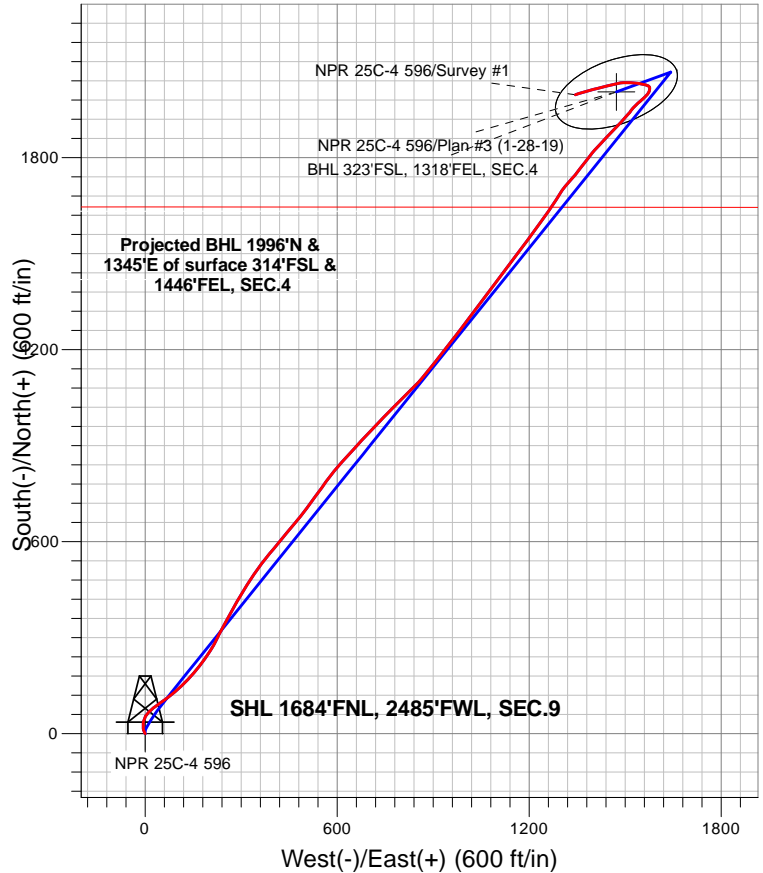


Caerus Oil and Gas LLC



LEGEND

- NPR 25C-4 596, NPR 25C-4 596 Wellbore #1, Plan #3 (1-28-19) V0
- NPR 25C-4 596 Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
10,810' MD & 10266' TVD @ 2404.74' VS
7.8 deg Inc 248.4 deg AZ

Project: SEC.9-T5S-R96W
 Site: NPR G09 596 Pad Sec.9-T5S-R96W
 Well: NPR 25C-4 596
 Plan: NPR 25C-4 596 Wellbore #1



Caerus Oil and Gas LLC

SEC.9-T5S-R96W

NPR G09 596 Pad Sec.9-T5S-R96W

NPR 25C-4 596

NPR 25C-4 596 Wellbore #1

Survey: Survey #1

Standard Survey Report

06 February, 2019

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 25C-4 596
Project:	SEC.9-T5S-R96W	TVD Reference:	WELL @ 7670.0ft (Original Well Elev)
Site:	NPR G09 596 Pad Sec.9-T5S-R96W	MD Reference:	WELL @ 7670.0ft (Original Well Elev)
Well:	NPR 25C-4 596	North Reference:	True
Wellbore:	NPR 25C-4 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 25C-4 596 Wellbore #1	Database:	US_EDM

Project	SEC.9-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		NPR G09 596 Pad Sec.9-T5S-R96W							
Site Position:		Northing:	14,404,590.33	usft	Latitude:	39.632067			
From:	Lat/Long	Easting:	2,436,015.01	usft	Longitude:	-108.174492			
Position Uncertainty:		0.0	ft	Slot Radius:	13-3/16	"	Grid Convergence:	1.80	°

Well	NPR 25C-4 596					
Well Position	+N/-S	0.0 ft	Northing:	14,404,648.68 usft	Latitude:	39.632217
	+E/-W	0.0 ft	Easting:	2,436,131.20 usft	Longitude:	-108.174073
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	7,640.0 ft

Wellbore	NPR 25C-4 596 Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/22/2019	9.53	65.80	51,387

Design	NPR 25C-4 596 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	36.29	

Survey Program	Date	2/6/2019			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
120.0	10,810.0	Survey #1 (NPR 25C-4 596 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 1684'FNL, 2485'FWL, SEC.9										
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00	
211.0	2.60	329.00	211.0	1.8	-1.1	0.8	2.86	2.86	0.00	
303.0	5.70	339.70	302.7	7.8	-3.7	4.1	3.46	3.37	11.63	
394.0	9.20	352.90	392.9	19.3	-6.2	11.9	4.26	3.85	14.51	
486.0	11.50	7.00	483.5	35.7	-6.0	25.2	3.70	2.50	15.33	
578.0	14.40	32.40	573.2	54.5	1.3	44.7	6.87	3.15	27.61	
673.0	19.20	49.40	664.1	74.7	19.5	71.7	7.18	5.05	17.89	
768.0	22.00	55.40	753.1	94.9	46.0	103.7	3.69	2.95	6.32	

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Site:	NPR G09 596 Pad Sec.9-T5S-R96W	MD Reference:	WELL @ 7670.0ft (Original Well Elev)
Well:	NPR 25C-4 596	North Reference:	True
Wellbore:	NPR 25C-4 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 25C-4 596 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)
861.0	23.00	52.70	839.0	115.8	74.8	137.6	1.55	1.08	-2.90
956.0	23.10	47.70	926.4	139.6	103.3	173.7	2.06	0.11	-5.26
1,050.0	20.50	44.50	1,013.7	163.8	128.5	208.1	3.04	-2.77	-3.40
1,145.0	20.20	40.90	1,102.8	188.0	150.9	240.9	1.35	-0.32	-3.79
1,239.0	23.20	37.10	1,190.1	215.1	172.7	275.6	3.52	3.19	-4.04
1,333.0	24.10	34.60	1,276.2	245.7	194.8	313.3	1.43	0.96	-2.66
1,427.0	21.70	28.80	1,362.8	276.7	214.1	349.7	3.50	-2.55	-6.17
1,522.0	19.90	25.10	1,451.6	306.7	229.4	383.0	2.34	-1.89	-3.89
1,616.0	19.90	29.60	1,540.0	335.1	244.1	414.6	1.63	0.00	4.79
1,711.0	18.80	29.50	1,629.6	362.5	259.6	445.8	1.16	-1.16	-0.11
1,805.0	18.20	29.30	1,718.8	388.5	274.2	475.5	0.64	-0.64	-0.21
1,899.0	18.10	29.30	1,808.1	414.0	288.6	504.5	0.11	-0.11	0.00
1,994.0	19.20	29.10	1,898.1	440.5	303.4	534.7	1.16	1.16	-0.21
2,089.0	20.20	32.30	1,987.6	468.1	319.8	566.5	1.55	1.05	3.37
2,183.0	20.60	36.00	2,075.7	495.2	338.1	599.2	1.44	0.43	3.94
2,277.0	23.30	37.00	2,162.8	523.4	359.1	634.4	2.90	2.87	1.06
2,372.0	25.40	38.70	2,249.4	554.3	383.1	673.5	2.33	2.21	1.79
2,442.0	25.40	39.30	2,312.6	577.6	402.0	703.5	0.37	0.00	0.86
2,590.0	25.60	39.20	2,446.2	627.0	442.3	767.2	0.14	0.14	-0.07
2,684.0	26.20	40.40	2,530.8	658.5	468.6	808.1	0.85	0.64	1.28
2,778.0	29.80	37.40	2,613.7	692.9	496.2	852.2	4.11	3.83	-3.19
2,873.0	30.50	36.10	2,695.9	731.1	524.8	899.9	1.01	0.74	-1.37
2,967.0	28.80	35.10	2,777.6	768.9	551.9	946.4	1.88	-1.81	-1.06
3,062.0	28.40	38.00	2,861.0	805.4	578.9	991.9	1.52	-0.42	3.05
3,156.0	31.70	41.10	2,942.4	841.7	608.9	1,038.8	3.88	3.51	3.30
3,251.0	32.70	42.80	3,022.7	879.3	642.8	1,089.2	1.42	1.05	1.79
3,345.0	32.00	42.90	3,102.2	916.2	677.0	1,139.2	0.75	-0.74	0.11
3,439.0	31.90	43.40	3,181.9	952.5	711.0	1,188.6	0.30	-0.11	0.53
3,534.0	30.80	44.20	3,263.0	988.2	745.2	1,237.6	1.24	-1.16	0.84
3,628.0	30.30	44.50	3,344.0	1,022.3	778.6	1,284.9	0.56	-0.53	0.32
3,722.0	29.60	45.10	3,425.4	1,055.6	811.7	1,331.3	0.81	-0.74	0.64
3,816.0	28.50	45.20	3,507.6	1,087.8	844.0	1,376.4	1.17	-1.17	0.11
3,911.0	28.90	39.90	3,591.0	1,121.4	874.9	1,421.7	2.71	0.42	-5.58
4,005.0	31.20	37.20	3,672.3	1,158.2	904.1	1,468.7	2.84	2.45	-2.87
4,100.0	29.70	38.30	3,754.2	1,196.3	933.6	1,516.8	1.68	-1.58	1.16
4,194.0	28.20	37.70	3,836.5	1,232.2	961.6	1,562.3	1.63	-1.60	-0.64
4,289.0	26.90	37.70	3,920.7	1,266.9	988.5	1,606.2	1.37	-1.37	0.00
4,383.0	28.70	36.60	4,003.8	1,301.9	1,015.0	1,650.1	1.99	1.91	-1.17
4,478.0	30.10	36.40	4,086.6	1,339.4	1,042.7	1,696.7	1.48	1.47	-0.21
4,572.0	28.60	37.00	4,168.5	1,376.3	1,070.2	1,742.8	1.63	-1.60	0.64
4,667.0	27.40	37.60	4,252.4	1,411.8	1,097.3	1,787.4	1.30	-1.26	0.63
4,761.0	26.50	36.60	4,336.2	1,445.8	1,123.0	1,830.0	1.07	-0.96	-1.06
4,855.0	25.50	36.90	4,420.7	1,478.8	1,147.6	1,871.2	1.07	-1.06	0.32

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Well:	NPR 25C-4 596	North Reference:	True
Wellbore:	NPR 25C-4 596 Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	NPR 25C-4 596 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)
4,950.0	24.70	36.90	4,506.7	1,511.0	1,171.8	1,911.5	0.84	-0.84	0.00
5,044.0	23.00	36.20	4,592.7	1,541.5	1,194.4	1,949.5	1.83	-1.81	-0.74
5,139.0	21.40	36.10	4,680.6	1,570.5	1,215.6	1,985.4	1.68	-1.68	-0.11
5,233.0	20.40	35.40	4,768.5	1,597.7	1,235.2	2,018.9	1.10	-1.06	-0.74
5,328.0	18.80	36.20	4,858.0	1,623.6	1,253.8	2,050.8	1.71	-1.68	0.84
5,422.0	16.70	34.40	4,947.5	1,646.9	1,270.4	2,079.4	2.31	-2.23	-1.91
5,516.0	15.60	32.40	5,037.8	1,668.8	1,284.8	2,105.5	1.31	-1.17	-2.13
5,611.0	16.20	31.70	5,129.1	1,690.8	1,298.6	2,131.5	0.66	0.63	-0.74
5,736.0	13.30	42.00	5,250.0	1,716.3	1,317.4	2,163.2	3.12	-2.32	8.24
5,800.0	14.00	42.90	5,312.2	1,727.5	1,327.6	2,178.2	1.14	1.09	1.41
5,894.0	15.90	39.20	5,403.0	1,745.8	1,343.5	2,202.4	2.26	2.02	-3.94
5,989.0	15.20	37.40	5,494.6	1,765.8	1,359.3	2,227.8	0.89	-0.74	-1.89
6,083.0	14.80	38.50	5,585.3	1,785.0	1,374.3	2,252.1	0.52	-0.43	1.17
6,177.0	14.50	36.10	5,676.3	1,803.9	1,388.7	2,275.9	0.72	-0.32	-2.55
6,272.0	15.60	42.20	5,768.0	1,822.9	1,404.2	2,300.5	2.03	1.16	6.42
6,366.0	15.50	43.90	5,858.6	1,841.4	1,421.4	2,325.5	0.50	-0.11	1.81
6,461.0	14.80	43.40	5,950.3	1,859.3	1,438.6	2,350.1	0.75	-0.74	-0.53
6,555.0	14.30	43.30	6,041.3	1,876.5	1,454.8	2,373.6	0.53	-0.53	-0.11
6,650.0	14.00	43.20	6,133.4	1,893.4	1,470.7	2,396.6	0.32	-0.32	-0.11
6,744.0	13.70	42.70	6,224.7	1,909.9	1,486.0	2,419.0	0.34	-0.32	-0.53
6,838.0	13.10	43.40	6,316.1	1,925.8	1,500.9	2,440.6	0.66	-0.64	0.74
6,933.0	12.30	36.50	6,408.8	1,941.8	1,514.3	2,461.4	1.80	-0.84	-7.26
7,027.0	10.50	42.80	6,500.9	1,956.1	1,526.1	2,479.9	2.33	-1.91	6.70
7,121.0	8.70	46.90	6,593.6	1,967.2	1,537.1	2,495.4	2.05	-1.91	4.36
7,310.0	4.70	49.30	6,781.3	1,982.1	1,553.4	2,517.0	2.12	-2.12	1.27
7,404.0	5.00	47.20	6,874.9	1,987.3	1,559.4	2,524.8	0.37	0.32	-2.23
7,499.0	4.40	45.20	6,969.6	1,992.7	1,565.0	2,532.5	0.65	-0.63	-2.11
7,593.0	4.00	37.50	7,063.4	1,997.9	1,569.5	2,539.3	0.73	-0.43	-8.19
7,688.0	3.60	32.20	7,158.2	2,003.0	1,573.1	2,545.6	0.56	-0.42	-5.58
7,783.0	2.80	16.10	7,253.0	2,007.8	1,575.4	2,550.8	1.26	-0.84	-16.95
7,877.0	2.00	15.80	7,346.9	2,011.6	1,576.5	2,554.4	0.85	-0.85	-0.32
7,972.0	2.00	5.80	7,441.9	2,014.8	1,577.1	2,557.4	0.37	0.00	-10.53
8,066.0	1.90	354.90	7,535.8	2,018.0	1,577.1	2,560.0	0.41	-0.11	-11.60
8,156.0	1.50	335.80	7,625.8	2,020.5	1,576.5	2,561.7	0.76	-0.44	-21.22
8,346.0	1.80	295.20	7,815.7	2,024.1	1,572.8	2,562.4	0.62	0.16	-21.37
8,535.0	2.80	289.20	8,004.6	2,026.9	1,565.7	2,560.4	0.54	0.53	-3.17
8,629.0	2.90	287.30	8,098.4	2,028.3	1,561.3	2,559.0	0.15	0.11	-2.02
8,912.0	3.50	275.70	8,381.0	2,031.3	1,545.9	2,552.3	0.31	0.21	-4.10
9,195.0	3.70	279.20	8,663.4	2,033.6	1,528.2	2,543.7	0.10	0.07	1.24
9,479.0	4.60	269.20	8,946.7	2,034.9	1,507.8	2,532.7	0.41	0.32	-3.52
9,667.0	4.70	265.60	9,134.1	2,034.2	1,492.6	2,523.1	0.16	0.05	-1.91
9,762.0	4.40	261.80	9,228.8	2,033.4	1,485.1	2,518.0	0.45	-0.32	-4.00
10,140.0	8.60	254.40	9,604.3	2,023.8	1,443.5	2,485.6	1.13	1.11	-1.96

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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)
10,328.0	9.30	257.80	9,790.0	2,016.8	1,415.1	2,463.1	0.47	0.37	1.81
10,423.0	9.80	257.40	9,883.7	2,013.4	1,399.7	2,451.3	0.53	0.53	-0.42
10,735.0	7.80	248.40	10,192.0	1,999.8	1,354.1	2,413.4	0.78	-0.64	-2.88
10,810.0	7.80	248.40	10,266.3	1,996.0	1,344.7	2,404.7	0.00	0.00	0.00
BHL 323'FSL, 1318'FEL, SEC.4									

Checked By: _____	Approved By: _____	Date: _____
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