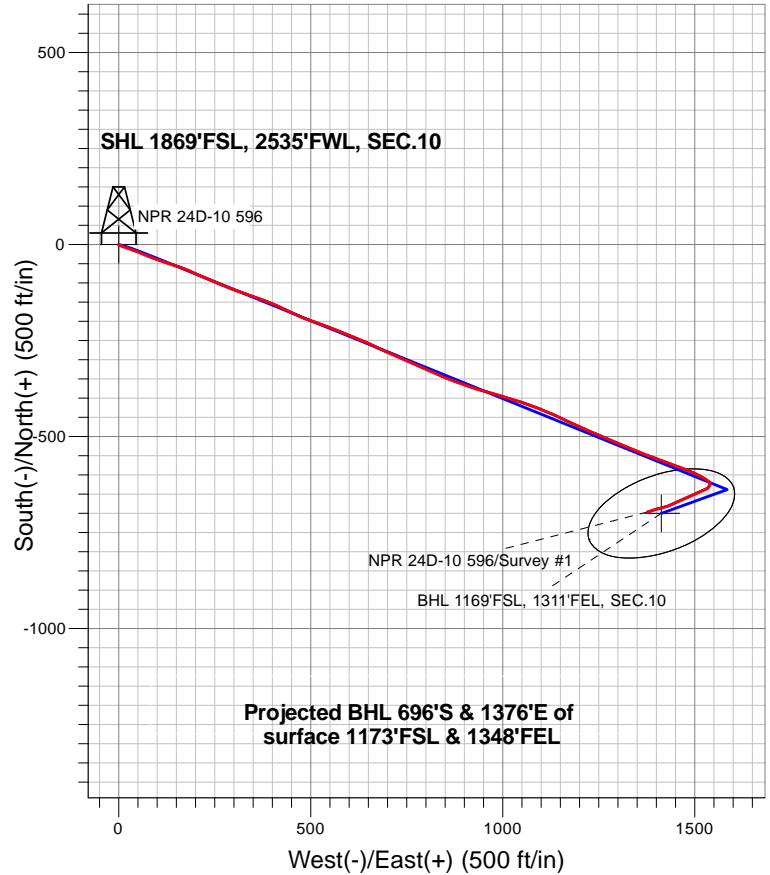


Caerus Oil and Gas LLC



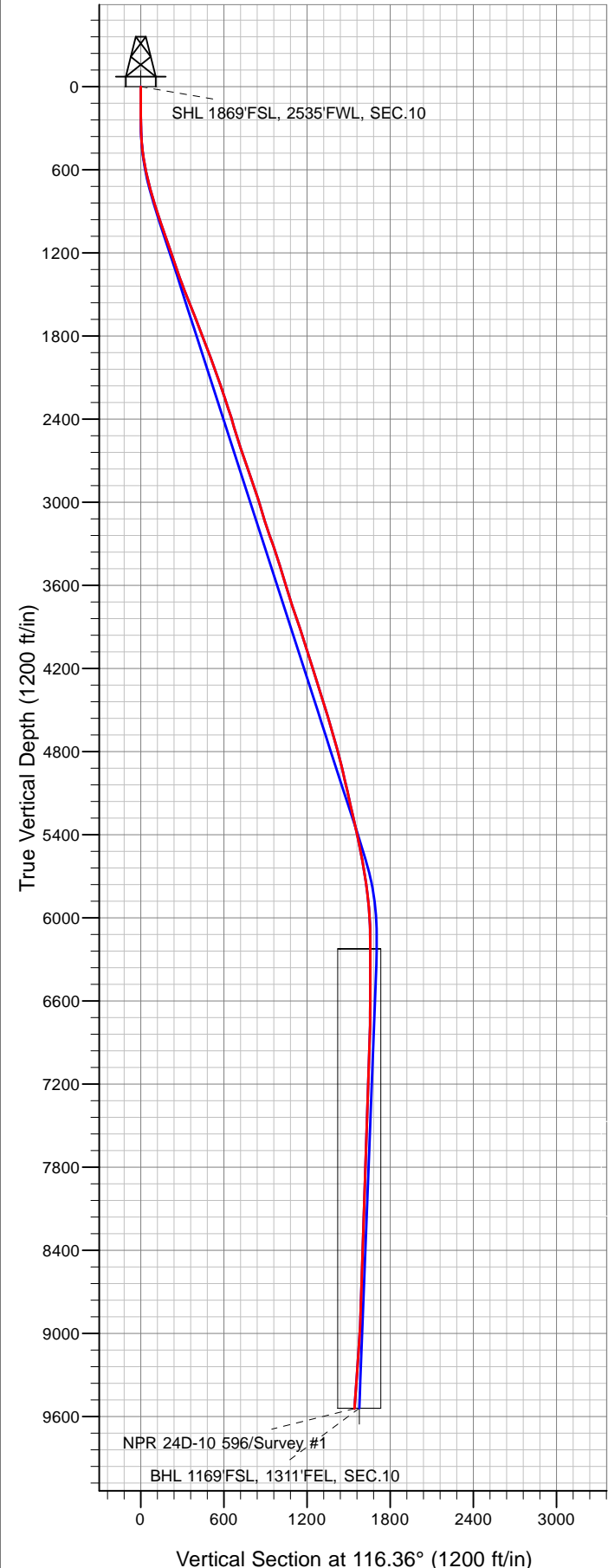
LEGEND

- NPR 24D-10 596, NPR 24D-10 596 Wellbore #1, Plan #1 (4-25-18)R V0
- NPR 24D-10 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
9,804'MD & 9545' TVD @ 1520.82°VS
5.5 deg Inc 251.9 deg AZ

Project: SEC.10-T5S-R96W
 Site: K10 596 Pad Sec.10-T5S-R96W
 Well: NPR 24D-10 596
 Plan: NPR 24D-10 596 Wellbore #1





Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 24D-10 596

NPR 24D-10 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

07 May, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 24D-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 24D-10 596	North Reference:	True
Wellbore:	NPR 24D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 24D-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 24D-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,092.96 usft	Latitude:	39.627483
	+E/-W	0.0 ft	Easting:	2,441,515.73 usft	Longitude:	-108.155147
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore	NPR 24D-10 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	4/25/2018	9.60	65.83	51,478

Design	NPR 24D-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	116.36	

Survey Program	Date	5/7/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	9,804.0	Survey #1 (NPR 24D-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 1869'FSL, 2535'FWL, SEC.10										
130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00	
296.0	1.40	115.90	296.0	-0.9	1.8	2.0	0.84	0.84	0.00	
389.0	4.20	115.20	388.9	-2.8	5.9	6.6	3.01	3.01	-0.75	
481.0	7.30	108.80	480.4	-6.2	14.5	15.7	3.44	3.37	-6.96	
574.0	10.30	108.70	572.3	-10.7	28.0	29.8	3.23	3.23	-0.11	
669.0	13.30	111.70	665.3	-17.5	46.2	49.1	3.22	3.16	3.16	
763.0	15.60	112.90	756.3	-26.4	67.9	72.5	2.47	2.45	1.28	
858.0	18.20	109.80	847.2	-36.4	93.6	100.0	2.90	2.74	-3.26	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 24D-10 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 24D-10 596	North Reference:	True
Wellbore:	NPR 24D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 24D-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)
952.0	19.00	108.40	936.3	-46.2	121.9	129.8	0.97	0.85	-1.49
1,047.0	18.60	108.30	1,026.2	-55.8	151.0	160.1	0.42	-0.42	-0.11
1,141.0	18.70	113.60	1,115.3	-66.6	179.0	190.0	1.81	0.11	5.64
1,236.0	18.90	114.10	1,205.2	-79.0	207.0	220.6	0.27	0.21	0.53
1,330.0	19.20	112.30	1,294.1	-91.0	235.2	251.2	0.70	0.32	-1.91
1,425.0	19.90	113.10	1,383.6	-103.3	264.6	282.9	0.79	0.74	0.84
1,519.0	20.90	110.40	1,471.7	-115.4	295.0	315.6	1.46	1.06	-2.87
1,614.0	21.40	110.00	1,560.3	-127.3	327.2	349.7	0.55	0.53	-0.42
1,708.0	21.90	108.90	1,647.7	-138.8	359.9	384.1	0.69	0.53	-1.17
1,803.0	22.50	111.80	1,735.6	-151.3	393.5	419.8	1.31	0.63	3.05
1,897.0	21.10	116.30	1,822.9	-165.5	425.4	454.6	2.32	-1.49	4.79
1,992.0	20.40	114.40	1,911.7	-179.9	455.8	488.3	1.02	-0.74	-2.00
2,087.0	19.70	111.60	2,001.0	-192.6	485.8	520.8	1.25	-0.74	-2.95
2,181.0	19.20	109.20	2,089.6	-203.6	515.1	551.9	1.00	-0.53	-2.55
2,276.0	19.20	110.30	2,179.3	-214.1	544.5	582.9	0.38	0.00	1.16
2,358.0	18.80	111.90	2,256.9	-223.7	569.4	609.5	0.80	-0.49	1.95
2,494.0	17.50	112.60	2,386.1	-239.7	608.6	651.8	0.97	-0.96	0.51
2,589.0	16.30	112.10	2,477.0	-250.3	634.1	679.3	1.27	-1.26	-0.53
2,683.0	17.40	114.40	2,567.0	-261.0	659.2	706.5	1.37	1.17	2.45
2,778.0	18.70	116.20	2,657.3	-273.6	685.8	736.0	1.49	1.37	1.89
2,872.0	19.90	114.30	2,746.0	-286.9	713.9	767.0	1.44	1.28	-2.02
2,966.0	19.70	112.90	2,834.4	-299.6	743.0	798.8	0.55	-0.21	-1.49
3,061.0	18.40	113.60	2,924.2	-311.8	771.5	829.8	1.39	-1.37	0.74
3,155.0	16.70	112.80	3,013.9	-323.0	797.6	858.1	1.83	-1.81	-0.85
3,250.0	16.70	115.30	3,104.8	-334.1	822.5	885.3	0.76	0.00	2.63
3,344.0	18.50	112.20	3,194.4	-345.5	848.5	913.7	2.16	1.91	-3.30
3,439.0	19.80	110.80	3,284.2	-356.9	877.5	944.8	1.45	1.37	-1.47
3,532.0	19.00	109.20	3,371.9	-367.5	906.6	975.5	1.03	-0.86	-1.72
3,627.0	17.70	107.60	3,462.1	-377.0	934.9	1,005.1	1.47	-1.37	-1.68
3,721.0	16.50	105.30	3,551.9	-384.8	961.4	1,032.3	1.47	-1.28	-2.45
3,815.0	17.10	105.80	3,641.9	-392.1	987.6	1,059.0	0.66	0.64	0.53
3,910.0	18.40	105.40	3,732.4	-399.9	1,015.5	1,087.5	1.37	1.37	-0.42
4,004.0	19.50	109.50	3,821.3	-409.1	1,044.6	1,117.6	1.84	1.17	4.36
4,099.0	18.60	111.00	3,911.1	-419.8	1,073.7	1,148.4	1.08	-0.95	1.58
4,193.0	17.40	110.20	4,000.5	-430.0	1,100.9	1,177.3	1.30	-1.28	-0.85
4,288.0	17.20	113.70	4,091.2	-440.6	1,127.1	1,205.5	1.12	-0.21	3.68
4,383.0	18.80	115.20	4,181.5	-452.7	1,153.8	1,234.8	1.75	1.68	1.58
4,477.0	17.80	115.20	4,270.8	-465.3	1,180.5	1,264.3	1.06	-1.06	0.00
4,572.0	16.80	115.10	4,361.5	-477.3	1,206.0	1,292.6	1.05	-1.05	-0.11
4,666.0	17.40	112.50	4,451.3	-488.4	1,231.3	1,320.2	1.03	0.64	-2.77
4,761.0	17.00	113.40	4,542.1	-499.4	1,257.2	1,348.2	0.51	-0.42	0.95
4,855.0	16.20	112.80	4,632.2	-509.9	1,281.9	1,375.0	0.87	-0.85	-0.64
4,950.0	15.20	112.80	4,723.6	-519.9	1,305.6	1,400.7	1.05	-1.05	0.00

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 24D-10 596	North Reference:	True
Wellbore:	NPR 24D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 24D-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)	
5,044.0	14.90	113.20	4,814.4	-529.4	1,328.1	1,425.1	0.34	-0.32	0.43	
5,139.0	14.20	111.90	4,906.3	-538.6	1,350.1	1,448.9	0.81	-0.74	-1.37	
5,234.0	13.10	109.90	4,998.7	-546.6	1,371.0	1,471.2	1.26	-1.16	-2.11	
5,328.0	12.90	110.70	5,090.3	-553.9	1,390.9	1,492.2	0.29	-0.21	0.85	
5,423.0	12.70	110.40	5,182.9	-561.3	1,410.6	1,513.2	0.22	-0.21	-0.32	
5,517.0	12.60	110.60	5,274.6	-568.5	1,429.9	1,533.6	0.12	-0.11	0.21	
5,612.0	12.30	110.30	5,367.4	-575.7	1,449.1	1,554.0	0.32	-0.32	-0.32	
5,707.0	12.10	109.90	5,460.2	-582.6	1,467.9	1,574.0	0.23	-0.21	-0.42	
5,801.0	10.60	114.00	5,552.4	-589.5	1,485.1	1,592.4	1.81	-1.60	4.36	
5,896.0	9.80	114.70	5,645.9	-596.4	1,500.4	1,609.2	0.85	-0.84	0.74	
5,990.0	8.60	115.70	5,738.7	-602.8	1,514.0	1,624.2	1.29	-1.28	1.06	
6,085.0	6.00	124.20	5,832.9	-608.7	1,524.5	1,636.2	2.96	-2.74	8.95	
6,179.0	5.10	125.80	5,926.5	-613.9	1,532.0	1,645.2	0.97	-0.96	1.70	
6,274.0	3.40	127.00	6,021.2	-618.0	1,537.6	1,652.2	1.79	-1.79	1.26	
6,369.0	1.50	156.50	6,116.1	-620.9	1,540.4	1,655.9	2.34	-2.00	31.05	
6,463.0	1.60	203.90	6,210.1	-623.2	1,540.3	1,656.9	1.33	0.11	50.43	
6,558.0	1.50	205.80	6,305.0	-625.5	1,539.3	1,657.0	0.12	-0.11	2.00	
6,652.0	1.40	209.80	6,399.0	-627.6	1,538.2	1,656.9	0.15	-0.11	4.26	
6,747.0	1.60	216.30	6,494.0	-629.7	1,536.8	1,656.6	0.28	0.21	6.84	
6,841.0	1.30	217.00	6,587.9	-631.6	1,535.4	1,656.2	0.32	-0.32	0.74	
6,936.0	1.10	218.90	6,682.9	-633.2	1,534.2	1,655.8	0.21	-0.21	2.00	
7,031.0	1.00	201.50	6,777.9	-634.7	1,533.3	1,655.7	0.35	-0.11	-18.32	
Last survey - 7031' MD										
9,205.0	5.30	253.50	8,948.3	-680.9	1,430.0	1,583.6	0.22	0.20	2.39	
9,394.0	4.80	254.30	9,136.6	-685.5	1,414.0	1,571.3	0.27	-0.26	0.42	
9,584.0	6.00	255.80	9,325.8	-690.1	1,396.7	1,557.9	0.64	0.63	0.79	
9,678.0	5.50	251.90	9,419.3	-692.7	1,387.7	1,550.9	0.67	-0.53	-4.15	
9,796.1	5.50	251.90	9,536.8	-696.2	1,376.9	1,542.9	0.00	0.00	0.00	
BHL 1169'FSL, 1311'FEL, SEC.10										
9,804.0	5.50	251.90	9,544.7	-696.4	1,376.2	1,542.3	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 1869'FSL, 2535'FW	0.00	0.00	1.0	0.0	0.0	14,403,092.96	2,441,515.73	39.627483	-108.155147	
- hit/miss target										
- Shape										
- survey hits target center										
- Point										
BHL 1169'FSL, 1311'FEL	0.00	0.00	9,540.0	-700.1	1,413.0	14,402,437.79	2,442,950.66	39.625561	-108.150131	
- survey misses target center by 36.4ft at 9796.1ft MD (9536.8 TVD, -696.2 N, 1376.9 E)										
- Ellipse (radii L200.0 W100.0 on 250.00 azi)										

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 24D-10 596	North Reference:	True
Wellbore:	NPR 24D-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 24D-10 596 Wellbore #1	Database:	US_EDM

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
7,031.0	6,777.9	-634.7	1,533.3	Last survey - 7031' MD

Checked By: _____	Approved By: _____	Date: _____
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