	250.00	8,040.8	2,780.2	-1,065.5	2,976.3	0.00	0.00	0.00	
9,000.0	3.19	250.00	8,140.7	2,778.3	-1,070.7	2,976.5	0.00	0.00	0.00	
9,100.0	3.19	250.00	8,240.5	2,776.4	-1,076.0	2,976.8	0.00	0.00	0.00	
9,200.0	3.19	250.00	8,340.3	2,774.5	-1,081.2	2,977.0	0.00	0.00	0.00	
9,300.0	3.19	250.00	8,440.2	2,772.6	-1,086.4	2,977.3	0.00	0.00	0.00	
9,400.0	3.19	250.00	8,540.0	2,770.7	-1,091.6	2,977.5	0.00	0.00	0.00	
9,500.0	3.19	250.00	8,639.9	2,768.8	-1,096.8	2,977.8	0.00	0.00	0.00	
9,590.3	3.19	250.00	8,730.0	2,767.1	-1,101.6	2,978.0	0.00	0.00	0.00	
CAMEO.MBL										
9,600.0	3.19	250.00	8,739.7	2,766.9	-1,102.1	2,978.0	0.00	0.00	0.00	
9,700.0	3.19	250.00	8,839.6	2,765.0	-1,107.3	2,978.3	0.00	0.00	0.00	
9,800.0	3.19	250.00	8,939.4	2,763.1	-1,112.5	2,978.5	0.00	0.00	0.00	
9,900.0	3.19	250.00	9,039.3	2,761.2	-1,117.7	2,978.8	0.00	0.00	0.00	
10,000.0	3.19	250.00	9,139.1	2,759.3	-1,123.0	2,979.0	0.00	0.00	0.00	
10,100.0	3.19	250.00	9,239.0	2,757.4	-1,128.2	2,979.2	0.00	0.00	0.00	
10,200.0	3.19	250.00	9,338.8	2,755.5	-1,133.4	2,979.5	0.00	0.00	0.00	
10,211.2	3.19	250.00	9,350.0	2,755.3	-1,134.0	2,979.5	0.00	0.00	0.00	
ROLLINS.MBL										
10,300.0	3.19	250.00	9,438.6	2,753.6	-1,138.6	2,979.7	0.00	0.00	0.00	
10,386.5	3.19	250.00	9,525.0	2,752.0	-1,143.1	2,980.0	0.00	0.00	0.00	
TD.MBL - BHL 1454'FNL, 1688'FEL, SEC.15 - BHL 640'FSL, 1304'FEL, SEC.10										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL 2113'FNL, 171'FEL - plan hits target center - Point	0.00	0.00	1.0	0.0	0.0	14,399,194.73	2,444,204.32	39.616556	-108.146050
Top of Gas Interval 701'f - plan misses target center by 0.4ft at 7069.5ft MD (6213.0 TVD, 2813.6 N, -973.8 E) - Point	0.00	0.00	6,213.0	2,813.9	-974.1	14,401,977.19	2,443,140.93	39.624281	-108.149508
BHL 640'FSL, 1304'FEL - plan hits target center - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	9,525.0	2,752.0	-1,143.1	14,401,909.91	2,442,973.90	39.624111	-108.150108

Casing Points						
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")
	2,741.3	2,500.0	9 5/8"		9-5/8	12-1/4

Database:	US_EDM	Local Co-ordinate Reference:	Well NPR 22B-10 596
Company:	Caerus Oil and Gas LLC	TVD Reference:	WELL @ 6453.0ft (Original Well Elev)
Project:	SEC.15-T5S-R96W	MD Reference:	WELL @ 6453.0ft (Original Well Elev)
Site:	NPR H15 596 South Pad Sec.15-T5S-R96W	North Reference:	True
Well:	NPR 22B-10 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #3 (5-01-18)		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,649.7	1,600.0	WASATCH.NPC		0.00		
4,179.9	3,683.0	WASATCH_G.NPC		0.00		
4,605.6	4,033.0	FORT_UNION.NPC		0.00		
6,798.3	5,942.0	OHIO_CREEK.MBL		0.00		
7,019.5	6,163.0	WILLIAMS_FORK.MBL		0.00		
7,069.5	6,213.0	TOP_GAS.MBL		0.00		
9,590.3	8,730.0	CAMEO.MBL		0.00		
10,211.2	9,350.0	ROLLINS.MBL		0.00		
10,386.5	9,525.0	TD.MBL		0.00		