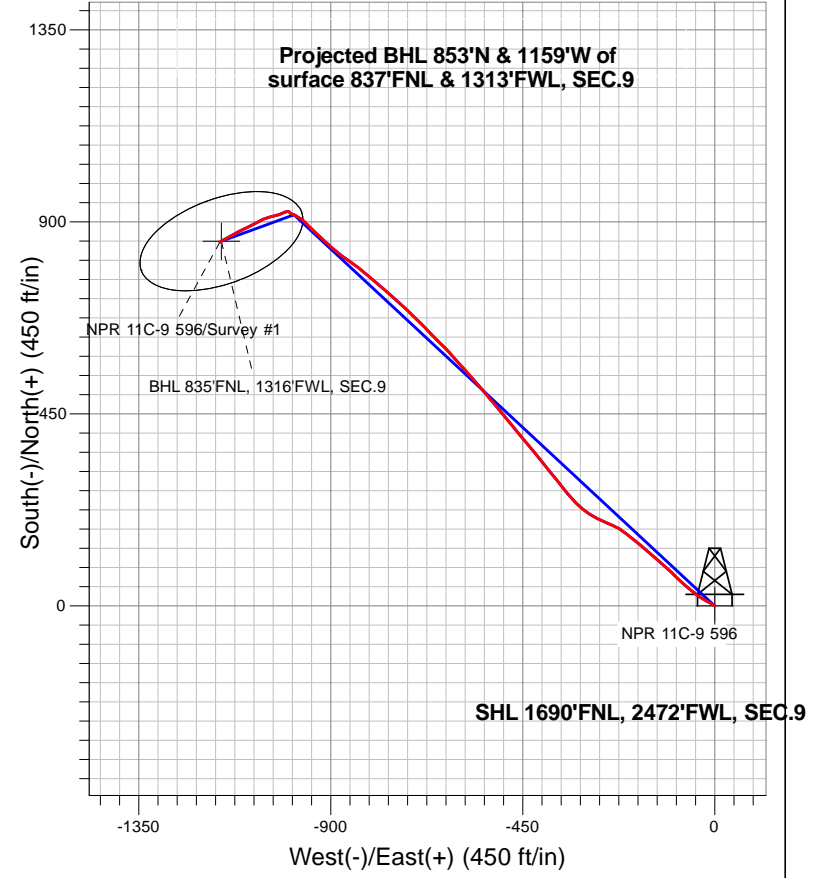
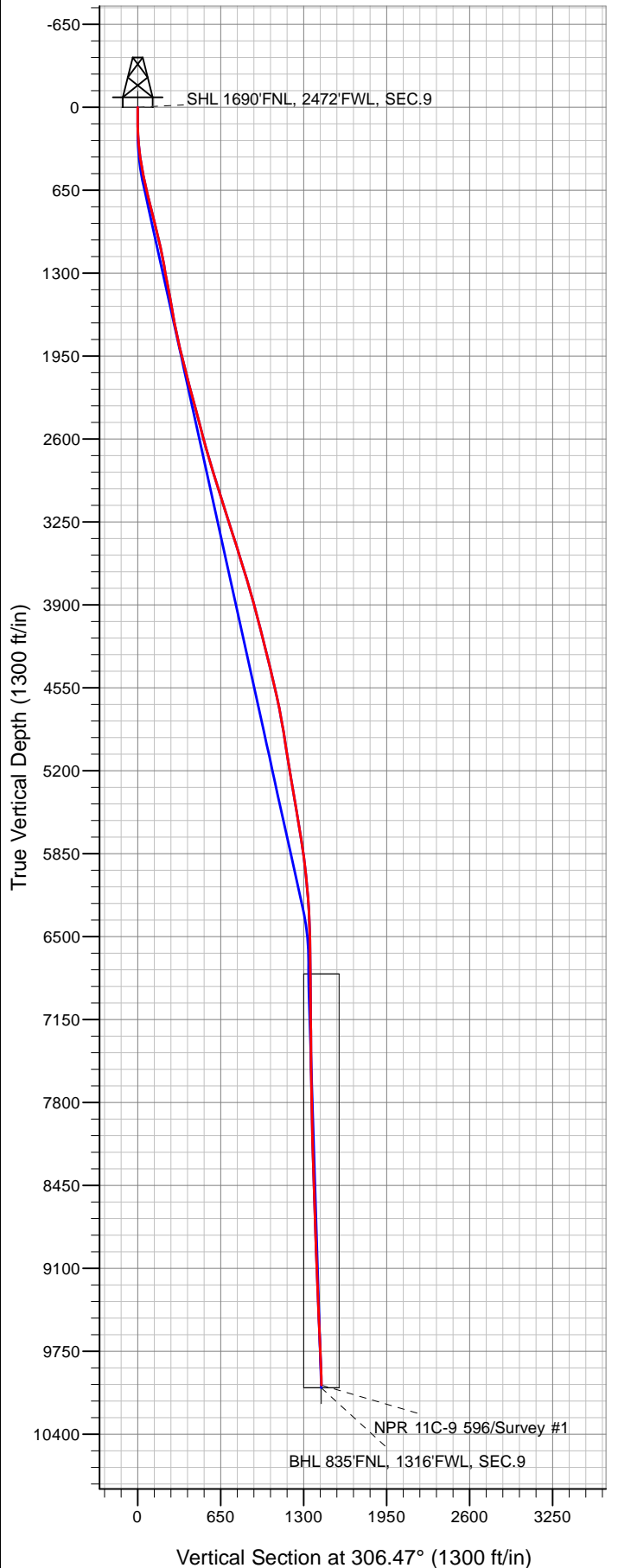


Caerus Oil and Gas LLC



LEGEND

- NPR 11C-9 596, NPR 11C-9 596 Wellbore #1, Plan #2 (1-09-19) V0
- NPR 11C-9 596 Wellbore #1
- Survey #1

Final Survey Plot

**Projected Final Survey -
 10,185'MD & 10016' TVD @ 852.97'VS
 4.8 deg Inc 240.9 deg AZ**

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



Caerus Oil and Gas LLC

SEC.9-T5S-R96W

NPR G09 596 Pad Sec.9-T5S-R96W

NPR 11C-9 596

NPR 11C-9 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

17 January, 2019

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11C-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 11C-9 596	North Reference:	True
Wellbore:	NPR 11C-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-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 11C-9 596					
Well Position	+N/-S	0.0 ft	Northing:	14,404,641.94 usft	Latitude:	39.632200
	+E/-W	0.0 ft	Easting:	2,436,117.72 usft	Longitude:	-108.174122
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	7,640.0 ft

Wellbore	NPR 11C-9 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/9/2019	9.53	65.80	51,392

Design	NPR 11C-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		306.47

Survey Program	Date	1/17/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
120.0	10,185.0	Survey #1 (NPR 11C-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 1690'FNL, 2472'FWL, SEC.9										
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00	
298.0	5.10	304.80	297.8	4.5	-6.5	7.9	2.87	2.87	0.00	
389.0	8.10	295.00	388.2	9.5	-15.6	18.2	3.51	3.30	-10.77	
481.0	11.00	301.50	478.9	16.9	-29.0	33.3	3.36	3.15	7.07	
573.0	11.10	307.00	569.2	26.8	-43.6	50.9	1.15	0.11	5.98	
668.0	12.80	310.20	662.1	39.1	-58.9	70.6	1.92	1.79	3.37	
762.0	14.20	313.30	753.5	53.7	-75.2	92.4	1.68	1.49	3.30	
857.0	15.30	313.60	845.4	70.3	-92.8	116.4	1.16	1.16	0.32	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11C-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 11C-9 596	North Reference:	True
Wellbore:	NPR 11C-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-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)
951.0	14.50	311.20	936.2	86.6	-110.6	140.5	1.07	-0.85	-2.55
1,045.0	12.90	312.50	1,027.5	101.5	-127.2	162.6	1.73	-1.70	1.38
1,139.0	11.20	312.10	1,119.5	114.7	-141.7	182.2	1.81	-1.81	-0.43
1,234.0	10.40	310.80	1,212.8	126.5	-155.1	199.9	0.88	-0.84	-1.37
1,328.0	10.60	308.00	1,305.2	137.4	-168.3	217.0	0.58	0.21	-2.98
1,423.0	10.50	308.10	1,398.6	148.1	-182.0	234.4	0.11	-0.11	0.11
1,517.0	10.40	312.40	1,491.0	159.1	-195.0	251.4	0.84	-0.11	4.57
1,611.0	10.70	308.70	1,583.5	170.3	-208.1	268.5	0.79	0.32	-3.94
1,706.0	11.10	299.60	1,676.7	180.3	-222.9	286.4	1.86	0.42	-9.58
1,800.0	11.30	293.90	1,769.0	188.5	-239.2	304.4	1.20	0.21	-6.06
1,895.0	12.00	292.40	1,862.0	196.0	-256.9	323.1	0.80	0.74	-1.58
1,989.0	14.30	299.00	1,953.5	205.4	-276.0	344.1	2.92	2.45	7.02
2,084.0	14.70	302.60	2,045.5	217.6	-296.5	367.7	1.04	0.42	3.79
2,178.0	15.40	311.90	2,136.3	232.3	-315.8	392.0	2.67	0.74	9.89
2,273.0	15.60	319.10	2,227.9	250.4	-333.6	417.1	2.04	0.21	7.58
2,367.0	15.40	320.70	2,318.4	269.6	-349.7	441.5	0.50	-0.21	1.70
2,429.0	15.30	320.00	2,378.2	282.3	-360.2	457.4	0.34	-0.16	-1.13
2,590.0	14.70	321.90	2,533.7	314.6	-386.5	497.8	0.48	-0.37	1.18
2,684.0	16.40	322.20	2,624.3	334.5	-402.0	522.1	1.81	1.81	0.32
2,779.0	17.00	320.40	2,715.3	355.8	-419.0	548.4	0.83	0.63	-1.89
2,873.0	15.90	318.60	2,805.4	376.0	-436.3	574.4	1.29	-1.17	-1.91
2,967.0	17.40	320.70	2,895.5	396.6	-453.7	600.6	1.72	1.60	2.23
3,062.0	18.40	322.00	2,985.9	419.4	-472.0	628.8	1.13	1.05	1.37
3,156.0	18.10	320.10	3,075.2	442.3	-490.5	657.3	0.71	-0.32	-2.02
3,250.0	18.10	319.50	3,164.5	464.6	-509.3	685.7	0.20	0.00	-0.64
3,345.0	18.10	319.40	3,254.8	487.0	-528.5	714.5	0.03	0.00	-0.11
3,440.0	18.10	319.60	3,345.1	509.4	-547.7	743.2	0.07	0.00	0.21
3,534.0	17.70	319.10	3,434.6	531.3	-566.5	771.4	0.46	-0.43	-0.53
3,628.0	17.60	318.30	3,524.1	552.8	-585.3	799.2	0.28	-0.11	-0.85
3,723.0	17.50	318.00	3,614.7	574.1	-604.4	827.3	0.14	-0.11	-0.32
3,817.0	17.00	317.20	3,704.5	594.7	-623.2	854.6	0.59	-0.53	-0.85
3,912.0	16.10	315.30	3,795.6	614.2	-641.9	881.3	1.11	-0.95	-2.00
4,006.0	15.40	314.70	3,886.0	632.3	-659.9	906.5	0.76	-0.74	-0.64
4,100.0	15.30	315.70	3,976.7	649.9	-677.5	931.1	0.30	-0.11	1.06
4,195.0	14.30	315.30	4,068.5	667.2	-694.5	955.1	1.06	-1.05	-0.42
4,289.0	14.20	315.00	4,159.6	683.7	-710.8	978.0	0.13	-0.11	-0.32
4,384.0	14.10	312.90	4,251.7	699.8	-727.5	1,001.0	0.55	-0.11	-2.21
4,478.0	13.80	311.00	4,343.0	714.9	-744.4	1,023.5	0.58	-0.32	-2.02
4,573.0	13.70	311.40	4,435.3	729.8	-761.3	1,046.0	0.15	-0.11	0.42
4,667.0	13.20	310.30	4,526.7	744.1	-777.9	1,067.8	0.60	-0.53	-1.17
4,762.0	12.80	310.40	4,619.2	757.9	-794.2	1,089.2	0.42	-0.42	0.11
4,856.0	10.70	310.50	4,711.3	770.3	-808.7	1,108.3	2.23	-2.23	0.11
4,951.0	10.30	309.70	4,804.7	781.5	-822.0	1,125.5	0.45	-0.42	-0.84

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Well:	NPR 11C-9 596	North Reference:	True
Wellbore:	NPR 11C-9 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-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)	
5,045.0	9.80	308.40	4,897.2	791.8	-834.7	1,141.9	0.58	-0.53	-1.38	
5,139.0	9.40	306.80	4,989.9	801.4	-847.1	1,157.6	0.51	-0.43	-1.70	
5,234.0	8.80	304.80	5,083.7	810.2	-859.3	1,172.6	0.71	-0.63	-2.11	
5,328.0	8.30	303.60	5,176.7	818.1	-870.9	1,186.6	0.56	-0.53	-1.28	
5,422.0	9.30	308.60	5,269.6	826.6	-882.5	1,200.9	1.34	1.06	5.32	
5,517.0	10.20	312.50	5,363.2	837.0	-894.7	1,217.0	1.17	0.95	4.11	
5,706.0	9.50	313.00	5,549.4	859.0	-918.4	1,249.1	0.37	-0.37	0.26	
5,800.0	9.70	312.10	5,642.1	869.6	-929.9	1,264.7	0.27	0.21	-0.96	
5,895.0	9.70	312.60	5,735.7	880.3	-941.8	1,280.6	0.09	0.00	0.53	
5,989.0	7.80	315.10	5,828.6	890.2	-952.1	1,294.8	2.06	-2.02	2.66	
6,083.0	6.60	318.20	5,921.9	898.8	-960.2	1,306.4	1.34	-1.28	3.30	
6,178.0	5.90	304.10	6,016.3	905.6	-967.9	1,316.6	1.77	-0.74	-14.84	
6,272.0	5.50	300.20	6,109.9	910.6	-975.8	1,325.9	0.59	-0.43	-4.15	
6,366.0	4.70	300.50	6,203.5	914.8	-983.0	1,334.2	0.85	-0.85	0.32	
6,461.0	3.30	287.30	6,298.3	917.6	-989.0	1,340.7	1.75	-1.47	-13.89	
6,555.0	2.10	299.50	6,392.2	919.2	-993.0	1,345.0	1.41	-1.28	12.98	
6,744.0	0.70	341.20	6,581.1	922.0	-996.4	1,349.4	0.87	-0.74	22.06	
6,838.0	0.70	313.70	6,675.1	923.0	-997.0	1,350.4	0.35	0.00	-29.26	
6,933.0	0.70	302.90	6,770.1	923.7	-997.9	1,351.5	0.14	0.00	-11.37	
7,028.0	0.70	284.30	6,865.1	924.1	-999.0	1,352.7	0.24	0.00	-19.58	
7,122.0	0.70	265.70	6,959.1	924.2	-1,000.1	1,353.6	0.24	0.00	-19.79	
7,217.0	0.40	254.70	7,054.1	924.1	-1,001.0	1,354.3	0.33	-0.32	-11.58	
7,311.0	0.30	308.90	7,148.1	924.2	-1,001.5	1,354.7	0.35	-0.11	57.66	
7,406.0	0.60	254.10	7,243.1	924.2	-1,002.2	1,355.3	0.52	0.32	-57.68	
7,501.0	0.70	252.20	7,338.1	923.9	-1,003.2	1,355.9	0.11	0.11	-2.00	
7,595.0	1.10	249.60	7,432.0	923.4	-1,004.6	1,356.7	0.43	0.43	-2.77	
7,784.0	1.40	255.10	7,621.0	922.2	-1,008.6	1,359.2	0.17	0.16	2.91	
7,973.0	2.20	240.80	7,809.9	919.8	-1,014.0	1,362.1	0.48	0.42	-7.57	
8,162.0	2.70	252.20	7,998.7	916.7	-1,021.4	1,366.2	0.37	0.26	6.03	
8,351.0	2.60	255.30	8,187.5	914.2	-1,029.7	1,371.5	0.09	-0.05	1.64	
8,634.0	2.90	259.80	8,470.2	911.3	-1,043.0	1,380.4	0.13	0.11	1.59	
8,917.0	3.90	243.10	8,752.7	905.7	-1,058.6	1,389.7	0.49	0.35	-5.90	
9,106.0	4.70	241.00	8,941.2	899.0	-1,071.1	1,395.8	0.43	0.42	-1.11	
9,390.0	5.40	245.40	9,224.1	887.8	-1,093.5	1,407.1	0.28	0.25	1.55	
9,673.0	5.40	241.60	9,505.8	876.0	-1,117.3	1,419.1	0.13	0.00	-1.34	
9,767.0	6.00	241.70	9,599.4	871.5	-1,125.5	1,423.1	0.64	0.64	0.11	
10,115.0	4.80	240.90	9,945.8	855.8	-1,154.2	1,436.9	0.35	-0.34	-0.23	
10,185.0	4.80	240.90	10,015.6	853.0	-1,159.3	1,439.3	0.00	0.00	0.00	
BHL 835'FNL, 1316'FWL, SEC.9										

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Design:	NPR 11C-9 596 Wellbore #1	Database:	US_EDM

Checked By: _____	Approved By: _____	Date: _____
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