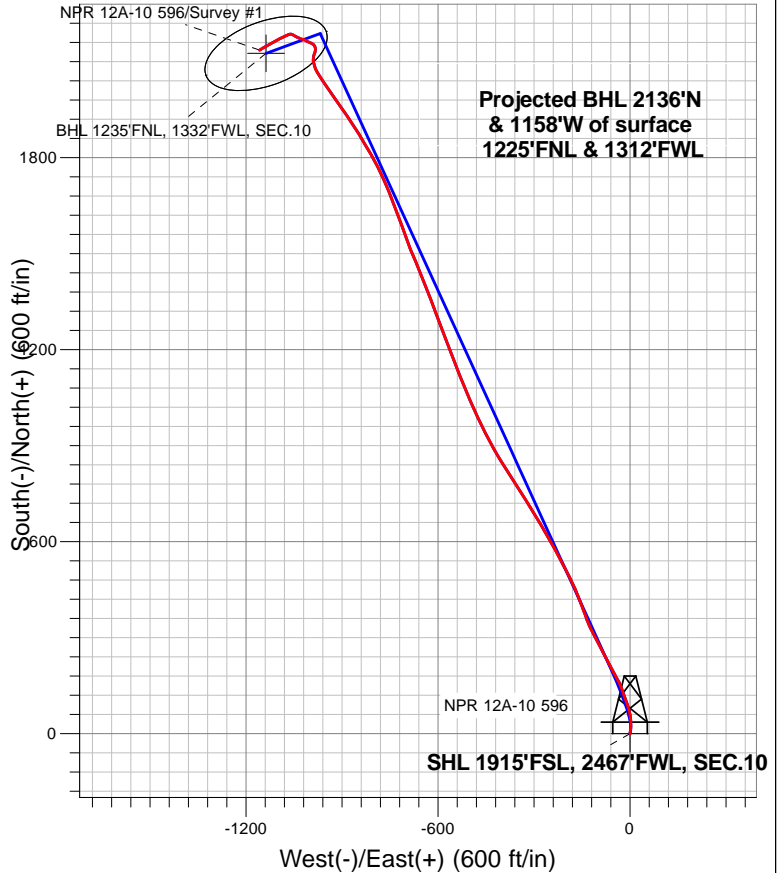


## Caerus Oil and Gas LLC



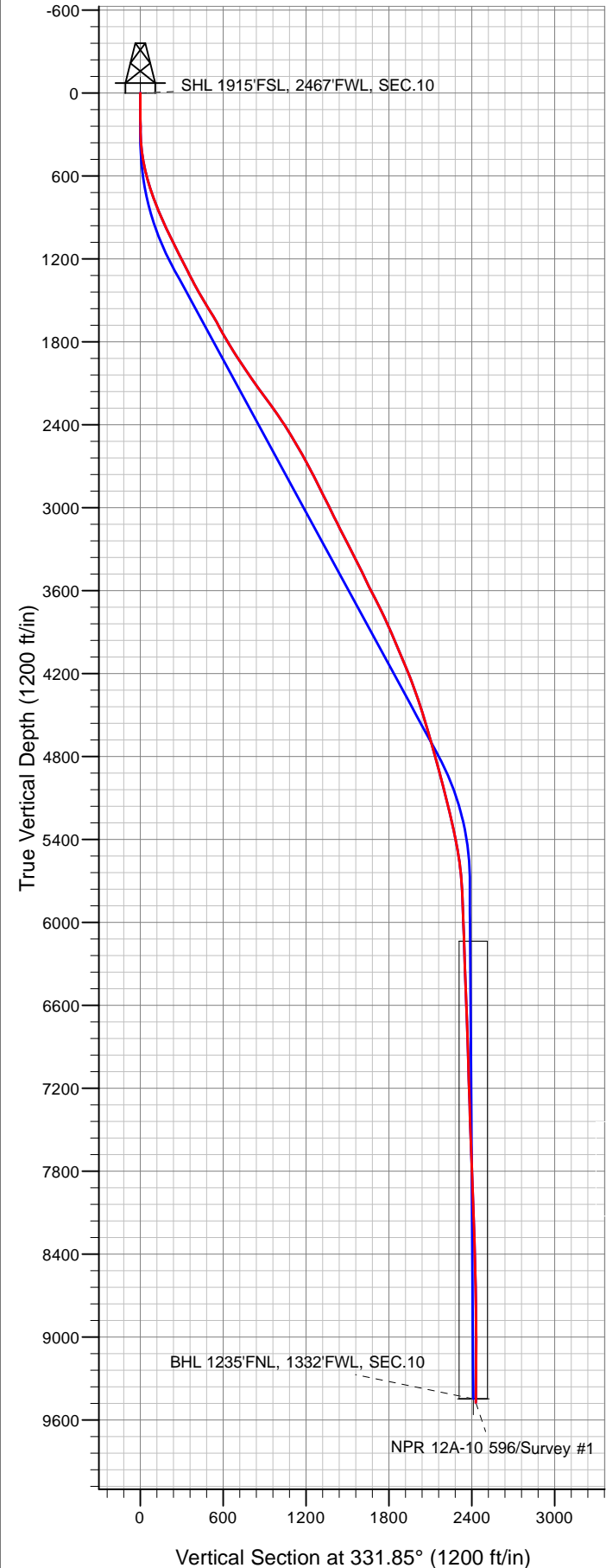
### LEGEND

- NPR 12A-10 596, NPR 12A-10 596 Wellbore #1, Plan #2 (8-09-18) V0
- NPR 12A-10 596 Wellbore #1
- Survey #1

## Final Survey Plot

**Projected Final Survey -**  
**10025'MD & 9473' TVD @ 2429.44'VS**  
**10.6 deg Inc 239.5 deg AZ**

Project: SEC.10-T5S-R96W  
 Site: K10 596 Pad Sec.10-T5S-R96W  
 Well: NPR 12A-10 596  
 Plan: NPR 12A-10 596 Wellbore #1





## **Caerus Oil and Gas LLC**

**SEC.10-T5S-R96W**

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

**NPR 12A-10 596**

**NPR 12A-10 596 Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**16 August, 2018**

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-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 12A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 12A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 12A-10 596 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

<b>Site</b>	K10 596 Pad Sec.10-T5S-R96W				
<b>Site Position:</b>		<b>Northing:</b>	14,403,140.13 usft	<b>Latitude:</b>	39.627619
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,441,439.81 usft	<b>Longitude:</b>	-108.155411
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	1.82 °

Well	NPR 12A-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,136.32 usft	Latitude:	39.627608
	+E/-W	0.0 ft	Easting:	2,441,446.13 usft	Longitude:	-108.155389
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore						NPR 12A-10 596 Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	Magnetic Intensity	Magnetic Intensity	Magnetic Intensity	Magnetic Intensity	Magnetic Intensity	Magnetic Intensity
			(°)	(°)	(nT)						
	HDGM	8/9/2018	9.57	65.82	51,444						

Design	NPR 12A-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	331.85	

Survey Program		Date	8/16/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
130.0	10,025.0	Survey #1 (NPR 12A-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)
SHL 1915'FSL, 2467'FWL, SEC.10	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
	130.0	0.00	0.00	130.0	0.0	0.0	0.0	0.00	0.00	0.00
	304.0	2.60	8.10	303.9	3.9	0.6	3.2	1.49	1.49	0.00
	396.0	6.70	3.90	395.6	11.3	1.2	9.4	4.47	4.46	-4.57
	488.0	10.80	3.20	486.5	25.3	2.1	21.3	4.46	4.46	-0.76
	581.0	14.40	355.60	577.3	45.5	1.7	39.4	4.25	3.87	-8.17
	675.0	17.80	345.80	667.6	71.1	-2.8	64.0	4.62	3.62	-10.43
	769.0	20.40	339.40	756.4	100.4	-12.1	94.2	3.55	2.77	-6.81
	863.0	22.80	341.30	843.8	133.0	-23.7	128.4	2.66	2.55	2.02
	957.0	25.20	343.20	938.7	165.7	-25.2	163.2	2.55	2.44	2.02
	1051.0	27.60	345.10	1033.6	198.6	-26.7	208.1	2.44	2.33	2.02
	1145.0	30.00	347.00	1128.5	231.5	-28.2	253.0	2.33	2.22	2.02

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-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 12A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 12A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 12A-10 596 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)
957.0	24.30	332.80	930.0	167.5	-38.3	165.7	3.95	1.60	-9.04
1,052.0	26.60	330.10	1,015.8	203.3	-57.9	206.6	2.71	2.42	-2.84
1,147.0	27.00	333.70	1,100.6	241.1	-78.0	249.4	1.76	0.42	3.79
1,241.0	26.10	331.90	1,184.7	278.4	-97.2	291.4	1.28	-0.96	-1.91
1,336.0	26.40	332.40	1,269.9	315.6	-116.9	333.4	0.39	0.32	0.53
1,430.0	27.80	339.10	1,353.6	354.6	-134.4	376.0	3.57	1.49	7.13
1,524.0	29.80	340.20	1,435.9	397.1	-150.1	420.9	2.20	2.13	1.17
1,619.0	31.10	337.60	1,517.8	442.0	-167.5	468.7	1.95	1.37	-2.74
1,713.0	31.80	332.00	1,598.1	486.3	-188.3	517.6	3.20	0.74	-5.96
1,808.0	28.30	333.60	1,680.3	528.6	-210.1	565.2	3.78	-3.68	1.68
1,902.0	29.80	332.30	1,762.4	569.2	-230.9	610.8	1.73	1.60	-1.38
1,996.0	31.10	329.30	1,843.5	610.8	-254.1	658.4	2.13	1.38	-3.19
2,091.0	33.80	328.60	1,923.6	654.4	-280.4	709.3	2.87	2.84	-0.74
2,186.0	34.00	328.30	2,002.5	699.6	-308.2	762.2	0.27	0.21	-0.32
2,329.0	35.80	328.00	2,119.8	769.1	-351.3	843.8	1.26	1.26	-0.21
2,489.0	36.60	327.60	2,248.9	849.0	-401.7	938.1	0.52	0.50	-0.25
2,583.0	34.90	331.00	2,325.2	896.2	-429.7	992.9	2.78	-1.81	3.62
2,678.0	32.50	334.40	2,404.2	943.0	-454.0	1,045.6	3.21	-2.53	3.58
2,772.0	31.30	335.10	2,484.0	987.9	-475.1	1,095.2	1.34	-1.28	0.74
2,866.0	30.10	334.60	2,564.8	1,031.4	-495.5	1,143.2	1.31	-1.28	-0.53
2,961.0	28.90	337.80	2,647.5	1,074.2	-514.4	1,189.8	2.08	-1.26	3.37
3,055.0	27.90	338.50	2,730.2	1,115.6	-531.1	1,234.2	1.12	-1.06	0.74
3,149.0	26.80	339.40	2,813.7	1,155.9	-546.6	1,277.1	1.25	-1.17	0.96
3,244.0	27.30	339.20	2,898.3	1,196.4	-561.9	1,319.9	0.53	0.53	-0.21
3,338.0	26.40	338.80	2,982.2	1,236.0	-577.1	1,362.0	0.98	-0.96	-0.43
3,433.0	26.10	339.10	3,067.4	1,275.2	-592.2	1,403.7	0.35	-0.32	0.32
3,527.0	27.50	339.00	3,151.3	1,314.8	-607.3	1,445.8	1.49	1.49	-0.11
3,621.0	27.00	339.50	3,234.9	1,355.0	-622.6	1,488.5	0.59	-0.53	0.53
3,716.0	27.20	338.60	3,319.4	1,395.5	-638.0	1,531.4	0.48	0.21	-0.95
3,810.0	27.20	338.00	3,403.0	1,435.4	-653.9	1,574.1	0.29	0.00	-0.64
3,905.0	25.70	337.10	3,488.1	1,474.5	-670.1	1,616.2	1.63	-1.58	-0.95
3,999.0	26.30	338.20	3,572.6	1,512.6	-685.7	1,657.2	0.82	0.64	1.17
4,093.0	27.30	340.00	3,656.5	1,552.2	-700.9	1,699.2	1.37	1.06	1.91
4,188.0	26.50	340.50	3,741.2	1,592.6	-715.4	1,741.7	0.88	-0.84	0.53
4,282.0	25.10	339.40	3,825.8	1,631.1	-729.4	1,782.2	1.57	-1.49	-1.17
4,377.0	23.50	338.40	3,912.4	1,667.5	-743.5	1,821.0	1.74	-1.68	-1.05
4,472.0	22.90	338.40	3,999.7	1,702.3	-757.2	1,858.2	0.63	-0.63	0.00
4,566.0	22.90	334.90	4,086.3	1,735.9	-771.7	1,894.7	1.45	0.00	-3.72
4,661.0	22.50	332.80	4,174.0	1,768.8	-787.9	1,931.3	0.95	-0.42	-2.21
4,756.0	20.50	330.80	4,262.3	1,799.5	-804.3	1,966.1	2.24	-2.11	-2.11
4,850.0	19.80	330.00	4,350.6	1,827.7	-820.3	1,998.5	0.80	-0.74	-0.85
4,944.0	17.90	327.80	4,439.5	1,853.7	-836.0	2,028.8	2.16	-2.02	-2.34
5,039.0	16.90	330.00	4,530.2	1,878.0	-850.6	2,057.2	1.26	-1.05	2.32

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-10 596
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<b>Site:</b>	K10 596 Pad Sec.10-T5S-R96W	<b>MD Reference:</b>	WELL @ 6733.0ft (Original Well Elev)
<b>Well:</b>	NPR 12A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 12A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 12A-10 596 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)
5,134.0	16.30	326.20	4,621.2	1,901.0	-865.0	2,084.2	1.31	-0.63	-4.00
5,228.0	15.90	326.00	4,711.6	1,922.7	-879.5	2,110.2	0.43	-0.43	-0.21
5,322.0	15.90	325.90	4,802.0	1,944.0	-893.9	2,135.8	0.03	0.00	-0.11
5,511.0	14.50	324.50	4,984.3	1,984.7	-922.2	2,185.0	0.77	-0.74	-0.74
5,606.0	14.20	325.10	5,076.4	2,003.9	-935.7	2,208.4	0.35	-0.32	0.63
5,700.0	13.60	324.30	5,167.6	2,022.4	-948.8	2,230.8	0.67	-0.64	-0.85
5,795.0	13.10	325.60	5,260.1	2,040.3	-961.4	2,252.5	0.61	-0.53	1.37
5,889.0	11.90	328.50	5,351.8	2,057.4	-972.5	2,272.8	1.44	-1.28	3.09
5,984.0	10.80	336.30	5,445.0	2,073.9	-981.2	2,291.5	1.99	-1.16	8.21
6,079.0	8.60	343.20	5,538.6	2,088.8	-986.8	2,307.3	2.62	-2.32	7.26
6,173.0	6.40	349.20	5,631.8	2,100.7	-989.8	2,319.2	2.48	-2.34	6.38
6,268.0	4.50	9.70	5,726.4	2,109.6	-990.2	2,327.2	2.83	-2.00	21.58
6,362.0	2.60	13.60	5,820.2	2,115.3	-989.1	2,331.7	2.04	-2.02	4.15
6,551.0	3.30	15.70	6,008.9	2,124.7	-986.6	2,338.8	0.37	0.37	1.11
6,645.0	3.10	17.70	6,102.8	2,129.7	-985.1	2,342.5	0.24	-0.21	2.13
6,740.0	2.50	13.80	6,197.7	2,134.2	-983.8	2,345.9	0.66	-0.63	-4.11
6,834.0	2.20	3.60	6,291.6	2,138.0	-983.2	2,348.9	0.55	-0.32	-10.85
6,929.0	2.50	353.10	6,386.5	2,141.9	-983.3	2,352.4	0.55	0.32	-11.05
7,023.0	2.20	336.00	6,480.4	2,145.5	-984.3	2,356.1	0.81	-0.32	-18.19
7,118.0	2.10	335.20	6,575.4	2,148.8	-985.8	2,359.7	0.11	-0.11	-0.84
7,307.0	2.10	305.30	6,764.3	2,153.9	-990.1	2,366.2	0.57	0.00	-15.82
7,496.0	2.20	300.30	6,953.1	2,157.8	-996.0	2,372.4	0.11	0.05	-2.65
7,685.0	2.30	289.90	7,142.0	2,160.9	-1,002.7	2,378.3	0.22	0.05	-5.50
7,874.0	2.50	295.60	7,330.8	2,164.0	-1,010.0	2,384.5	0.16	0.11	3.02
7,969.0	2.60	299.00	7,425.7	2,165.9	-1,013.8	2,388.0	0.19	0.11	3.58
8,064.0	2.70	289.10	7,520.6	2,167.7	-1,017.8	2,391.4	0.49	0.11	-10.42
8,158.0	2.80	288.90	7,614.5	2,169.1	-1,022.0	2,394.7	0.11	0.11	-0.21
Last Survey - 8158' MD									
8,248.0	2.90	287.60	7,704.4	2,170.5	-1,026.3	2,398.0	0.13	0.11	-1.44
8,343.0	2.90	291.70	7,799.3	2,172.2	-1,030.8	2,401.5	0.22	0.00	4.32
8,437.0	2.50	290.60	7,893.2	2,173.8	-1,034.9	2,404.9	0.43	-0.43	-1.17
8,532.0	2.30	294.20	7,988.1	2,175.3	-1,038.6	2,407.9	0.26	-0.21	3.79
8,626.0	2.20	300.10	8,082.0	2,176.9	-1,041.9	2,411.0	0.27	-0.11	6.28
8,721.0	2.30	302.30	8,176.9	2,178.9	-1,045.1	2,414.2	0.14	0.11	2.32
8,815.0	2.40	297.00	8,270.9	2,180.8	-1,048.4	2,417.4	0.25	0.11	-5.64
8,910.0	2.50	296.40	8,365.8	2,182.6	-1,052.0	2,420.8	0.11	0.11	-0.63
9,004.0	2.10	297.90	8,459.7	2,184.3	-1,055.4	2,423.9	0.43	-0.43	1.60
9,099.0	1.70	296.70	8,554.7	2,185.8	-1,058.2	2,426.5	0.42	-0.42	-1.26
9,193.0	2.50	263.70	8,648.6	2,186.2	-1,061.5	2,428.4	1.51	0.85	-35.11
9,288.0	4.40	248.50	8,743.4	2,184.6	-1,066.9	2,429.6	2.20	2.00	-16.00
9,382.0	6.50	247.20	8,837.0	2,181.2	-1,075.2	2,430.5	2.24	2.23	-1.38
9,571.0	7.00	241.80	9,024.7	2,171.6	-1,095.2	2,431.5	0.43	0.26	-2.86
9,950.0	10.60	239.50	9,399.2	2,143.0	-1,145.6	2,430.0	0.95	0.95	-0.61

<b>Company:</b>	Caerus Oil and Gas LLC	<b>Local Co-ordinate Reference:</b>	Well NPR 12A-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 12A-10 596	<b>North Reference:</b>	True
<b>Wellbore:</b>	NPR 12A-10 596 Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	NPR 12A-10 596 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)	
9,997.4	10.60	239.50	9,445.7	2,138.6	-1,153.1	2,429.7	0.00	0.00	0.00	
BHL 1235'FNL, 1332'FWL, SEC.10										
10,025.0	10.60	239.50	9,472.9	2,136.0	-1,157.5	2,429.4	0.00	0.00	0.00	

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
8,158.0	7,614.5	2,169.1	-1,022.0	Last Survey - 8158' MD	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_