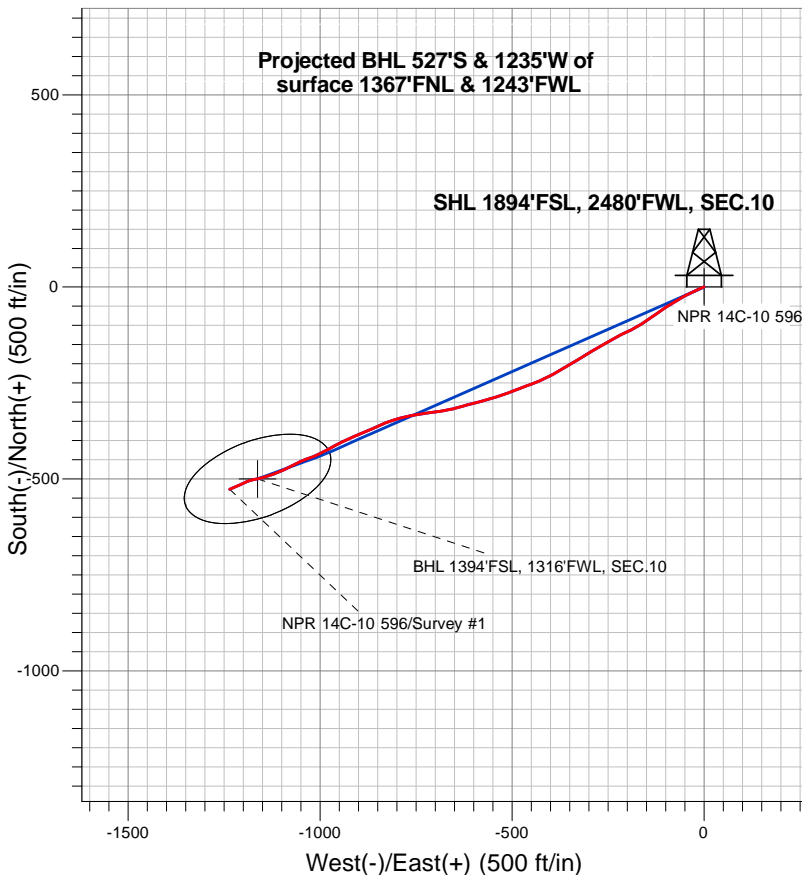


## Caerus Oil and Gas LLC



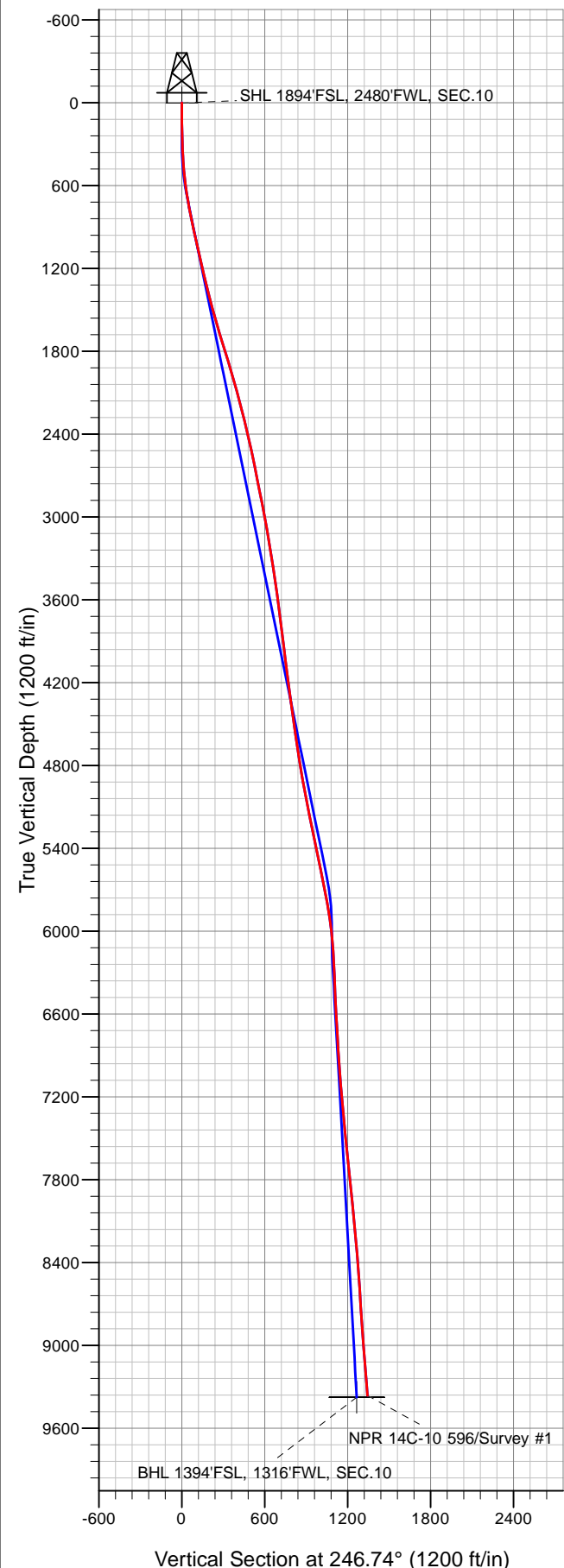
### LEGEND

- NPR 14C-10 596, NPR 14C-10 596 Wellbore #1, Plan #1 (1-31-18)R V0
- NPR 14C-10 596 Wellbore #1
- Survey #1

## Final Survey Plot

**Projected Final Survey -**  
**9,485'MD & 9,362' TVD @ 1343.09°VS**  
**4.3 deg Inc 244.7 deg AZ**

Project: SEC.10-T5S-R96W  
 Site: K10 596 Pad Sec.10-T5S-R96W  
 Well: NPR 14C-10 596  
 Plan: NPR 14C-10 596 Wellbore #1





## **Caerus Oil and Gas LLC**

**SEC.10-T5S-R96W**

**K10 596 Pad Sec.10-T5S-R96W**

**NPR 14C-10 596**

**NPR 14C-10 596 Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**07 February, 2018**

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 14C-10 596
<b>Project:</b>	SEC.10-T5S-R96W	<b>TVD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 14C-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 14C-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 14C-10 596 Wellbore #1	<b>Database:</b>	US_EDM

<b>Project</b>	SEC.10-T5S-R96W, Garfield County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		Using Well Reference Point
<b>Map Zone:</b>	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 14C-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,116.69 usft	Latitude:	39.627553
	+E/-W	0.0 ft	Easting:	2,441,459.44 usft	Longitude:	-108.155344
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

<b>Wellbore</b>	NPR 14C-10 596 Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	1/31/2018	9.58	65.63	51,627

<b>Design</b>	NPR 14C-10 596 Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	246.74	

<b>Survey Program</b>	<b>Date</b>	2/7/2018			
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
293.0	9,485.0	Survey #1 (NPR 14C-10 596 Wellbore #1)	MWD	MWD - Standard	

<b>Survey</b>									
<b>Measured Depth (ft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Vertical Section (ft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1.0	0.01	249.50	1.0	0.0	0.0	0.0	0.55	0.55	0.00
<b>SHL 1894'FSL, 2480'FWL, SEC.10</b>									
293.0	1.60	249.50	293.0	-1.4	-3.8	4.1	0.55	0.55	0.00
387.0	2.90	244.70	386.9	-2.9	-7.2	7.8	1.40	1.38	-5.11
478.0	4.80	246.50	477.7	-5.4	-12.8	13.9	2.09	2.09	1.98
571.0	6.90	246.00	570.2	-9.2	-21.5	23.4	2.26	2.26	-0.54
666.0	9.20	244.70	664.2	-14.8	-33.5	36.7	2.43	2.42	-1.37
760.0	10.50	241.10	756.9	-22.2	-47.8	52.7	1.53	1.38	-3.83
855.0	12.00	239.40	850.0	-31.4	-63.9	71.1	1.62	1.58	-1.79
949.0	12.00	240.30	942.0	-41.2	-80.8	90.5	0.20	0.00	0.96

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 14C-10 596
<b>Project:</b>	SEC.10-T5S-R96W	<b>TVD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 14C-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 14C-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 14C-10 596 Wellbore #1	<b>Database:</b>	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)
1,044.0	12.70	237.10	1,034.8	-51.7	-98.2	110.6	1.03	0.74	-3.37
1,139.0	13.50	233.50	1,127.3	-64.0	-115.8	131.7	1.20	0.84	-3.79
1,234.0	14.20	233.70	1,219.5	-77.5	-134.1	153.8	0.74	0.74	0.21
1,328.0	13.50	239.30	1,310.8	-89.9	-152.9	176.0	1.61	-0.74	5.96
1,422.0	14.60	238.50	1,402.0	-101.7	-172.4	198.6	1.19	1.17	-0.85
1,517.0	15.20	244.90	1,493.8	-113.3	-193.9	222.9	1.84	0.63	6.74
1,611.0	16.00	242.20	1,584.4	-124.5	-216.5	248.1	1.15	0.85	-2.87
1,706.0	16.80	240.10	1,675.5	-137.5	-240.0	274.8	1.05	0.84	-2.21
1,800.0	17.00	241.30	1,765.4	-150.9	-263.8	302.0	0.43	0.21	1.28
1,895.0	17.50	238.40	1,856.2	-165.0	-288.2	329.9	1.05	0.53	-3.05
2,219.0	14.90	240.10	2,167.3	-211.3	-365.8	419.5	0.82	-0.80	0.52
2,313.0	13.90	240.00	2,258.3	-223.0	-386.0	442.7	1.06	-1.06	-0.11
2,407.0	13.30	242.30	2,349.7	-233.7	-405.4	464.7	0.86	-0.64	2.45
2,502.0	12.60	247.60	2,442.3	-242.7	-424.7	486.0	1.45	-0.74	5.58
2,597.0	12.30	248.20	2,535.0	-250.4	-443.6	506.4	0.34	-0.32	0.63
2,691.0	11.50	249.60	2,627.0	-257.4	-461.7	525.8	0.90	-0.85	1.49
2,786.0	11.00	249.30	2,720.2	-263.9	-479.1	544.3	0.53	-0.53	-0.32
2,880.0	11.40	249.90	2,812.4	-270.2	-496.2	562.6	0.44	0.43	0.64
2,975.0	11.20	250.20	2,905.6	-276.6	-513.7	581.1	0.22	-0.21	0.32
3,069.0	11.00	248.80	2,997.8	-282.9	-530.6	599.2	0.36	-0.21	-1.49
3,164.0	9.60	253.30	3,091.3	-288.5	-546.7	616.2	1.70	-1.47	4.74
3,258.0	9.40	255.90	3,184.0	-292.6	-561.6	631.5	0.50	-0.21	2.77
3,353.0	9.10	254.30	3,277.7	-296.5	-576.4	646.6	0.42	-0.32	-1.68
3,448.0	9.10	255.40	3,371.5	-300.5	-590.9	661.5	0.18	0.00	1.16
3,542.0	8.30	254.20	3,464.5	-304.2	-604.6	675.6	0.87	-0.85	-1.28
3,637.0	8.10	255.90	3,558.5	-307.7	-617.7	689.0	0.33	-0.21	1.79
3,731.0	7.70	256.00	3,651.6	-310.8	-630.2	701.7	0.43	-0.43	0.11
3,826.0	7.10	252.50	3,745.8	-314.1	-642.0	713.9	0.79	-0.63	-3.68
3,921.0	7.10	256.40	3,840.1	-317.3	-653.3	725.5	0.51	0.00	4.11
4,015.0	7.30	259.90	3,933.3	-319.7	-664.8	737.0	0.51	0.21	3.72
4,109.0	7.20	259.00	4,026.6	-321.8	-676.5	748.6	0.16	-0.11	-0.96
4,204.0	7.90	259.80	4,120.8	-324.1	-688.8	760.8	0.75	0.74	0.84
4,298.0	8.10	262.60	4,213.8	-326.1	-701.7	773.4	0.47	0.21	2.98
4,393.0	7.70	264.20	4,307.9	-327.6	-714.7	786.0	0.48	-0.42	1.68
4,488.0	7.80	263.30	4,402.1	-329.0	-727.4	798.2	0.17	0.11	-0.95
4,582.0	8.00	261.80	4,495.2	-330.7	-740.2	810.6	0.31	0.21	-1.60
4,677.0	8.70	259.70	4,589.2	-332.9	-753.8	824.0	0.80	0.74	-2.21
4,772.0	9.20	257.30	4,683.0	-335.9	-768.3	838.5	0.66	0.53	-2.53
4,866.0	9.20	255.30	4,775.8	-339.5	-782.9	853.3	0.34	0.00	-2.13
4,961.0	9.30	254.60	4,869.6	-343.4	-797.6	868.4	0.16	0.11	-0.74
5,055.0	10.60	252.10	4,962.2	-348.1	-813.2	884.6	1.46	1.38	-2.66
5,149.0	11.00	248.90	5,054.5	-354.0	-829.8	902.1	0.77	0.43	-3.40
5,244.0	11.70	244.30	5,147.6	-361.4	-846.9	920.8	1.20	0.74	-4.84

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 14C-10 596
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<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 14C-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 14C-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 14C-10 596 Wellbore #1	<b>Database:</b>	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	11.80	246.10	5,240.6	-369.5	-864.5	940.1	0.40	0.11	1.89	
5,433.0	11.40	246.60	5,332.7	-377.1	-881.8	959.0	0.44	-0.43	0.53	
5,527.0	11.80	247.50	5,424.8	-384.5	-899.2	977.9	0.47	0.43	0.96	
5,622.0	11.50	247.90	5,517.9	-391.8	-916.9	997.1	0.33	-0.32	0.42	
5,716.0	11.60	245.30	5,609.9	-399.2	-934.2	1,015.9	0.56	0.11	-2.77	
5,811.0	11.30	241.60	5,703.1	-407.7	-951.1	1,034.8	0.83	-0.32	-3.89	
5,906.0	9.80	240.50	5,796.5	-416.1	-966.3	1,052.1	1.59	-1.58	-1.16	
6,000.0	9.00	242.90	5,889.2	-423.4	-979.8	1,067.4	0.95	-0.85	2.55	
6,095.0	6.50	241.30	5,983.3	-429.3	-991.1	1,080.1	2.64	-2.63	-1.68	
6,190.0	5.00	246.30	6,077.8	-433.6	-999.6	1,089.6	1.66	-1.58	5.26	
6,285.0	3.50	245.20	6,172.6	-436.4	-1,006.1	1,096.7	1.58	-1.58	-1.16	
6,379.0	2.20	240.80	6,266.5	-438.5	-1,010.2	1,101.3	1.40	-1.38	-4.68	
6,474.0	2.60	245.30	6,361.4	-440.3	-1,013.8	1,105.3	0.47	0.42	4.74	
6,568.0	2.60	250.50	6,455.3	-441.9	-1,017.7	1,109.5	0.25	0.00	5.53	
6,852.0	3.60	251.60	6,738.9	-446.9	-1,032.3	1,124.9	0.35	0.35	0.39	
7,136.0	4.10	245.90	7,022.2	-453.8	-1,050.0	1,143.9	0.22	0.18	-2.01	
7,419.0	4.90	240.60	7,304.3	-463.9	-1,069.8	1,166.0	0.32	0.28	-1.87	
7,703.0	6.50	246.50	7,586.9	-476.3	-1,095.1	1,194.2	0.60	0.56	2.08	
Last Survey - 7703' MD										
7,987.0	5.90	248.80	7,869.3	-488.0	-1,123.4	1,224.8	0.23	-0.21	0.81	
8,271.0	5.30	256.00	8,151.9	-496.4	-1,149.8	1,252.4	0.32	-0.21	2.54	
8,555.0	4.30	260.20	8,434.9	-501.4	-1,173.0	1,275.7	0.37	-0.35	1.48	
8,838.0	3.40	243.20	8,717.3	-507.0	-1,190.9	1,294.4	0.51	-0.32	-6.01	
9,121.0	4.80	247.30	8,999.5	-515.3	-1,209.3	1,314.6	0.51	0.49	1.45	
9,405.0	4.30	244.70	9,282.7	-524.5	-1,229.9	1,337.1	0.19	-0.18	-0.92	
9,485.0	4.30	244.70	9,362.4	-527.0	-1,235.4	1,343.1	0.00	0.00	0.00	
BHL 1394'FSL, 1316'FWL, SEC.10										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
BHL 1394'FSL, 1316'FW	0.00	0.00	9,376.0	-499.7	-1,162.8	14,402,580.20	2,440,312.65	39.626181	-108.159472	
- survey misses target center by 78.7ft at 9485.0ft MD (9362.4 TVD, -527.0 N, -1235.4 E)										
- Ellipse (radii L200.0 W100.0 on 250.00 azi)										

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
7,703.0	7,586.9	-476.3	-1,095.1	Last Survey - 7703' MD	

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 14C-10 596
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<b>Well:</b>	NPR 14C-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 14C-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 14C-10 596 Wellbore #1	<b>Database:</b>	US_EDM

Checked By: _____	Approved By: _____	Date: _____
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