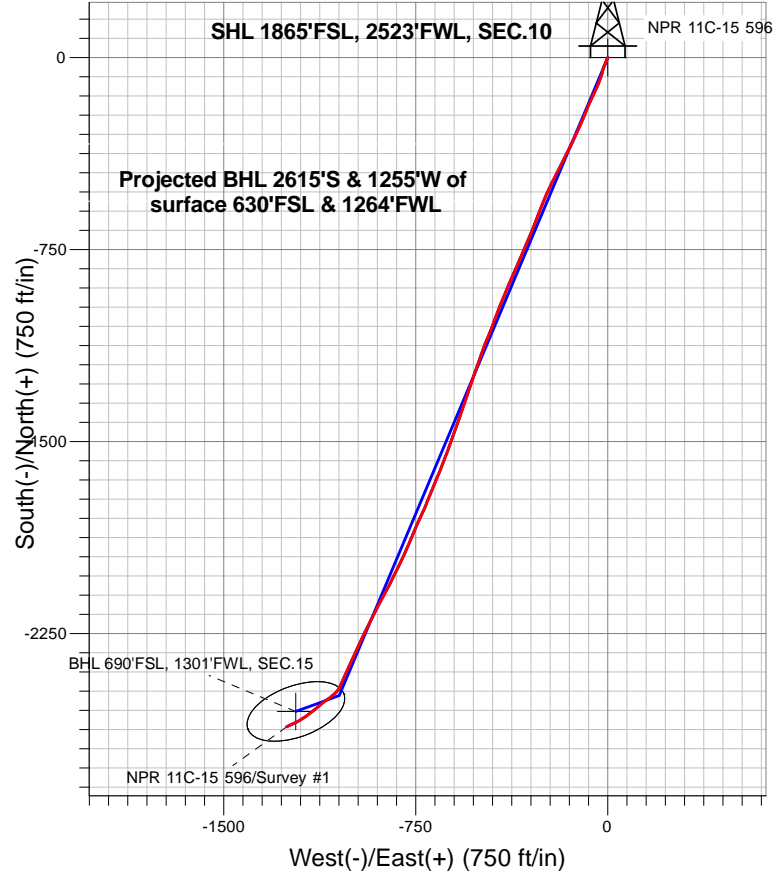
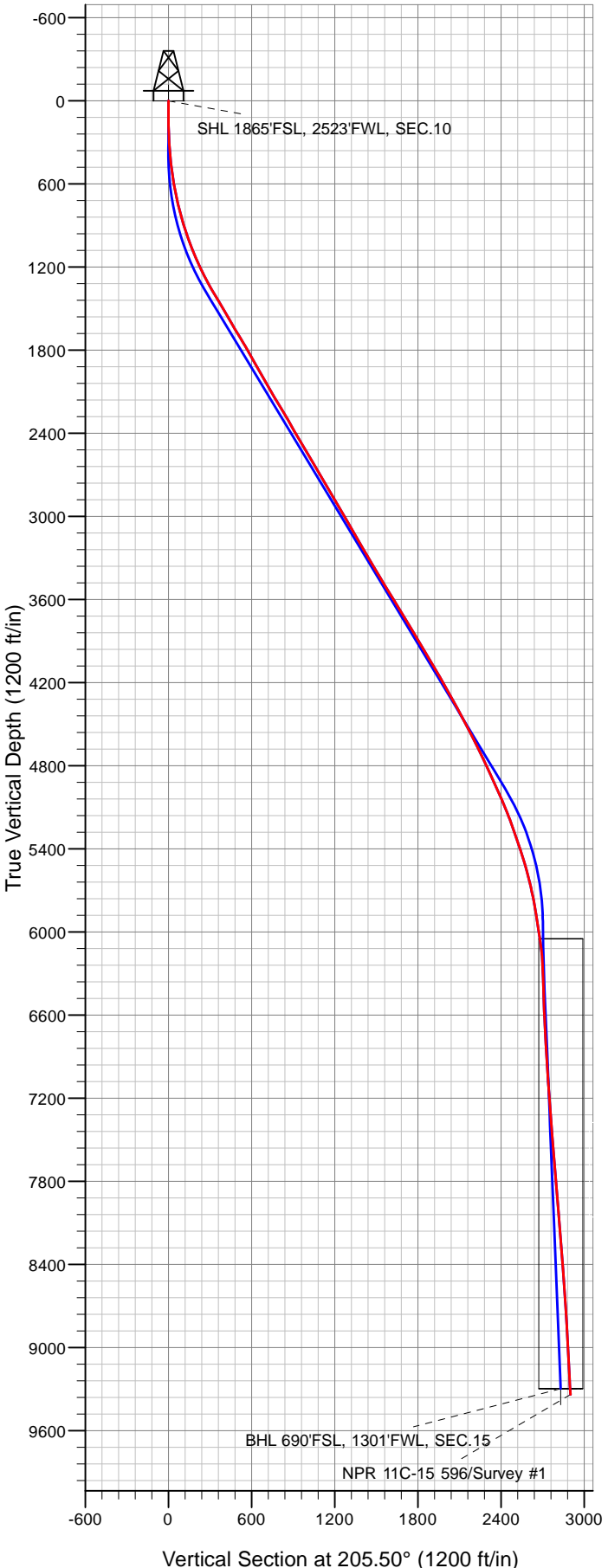


Caerus Oil and Gas LLC



- LEGEND**
- ▲ NPR 11C-15 596, NPR 11C-15 596 Wellbore #1, Plan #2 (3-28-18) V0
 - NPR 11C-15 596 Wellbore #1
 - Survey #1

Final Survey Plot

**Projected Final Survey -
 10,002'MD & 9,339' TVD @ 2898.45°VS
 4.2 deg Inc 240.5 deg AZ**

Project: SEC.10-T5S-R96W
 Site: K10 596 Pad Sec.10-T5S-R96W
 Well: NPR 11C-15 596
 Plan: NPR 11C-15 596 Wellbore #1



Directional

Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 11C-15 596

NPR 11C-15 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

03 April, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11C-15 596
Project:	SEC.10-T5S-R96W	TVD Reference:	WELL @ 6733.0ft (Original Well Elev)
Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11C-15 596	North Reference:	True
Wellbore:	NPR 11C-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-15 596 Wellbore #1	Database:	US_EDM

Project	SEC.10-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	K10 596 Pad Sec.10-T5S-R96W				
Site Position:		Northing:	14,403,140.13 usft	Latitude:	39.627619
From:	Lat/Long	Easting:	2,441,439.81 usft	Longitude:	-108.155411
Position Uncertainty:	0.0 ft	Slot Radius:	13-3/16 "	Grid Convergence:	1.82 °

Well	NPR 11C-15 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,088.58 usft	Latitude:	39.627472
	+E/-W	0.0 ft	Easting:	2,441,504.03 usft	Longitude:	-108.155189
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore	NPR 11C-15 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/28/2018	9.56	65.63	51,612

Design	NPR 11C-15 596 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		205.50

Survey Program	Date	4/3/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	10,002.0	Survey #1 (NPR 11C-15 596 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 1865'FSL, 2523'FWL, SEC.10										
130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00	
570.0	8.80	202.40	568.3	-31.2	-12.9	33.7	2.00	2.00	0.00	
665.0	11.40	198.20	661.8	-46.8	-18.6	50.2	2.84	2.74	-4.42	
760.0	13.70	197.90	754.5	-66.4	-24.9	70.7	2.42	2.42	-0.32	
854.0	16.00	197.20	845.4	-89.4	-32.2	94.6	2.45	2.45	-0.74	
949.0	18.30	202.90	936.1	-115.7	-41.9	122.4	3.00	2.42	6.00	
1,044.0	20.70	207.70	1,025.7	-144.3	-55.5	154.1	3.04	2.53	5.05	
1,138.0	22.80	204.50	1,113.0	-175.6	-70.8	188.9	2.56	2.23	-3.40	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11C-15 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11C-15 596	North Reference:	True
Wellbore:	NPR 11C-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-15 596 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)	
1,233.0	24.70	200.80	1,200.0	-210.9	-85.4	227.1	2.54	2.00	-3.89	
1,327.0	27.50	203.00	1,284.4	-249.2	-100.9	268.4	3.15	2.98	2.34	
1,421.0	30.70	204.40	1,366.5	-291.1	-119.3	314.1	3.48	3.40	1.49	
1,516.0	31.30	207.20	1,447.9	-335.1	-140.6	363.0	1.64	0.63	2.95	
1,611.0	29.80	206.90	1,529.7	-378.1	-162.6	411.3	1.59	-1.58	-0.32	
1,705.0	29.70	205.30	1,611.4	-420.0	-183.1	457.9	0.85	-0.11	-1.70	
1,800.0	31.80	207.70	1,693.0	-463.4	-204.8	506.4	2.56	2.21	2.53	
1,894.0	29.80	205.50	1,773.7	-506.4	-226.4	554.6	2.44	-2.13	-2.34	
2,030.0	29.40	202.00	1,892.0	-567.9	-253.4	621.7	1.30	-0.29	-2.57	
2,124.0	30.50	201.10	1,973.4	-611.6	-270.6	668.5	1.26	1.17	-0.96	
2,219.0	29.30	201.20	2,055.8	-655.7	-287.7	715.7	1.26	-1.26	0.11	
2,313.0	31.20	202.00	2,137.0	-699.7	-305.2	763.0	2.07	2.02	0.85	
2,408.0	30.80	203.60	2,218.4	-744.8	-324.1	811.8	0.96	-0.42	1.68	
2,502.0	30.10	203.70	2,299.5	-788.5	-343.2	859.4	0.75	-0.74	0.11	
2,597.0	29.20	205.00	2,382.0	-831.3	-362.6	906.4	1.16	-0.95	1.37	
2,692.0	31.20	202.40	2,464.1	-875.1	-381.8	954.2	2.52	2.11	-2.74	
2,786.0	31.30	201.90	2,544.5	-920.2	-400.2	1,002.9	0.30	0.11	-0.53	
2,880.0	30.10	202.40	2,625.3	-964.7	-418.2	1,050.8	1.31	-1.28	0.53	
2,975.0	31.10	200.10	2,707.1	-1,009.7	-435.8	1,099.0	1.62	1.05	-2.42	
3,070.0	30.50	201.50	2,788.7	-1,055.2	-453.0	1,147.5	0.98	-0.63	1.47	
3,164.0	29.90	202.90	2,869.9	-1,099.0	-470.9	1,194.7	0.98	-0.64	1.49	
3,259.0	30.20	200.10	2,952.2	-1,143.2	-488.3	1,242.1	1.51	0.32	-2.95	
3,353.0	29.30	199.10	3,033.8	-1,187.2	-504.0	1,288.5	1.09	-0.96	-1.06	
3,448.0	30.50	199.10	3,116.1	-1,231.9	-519.5	1,335.6	1.26	1.26	0.00	
3,543.0	29.90	198.50	3,198.2	-1,277.2	-534.9	1,383.0	0.71	-0.63	-0.63	
3,637.0	31.20	198.30	3,279.2	-1,322.5	-549.9	1,430.4	1.39	1.38	-0.21	
3,732.0	30.50	199.10	3,360.7	-1,368.6	-565.6	1,478.8	0.85	-0.74	0.84	
3,826.0	30.80	200.10	3,441.6	-1,413.8	-581.6	1,526.5	0.63	0.32	1.06	
3,921.0	32.40	199.10	3,522.5	-1,460.7	-598.3	1,576.0	1.77	1.68	-1.05	
4,015.0	31.80	200.20	3,602.1	-1,507.7	-615.1	1,625.7	0.89	-0.64	1.17	
4,110.0	31.30	200.40	3,683.1	-1,554.3	-632.4	1,675.2	0.54	-0.53	0.21	
4,204.0	30.40	201.60	3,763.8	-1,599.3	-649.6	1,723.2	1.16	-0.96	1.28	
4,299.0	31.20	202.90	3,845.4	-1,644.4	-668.0	1,771.8	1.10	0.84	1.37	
4,393.0	30.80	201.30	3,926.0	-1,689.2	-686.3	1,820.1	0.97	-0.43	-1.70	
4,488.0	31.40	202.80	4,007.3	-1,734.7	-704.7	1,869.1	1.03	0.63	1.58	
4,582.0	29.40	204.00	4,088.4	-1,778.3	-723.6	1,916.6	2.22	-2.13	1.28	
4,677.0	30.60	204.20	4,170.7	-1,821.7	-743.0	1,964.1	1.27	1.26	0.21	
4,772.0	29.30	203.30	4,253.0	-1,865.1	-762.1	2,011.5	1.45	-1.37	-0.95	
4,866.0	28.40	202.70	4,335.3	-1,906.9	-779.8	2,056.8	1.01	-0.96	-0.64	
4,961.0	28.60	204.70	4,418.8	-1,948.4	-798.0	2,102.1	1.03	0.21	2.11	
5,055.0	27.80	206.90	4,501.7	-1,988.4	-817.3	2,146.5	1.40	-0.85	2.34	
5,150.0	26.90	206.00	4,586.0	-2,027.4	-836.8	2,190.2	1.04	-0.95	-0.95	
5,244.0	26.00	207.40	4,670.2	-2,064.8	-855.6	2,232.0	1.16	-0.96	1.49	

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11C-15 596	North Reference:	True
Wellbore:	NPR 11C-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-15 596 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)	
5,339.0	25.50	208.80	4,755.8	-2,101.2	-875.0	2,273.3	0.83	-0.53	1.47	
5,433.0	25.30	207.40	4,840.7	-2,136.8	-894.0	2,313.5	0.67	-0.21	-1.49	
5,528.0	23.80	207.00	4,927.1	-2,171.9	-912.1	2,353.0	1.59	-1.58	-0.42	
5,717.0	23.20	206.60	5,100.4	-2,239.2	-946.0	2,428.3	0.33	-0.32	-0.21	
5,811.0	20.20	204.50	5,187.7	-2,270.5	-961.1	2,463.1	3.30	-3.19	-2.23	
5,906.0	19.20	203.90	5,277.2	-2,299.7	-974.2	2,495.1	1.07	-1.05	-0.63	
6,001.0	18.50	205.50	5,367.1	-2,327.6	-987.0	2,525.8	0.92	-0.74	1.68	
6,095.0	17.80	204.30	5,456.4	-2,354.2	-999.3	2,555.1	0.84	-0.74	-1.28	
6,190.0	15.20	205.40	5,547.5	-2,378.6	-1,010.7	2,582.0	2.76	-2.74	1.16	
6,285.0	14.00	205.50	5,639.4	-2,400.3	-1,020.9	2,606.0	1.26	-1.26	0.11	
6,474.0	9.60	201.10	5,824.4	-2,435.6	-1,036.5	2,644.6	2.37	-2.33	-2.33	
6,663.0	8.50	208.40	6,011.0	-2,462.6	-1,048.8	2,674.2	0.84	-0.58	3.86	
6,757.0	7.90	218.40	6,104.1	-2,473.8	-1,056.1	2,687.5	1.64	-0.64	10.64	
6,852.0	4.20	225.70	6,198.5	-2,481.3	-1,062.7	2,697.1	3.97	-3.89	7.68	
6,947.0	2.20	221.70	6,293.4	-2,485.1	-1,066.4	2,702.1	2.12	-2.11	-4.21	
7,041.0	1.60	239.70	6,387.3	-2,487.1	-1,068.7	2,704.9	0.89	-0.64	19.15	
7,136.0	2.00	225.90	6,482.3	-2,489.0	-1,071.0	2,707.6	0.62	0.42	-14.53	
7,230.0	2.60	228.80	6,576.2	-2,491.5	-1,073.8	2,711.1	0.65	0.64	3.09	
7,325.0	3.70	227.00	6,671.1	-2,495.0	-1,077.7	2,715.9	1.16	1.16	-1.89	
7,514.0	4.00	234.30	6,859.6	-2,503.0	-1,087.5	2,727.4	0.30	0.16	3.86	
7,703.0	4.70	241.30	7,048.1	-2,510.6	-1,099.6	2,739.4	0.46	0.37	3.70	
7,892.0	3.90	221.90	7,236.6	-2,519.1	-1,110.7	2,751.9	0.87	-0.42	-10.26	
7,986.0	4.50	232.30	7,330.3	-2,523.7	-1,115.8	2,758.2	1.03	0.64	11.06	
8,082.0	4.70	229.10	7,426.0	-2,528.6	-1,121.7	2,765.2	0.34	0.21	-3.33	
8,176.0	5.10	228.80	7,519.7	-2,533.9	-1,127.8	2,772.6	0.43	0.43	-0.32	
8,270.0	5.30	231.60	7,613.3	-2,539.3	-1,134.3	2,780.3	0.34	0.21	2.98	
8,365.0	5.00	235.80	7,707.9	-2,544.4	-1,141.2	2,787.8	0.51	-0.32	4.42	
8,460.0	5.00	226.40	7,802.5	-2,549.6	-1,147.6	2,795.3	0.86	0.00	-9.89	
8,743.0	5.80	233.90	8,084.3	-2,566.5	-1,168.1	2,819.4	0.38	0.28	2.65	
8,932.0	5.40	237.40	8,272.4	-2,576.9	-1,183.3	2,835.3	0.28	-0.21	1.85	
9,027.0	5.40	233.60	8,367.0	-2,582.0	-1,190.7	2,843.0	0.38	0.00	-4.00	
9,216.0	4.40	243.10	8,555.3	-2,590.5	-1,204.3	2,856.6	0.68	-0.53	5.03	
9,311.0	4.50	243.90	8,650.0	-2,593.8	-1,210.9	2,862.4	0.12	0.11	0.84	
Last survey - 9311' MD										
9,406.0	4.80	243.80	8,744.7	-2,597.2	-1,217.8	2,868.5	0.32	0.32	-0.11	
9,595.0	3.60	245.00	8,933.2	-2,603.2	-1,230.3	2,879.3	0.64	-0.63	0.63	
9,879.0	3.90	246.00	9,216.5	-2,610.9	-1,247.2	2,893.5	0.11	0.11	0.35	
9,932.0	4.20	240.50	9,269.4	-2,612.6	-1,250.5	2,896.4	0.93	0.57	-10.38	
BHL 690'FSL, 1301'FWL, SEC.15										
10,002.0	4.20	240.50	9,339.2	-2,615.1	-1,255.0	2,900.6	0.00	0.00	0.00	

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11C-15 596	North Reference:	True
Wellbore:	NPR 11C-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11C-15 596 Wellbore #1	Database:	US_EDM

Design Targets										
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
- Shape										
SHL 1865'FSL, 2523'FW - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	14,403,088.58	2,441,504.03	39.627472	-108.155189	
BHL 690'FSL, 1301'FWL - survey misses target center by 72.0ft at 9932.0ft MD (9269.4 TVD, -2612.6 N, -1250.5 E) - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	9,298.0	-2,554.9	-1,218.4	14,400,495.54	2,440,366.77	39.620458	-108.159514	

Survey Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
9,311.0	8,650.0	-2,593.8	-1,210.9	Last survey - 9311' MD	

Checked By: _____ Approved By: _____ Date: _____