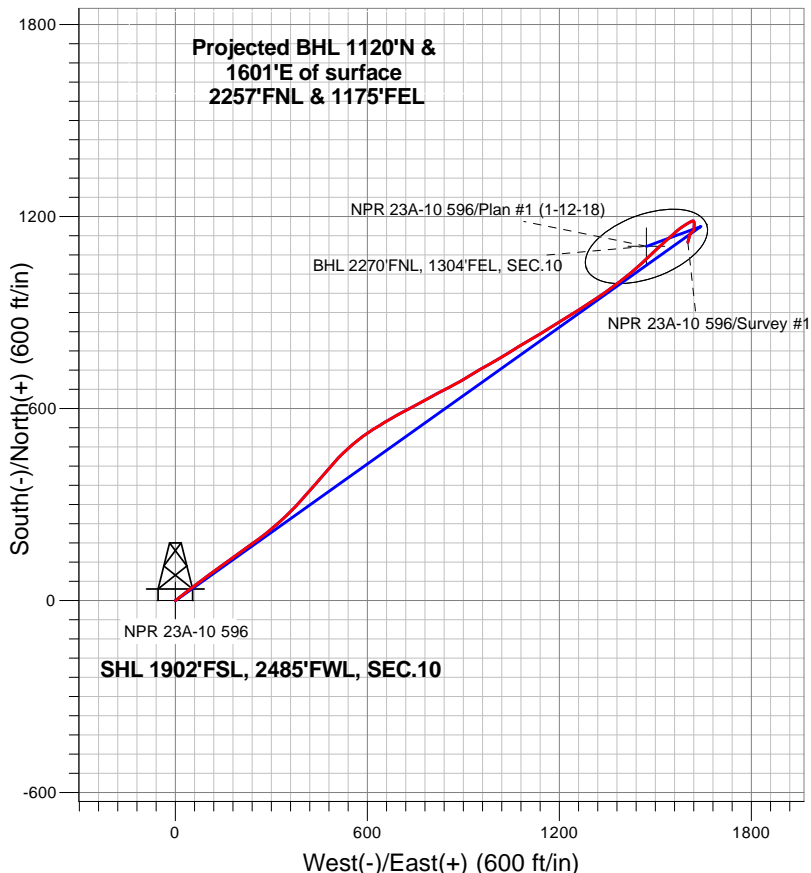


## Caerus Oil and Gas LLC



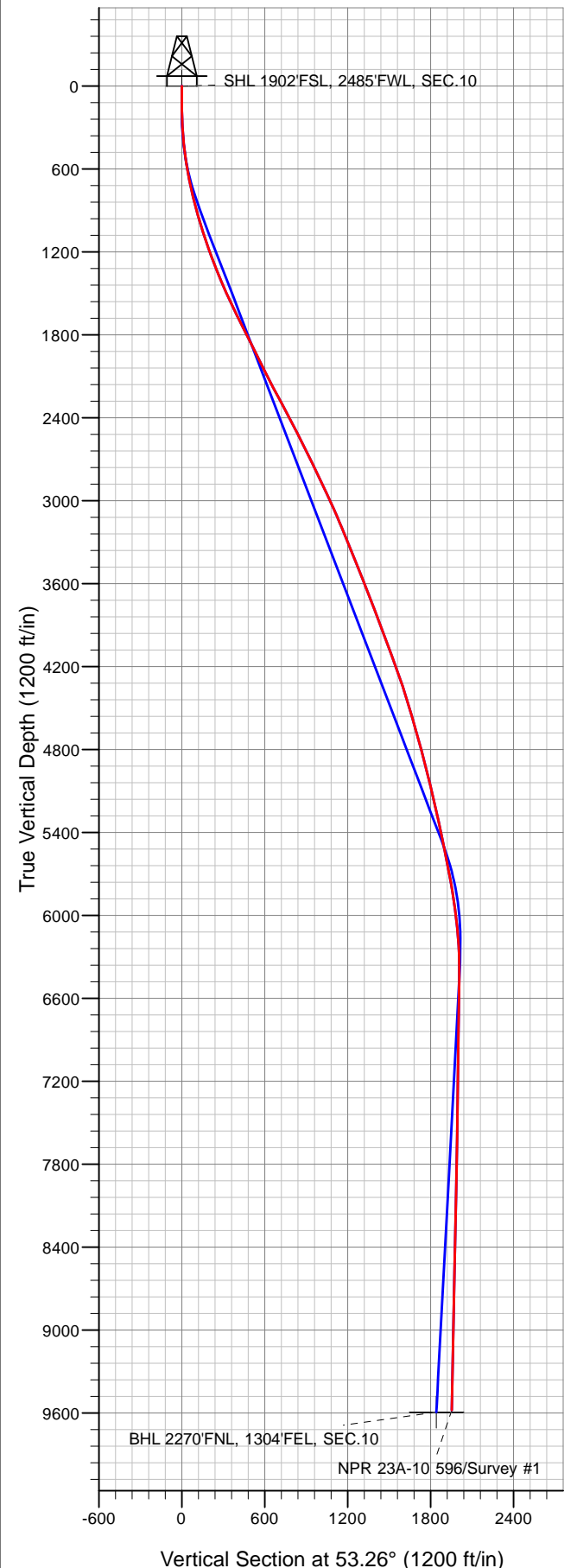
### LEGEND

- ✕ NPR 23A-10 596, NPR 23A-10 596 Wellbore #1, Plan #1 (1-12-18) V0
- Wellbore #1
- Survey #1

## Final Survey Plot

Projected Final Survey -  
 9,955'MD & 9,578' TVD @ 1952.81'VS  
 1.4 deg Inc 195.5 deg AZ

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





## **Caerus Oil and Gas LLC**

**SEC.10-T5S-R96W**

**K10 596 Pad Sec.10-T5S-R96W**

**NPR 23A-10 596**

**NPR 23A-10 596 Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**31 January, 2018**

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 23A-10 596
<b>Project:</b>	SEC.10-T5S-R96W	<b>TVD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 23A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 23A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	US_EDM

<b>Project</b>	SEC.10-T5S-R96W, Garfield County, CO		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		Using Well Reference Point
<b>Map Zone:</b>	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 23A-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,124.87 usft	Latitude:	39.627575
	+E/-W	0.0 ft	Easting:	2,441,464.54 usft	Longitude:	-108.155325
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore		NPR 23A-10 596 Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/12/2018	9.63	65.85	51,509

Design	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	53.26	

Survey Program		Date	1/31/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	9,955.0	Survey #1 (NPR 23A-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
	130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00
	325.0	3.80	50.60	324.9	4.1	5.0	6.5	1.95	1.95	0.00
	417.0	5.70	53.70	416.5	8.7	11.0	14.1	2.08	2.07	3.37
	509.0	7.70	54.50	507.9	15.0	19.7	24.8	2.18	2.17	0.87
	604.0	10.20	51.10	601.7	24.0	31.5	39.6	2.69	2.63	-3.58
	699.0	11.70	50.40	695.0	35.4	45.4	57.6	1.59	1.58	-0.74
	793.0	13.30	52.30	786.8	48.1	61.3	77.9	1.76	1.70	2.02
	888.0	14.80	54.60	878.9	61.8	79.9	101.0	1.68	1.58	2.42
	983.0	16.30	52.00	970.5	77.1	100.3	126.5	1.74	1.58	-2.74

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 23A-10 596
<b>Project:</b>	SEC.10-T5S-R96W	<b>TVD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 23A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 23A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	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)	
1,077.0	18.10	55.20	1,060.2	93.5	122.7	154.2	2.16	1.91	3.40	
1,172.0	19.50	54.20	1,150.2	111.2	147.6	184.8	1.51	1.47	-1.05	
1,266.0	20.60	53.80	1,238.5	130.2	173.7	217.1	1.18	1.17	-0.43	
1,360.0	21.30	54.10	1,326.3	149.9	200.9	250.7	0.75	0.74	0.32	
1,455.0	23.00	55.20	1,414.3	170.7	230.1	286.5	1.84	1.79	1.16	
1,550.0	24.40	53.50	1,501.2	192.9	261.1	324.6	1.64	1.47	-1.79	
1,644.0	25.20	50.20	1,586.6	217.3	292.1	364.0	1.70	0.85	-3.51	
1,739.0	26.40	48.60	1,672.1	244.2	323.5	405.3	1.46	1.26	-1.68	
1,833.0	26.90	44.90	1,756.1	273.1	354.2	447.2	1.84	0.53	-3.94	
1,928.0	26.90	43.90	1,840.8	303.8	384.2	489.6	0.48	0.00	-1.05	
2,023.0	27.00	40.90	1,925.5	335.6	413.3	531.9	1.43	0.11	-3.16	
2,117.0	26.70	40.40	2,009.4	367.8	440.9	573.3	0.40	-0.32	-0.53	
2,170.0	27.30	40.60	2,056.6	386.1	456.5	596.8	1.14	1.13	0.38	
2,308.0	28.50	41.80	2,178.6	434.7	499.1	660.0	0.96	0.87	0.87	
2,403.0	28.50	46.30	2,262.1	467.2	530.6	704.7	2.26	0.00	4.74	
2,497.0	27.90	50.90	2,344.9	496.6	563.9	748.9	2.40	-0.64	4.89	
2,592.0	27.60	56.60	2,429.0	522.7	599.5	793.1	2.81	-0.32	6.00	
2,687.0	27.30	57.60	2,513.3	546.5	636.3	836.8	0.58	-0.32	1.05	
2,781.0	26.70	60.20	2,597.1	568.6	672.8	879.2	1.41	-0.64	2.77	
2,875.0	26.50	62.50	2,681.1	588.7	709.7	920.9	1.12	-0.21	2.45	
2,970.0	25.80	61.60	2,766.4	608.4	746.7	962.3	0.85	-0.74	-0.95	
3,064.0	25.60	61.50	2,851.1	627.8	782.5	1,002.6	0.22	-0.21	-0.11	
3,159.0	25.20	62.10	2,936.9	647.0	818.5	1,042.9	0.50	-0.42	0.63	
3,254.0	25.10	62.50	3,022.9	665.8	854.2	1,082.8	0.21	-0.11	0.42	
3,348.0	23.70	60.20	3,108.5	684.4	888.3	1,121.2	1.80	-1.49	-2.45	
3,443.0	22.60	58.60	3,195.9	703.4	920.4	1,158.4	1.33	-1.16	-1.68	
3,537.0	22.20	59.50	3,282.8	721.8	951.2	1,194.0	0.56	-0.43	0.96	
3,632.0	22.00	60.20	3,370.8	739.8	982.1	1,229.5	0.35	-0.21	0.74	
3,727.0	22.20	59.50	3,458.8	757.7	1,013.0	1,265.0	0.35	0.21	-0.74	
3,821.0	21.90	59.10	3,545.9	775.7	1,043.3	1,300.1	0.36	-0.32	-0.43	
3,916.0	21.60	58.90	3,634.2	793.9	1,073.5	1,335.1	0.33	-0.32	-0.21	
4,010.0	21.00	59.20	3,721.8	811.4	1,102.8	1,369.1	0.65	-0.64	0.32	
4,105.0	20.80	58.80	3,810.5	828.9	1,131.8	1,402.8	0.26	-0.21	-0.42	
4,199.0	20.70	57.90	3,898.4	846.4	1,160.2	1,436.0	0.36	-0.11	-0.96	
4,294.0	20.40	58.80	3,987.4	863.9	1,188.5	1,469.2	0.46	-0.32	0.95	
4,388.0	20.80	57.70	4,075.4	881.3	1,216.7	1,502.1	0.59	0.43	-1.17	
4,483.0	19.80	58.60	4,164.5	898.7	1,244.7	1,535.0	1.10	-1.05	0.95	
4,577.0	19.50	57.40	4,253.0	915.4	1,271.5	1,566.5	0.53	-0.32	-1.28	
4,672.0	18.80	56.30	4,342.7	932.4	1,297.6	1,597.6	0.83	-0.74	-1.16	
4,767.0	17.30	55.50	4,433.0	948.9	1,321.9	1,627.0	1.60	-1.58	-0.84	
4,861.0	16.60	55.00	4,523.0	964.6	1,344.5	1,654.4	0.76	-0.74	-0.53	
4,956.0	15.90	53.70	4,614.2	980.0	1,366.1	1,681.0	0.83	-0.74	-1.37	
5,050.0	15.00	53.00	4,704.8	995.0	1,386.2	1,706.0	0.98	-0.96	-0.74	
5,145.0	15.10	51.50	4,796.5	1,010.1	1,405.7	1,730.7	0.42	0.11	-1.58	

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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)	
5,239.0	14.30	50.70	4,887.4	1,025.1	1,424.2	1,754.5	0.88	-0.85	-0.85	
5,334.0	14.20	48.00	4,979.5	1,040.3	1,442.0	1,777.8	0.71	-0.11	-2.84	
5,428.0	13.60	47.50	5,070.8	1,055.5	1,458.7	1,800.3	0.65	-0.64	-0.53	
5,523.0	13.40	47.30	5,163.1	1,070.5	1,475.0	1,822.4	0.22	-0.21	-0.21	
5,617.0	12.50	47.20	5,254.7	1,084.8	1,490.5	1,843.3	0.96	-0.96	-0.11	
5,712.0	12.40	46.70	5,347.5	1,098.8	1,505.4	1,863.7	0.15	-0.11	-0.53	
5,806.0	12.20	45.60	5,439.4	1,112.6	1,519.9	1,883.5	0.33	-0.21	-1.17	
5,901.0	11.30	48.70	5,532.4	1,125.8	1,534.0	1,902.8	1.16	-0.95	3.26	
5,995.0	11.10	48.70	5,624.6	1,137.9	1,547.8	1,921.0	0.21	-0.21	0.00	
6,090.0	10.80	47.00	5,717.8	1,150.0	1,561.1	1,938.9	0.46	-0.32	-1.79	
6,185.0	9.30	52.20	5,811.4	1,160.7	1,573.7	1,955.4	1.84	-1.58	5.47	
6,280.0	7.80	56.80	5,905.3	1,169.0	1,585.2	1,969.6	1.73	-1.58	4.84	
6,374.0	7.10	60.40	5,998.5	1,175.3	1,595.6	1,981.7	0.89	-0.74	3.83	
6,469.0	6.20	58.20	6,092.9	1,180.9	1,605.0	1,992.6	0.98	-0.95	-2.32	
6,563.0	4.00	65.20	6,186.5	1,185.0	1,612.3	2,000.9	2.43	-2.34	7.45	
6,658.0	1.90	78.80	6,281.4	1,186.7	1,616.9	2,005.6	2.31	-2.21	14.32	
6,752.0	1.00	126.00	6,375.4	1,186.5	1,619.1	2,007.2	1.51	-0.96	50.21	
6,847.0	1.70	167.10	6,470.3	1,184.6	1,620.1	2,006.9	1.21	0.74	43.26	
6,942.0	1.50	169.50	6,565.3	1,182.0	1,620.6	2,005.8	0.22	-0.21	2.53	
7,036.0	1.40	172.10	6,659.3	1,179.7	1,621.0	2,004.7	0.13	-0.11	2.77	
7,131.0	1.30	186.20	6,754.2	1,177.5	1,621.0	2,003.4	0.36	-0.11	14.84	
7,226.0	1.40	188.50	6,849.2	1,175.3	1,620.7	2,001.8	0.12	0.11	2.42	
7,320.0	1.30	184.50	6,943.2	1,173.1	1,620.5	2,000.3	0.15	-0.11	-4.26	
7,414.0	1.20	182.80	7,037.2	1,171.0	1,620.3	1,999.0	0.11	-0.11	-1.81	
7,509.0	1.10	176.80	7,132.1	1,169.1	1,620.3	1,997.8	0.16	-0.11	-6.32	
7,698.0	1.10	182.40	7,321.1	1,165.5	1,620.4	1,995.7	0.06	0.00	2.96	
7,982.0	1.10	184.30	7,605.1	1,160.0	1,620.1	1,992.2	0.01	0.00	0.67	
8,076.0	1.40	190.80	7,699.0	1,158.0	1,619.8	1,990.7	0.35	0.32	6.91	
8,360.0	1.20	244.00	7,983.0	1,153.3	1,616.4	1,985.2	0.41	-0.07	18.73	
8,454.0	1.30	235.40	8,076.9	1,152.3	1,614.7	1,983.2	0.23	0.11	-9.15	
8,738.0	1.30	222.00	8,360.9	1,148.0	1,609.9	1,976.8	0.11	0.00	-4.72	
8,927.0	1.40	195.50	8,549.8	1,144.2	1,607.8	1,972.9	0.33	0.05	-14.02	
9,955.0	1.40	195.50	9,577.5	1,120.0	1,601.1	1,953.0	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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