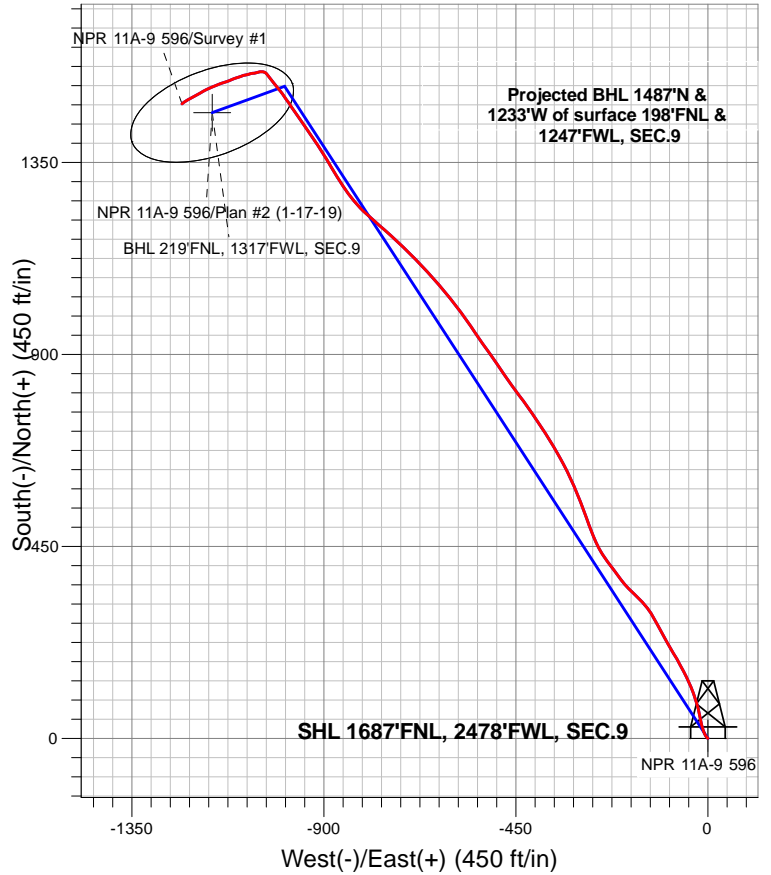


Caerus Oil and Gas LLC



LEGEND

- ▲ NPR 11A-9 596, NPR 11A-9 596 Wellbore #1, Plan #2 (1-17-19) V0
- NPR 11A-9 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
10,349'MD & 10061' TVD @ 1931.09'VS
4.5 deg Inc 229.4 deg AZ

Project: SEC.9-T5S-R96W
 Site: NPR G09 596 Pad Sec.9-T5S-R96W
 Well: NPR 11A-9 596
 Plan: NPR 11A-9 596 Wellbore #1



Caerus Oil and Gas LLC

SEC.9-T5S-R96W

NPR G09 596 Pad Sec.9-T5S-R96W

NPR 11A-9 596

NPR 11A-9 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

29 January, 2019

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11A-9 596
Project:	SEC.9-T5S-R96W	TVD Reference:	WELL @ 7670.0ft (Original Well Elev)
Site:	NPR G09 596 Pad Sec.9-T5S-R96W	MD Reference:	WELL @ 7670.0ft (Original Well Elev)
Well:	NPR 11A-9 596	North Reference:	True
Wellbore:	NPR 11A-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-9 596 Wellbore #1	Database:	US_EDM

Project	SEC.9-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 G09 596 Pad Sec.9-T5S-R96W				
Site Position:		Northing:	14,404,590.33 usft	Latitude:	39.632067
From:	Lat/Long	Easting:	2,436,015.01 usft	Longitude:	-108.174492
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.80 °

Well	NPR 11A-9 596					
Well Position	+N/-S	0.0 ft	Northing:	14,404,645.40 usft	Latitude:	39.632209
	+E/-W	0.0 ft	Easting:	2,436,124.43 usft	Longitude:	-108.174097
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	7,640.0 ft

Wellbore	NPR 11A-9 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/17/2019	9.53	65.80	51,389

Design	NPR 11A-9 596 Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0		321.60

Survey Program	Date	1/29/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
120.0	10,349.0	Survey #1 (NPR 11A-9 596 Wellbore #1)	MWD	MWD - Standard	

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 1687'FNL, 2478'FWL, SEC.9										
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00	
211.0	1.30	307.50	211.0	0.6	-0.8	1.0	1.43	1.43	0.00	
303.0	2.50	318.40	302.9	2.8	-3.0	4.0	1.36	1.30	11.85	
394.0	4.80	327.40	393.8	7.5	-6.3	9.8	2.60	2.53	9.89	
486.0	8.00	340.40	485.2	16.7	-10.6	19.7	3.80	3.48	14.13	
578.0	10.20	347.10	576.0	30.7	-14.5	33.1	2.65	2.39	7.28	
673.0	12.90	348.30	669.1	49.3	-18.6	50.2	2.85	2.84	1.26	
767.0	15.30	345.80	760.2	71.6	-23.7	70.9	2.63	2.55	-2.66	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11A-9 596
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Site:	NPR G09 596 Pad Sec.9-T5S-R96W	MD Reference:	WELL @ 7670.0ft (Original Well Elev)
Well:	NPR 11A-9 596	North Reference:	True
Wellbore:	NPR 11A-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-9 596 Wellbore #1	Database:	US_EDM

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)
861.0	18.50	341.80	850.2	97.8	-31.4	96.2	3.62	3.40	-4.26
956.0	20.40	335.90	939.8	127.2	-42.9	126.4	2.87	2.00	-6.21
1,050.0	20.90	332.50	1,027.7	157.1	-57.3	158.7	1.38	0.53	-3.62
1,145.0	20.00	330.50	1,116.7	186.2	-73.2	191.4	1.20	-0.95	-2.11
1,239.0	20.60	329.30	1,204.9	214.4	-89.5	223.7	0.78	0.64	-1.28
1,333.0	21.10	330.90	1,292.7	243.4	-106.2	256.8	0.81	0.53	1.70
1,427.0	20.60	332.50	1,380.6	272.9	-122.1	289.7	0.81	-0.53	1.70
1,522.0	17.40	325.10	1,470.4	299.4	-137.9	320.3	4.21	-3.37	-7.79
1,616.0	14.40	315.80	1,560.8	319.3	-154.1	346.0	4.18	-3.19	-9.89
1,711.0	12.60	314.70	1,653.2	335.1	-169.7	368.0	1.91	-1.89	-1.16
1,805.0	11.60	314.60	1,745.1	348.9	-183.7	387.6	1.06	-1.06	-0.11
1,899.0	11.60	319.70	1,837.2	362.7	-196.6	406.4	1.09	0.00	5.43
1,994.0	15.10	324.40	1,929.6	380.1	-210.0	428.3	3.85	3.68	4.95
2,089.0	16.00	322.80	2,021.1	400.6	-225.1	453.7	1.05	0.95	-1.68
2,183.0	16.80	323.60	2,111.3	421.8	-241.0	480.3	0.88	0.85	0.85
2,277.0	19.20	333.20	2,200.7	446.6	-256.0	509.0	4.05	2.55	10.21
2,372.0	19.90	338.00	2,290.2	475.5	-269.1	539.8	1.84	0.74	5.05
2,448.0	20.40	339.60	2,361.6	499.9	-278.6	564.8	0.98	0.66	2.11
2,590.0	19.90	339.10	2,494.9	545.7	-295.8	611.4	0.37	-0.35	-0.35
2,685.0	19.90	337.80	2,584.2	575.8	-307.7	642.4	0.47	0.00	-1.37
2,779.0	18.70	334.90	2,672.9	604.2	-320.1	672.4	1.63	-1.28	-3.09
2,873.0	17.60	334.20	2,762.3	630.7	-332.7	700.9	1.19	-1.17	-0.74
2,968.0	16.80	331.00	2,853.0	655.6	-345.6	728.5	1.30	-0.84	-3.37
3,062.0	18.10	329.30	2,942.7	680.1	-359.7	756.4	1.49	1.38	-1.81
3,156.0	17.40	327.50	3,032.2	704.5	-374.7	784.8	0.95	-0.74	-1.91
3,250.0	17.70	326.70	3,121.8	728.3	-390.1	813.0	0.41	0.32	-0.85
3,345.0	19.00	325.70	3,212.0	753.1	-406.7	842.8	1.41	1.37	-1.05
3,439.0	19.10	324.80	3,300.9	778.3	-424.2	873.5	0.33	0.11	-0.96
3,534.0	18.20	323.10	3,390.9	802.9	-442.1	903.8	1.11	-0.95	-1.79
3,628.0	18.50	324.10	3,480.1	826.7	-459.6	933.4	0.46	0.32	1.06
3,723.0	19.10	326.50	3,570.0	851.9	-477.0	963.9	1.03	0.63	2.53
3,817.0	19.00	325.10	3,658.9	877.2	-494.3	994.5	0.50	-0.11	-1.49
3,912.0	17.80	324.80	3,749.0	901.8	-511.5	1,024.5	1.27	-1.26	-0.32
4,006.0	17.80	325.00	3,838.5	925.3	-528.0	1,053.1	0.07	0.00	0.21
4,101.0	17.40	325.20	3,929.1	948.9	-544.5	1,081.8	0.43	-0.42	0.21
4,195.0	17.30	326.00	4,018.8	972.0	-560.3	1,109.8	0.28	-0.11	0.85
4,289.0	17.00	323.90	4,108.6	994.7	-576.2	1,137.4	0.73	-0.32	-2.23
4,384.0	17.60	322.70	4,199.3	1,017.3	-593.1	1,165.7	0.73	0.63	-1.26
4,478.0	18.30	319.60	4,288.7	1,039.9	-611.3	1,194.6	1.26	0.74	-3.30
4,573.0	17.80	319.30	4,379.1	1,062.2	-630.4	1,224.1	0.54	-0.53	-0.32
4,667.0	17.10	318.50	4,468.7	1,083.5	-648.9	1,252.2	0.79	-0.74	-0.85
4,762.0	17.00	317.00	4,559.6	1,104.1	-667.7	1,280.0	0.47	-0.11	-1.58
4,856.0	18.30	315.20	4,649.1	1,124.6	-687.4	1,308.4	1.50	1.38	-1.91

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Site:	NPR G09 596 Pad Sec.9-T5S-R96W	MD Reference:	WELL @ 7670.0ft (Original Well Elev)
Well:	NPR 11A-9 596	North Reference:	True
Wellbore:	NPR 11A-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-9 596 Wellbore #1	Database:	US_EDM

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)	
4,950.0	17.60	314.70	4,738.6	1,145.1	-707.9	1,337.1	0.76	-0.74	-0.53	
5,045.0	16.70	313.00	4,829.3	1,164.5	-728.1	1,364.9	1.08	-0.95	-1.79	
5,140.0	17.20	312.30	4,920.2	1,183.3	-748.5	1,392.2	0.57	0.53	-0.74	
5,234.0	16.10	310.70	5,010.3	1,201.1	-768.7	1,418.8	1.27	-1.17	-1.70	
5,328.0	16.10	311.70	5,100.6	1,218.3	-788.3	1,444.4	0.30	0.00	1.06	
5,423.0	15.50	313.20	5,192.0	1,235.7	-807.4	1,469.9	0.76	-0.63	1.58	
5,517.0	14.50	318.80	5,282.8	1,253.2	-824.3	1,494.1	1.87	-1.06	5.96	
5,611.0	15.20	323.60	5,373.7	1,272.0	-839.3	1,518.2	1.51	0.74	5.11	
5,706.0	16.00	325.60	5,465.2	1,292.8	-854.1	1,543.7	1.01	0.84	2.11	
5,800.0	17.80	328.30	5,555.1	1,315.7	-869.0	1,570.9	2.09	1.91	2.87	
5,895.0	17.90	329.80	5,645.5	1,340.7	-884.0	1,599.8	0.50	0.11	1.58	
5,989.0	17.70	328.00	5,735.0	1,365.3	-898.8	1,628.3	0.62	-0.21	-1.91	
6,084.0	17.00	326.40	5,825.7	1,389.1	-914.1	1,656.5	0.89	-0.74	-1.68	
6,178.0	16.70	325.50	5,915.7	1,411.7	-929.4	1,683.6	0.42	-0.32	-0.96	
6,272.0	15.40	326.50	6,006.0	1,433.2	-943.9	1,709.5	1.41	-1.38	1.06	
6,367.0	14.80	324.60	6,097.7	1,453.6	-957.9	1,734.2	0.82	-0.63	-2.00	
6,461.0	12.90	325.00	6,189.0	1,472.0	-970.9	1,756.7	2.02	-2.02	0.43	
6,555.0	11.70	326.40	6,280.8	1,488.5	-982.2	1,776.7	1.32	-1.28	1.49	
6,650.0	10.20	324.90	6,374.1	1,503.4	-992.4	1,794.7	1.61	-1.58	-1.58	
6,744.0	9.20	322.70	6,466.7	1,516.2	-1,001.7	1,810.5	1.13	-1.06	-2.34	
6,838.0	7.80	320.70	6,559.7	1,527.1	-1,010.3	1,824.4	1.52	-1.49	-2.13	
7,027.0	5.30	320.80	6,747.5	1,543.8	-1,023.9	1,845.9	1.32	-1.32	0.05	
7,122.0	4.90	322.90	6,842.1	1,550.5	-1,029.2	1,854.4	0.46	-0.42	2.21	
7,217.0	4.20	323.50	6,936.8	1,556.5	-1,033.7	1,861.9	0.74	-0.74	0.63	
7,311.0	4.00	297.40	7,030.6	1,560.8	-1,038.6	1,868.3	1.98	-0.21	-27.77	
7,406.0	3.60	273.10	7,125.4	1,562.5	-1,044.6	1,873.3	1.73	-0.42	-25.58	
7,500.0	2.50	259.00	7,219.2	1,562.2	-1,049.5	1,876.2	1.41	-1.17	-15.00	
7,595.0	3.10	258.90	7,314.1	1,561.4	-1,054.1	1,878.4	0.63	0.63	-0.11	
7,784.0	2.50	256.10	7,502.9	1,559.4	-1,063.1	1,882.4	0.33	-0.32	-1.48	
7,879.0	2.70	267.20	7,597.8	1,558.8	-1,067.3	1,884.6	0.57	0.21	11.68	
7,973.0	3.50	248.80	7,691.6	1,557.6	-1,072.2	1,886.7	1.35	0.85	-19.57	
8,067.0	3.00	260.00	7,785.5	1,556.2	-1,077.3	1,888.7	0.86	-0.53	11.91	
8,162.0	4.00	259.10	7,880.3	1,555.1	-1,083.0	1,891.4	1.05	1.05	-0.95	
8,256.0	2.90	251.60	7,974.1	1,553.7	-1,088.5	1,893.8	1.26	-1.17	-7.98	
8,351.0	3.60	248.20	8,069.0	1,551.9	-1,093.5	1,895.4	0.76	0.74	-3.58	
8,445.0	2.90	255.40	8,162.8	1,550.2	-1,098.6	1,897.2	0.86	-0.74	7.66	
8,540.0	3.00	251.10	8,257.7	1,548.8	-1,103.3	1,899.0	0.26	0.11	-4.53	
8,634.0	3.00	249.10	8,351.6	1,547.1	-1,107.9	1,900.6	0.11	0.00	-2.13	
8,729.0	2.80	251.10	8,446.5	1,545.4	-1,112.4	1,902.1	0.24	-0.21	2.11	
8,823.0	3.50	249.90	8,540.3	1,543.7	-1,117.3	1,903.8	0.75	0.74	-1.28	
8,917.0	3.90	245.10	8,634.1	1,541.4	-1,122.9	1,905.4	0.54	0.43	-5.11	
9,012.0	4.20	251.40	8,728.9	1,538.9	-1,129.1	1,907.4	0.56	0.32	6.63	
9,106.0	4.20	253.90	8,822.6	1,536.9	-1,135.7	1,909.8	0.19	0.00	2.66	

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Wellbore:	NPR 11A-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-9 596 Wellbore #1	Database:	US_EDM

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)
9,201.0	5.00	251.10	8,917.3	1,534.6	-1,142.9	1,912.5	0.87	0.84	-2.95
9,296.0	5.10	247.00	9,012.0	1,531.6	-1,150.7	1,915.0	0.39	0.11	-4.32
9,390.0	5.50	245.60	9,105.6	1,528.1	-1,158.7	1,917.2	0.45	0.43	-1.49
9,484.0	5.30	245.40	9,199.1	1,524.4	-1,166.7	1,919.4	0.21	-0.21	-0.21
9,579.0	5.50	246.20	9,293.7	1,520.7	-1,174.9	1,921.6	0.22	0.21	0.84
9,673.0	5.20	240.90	9,387.3	1,516.8	-1,182.7	1,923.4	0.61	-0.32	-5.64
9,767.0	5.40	238.70	9,480.9	1,512.5	-1,190.2	1,924.6	0.30	0.21	-2.34
10,144.0	4.70	244.50	9,856.4	1,496.6	-1,219.3	1,930.3	0.23	-0.19	1.54
10,279.0	4.50	229.40	9,991.0	1,490.8	-1,228.3	1,931.3	0.91	-0.15	-11.19
10,347.1	4.50	229.40	10,058.9	1,487.3	-1,232.4	1,931.1	0.00	0.00	0.00
BHL 219'FNL, 1317'FWL, SEC.9									
10,349.0	4.50	229.40	10,060.8	1,487.2	-1,232.5	1,931.1	0.00	0.00	0.00

Checked By: _____ Approved By: _____ Date: _____