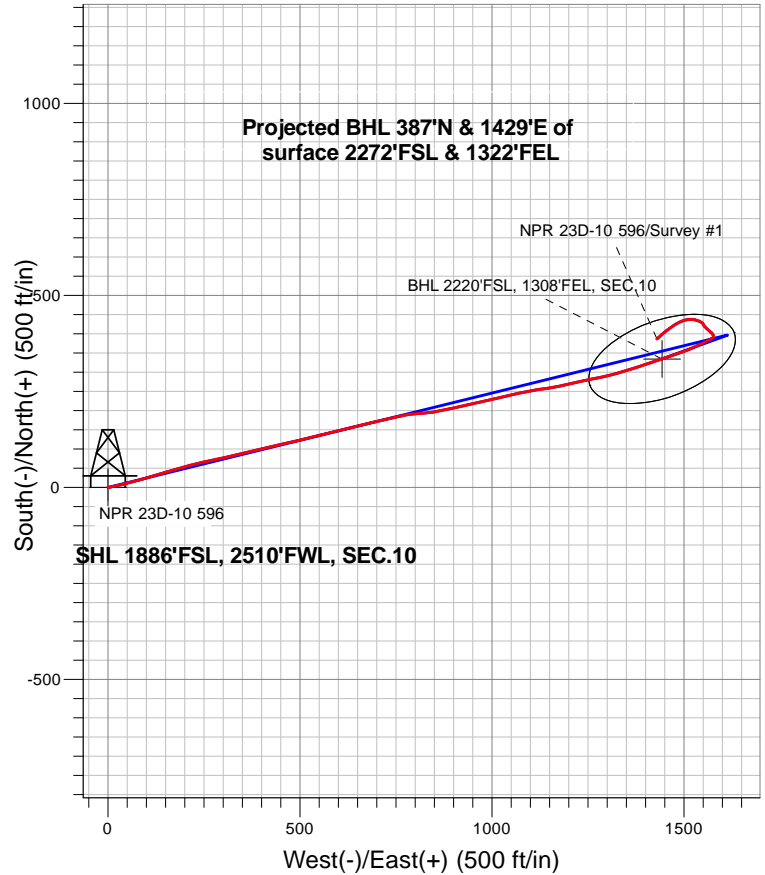


Caerus Oil and Gas LLC



LEGEND

- NPR 23D-10 596, NPR 23D-10 596 Wellbore #1, Plan #1 (5-21-18)R VO
- NPR 23D-10 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
9,844'MD & 9594' TVD @ 1429.09'VS
7.3 deg Inc 229.4 deg AZ

Project: SEC.10-T5S-R96W
 Site: K10 596 Pad Sec.10-T5S-R96W
 Well: NPR 23D-10 596
 Plan: NPR 23D-10 596 Wellbore #1



Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 23D-10 596

NPR 23D-10 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

29 May, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23D-10 596
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 23D-10 596	North Reference:	True
Wellbore:	NPR 23D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23D-10 596 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 23D-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,108.55 usft	Latitude:	39.627528
	+E/-W	0.0 ft	Easting:	2,441,490.15 usft	Longitude:	-108.155236
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore		NPR 23D-10 596 Wellbore #1			
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	5/21/2018	9.58	65.83	51,470

Design	NPR 23D-10 596 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	76.94	

Survey Program		Date	5/29/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	9,844.0	Survey #1 (NPR 23D-10 596 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 1886'FSL, 2510'FWL, SEC.10										
	130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00
	209.0	2.00	80.60	209.0	0.2	1.4	1.4	2.53	2.53	0.00
	301.0	3.60	76.10	300.9	1.2	5.7	5.9	1.75	1.74	-4.89
	394.0	6.60	78.70	393.5	2.9	13.8	14.1	3.23	3.23	2.80
	486.0	9.50	80.30	484.6	5.2	26.5	27.0	3.16	3.15	1.74
	578.0	11.70	74.80	575.0	9.0	43.0	43.9	2.63	2.39	-5.98
	670.0	13.80	73.40	664.7	14.6	62.5	64.2	2.31	2.28	-1.52
	763.0	15.50	73.20	754.7	21.3	85.0	87.6	1.83	1.83	-0.22

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23D-10 596
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 23D-10 596	North Reference:	True
Wellbore:	NPR 23D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23D-10 596 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)
856.0	18.40	74.40	843.7	28.9	111.1	114.7	3.14	3.12	1.29
948.0	19.20	75.70	930.7	36.5	139.7	144.3	0.98	0.87	1.41
1,043.0	16.70	73.40	1,021.1	44.3	167.9	173.6	2.73	-2.63	-2.42
1,138.0	14.00	72.40	1,112.7	51.6	192.0	198.7	2.86	-2.84	-1.05
1,232.0	13.80	76.00	1,204.0	57.8	213.7	221.2	0.94	-0.21	3.83
1,327.0	14.40	75.70	1,296.1	63.4	236.1	244.4	0.64	0.63	-0.32
1,421.0	16.90	78.10	1,386.6	69.1	260.8	269.7	2.75	2.66	2.55
1,516.0	18.20	78.20	1,477.2	75.0	288.9	298.4	1.37	1.37	0.11
1,610.0	21.20	77.50	1,565.7	81.7	319.8	330.0	3.20	3.19	-0.74
1,705.0	22.50	77.20	1,653.9	89.5	354.3	365.4	1.37	1.37	-0.32
1,799.0	23.60	75.60	1,740.3	98.1	390.1	402.2	1.35	1.17	-1.70
1,893.0	22.40	76.60	1,826.9	106.9	425.8	438.9	1.34	-1.28	1.06
1,988.0	20.90	78.30	1,915.2	114.6	460.0	473.9	1.71	-1.58	1.79
2,082.0	20.20	76.70	2,003.2	121.7	492.2	506.9	0.95	-0.74	-1.70
2,177.0	20.60	75.00	2,092.2	129.8	524.3	540.0	0.75	0.42	-1.79
2,271.0	20.30	76.90	2,180.3	137.8	556.1	572.9	0.77	-0.32	2.02
2,366.0	19.70	76.80	2,269.6	145.2	587.8	605.4	0.63	-0.63	-0.11
2,461.0	18.60	76.90	2,359.3	152.3	618.1	636.5	1.16	-1.16	0.11
2,555.0	18.20	76.30	2,448.5	159.1	647.0	666.2	0.47	-0.43	-0.64
2,650.0	17.20	76.30	2,539.0	166.0	675.0	695.1	1.05	-1.05	0.00
2,744.0	16.40	76.80	2,629.0	172.3	701.5	722.3	0.86	-0.85	0.53
2,839.0	15.60	76.50	2,720.3	178.4	726.9	748.4	0.85	-0.84	-0.32
2,908.0	15.00	75.00	2,786.9	182.8	744.6	766.6	1.04	-0.87	-2.17
3,057.0	15.20	82.30	2,930.7	190.4	782.6	805.4	1.28	0.13	4.90
3,151.0	16.80	87.10	3,021.1	192.8	808.4	831.0	2.21	1.70	5.11
3,246.0	17.40	83.20	3,111.9	195.2	836.2	858.6	1.36	0.63	-4.11
3,340.0	19.20	78.30	3,201.2	200.0	865.3	888.1	2.52	1.91	-5.21
3,435.0	19.10	77.70	3,290.9	206.4	895.7	919.2	0.23	-0.11	-0.63
3,529.0	18.90	77.40	3,379.8	213.0	925.6	949.8	0.24	-0.21	-0.32
3,624.0	19.10	77.50	3,469.6	219.7	955.8	980.8	0.21	0.21	0.11
3,718.0	18.90	77.30	3,558.5	226.4	985.7	1,011.4	0.22	-0.21	-0.21
3,812.0	17.80	77.70	3,647.7	232.8	1,014.6	1,040.9	1.18	-1.17	0.43
3,907.0	17.10	77.00	3,738.3	239.1	1,042.4	1,069.4	0.77	-0.74	-0.74
4,001.0	16.00	77.00	3,828.4	245.1	1,068.5	1,096.2	1.17	-1.17	0.00
4,096.0	16.20	79.50	3,919.7	250.5	1,094.3	1,122.5	0.76	0.21	2.63
4,190.0	16.50	80.20	4,009.9	255.1	1,120.3	1,149.0	0.38	0.32	0.74
4,285.0	17.90	82.10	4,100.7	259.4	1,148.1	1,177.0	1.59	1.47	2.00
4,380.0	17.00	78.70	4,191.3	264.1	1,176.1	1,205.4	1.43	-0.95	-3.58
4,474.0	15.20	76.60	4,281.6	269.7	1,201.6	1,231.5	2.01	-1.91	-2.23
4,569.0	14.20	77.00	4,373.5	275.2	1,225.1	1,255.6	1.06	-1.05	0.42
4,663.0	15.50	78.40	4,464.3	280.3	1,248.6	1,279.7	1.43	1.38	1.49
4,758.0	16.60	79.90	4,555.6	285.3	1,274.4	1,305.9	1.24	1.16	1.58
4,852.0	18.30	75.40	4,645.3	291.3	1,301.9	1,334.1	2.31	1.81	-4.79

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23D-10 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23D-10 596	North Reference:	True
Wellbore:	NPR 23D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23D-10 596 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)
4,947.0	18.30	73.40	4,735.5	299.3	1,330.6	1,363.9	0.66	0.00	-2.11
5,042.0	17.80	72.80	4,825.8	307.9	1,358.8	1,393.2	0.56	-0.53	-0.63
5,136.0	17.70	73.80	4,915.4	316.1	1,386.2	1,421.8	0.34	-0.11	1.06
5,231.0	17.10	71.10	5,006.0	324.7	1,413.3	1,450.1	1.06	-0.63	-2.84
5,325.0	16.70	69.90	5,096.0	333.8	1,439.1	1,477.3	0.56	-0.43	-1.28
5,420.0	15.30	71.20	5,187.3	342.5	1,463.8	1,503.3	1.52	-1.47	1.37
5,514.0	13.60	71.20	5,278.3	350.1	1,486.0	1,526.7	1.81	-1.81	0.00
5,609.0	11.30	69.70	5,371.1	356.9	1,505.3	1,547.0	2.44	-2.42	-1.58
5,703.0	10.60	66.80	5,463.3	363.5	1,521.9	1,564.6	0.95	-0.74	-3.09
5,798.0	8.50	65.00	5,557.0	369.9	1,536.3	1,580.1	2.23	-2.21	-1.89
5,893.0	7.50	63.60	5,651.1	375.7	1,548.2	1,593.0	1.07	-1.05	-1.47
5,987.0	6.10	62.70	5,744.4	380.7	1,558.1	1,603.8	1.49	-1.49	-0.96
6,082.0	4.60	63.80	5,839.0	384.7	1,566.0	1,612.4	1.58	-1.58	1.16
6,176.0	4.00	58.80	5,932.8	388.0	1,572.2	1,619.2	0.75	-0.64	-5.32
6,271.0	1.30	48.30	6,027.6	390.5	1,575.8	1,623.3	2.88	-2.84	-11.05
6,365.0	0.60	16.40	6,121.6	391.7	1,576.8	1,624.5	0.91	-0.74	-33.94
6,460.0	0.60	6.50	6,216.6	392.6	1,577.0	1,624.9	0.11	0.00	-10.42
6,554.0	0.70	357.50	6,310.6	393.7	1,577.0	1,625.2	0.15	0.11	-9.57
6,649.0	1.10	343.50	6,405.6	395.1	1,576.7	1,625.2	0.48	0.42	-14.74
6,743.0	1.20	326.40	6,499.6	396.8	1,575.9	1,624.8	0.38	0.11	-18.19
6,837.0	1.50	323.70	6,593.6	398.6	1,574.6	1,624.0	0.33	0.32	-2.87
6,932.0	1.50	330.20	6,688.5	400.7	1,573.3	1,623.2	0.18	0.00	6.84
7,026.0	1.60	309.70	6,782.5	402.6	1,571.7	1,622.0	0.60	0.11	-21.81
7,121.0	1.80	310.20	6,877.5	404.4	1,569.5	1,620.3	0.21	0.21	0.53
7,215.0	1.70	314.10	6,971.4	406.4	1,567.4	1,618.7	0.17	-0.11	4.15
7,309.0	1.70	309.80	7,065.4	408.2	1,565.3	1,617.1	0.14	0.00	-4.57
7,403.0	2.10	311.10	7,159.3	410.3	1,562.9	1,615.2	0.43	0.43	1.38
7,498.0	2.20	313.60	7,254.2	412.7	1,560.3	1,613.2	0.14	0.11	2.63
7,592.0	2.20	313.10	7,348.2	415.1	1,557.7	1,611.2	0.02	0.00	-0.53
7,686.0	2.20	317.40	7,442.1	417.7	1,555.1	1,609.3	0.18	0.00	4.57
7,781.0	2.10	323.50	7,537.0	420.4	1,552.9	1,607.7	0.26	-0.11	6.42
7,875.0	2.20	331.90	7,631.0	423.4	1,551.0	1,606.6	0.35	0.11	8.94
Last Survey - 7875' MD									
7,971.0	2.30	333.30	7,726.9	426.8	1,549.3	1,605.6	0.12	0.10	1.46
8,066.0	2.00	305.40	7,821.8	429.4	1,547.1	1,604.1	1.13	-0.32	-29.37
8,160.0	1.90	285.40	7,915.8	430.8	1,544.2	1,601.6	0.73	-0.11	-21.28
8,255.0	1.80	286.80	8,010.7	431.6	1,541.3	1,598.9	0.12	-0.11	1.47
8,350.0	2.00	292.20	8,105.7	432.7	1,538.3	1,596.3	0.28	0.21	5.68
8,444.0	2.20	294.90	8,199.6	434.1	1,535.2	1,593.5	0.24	0.21	2.87
8,539.0	2.20	296.00	8,294.5	435.6	1,531.9	1,590.7	0.04	0.00	1.16
8,633.0	2.50	287.80	8,388.5	437.1	1,528.3	1,587.5	0.48	0.32	-8.72
8,728.0	3.20	276.50	8,483.4	438.0	1,523.7	1,583.2	0.94	0.74	-11.89
8,822.0	3.60	267.60	8,577.2	438.2	1,518.1	1,577.9	0.70	0.43	-9.47

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23D-10 596	North Reference:	True
Wellbore:	NPR 23D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23D-10 596 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)	
8,917.0	4.20	263.30	8,672.0	437.6	1,511.7	1,571.5	0.70	0.63	-4.53	
9,011.0	5.10	254.90	8,765.7	436.1	1,504.2	1,563.9	1.20	0.96	-8.94	
9,106.0	5.30	249.20	8,860.3	433.5	1,496.1	1,555.3	0.58	0.21	-6.00	
9,200.0	5.40	246.10	8,953.9	430.1	1,488.0	1,546.7	0.33	0.11	-3.30	
9,295.0	5.60	240.50	9,048.4	426.1	1,479.8	1,537.8	0.60	0.21	-5.89	
9,484.0	6.50	234.10	9,236.4	415.2	1,463.1	1,519.1	0.59	0.48	-3.39	
9,673.0	7.20	229.20	9,424.0	401.2	1,445.5	1,498.8	0.48	0.37	-2.59	
9,768.0	7.30	229.40	9,518.3	393.4	1,436.4	1,488.2	0.11	0.11	0.21	
9,823.6	7.30	229.40	9,573.4	388.8	1,431.1	1,481.9	0.00	0.00	0.00	
BHL 2220°FSL, 1308°FEL, SEC.10										
9,844.0	7.30	229.40	9,593.6	387.1	1,429.1	1,479.6	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
SHL 1886°FSL, 2510°FW	0.00	0.00	1.0	0.0	0.0	14,403,108.55	2,441,490.15	39.627528	-108.155236	
- hit/miss target										
- survey hits target center										
- Point										
BHL 2220°FSL, 1308°FEL	0.00	0.00	9,570.0	334.8	1,442.8	14,403,489.01	2,442,922.08	39.628447	-108.150114	
- survey misses target center by 55.4ft at 9823.6ft MD (9573.4 TVD, 388.8 N, 1431.1 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	
7,875.0	7,631.0	423.4	1,551.0	Last Survey - 7875' MD	

Checked By: _____ Approved By: _____ Date: _____