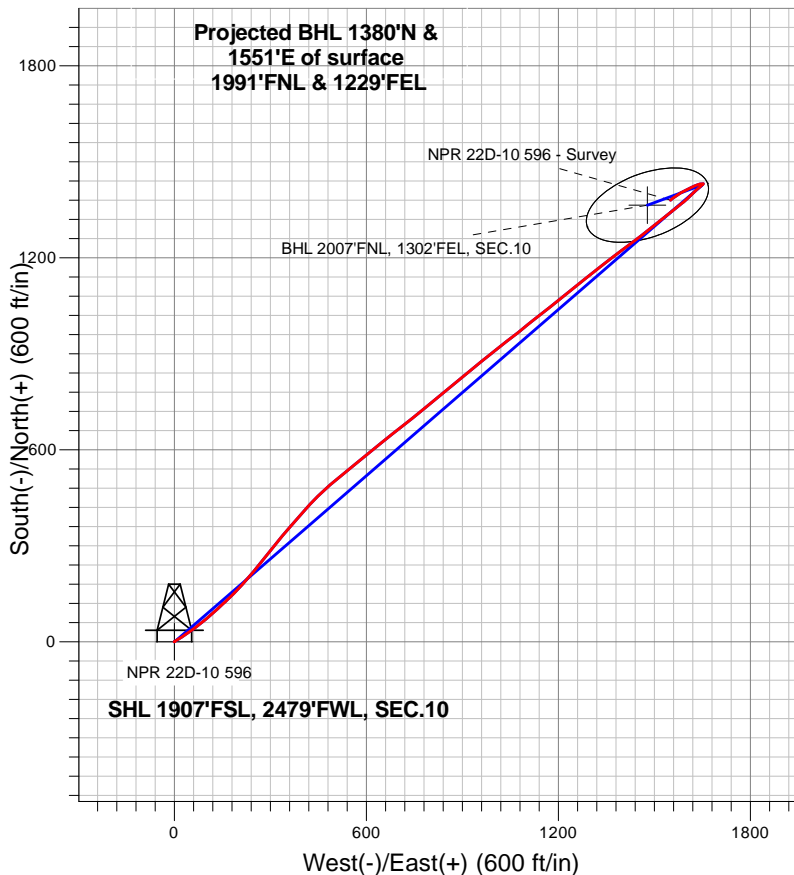


Caerus Oil and Gas LLC



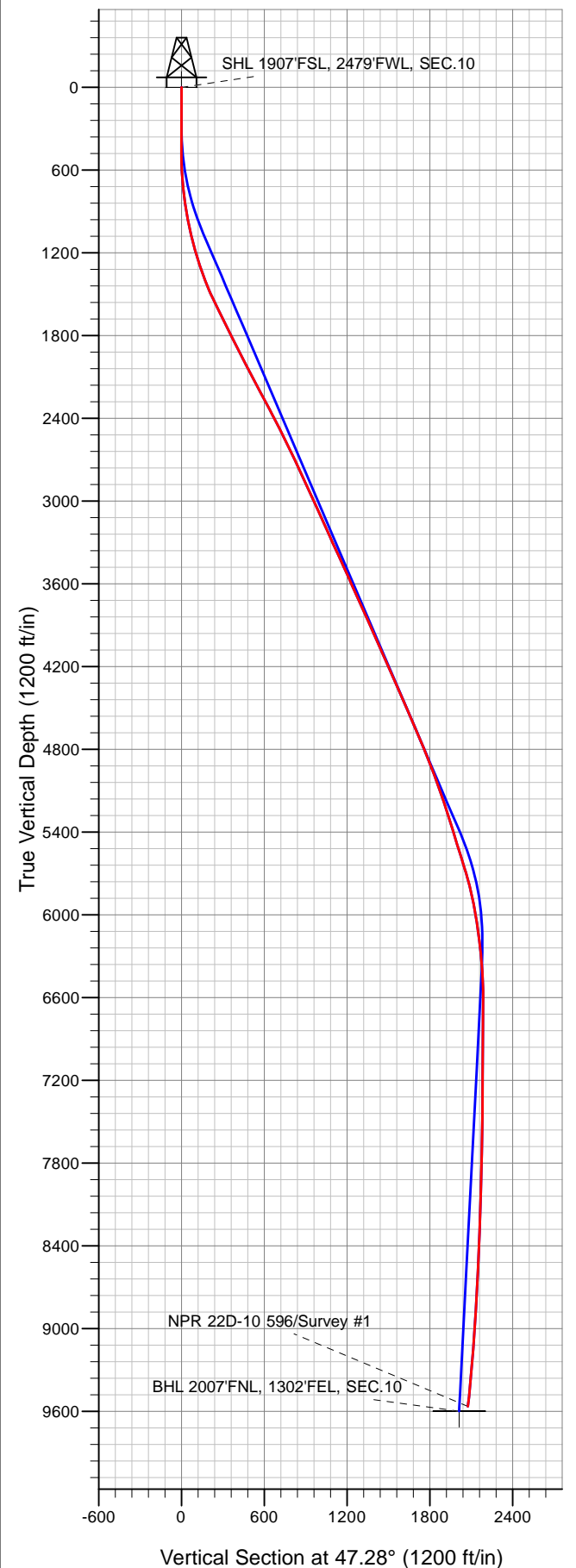
LEGEND

- △ NPR 22D-10 596, Wellbore #1, Plan #1 (11-14-17) V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
 10,007'MD & 9,564' TVD @ 2075.65'VS
 6.3 deg Inc 229.2 deg AZ

Project: SEC.10-T5S-R96W
 Site: K10 596 Pad Sec.10-T5S-R96W
 Well: NPR 22D-10 596
 Plan: Wellbore #1





Caerus Oil and Gas LLC

SEC.10-T5S-R96W

K10 596 Pad Sec.10-T5S-R96W

NPR 22D-10 596

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 January, 2018

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 22D-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 22D-10 596	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	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 22D-10 596					
Well Position	+N/-S	0.0 ft	Northing:	14,403,128.71 usft	Latitude:	39.627586
	+E/-W	0.0 ft	Easting:	2,441,459.06 usft	Longitude:	-108.155344
Position Uncertainty		0.0 ft	Wellhead Elevation:	0.0 ft	Ground Level:	6,709.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/2/2018	9.63	65.85	51,513

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	47.28	

Survey Program	Date	1/15/2018			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
417.0	10,007.0	Survey #1 (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	279.60	1.0	0.0	0.0	0.0	0.00	0.00	0.00	
SHL 1907°FSL, 2479°FWL, SEC.10										
417.0	0.30	279.60	417.0	0.2	-1.1	-0.7	0.07	0.07	0.00	
510.0	0.80	53.70	510.0	0.6	-0.8	-0.2	1.11	0.54	144.19	
604.0	2.70	61.40	603.9	2.1	1.7	2.6	2.03	2.02	8.19	
699.0	5.20	57.50	698.7	5.4	7.3	9.0	2.65	2.63	-4.11	
793.0	7.20	56.20	792.2	11.0	15.8	19.0	2.13	2.13	-1.38	
888.0	9.50	56.90	886.1	18.6	27.3	32.7	2.42	2.42	0.74	
983.0	11.30	56.90	979.6	28.0	41.6	49.6	1.89	1.89	0.00	
1,077.0	13.50	54.50	1,071.4	39.4	58.3	69.5	2.40	2.34	-2.55	

Company:	Caerus Oil and Gas LLC	Local Co-ordinate Reference:	Well NPR 22D-10 596
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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 22D-10 596	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	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)
1,172.0	15.60	51.40	1,163.3	53.8	77.3	93.3	2.36	2.21	-3.26
1,266.0	17.60	49.80	1,253.4	70.8	98.0	120.1	2.18	2.13	-1.70
1,360.0	19.40	48.40	1,342.6	90.4	120.6	149.9	1.97	1.91	-1.49
1,455.0	21.80	47.30	1,431.5	112.8	145.3	183.3	2.56	2.53	-1.16
1,550.0	24.90	45.20	1,518.7	138.9	172.5	221.0	3.38	3.26	-2.21
1,644.0	26.00	43.80	1,603.6	167.7	200.8	261.3	1.33	1.17	-1.49
1,739.0	27.20	41.80	1,688.5	198.9	229.7	303.7	1.58	1.26	-2.11
1,833.0	27.00	38.50	1,772.2	231.6	257.3	346.2	1.61	-0.21	-3.51
1,928.0	26.80	38.10	1,856.9	265.4	283.9	388.6	0.28	-0.21	-0.42
2,023.0	27.10	39.60	1,941.6	298.9	310.9	431.2	0.78	0.32	1.58
2,117.0	27.30	39.80	2,025.2	331.9	338.4	473.8	0.23	0.21	0.21
2,194.0	27.70	40.30	2,093.5	359.2	361.3	509.1	0.60	0.52	0.65
2,311.0	28.10	41.10	2,196.9	400.7	397.0	563.5	0.47	0.34	0.68
2,406.0	28.60	43.70	2,280.5	434.0	427.4	608.4	1.40	0.53	2.74
2,500.0	27.60	47.60	2,363.4	464.9	459.0	652.6	2.22	-1.06	4.15
2,595.0	27.20	47.50	2,447.8	494.4	491.3	696.4	0.42	-0.42	-0.11
2,690.0	26.70	51.30	2,532.5	522.4	523.9	739.4	1.89	-0.53	4.00
2,784.0	26.00	51.00	2,616.7	548.6	556.4	781.0	0.76	-0.74	-0.32
2,879.0	25.20	50.90	2,702.4	574.5	588.3	821.9	0.84	-0.84	-0.11
2,973.0	24.40	50.80	2,787.7	599.4	618.9	861.3	0.85	-0.85	-0.11
3,068.0	24.10	50.30	2,874.3	624.2	649.0	900.3	0.38	-0.32	-0.53
3,162.0	25.80	52.20	2,959.5	649.0	679.9	939.8	2.00	1.81	2.02
3,257.0	24.90	51.90	3,045.4	674.0	712.0	980.3	0.96	-0.95	-0.32
3,351.0	24.10	51.40	3,130.9	698.1	742.6	1,019.2	0.88	-0.85	-0.53
3,446.0	23.30	50.30	3,217.9	722.2	772.2	1,057.3	0.96	-0.84	-1.16
3,541.0	25.10	50.90	3,304.6	747.0	802.3	1,096.2	1.91	1.89	0.63
3,635.0	24.80	50.80	3,389.8	772.0	833.1	1,135.8	0.32	-0.32	-0.11
3,730.0	24.20	50.10	3,476.2	797.1	863.4	1,175.1	0.70	-0.63	-0.74
3,824.0	23.70	49.90	3,562.1	821.6	892.7	1,213.2	0.54	-0.53	-0.21
3,919.0	25.10	49.90	3,648.7	846.9	922.7	1,252.4	1.47	1.47	0.00
4,013.0	24.80	51.80	3,733.9	871.9	953.4	1,292.0	0.91	-0.32	2.02
4,108.0	24.20	52.00	3,820.3	896.2	984.4	1,331.3	0.64	-0.63	0.21
4,202.0	23.40	51.40	3,906.3	919.7	1,014.2	1,369.1	0.89	-0.85	-0.64
4,297.0	24.30	51.70	3,993.2	943.6	1,044.3	1,407.4	0.96	0.95	0.32
4,391.0	24.00	51.60	4,079.0	967.5	1,074.4	1,445.7	0.32	-0.32	-0.11
4,486.0	23.20	50.90	4,166.1	991.3	1,104.1	1,483.7	0.89	-0.84	-0.74
4,581.0	24.90	51.90	4,252.8	1,015.4	1,134.4	1,522.3	1.84	1.79	1.05
4,675.0	24.00	51.50	4,338.4	1,039.5	1,164.9	1,561.1	0.97	-0.96	-0.43
4,770.0	23.10	50.10	4,425.5	1,063.5	1,194.3	1,598.9	1.12	-0.95	-1.47
4,865.0	23.60	52.30	4,512.7	1,087.1	1,223.7	1,636.5	1.06	0.53	2.32
4,959.0	23.30	51.60	4,598.9	1,110.2	1,253.1	1,673.8	0.44	-0.32	-0.74
5,053.0	22.80	51.60	4,685.4	1,133.0	1,282.0	1,710.5	0.53	-0.53	0.00
5,148.0	22.50	51.20	4,773.1	1,155.8	1,310.6	1,747.0	0.35	-0.32	-0.42

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Site:	K10 596 Pad Sec.10-T5S-R96W	MD Reference:	WELL @ 6733.0ft (Original Well Elev)
Well:	NPR 22D-10 596	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	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)
5,243.0	22.40	51.50	4,860.9	1,178.5	1,338.9	1,783.2	0.16	-0.11	0.32
5,337.0	21.00	52.60	4,948.2	1,199.9	1,366.3	1,817.8	1.55	-1.49	1.17
5,432.0	20.40	53.90	5,037.1	1,220.0	1,393.2	1,851.2	0.80	-0.63	1.37
5,526.0	18.10	53.00	5,125.8	1,238.4	1,418.1	1,882.0	2.47	-2.45	-0.96
5,620.0	18.00	52.30	5,215.2	1,256.1	1,441.2	1,911.0	0.25	-0.11	-0.74
5,715.0	17.80	53.00	5,305.6	1,273.8	1,464.5	1,940.1	0.31	-0.21	0.74
5,809.0	17.30	51.30	5,395.2	1,291.2	1,486.8	1,968.3	0.76	-0.53	-1.81
5,904.0	17.40	50.90	5,485.9	1,309.0	1,508.9	1,996.6	0.16	0.11	-0.42
5,999.0	17.30	51.20	5,576.6	1,326.8	1,530.9	2,024.8	0.14	-0.11	0.32
6,093.0	17.40	51.10	5,666.3	1,344.4	1,552.7	2,052.8	0.11	0.11	-0.11
6,188.0	15.10	52.40	5,757.5	1,360.8	1,573.6	2,079.3	2.45	-2.42	1.37
6,283.0	12.40	50.70	5,849.8	1,374.9	1,591.3	2,101.8	2.87	-2.84	-1.79
6,378.0	10.20	45.30	5,942.9	1,387.2	1,605.2	2,120.4	2.57	-2.32	-5.68
6,567.0	8.30	46.50	6,129.5	1,408.4	1,627.0	2,150.8	1.01	-1.01	0.63
6,661.0	6.80	47.80	6,222.6	1,416.8	1,636.0	2,163.1	1.61	-1.60	1.38
6,756.0	4.60	51.40	6,317.2	1,423.0	1,643.2	2,172.6	2.35	-2.32	3.79
6,850.0	3.70	48.30	6,410.9	1,427.3	1,648.4	2,179.3	0.99	-0.96	-3.30
6,945.0	2.00	46.90	6,505.8	1,430.5	1,651.9	2,184.1	1.79	-1.79	-1.47
7,040.0	0.10	27.60	6,600.8	1,431.7	1,653.1	2,185.8	2.01	-2.00	-20.32
7,323.0	0.60	248.70	6,883.8	1,431.4	1,651.9	2,184.7	0.24	0.18	-49.08
7,607.0	0.40	267.40	7,167.8	1,430.8	1,649.5	2,182.5	0.09	-0.07	6.58
7,891.0	0.70	276.80	7,451.8	1,431.0	1,646.8	2,180.6	0.11	0.11	3.31
8,175.0	1.40	259.70	7,735.7	1,430.6	1,641.6	2,176.6	0.27	0.25	-6.02
8,459.0	1.80	249.00	8,019.6	1,428.3	1,634.1	2,169.5	0.18	0.14	-3.77
8,742.0	2.00	247.80	8,302.4	1,424.9	1,625.3	2,160.7	0.07	0.07	-0.42
9,026.0	2.90	242.40	8,586.2	1,419.7	1,614.4	2,149.2	0.33	0.32	-1.90
9,309.0	3.80	241.50	8,868.7	1,411.9	1,599.8	2,133.2	0.32	0.32	-0.32
9,593.0	4.20	245.40	9,152.0	1,403.1	1,582.1	2,114.2	0.17	0.14	1.37
9,937.0	6.30	229.20	9,494.6	1,385.5	1,556.3	2,083.3	0.74	0.61	-4.71
10,007.0	6.30	229.20	9,564.1	1,380.5	1,550.5	2,075.6	0.00	0.00	0.00
Last Survey - 10,007' MD - BHL 2007'FNL, 1302'FEL, SEC.10									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL 1907'FSL, 2479'FW	0.00	0.00	1.0	0.0	0.0	14,403,128.71	2,441,459.06	39.627586	-108.155344
- survey hits target center									
- Point									
BHL 2007'FNL, 1302'FE	0.00	0.00	9,599.0	1,364.9	1,477.9	14,404,540.23	2,442,893.49	39.631333	-108.150097
- survey misses target center by 82.0ft at 10007.0ft MD (9564.1 TVD, 1380.5 N, 1550.5 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 22D-10 596	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	US_EDM

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
10,007.0	9,564.1	1,380.5	1,550.5	Last Survey - 10,007' MD	

Checked By: _____	Approved By: _____	Date: _____
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