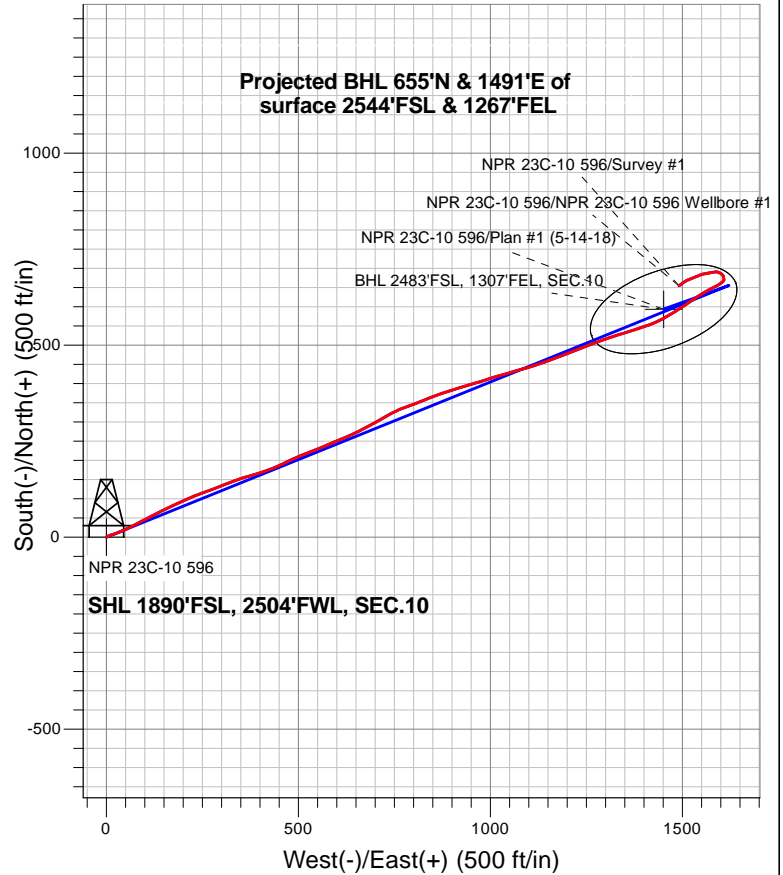


Caerus Oil and Gas LLC



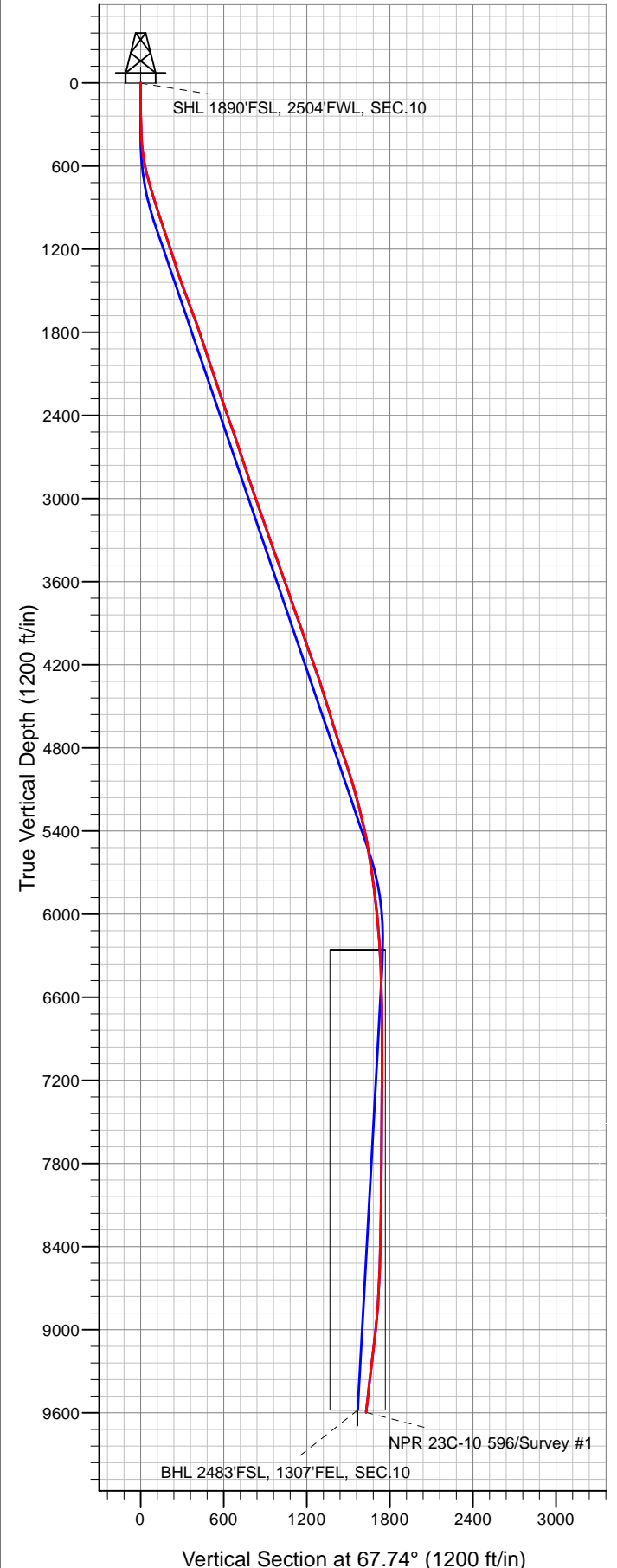
LEGEND

- NPR 23C-10 596, NPR 23C-10 596 Wellbore #1, Plan #1 (5-14-18) V0
- NPR 23C-10 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
9,870'MD & 9595' TVD @ 1627.53'VS
7.0 deg Inc 233.2 deg AZ

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





Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 23C-10 596

NPR 23C-10 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

21 May, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23C-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 23C-10 596	North Reference:	True
Wellbore:	NPR 23C-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23C-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 23C-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,112.36 usft	Latitude:	39.627539
	+E/-W	0.0 ft	Easting:	2,441,483.82 usft	Longitude:	-108.155258
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore	NPR 23C-10 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	5/14/2018	9.60	65.83	51,472

Design	NPR 23C-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	67.74	

Survey Program	Date	5/21/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	9,870.0	Survey #1 (NPR 23C-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 1890'FSL, 2504'FWL, SEC.10										
130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00	
393.0	2.60	56.90	392.9	3.3	5.0	5.9	0.99	0.99	0.00	
486.0	6.60	74.20	485.6	5.9	11.9	13.2	4.50	4.30	18.60	
578.0	10.70	70.50	576.5	10.2	25.1	27.0	4.50	4.46	-4.02	
670.0	14.60	66.40	666.3	17.7	43.7	47.2	4.35	4.24	-4.46	
762.0	16.10	62.10	755.0	28.3	65.6	71.5	2.05	1.63	-4.67	
855.0	17.70	62.50	844.0	40.8	89.6	98.4	1.72	1.72	0.43	
948.0	18.30	62.70	932.4	54.1	115.1	127.0	0.65	0.65	0.22	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23C-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 23C-10 596	North Reference:	True
Wellbore:	NPR 23C-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23C-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)
1,042.0	19.20	63.90	1,021.4	67.6	142.1	157.1	1.04	0.96	1.28
1,137.0	18.10	64.30	1,111.4	80.9	169.4	187.4	1.17	-1.16	0.42
1,231.0	17.30	66.10	1,201.0	92.9	195.3	216.0	1.03	-0.85	1.91
1,326.0	17.00	66.60	1,291.8	104.1	221.0	244.0	0.35	-0.32	0.53
1,421.0	19.20	70.40	1,382.1	114.9	248.5	273.5	2.63	2.32	4.00
1,515.0	20.00	69.50	1,470.6	125.7	278.1	305.0	0.91	0.85	-0.96
1,610.0	20.40	67.90	1,559.8	137.6	308.7	337.8	0.72	0.42	-1.68
1,704.0	20.70	70.50	1,647.8	149.3	339.5	370.8	1.02	0.32	2.77
1,799.0	19.80	74.60	1,736.9	159.2	370.8	403.5	1.77	-0.95	4.32
1,894.0	19.20	72.30	1,826.5	168.2	401.2	435.1	1.03	-0.63	-2.42
1,988.0	18.70	68.70	1,915.4	178.4	430.0	465.5	1.35	-0.53	-3.83
2,083.0	17.30	65.00	2,005.7	189.9	457.0	494.9	1.90	-1.47	-3.89
2,177.0	17.60	63.90	2,095.4	202.1	482.4	523.0	0.47	0.32	-1.17
2,272.0	19.20	68.20	2,185.6	214.2	509.8	553.0	2.21	1.68	4.53
2,366.0	20.10	69.10	2,274.1	225.7	539.3	584.6	1.01	0.96	0.96
2,461.0	19.30	67.10	2,363.5	237.6	569.0	616.6	1.10	-0.84	-2.11
2,555.0	19.00	67.50	2,452.3	249.5	597.4	647.4	0.35	-0.32	0.43
2,650.0	18.70	66.30	2,542.2	261.6	625.7	678.1	0.52	-0.32	-1.26
2,744.0	18.30	63.90	2,631.4	274.1	652.7	707.9	0.92	-0.43	-2.55
2,839.0	18.30	61.70	2,721.6	287.7	679.2	737.6	0.73	0.00	-2.32
2,912.0	18.80	61.70	2,790.8	298.8	699.7	760.7	0.68	0.68	0.00
3,062.0	18.30	60.00	2,933.0	322.0	741.4	808.1	0.49	-0.33	-1.13
3,156.0	20.10	69.50	3,021.8	335.0	769.3	838.9	3.83	1.91	10.11
3,251.0	19.20	69.60	3,111.2	346.2	799.2	870.8	0.95	-0.95	0.11
3,345.0	19.10	68.10	3,200.0	357.3	828.0	901.6	0.53	-0.11	-1.60
3,440.0	18.20	68.70	3,290.1	368.5	856.2	932.0	0.97	-0.95	0.63
3,534.0	19.80	72.30	3,378.9	378.7	885.1	962.5	2.11	1.70	3.83
3,629.0	19.90	73.50	3,468.3	388.2	915.9	994.7	0.44	0.11	1.26
3,723.0	19.40	73.50	3,556.8	397.1	946.2	1,026.1	0.53	-0.53	0.00
3,818.0	19.30	72.50	3,646.4	406.3	976.3	1,057.5	0.36	-0.11	-1.05
3,912.0	18.50	72.60	3,735.4	415.5	1,005.3	1,087.8	0.85	-0.85	0.11
4,006.0	20.40	74.00	3,824.0	424.4	1,035.3	1,118.9	2.08	2.02	1.49
4,101.0	19.90	74.00	3,913.2	433.5	1,066.8	1,151.5	0.53	-0.53	0.00
4,195.0	18.20	74.00	4,002.0	441.9	1,096.3	1,182.0	1.81	-1.81	0.00
4,290.0	19.90	71.20	4,091.8	451.2	1,125.8	1,212.9	2.03	1.79	-2.95
4,384.0	20.10	70.10	4,180.2	461.9	1,156.2	1,245.0	0.45	0.21	-1.17
4,478.0	18.90	68.70	4,268.8	472.9	1,185.5	1,276.3	1.37	-1.28	-1.49
4,572.0	17.30	67.50	4,358.1	483.8	1,212.6	1,305.5	1.75	-1.70	-1.28
4,667.0	17.70	70.50	4,448.7	494.0	1,239.3	1,334.1	1.04	0.42	3.16
4,761.0	17.00	70.00	4,538.5	503.5	1,265.7	1,362.1	0.76	-0.74	-0.53
4,855.0	17.00	68.90	4,628.3	513.1	1,291.4	1,389.6	0.34	0.00	-1.17
4,950.0	18.20	72.30	4,718.9	522.6	1,318.5	1,418.2	1.66	1.26	3.58
5,045.0	18.80	72.90	4,809.0	531.6	1,347.3	1,448.3	0.66	0.63	0.63

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23C-10 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 23C-10 596	North Reference:	True
Wellbore:	NPR 23C-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23C-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)	
5,139.0	18.80	72.00	4,898.0	540.8	1,376.2	1,478.5	0.31	0.00	-0.96	
5,234.0	18.40	72.20	4,988.0	550.1	1,405.0	1,508.7	0.43	-0.42	0.21	
5,328.0	16.70	65.00	5,077.6	560.3	1,431.4	1,537.0	2.93	-1.81	-7.66	
5,423.0	14.50	60.10	5,169.1	572.0	1,454.1	1,562.4	2.70	-2.32	-5.16	
5,517.0	14.20	58.20	5,260.2	584.0	1,474.1	1,585.4	0.59	-0.32	-2.02	
5,612.0	12.80	58.40	5,352.6	595.6	1,492.9	1,607.3	1.47	-1.47	0.21	
5,706.0	12.00	55.10	5,444.4	606.7	1,509.8	1,627.1	1.14	-0.85	-3.51	
5,801.0	9.50	56.10	5,537.7	616.7	1,524.4	1,644.4	2.64	-2.63	1.05	
5,896.0	9.00	57.50	5,631.5	625.1	1,537.2	1,659.4	0.58	-0.53	1.47	
5,990.0	9.00	57.00	5,724.3	633.0	1,549.6	1,673.9	0.08	0.00	-0.53	
6,085.0	6.80	61.00	5,818.4	639.8	1,560.7	1,686.8	2.39	-2.32	4.21	
6,179.0	5.70	61.90	5,911.9	644.7	1,569.7	1,696.9	1.17	-1.17	0.96	
6,274.0	5.70	61.90	6,006.4	649.1	1,578.0	1,706.3	0.00	0.00	0.00	
6,368.0	5.00	61.40	6,100.0	653.3	1,585.7	1,715.0	0.75	-0.74	-0.53	
6,463.0	5.00	61.80	6,194.6	657.2	1,593.0	1,723.3	0.04	0.00	0.42	
6,558.0	3.50	53.00	6,289.4	660.9	1,599.0	1,730.2	1.72	-1.58	-9.26	
6,653.0	1.90	59.20	6,384.2	663.5	1,602.6	1,734.5	1.71	-1.68	6.53	
6,747.0	1.60	40.50	6,478.2	665.3	1,604.8	1,737.3	0.68	-0.32	-19.89	
6,842.0	2.00	38.60	6,573.2	667.6	1,606.7	1,739.9	0.43	0.42	-2.00	
6,929.0	1.60	8.50	6,660.1	670.0	1,607.9	1,741.8	1.16	-0.46	-34.60	
7,402.0	1.30	325.40	7,133.0	680.9	1,605.8	1,744.1	0.23	-0.06	-9.11	
7,496.0	1.50	312.30	7,226.9	682.6	1,604.3	1,743.3	0.40	0.21	-13.94	
7,591.0	1.30	311.30	7,321.9	684.2	1,602.5	1,742.3	0.21	-0.21	-1.05	
7,874.0	0.60	317.80	7,604.9	687.4	1,599.1	1,740.4	0.25	-0.25	2.30	
8,064.0	0.70	270.40	7,794.9	688.1	1,597.3	1,738.9	0.28	0.05	-24.95	
8,253.0	0.40	306.00	7,983.9	688.5	1,595.6	1,737.5	0.23	-0.16	18.84	
8,347.0	1.10	309.60	8,077.9	689.3	1,594.7	1,736.9	0.75	0.74	3.83	
8,442.0	1.20	288.30	8,172.8	690.2	1,593.0	1,735.8	0.46	0.11	-22.42	
8,537.0	1.70	282.70	8,267.8	690.8	1,590.7	1,733.8	0.55	0.53	-5.89	
8,631.0	1.50	270.80	8,361.8	691.2	1,588.1	1,731.6	0.41	-0.21	-12.66	
8,725.0	1.30	263.00	8,455.7	691.0	1,585.8	1,729.4	0.29	-0.21	-8.30	
8,820.0	1.40	268.20	8,550.7	690.9	1,583.6	1,727.3	0.17	0.11	5.47	
Last survey - 8820' MD										
9,103.0	4.70	256.40	8,833.3	688.0	1,568.9	1,712.6	1.18	1.17	-4.17	
9,293.0	6.50	261.80	9,022.4	684.7	1,550.6	1,694.4	0.99	0.95	2.84	
9,671.0	7.00	236.60	9,397.8	668.9	1,510.2	1,651.1	0.79	0.13	-6.67	
9,767.0	7.00	233.20	9,493.1	662.2	1,500.7	1,639.7	0.43	0.00	-3.54	
9,862.1	7.00	233.20	9,587.5	655.3	1,491.4	1,628.5	0.00	0.00	0.00	
BHL 2483'FSL, 1307'FEL, SEC.10										
9,870.0	7.00	233.20	9,595.3	654.7	1,490.6	1,627.5	0.00	0.00	0.00	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 23C-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 23C-10 596	North Reference:	True
Wellbore:	NPR 23C-10 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 23C-10 596 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 1890'FSL, 2504'FW - survey hits target center - Point	0.00	0.00	1.0	0.0	0.0	14,403,112.36	2,441,483.82	39.627539	-108.155258
BHL 2483'FSL, 1307'FEI - survey misses target center by 74.2ft at 9862.1ft MD (9587.5 TVD, 655.3 N, 1491.4 E) - Ellipse (radii L200.0 W100.0 on 250.00 azi)	0.00	0.00	9,579.0	593.8	1,450.7	14,403,752.01	2,442,915.42	39.629169	-108.150108

Survey Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
+N/-S (ft)	+E/-W (ft)			
8,820.0	8,550.7	690.9	1,583.6	Last survey - 8820' MD

Checked By: _____	Approved By: _____	Date: _____
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