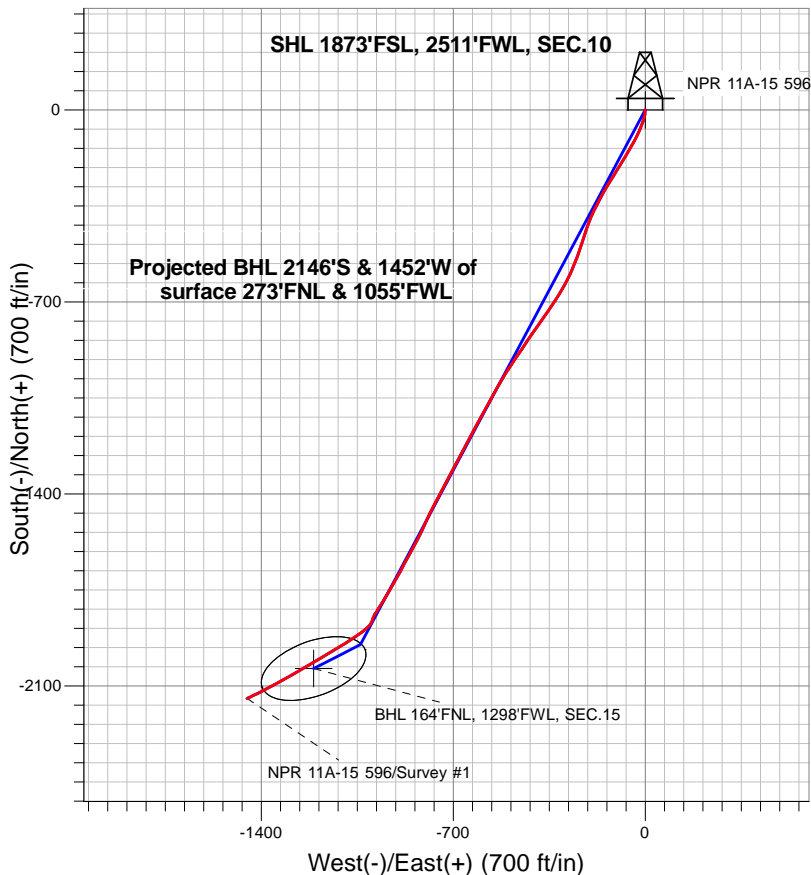


Caerus Oil and Gas LLC



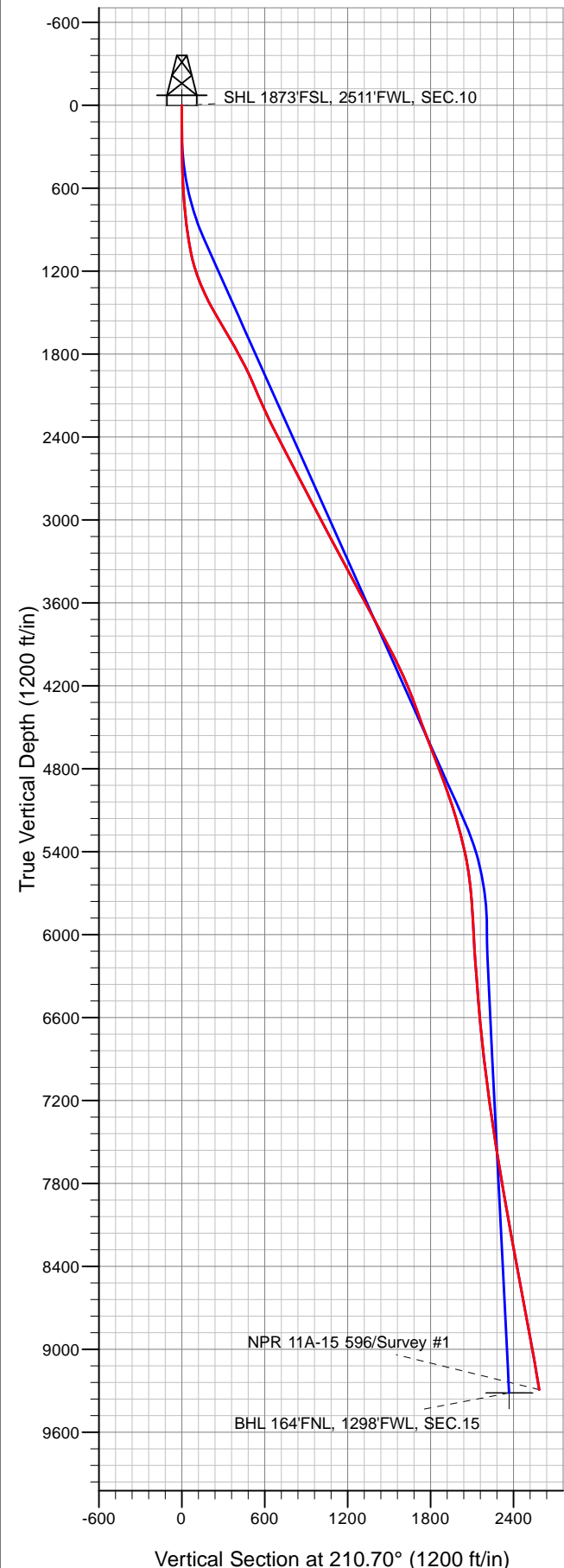
LEGEND

- + NPR 11A-15 596, NPR 11A-15 596 Wellbore #1, Plan #1 (3-13-18)R V0
- + NPR 11A-15 596 Wellbore #1
- + Survey #1

Final Survey Plot

Projected Final Survey -
9,797'MD & 9,292' TVD @ 2590.65'VS
11.4 deg Inc 245.10 deg AZ

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





Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 11A-15 596

NPR 11A-15 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

21 March, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11A-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 11A-15 596	North Reference:	True
Wellbore:	NPR 11A-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-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 11A-15 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,096.19 usft	Latitude:	39.627494
	+E/-W	0.0 ft	Easting:	2,441,491.38 usft	Longitude:	-108.155233
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore	NPR 11A-15 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/13/2018	9.57	65.63	51,616

Design	NPR 11A-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	210.70	

Survey Program	Date	3/21/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
120.0	9,797.0	Survey #1 (NPR 11A-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 1873'FSL, 2511'FWL, SEC.10										
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00	
385.0	1.00	193.20	385.0	-2.3	-0.5	2.2	0.38	0.38	0.00	
477.0	2.30	179.90	476.9	-4.9	-0.7	4.6	1.46	1.41	-14.46	
570.0	3.30	179.30	569.8	-9.4	-0.7	8.4	1.08	1.08	-0.65	
665.0	4.10	189.00	664.6	-15.5	-1.2	13.9	1.07	0.84	10.21	
760.0	5.70	196.20	759.3	-23.4	-3.0	21.7	1.80	1.68	7.58	
854.0	7.50	196.70	852.7	-33.8	-6.1	32.1	1.92	1.91	0.53	
949.0	8.70	199.00	946.7	-46.5	-10.2	45.2	1.31	1.26	2.42	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11A-15 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11A-15 596	North Reference:	True
Wellbore:	NPR 11A-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-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)
1,044.0	10.50	202.30	1,040.4	-61.3	-15.8	60.8	1.98	1.89	3.47
1,138.0	14.80	203.20	1,132.1	-80.3	-23.8	81.2	4.58	4.57	0.96
1,233.0	19.60	208.10	1,222.8	-105.5	-36.1	109.1	5.27	5.05	5.16
1,327.0	22.80	209.70	1,310.4	-135.2	-52.6	143.1	3.46	3.40	1.70
1,421.0	26.20	210.30	1,396.0	-169.0	-72.1	182.1	3.63	3.62	0.64
1,516.0	29.60	212.50	1,479.9	-206.9	-95.3	226.5	3.74	3.58	2.32
1,611.0	30.30	211.60	1,562.2	-247.1	-120.4	273.9	0.88	0.74	-0.95
1,705.0	30.40	210.30	1,643.3	-287.8	-144.8	321.4	0.71	0.11	-1.38
1,800.0	29.90	207.70	1,725.5	-329.5	-168.0	369.1	1.47	-0.53	-2.74
1,894.0	28.30	205.20	1,807.6	-370.4	-188.4	414.7	2.14	-1.70	-2.66
1,981.0	27.70	201.60	1,884.4	-407.9	-204.6	455.2	2.06	-0.69	-4.14
2,123.0	23.90	196.80	2,012.3	-466.2	-225.1	515.7	3.05	-2.68	-3.38
2,218.0	23.90	197.90	2,099.1	-502.9	-236.5	553.2	0.47	0.00	1.16
2,312.0	24.70	201.20	2,184.8	-539.3	-249.5	591.1	1.68	0.85	3.51
2,407.0	25.40	202.90	2,270.9	-576.6	-264.6	630.9	1.06	0.74	1.79
2,501.0	26.40	206.30	2,355.4	-613.9	-281.7	671.7	1.90	1.06	3.62
2,596.0	27.70	210.30	2,440.0	-651.9	-302.2	714.8	2.35	1.37	4.21
2,691.0	28.70	213.40	2,523.8	-690.0	-325.9	759.7	1.87	1.05	3.26
2,785.0	26.80	214.00	2,607.0	-726.4	-350.2	803.4	2.04	-2.02	0.64
2,880.0	26.90	214.90	2,691.7	-761.8	-374.4	846.2	0.44	0.11	0.95
2,974.0	27.30	215.40	2,775.4	-796.8	-399.1	888.9	0.49	0.43	0.53
3,069.0	28.30	213.10	2,859.4	-833.4	-424.0	933.1	1.54	1.05	-2.42
3,163.0	28.60	214.10	2,942.1	-870.7	-448.8	977.8	0.60	0.32	1.06
3,258.0	27.10	214.80	3,026.1	-907.3	-473.9	1,022.1	1.62	-1.58	0.74
3,352.0	27.80	213.20	3,109.5	-943.3	-498.1	1,065.4	1.08	0.74	-1.70
3,447.0	28.50	211.00	3,193.3	-981.2	-521.9	1,110.2	1.32	0.74	-2.32
3,542.0	28.30	209.00	3,276.8	-1,020.4	-544.5	1,155.4	1.02	-0.21	-2.11
3,636.0	27.60	209.60	3,359.9	-1,058.8	-566.1	1,199.4	0.80	-0.74	0.64
3,731.0	28.20	208.60	3,443.8	-1,097.6	-587.7	1,243.8	0.80	0.63	-1.05
3,825.0	28.80	207.40	3,526.4	-1,137.2	-608.7	1,288.6	0.88	0.64	-1.28
3,920.0	27.70	209.00	3,610.1	-1,176.9	-630.0	1,333.6	1.41	-1.16	1.68
4,014.0	28.70	208.80	3,693.0	-1,215.7	-651.4	1,378.0	1.07	1.06	-0.21
4,109.0	28.60	207.30	3,776.3	-1,255.9	-672.9	1,423.5	0.76	-0.11	-1.58
4,203.0	27.10	207.90	3,859.4	-1,294.9	-693.2	1,467.3	1.62	-1.60	0.64
4,298.0	27.20	207.20	3,944.0	-1,333.3	-713.3	1,510.6	0.35	0.11	-0.74
4,392.0	26.50	207.80	4,027.8	-1,370.9	-732.9	1,553.0	0.80	-0.74	0.64
4,487.0	26.10	208.30	4,113.0	-1,408.1	-752.6	1,595.0	0.48	-0.42	0.53
4,582.0	22.30	208.00	4,199.6	-1,442.4	-771.0	1,633.9	4.00	-4.00	-0.32
4,676.0	20.40	205.90	4,287.2	-1,472.9	-786.6	1,668.1	2.18	-2.02	-2.23
4,771.0	20.20	203.40	4,376.3	-1,502.9	-800.3	1,700.8	0.94	-0.21	-2.63
4,865.0	20.00	205.00	4,464.6	-1,532.3	-813.5	1,732.9	0.62	-0.21	1.70
4,960.0	21.10	207.90	4,553.5	-1,562.2	-828.4	1,766.2	1.58	1.16	3.05
5,054.0	21.00	209.10	4,641.2	-1,591.8	-844.5	1,799.9	0.47	-0.11	1.28

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 11A-15 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 11A-15 596	North Reference:	True
Wellbore:	NPR 11A-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-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)
5,149.0	20.80	208.10	4,730.0	-1,621.6	-860.7	1,833.8	0.43	-0.21	-1.05
5,245.0	20.60	209.00	4,819.8	-1,651.4	-877.0	1,867.7	0.39	-0.21	0.94
5,338.0	20.20	207.30	4,907.0	-1,680.0	-892.3	1,900.1	0.77	-0.43	-1.83
5,433.0	19.40	209.60	4,996.3	-1,708.3	-907.6	1,932.2	1.18	-0.84	2.42
5,527.0	18.10	210.00	5,085.4	-1,734.5	-922.6	1,962.4	1.39	-1.38	0.43
5,621.0	15.90	210.30	5,175.2	-1,758.2	-936.4	1,989.9	2.34	-2.34	0.32
5,716.0	14.60	211.00	5,266.9	-1,779.7	-949.1	2,014.9	1.38	-1.37	0.74
5,810.0	13.00	212.20	5,358.2	-1,798.9	-960.8	2,037.3	1.73	-1.70	1.28
5,905.0	11.40	212.40	5,451.0	-1,815.8	-971.6	2,057.4	1.68	-1.68	0.21
6,000.0	8.60	212.80	5,544.6	-1,829.7	-980.5	2,073.9	2.95	-2.95	0.42
6,094.0	6.60	210.60	5,637.8	-1,840.3	-987.0	2,086.3	2.15	-2.13	-2.34
6,189.0	4.90	200.20	5,732.3	-1,848.8	-991.2	2,095.7	2.09	-1.79	-10.95
6,284.0	3.30	196.90	5,827.0	-1,855.2	-993.4	2,102.4	1.70	-1.68	-3.47
6,379.0	3.30	197.70	5,921.9	-1,860.4	-995.0	2,107.7	0.05	0.00	0.84
6,473.0	3.30	202.30	6,015.7	-1,865.5	-996.9	2,113.0	0.28	0.00	4.89
6,662.0	3.90	216.70	6,204.3	-1,875.7	-1,002.8	2,124.8	0.57	0.32	7.62
6,757.0	4.30	221.30	6,299.1	-1,881.0	-1,007.1	2,131.5	0.54	0.42	4.84
6,851.0	4.50	226.40	6,392.8	-1,886.2	-1,012.0	2,138.5	0.47	0.21	5.43
7,135.0	6.50	233.20	6,675.5	-1,903.5	-1,033.0	2,164.1	0.74	0.70	2.39
7,419.0	7.20	235.80	6,957.5	-1,923.1	-1,060.6	2,195.1	0.27	0.25	0.92
7,514.0	7.90	236.80	7,051.7	-1,930.0	-1,071.0	2,206.3	0.75	0.74	1.05
7,608.0	7.90	237.90	7,144.8	-1,937.0	-1,081.8	2,217.9	0.16	0.00	1.17
7,703.0	8.60	238.10	7,238.8	-1,944.2	-1,093.4	2,230.0	0.74	0.74	0.21
7,797.0	9.20	239.10	7,331.6	-1,951.8	-1,105.8	2,242.8	0.66	0.64	1.06
7,892.0	9.60	239.90	7,425.4	-1,959.7	-1,119.2	2,256.4	0.44	0.42	0.84
8,081.0	10.80	238.40	7,611.4	-1,976.8	-1,147.9	2,285.9	0.65	0.63	-0.79
Last Survey - 8081' MD									
8,931.0	12.20	240.40	8,444.3	-2,062.9	-1,293.8	2,434.4	0.17	0.16	0.24
9,405.0	12.00	242.20	8,907.8	-2,110.7	-1,381.0	2,519.9	0.09	-0.04	0.38
9,499.0	12.00	243.00	8,999.7	-2,119.7	-1,398.3	2,536.5	0.18	0.00	0.85
9,594.0	11.40	243.30	9,092.7	-2,128.4	-1,415.5	2,552.7	0.63	-0.63	0.32
9,689.0	11.50	244.70	9,185.8	-2,136.6	-1,432.5	2,568.5	0.31	0.11	1.47
9,717.0	11.40	245.10	9,213.3	-2,139.0	-1,437.5	2,573.1	0.46	-0.36	1.43
9,768.2	11.40	245.10	9,263.5	-2,143.2	-1,446.7	2,581.5	0.00	0.00	0.00
BHL 164'FNL, 1298'FWL, SEC.15									
9,797.0	11.40	245.10	9,291.7	-2,145.6	-1,451.8	2,586.2	0.00	0.00	0.00

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Wellbore:	NPR 11A-15 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 11A-15 596 Wellbore #1	Database:	US_EDM

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 1873'FSL, 2511'FW - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	14,403,096.19	2,441,491.38	39.627494	-108.155233
BHL 164'FNL, 1298'FWL - survey misses target center by 265.7ft at 9768.2ft MD (9263.5 TVD, -2143.2 N, -1446.7 E) - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	9,316.0	-2,036.5	-1,209.1	14,401,021.70	2,440,347.02	39.621903	-108.159525

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
+N/-S (ft)	+E/-W (ft)			
8,081.0	7,611.4	-1,976.8	-1,147.9	Last Survey - 8081' MD

Checked By: _____	Approved By: _____	Date: _____
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