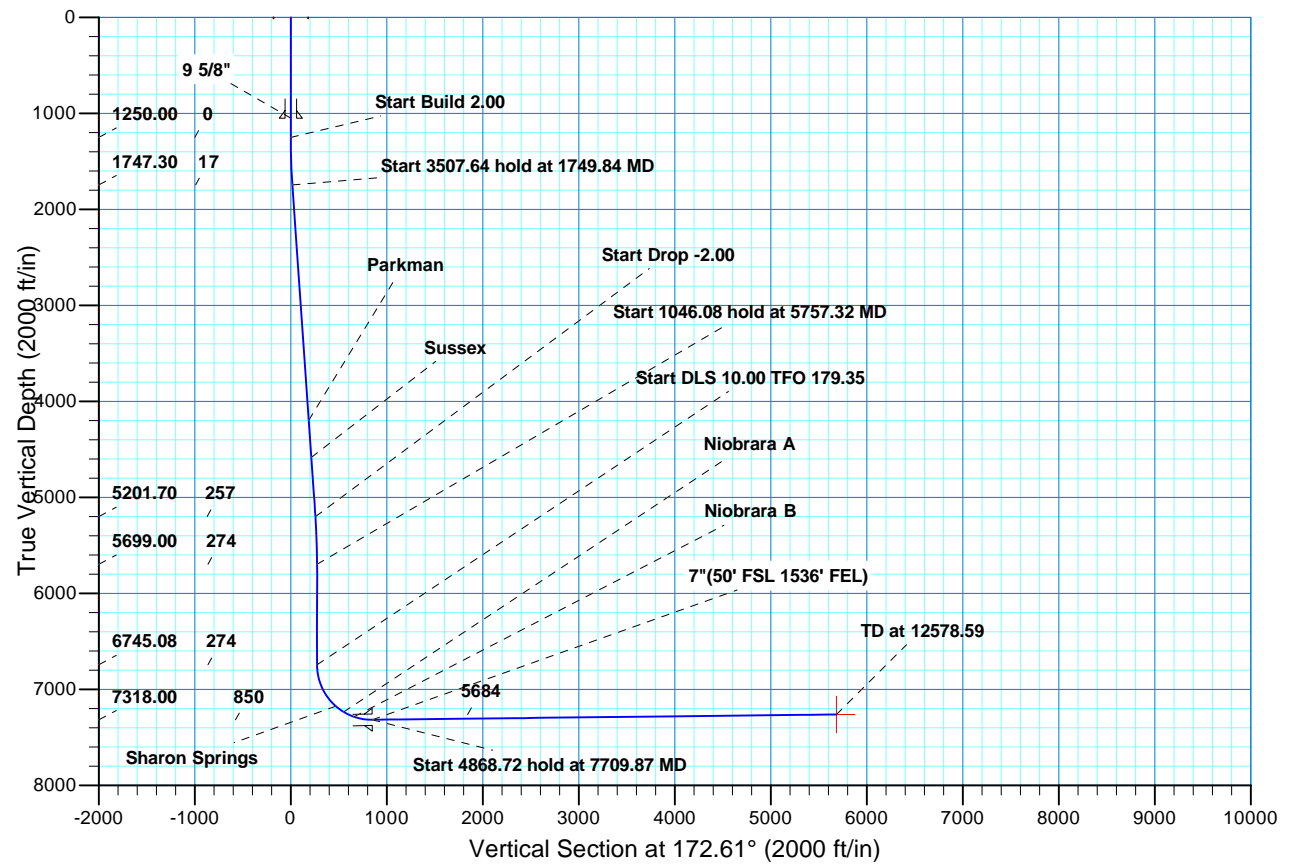
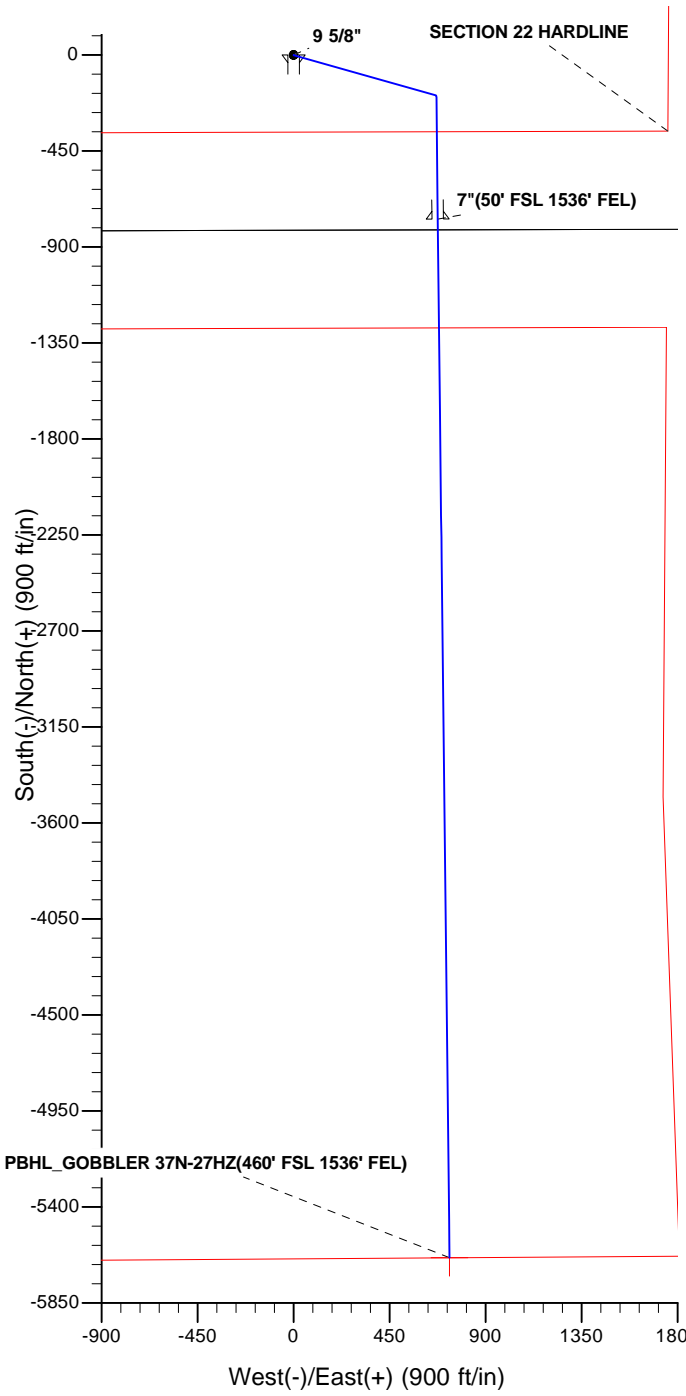




Project: COLORADO NORTHERN ZONE - 83  
 Site: GOBLER 12-22HZ PAD  
 Well: GOBLER 37N-27HZ  
 Wellbore: OH  
 Design: PLAN #1 PRELIMINARY



WELL DETAILS: GOBLER 37N-27HZ									
GL 5051 & KB 17 @ 5068.00ft (ASSUMED)									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	1286942.91	3206415.46	40.1186929	-104.7619130				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1250.00	0.00	0.00	1250.00	0.00	0.00	0.00	0.00	0.00	0.00
1749.84	10.00	105.82	1747.30	-11.86	41.85	2.00	105.82	17.14	
5257.48	10.00	105.82	5201.70	-177.85	627.68	0.00	0.00	257.15	
5757.32	0.00	0.00	5699.00	-189.71	669.53	2.00	180.00	274.29	
6803.40	0.00	0.00	6745.08	-189.71	669.53	0.00	0.00	274.29	
7709.87	90.65	179.35	7318.00	-769.10	676.12	10.00	179.35	849.71	
12578.59	90.65	179.35	7263.00	-5637.19	731.49	0.00	0.005684.46		PBHL_GOBLER 37N-27HZ(460' FSL 1536' FEL)
FORMATION TOP DETAILS				CASING DETAILS					
TVDPath	MDPath	Formation	Inc	TVD	MD	Name	Size		
4199.00	4239.33	Parkman	10.00	1050.00	1050.00	9 5/8"	9.625		
4585.00	4631.28	Sussex	10.00	7318.00	7709.87	7"	7.000		
7176.00	7291.12	Sharon Springs	48.77						
7237.00	7394.95	Niobrara A	59.16						
7287.00	7513.95	Niobrara B	71.05						





# Scientific Drilling

## **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**GOBBLER 12-22HZ PAD**

**GOBBLER 37N-27HZ**

**OH**

**Plan: PLAN #1 PRELIMINARY**

## **Standard Planning Report**

**15 May, 2013**

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well GOBBLER 37N-27HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Site:</b>	GOBBLER 12-22HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOBBLER 37N-27HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

<b>Project</b>	COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

<b>Site</b>	GOBBLER 12-22HZ PAD, SECTION SWSE 22-T2N R66W				
<b>Site Position:</b>	<b>Northing:</b>	1,286,949.10 usft	<b>Latitude:</b>	40.1187120	
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,206,325.91 usft	<b>Longitude:</b>	-104.7622330
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	0.48 °

<b>Well</b>	GOBBLER 37N-27HZ, 821' FSL 2217' FEL					
<b>Well Position</b>	<b>+N/-S</b>	-6.94 ft	<b>Northing:</b>	1,286,942.91 usft	<b>Latitude:</b>	40.1186930
	<b>+E/-W</b>	89.49 ft	<b>Easting:</b>	3,206,415.46 usft	<b>Longitude:</b>	-104.7619130
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>		<b>Ground Level:</b>	5,051.00 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	BGGM2012	2013/05/15	8.64	66.73	52,681

<b>Design</b>	PLAN #1 PRELIMINARY			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	172.61

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,749.84	10.00	105.82	1,747.30	-11.86	41.85	2.00	2.00	0.00	105.82	
5,257.48	10.00	105.82	5,201.70	-177.85	627.68	0.00	0.00	0.00	0.00	
5,757.32	0.00	0.00	5,699.00	-189.71	669.53	2.00	-2.00	0.00	180.00	
6,803.40	0.00	0.00	6,745.08	-189.71	669.53	0.00	0.00	0.00	0.00	
7,709.87	90.65	179.35	7,318.00	-769.10	676.12	10.00	10.00	19.79	179.35	
12,578.59	90.65	179.35	7,263.00	-5,637.19	731.49	0.00	0.00	0.00	0.00	PBHL_GOBBLER 37I

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well GOBBLER 37N-27HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Site:</b>	GOBBLER 12-22HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOBBLER 37N-27HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>9 5/8"</b>										
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,250.00	0.00	0.00	1,250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>										
1,300.00	1.00	105.82	1,300.00	-0.12	0.42	0.17	2.00	2.00	2.00	0.00
1,400.00	3.00	105.82	1,399.93	-1.07	3.78	1.55	2.00	2.00	2.00	0.00
1,500.00	5.00	105.82	1,499.68	-2.97	10.49	4.30	2.00	2.00	2.00	0.00
1,600.00	7.00	105.82	1,599.13	-5.82	20.54	8.42	2.00	2.00	2.00	0.00
1,700.00	9.00	105.82	1,698.15	-9.62	33.93	13.90	2.00	2.00	2.00	0.00
1,749.84	10.00	105.82	1,747.30	-11.86	41.85	17.14	2.00	2.00	2.00	0.00
<b>Start 3507.64 hold at 1749.84 MD</b>										
1,800.00	10.00	105.82	1,796.71	-14.23	50.22	20.58	0.00	0.00	0.00	0.00
1,900.00	10.00	105.82	1,895.19	-18.96	66.93	27.42	0.00	0.00	0.00	0.00
2,000.00	10.00	105.82	1,993.67	-23.70	83.63	34.26	0.00	0.00	0.00	0.00
2,100.00	10.00	105.82	2,092.15	-28.43	100.33	41.10	0.00	0.00	0.00	0.00
2,200.00	10.00	105.82	2,190.63	-33.16	117.03	47.95	0.00	0.00	0.00	0.00
2,300.00	10.00	105.82	2,289.12	-37.89	133.73	54.79	0.00	0.00	0.00	0.00
2,400.00	10.00	105.82	2,387.60	-42.63	150.44	61.63	0.00	0.00	0.00	0.00
2,500.00	10.00	105.82	2,486.08	-47.36	167.14	68.47	0.00	0.00	0.00	0.00
2,600.00	10.00	105.82	2,584.56	-52.09	183.84	75.31	0.00	0.00	0.00	0.00
2,700.00	10.00	105.82	2,683.04	-56.82	200.54	82.16	0.00	0.00	0.00	0.00
2,800.00	10.00	105.82	2,781.52	-61.56	217.24	89.00	0.00	0.00	0.00	0.00
2,900.00	10.00	105.82	2,880.01	-66.29	233.94	95.84	0.00	0.00	0.00	0.00
3,000.00	10.00	105.82	2,978.49	-71.02	250.65	102.68	0.00	0.00	0.00	0.00
3,100.00	10.00	105.82	3,076.97	-75.75	267.35	109.53	0.00	0.00	0.00	0.00
3,200.00	10.00	105.82	3,175.45	-80.48	284.05	116.37	0.00	0.00	0.00	0.00
3,300.00	10.00	105.82	3,273.93	-85.22	300.75	123.21	0.00	0.00	0.00	0.00
3,400.00	10.00	105.82	3,372.41	-89.95	317.45	130.05	0.00	0.00	0.00	0.00
3,500.00	10.00	105.82	3,470.90	-94.68	334.15	136.89	0.00	0.00	0.00	0.00
3,600.00	10.00	105.82	3,569.38	-99.41	350.86	143.74	0.00	0.00	0.00	0.00
3,700.00	10.00	105.82	3,667.86	-104.15	367.56	150.58	0.00	0.00	0.00	0.00
3,800.00	10.00	105.82	3,766.34	-108.88	384.26	157.42	0.00	0.00	0.00	0.00
3,900.00	10.00	105.82	3,864.82	-113.61	400.96	164.26	0.00	0.00	0.00	0.00
4,000.00	10.00	105.82	3,963.31	-118.34	417.66	171.11	0.00	0.00	0.00	0.00
4,100.00	10.00	105.82	4,061.79	-123.08	434.36	177.95	0.00	0.00	0.00	0.00
4,200.00	10.00	105.82	4,160.27	-127.81	451.07	184.79	0.00	0.00	0.00	0.00
4,239.33	10.00	105.82	4,199.00	-129.67	457.63	187.48	0.00	0.00	0.00	0.00
<b>Parkman</b>										
4,300.00	10.00	105.82	4,258.75	-132.54	467.77	191.63	0.00	0.00	0.00	0.00
4,400.00	10.00	105.82	4,357.23	-137.27	484.47	198.48	0.00	0.00	0.00	0.00
4,500.00	10.00	105.82	4,455.71	-142.01	501.17	205.32	0.00	0.00	0.00	0.00

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well GOBBLER 37N-27HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Site:</b>	GOBBLER 12-22HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOBBLER 37N-27HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	10.00	105.82	4,554.20	-146.74	517.87	212.16	0.00	0.00	0.00
4,631.28	10.00	105.82	4,585.00	-148.22	523.10	214.30	0.00	0.00	0.00
<b>Sussex</b>									
4,700.00	10.00	105.82	4,652.68	-151.47	534.57	219.00	0.00	0.00	0.00
4,800.00	10.00	105.82	4,751.16	-156.20	551.28	225.84	0.00	0.00	0.00
4,900.00	10.00	105.82	4,849.64	-160.94	567.98	232.69	0.00	0.00	0.00
5,000.00	10.00	105.82	4,948.12	-165.67	584.68	239.53	0.00	0.00	0.00
5,100.00	10.00	105.82	5,046.60	-170.40	601.38	246.37	0.00	0.00	0.00
5,200.00	10.00	105.82	5,145.09	-175.13	618.08	253.21	0.00	0.00	0.00
5,257.48	10.00	105.82	5,201.70	-177.85	627.68	257.15	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
5,300.00	9.15	105.82	5,243.62	-179.78	634.49	259.93	2.00	-2.00	0.00
5,400.00	7.15	105.82	5,342.61	-183.64	648.12	265.52	2.00	-2.00	0.00
5,500.00	5.15	105.82	5,442.03	-186.56	658.42	269.74	2.00	-2.00	0.00
5,600.00	3.15	105.82	5,541.76	-188.53	665.38	272.59	2.00	-2.00	0.00
5,700.00	1.15	105.82	5,641.69	-189.55	668.98	274.06	2.00	-2.00	0.00
5,757.32	0.00	0.00	5,699.00	-189.71	669.53	274.29	2.00	-2.00	0.00
<b>Start 1046.08 hold at 5757.32 MD</b>									
5,800.00	0.00	0.00	5,741.68	-189.71	669.53	274.29	0.00	0.00	0.00
5,900.00	0.00	0.00	5,841.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,000.00	0.00	0.00	5,941.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,100.00	0.00	0.00	6,041.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,200.00	0.00	0.00	6,141.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,300.00	0.00	0.00	6,241.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,400.00	0.00	0.00	6,341.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,500.00	0.00	0.00	6,441.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,600.00	0.00	0.00	6,541.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,700.00	0.00	0.00	6,641.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,800.00	0.00	0.00	6,741.68	-189.71	669.53	274.29	0.00	0.00	0.00
6,803.40	0.00	0.00	6,745.08	-189.71	669.53	274.29	0.00	0.00	0.00
<b>Start DLS 10.00 TFO 179.35</b>									
6,900.00	9.66	179.35	6,841.22	-197.83	669.62	282.36	10.00	10.00	0.00
7,000.00	19.66	179.35	6,937.85	-223.11	669.91	307.46	10.00	10.00	0.00
7,100.00	29.66	179.35	7,028.61	-264.78	670.38	348.84	10.00	10.00	0.00
7,200.00	39.66	179.35	7,110.76	-321.57	671.03	405.25	10.00	10.00	0.00
7,291.12	48.77	179.35	7,176.00	-385.05	671.75	468.29	10.00	10.00	0.00
<b>Sharon Springs</b>									
7,300.00	49.66	179.35	7,181.80	-391.77	671.83	474.96	10.00	10.00	0.00
7,394.95	59.16	179.35	7,237.00	-468.89	672.71	551.56	10.00	10.00	0.00
<b>Niobrara A</b>									
7,400.00	59.66	179.35	7,239.57	-473.23	672.76	555.87	10.00	10.00	0.00
7,500.00	69.66	179.35	7,282.31	-563.49	673.78	645.51	10.00	10.00	0.00
7,513.95	71.05	179.35	7,287.00	-576.62	673.93	658.55	10.00	10.00	0.00
<b>Niobrara B</b>									
7,600.00	79.66	179.35	7,308.73	-659.80	674.88	741.16	10.00	10.00	0.00
7,700.00	89.66	179.35	7,318.03	-759.23	676.01	839.91	10.00	10.00	0.00
7,709.87	90.65	179.35	7,318.00	-769.10	676.12	849.71	10.00	10.00	0.00
<b>Start 4868.72 hold at 7709.87 MD - 7"(50' FSL 1536' FEL)</b>									
7,800.00	90.65	179.35	7,316.98	-859.22	677.15	939.21	0.00	0.00	0.00
7,900.00	90.65	179.35	7,315.85	-959.21	678.28	1,038.52	0.00	0.00	0.00
8,000.00	90.65	179.35	7,314.72	-1,059.19	679.42	1,137.82	0.00	0.00	0.00
8,100.00	90.65	179.35	7,313.59	-1,159.18	680.56	1,237.12	0.00	0.00	0.00
8,200.00	90.65	179.35	7,312.46	-1,259.17	681.69	1,336.42	0.00	0.00	0.00

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well GOBBLER 37N-27HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Site:</b>	GOBBLER 12-22HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOBBLER 37N-27HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,300.00	90.65	179.35	7,311.33	-1,359.16	682.83	1,435.72	0.00	0.00	0.00
8,400.00	90.65	179.35	7,310.21	-1,459.14	683.97	1,535.03	0.00	0.00	0.00
8,500.00	90.65	179.35	7,309.08	-1,559.13	685.11	1,634.33	0.00	0.00	0.00
8,600.00	90.65	179.35	7,307.95	-1,659.12	686.24	1,733.63	0.00	0.00	0.00
8,700.00	90.65	179.35	7,306.82	-1,759.10	687.38	1,832.93	0.00	0.00	0.00
8,800.00	90.65	179.35	7,305.69	-1,859.09	688.52	1,932.24	0.00	0.00	0.00
8,900.00	90.65	179.35	7,304.56	-1,959.08	689.66	2,031.54	0.00	0.00	0.00
9,000.00	90.65	179.35	7,303.43	-2,059.07	690.79	2,130.84	0.00	0.00	0.00
9,100.00	90.65	179.35	7,302.30	-2,159.05	691.93	2,230.14	0.00	0.00	0.00
9,200.00	90.65	179.35	7,301.17	-2,259.04	693.07	2,329.44	0.00	0.00	0.00
9,300.00	90.65	179.35	7,300.04	-2,359.03	694.21	2,428.75	0.00	0.00	0.00
9,400.00	90.65	179.35	7,298.91	-2,459.01	695.34	2,528.05	0.00	0.00	0.00
9,500.00	90.65	179.35	7,297.78	-2,559.00	696.48	2,627.35	0.00	0.00	0.00
9,600.00	90.65	179.35	7,296.65	-2,658.99	697.62	2,726.65	0.00	0.00	0.00
9,700.00	90.65	179.35	7,295.52	-2,758.98	698.76	2,825.96	0.00	0.00	0.00
9,800.00	90.65	179.35	7,294.39	-2,858.96	699.89	2,925.26	0.00	0.00	0.00
9,900.00	90.65	179.35	7,293.26	-2,958.95	701.03	3,024.56	0.00	0.00	0.00
10,000.00	90.65	179.35	7,292.13	-3,058.94	702.17	3,123.86	0.00	0.00	0.00
10,100.00	90.65	179.35	7,291.00	-3,158.92	703.30	3,223.16	0.00	0.00	0.00
10,200.00	90.65	179.35	7,289.87	-3,258.91	704.44	3,322.47	0.00	0.00	0.00
10,300.00	90.65	179.35	7,288.74	-3,358.90	705.58	3,421.77	0.00	0.00	0.00
10,400.00	90.65	179.35	7,287.61	-3,458.89	706.72	3,521.07	0.00	0.00	0.00
10,500.00	90.65	179.35	7,286.48	-3,558.87	707.85	3,620.37	0.00	0.00	0.00
10,600.00	90.65	179.35	7,285.35	-3,658.86	708.99	3,719.67	0.00	0.00	0.00
10,700.00	90.65	179.35	7,284.22	-3,758.85	710.13	3,818.98	0.00	0.00	0.00
10,800.00	90.65	179.35	7,283.09	-3,858.83	711.27	3,918.28	0.00	0.00	0.00
10,900.00	90.65	179.35	7,281.96	-3,958.82	712.40	4,017.58	0.00	0.00	0.00
11,000.00	90.65	179.35	7,280.83	-4,058.81	713.54	4,116.88	0.00	0.00	0.00
11,100.00	90.65	179.35	7,279.70	-4,158.80	714.68	4,216.19	0.00	0.00	0.00
11,200.00	90.65	179.35	7,278.57	-4,258.78	715.82	4,315.49	0.00	0.00	0.00
11,300.00	90.65	179.35	7,277.44	-4,358.77	716.95	4,414.79	0.00	0.00	0.00
11,400.00	90.65	179.35	7,276.31	-4,458.76	718.09	4,514.09	0.00	0.00	0.00
11,500.00	90.65	179.35	7,275.18	-4,558.74	719.23	4,613.39	0.00	0.00	0.00
11,600.00	90.65	179.35	7,274.06	-4,658.73	720.36	4,712.70	0.00	0.00	0.00
11,700.00	90.65	179.35	7,272.93	-4,758.72	721.50	4,812.00	0.00	0.00	0.00
11,800.00	90.65	179.35	7,271.80	-4,858.71	722.64	4,911.30	0.00	0.00	0.00
11,900.00	90.65	179.35	7,270.67	-4,958.69	723.78	5,010.60	0.00	0.00	0.00
12,000.00	90.65	179.35	7,269.54	-5,058.68	724.91	5,109.91	0.00	0.00	0.00
12,100.00	90.65	179.35	7,268.41	-5,158.67	726.05	5,209.21	0.00	0.00	0.00
12,200.00	90.65	179.35	7,267.28	-5,258.65	727.19	5,308.51	0.00	0.00	0.00
12,300.00	90.65	179.35	7,266.15	-5,358.64	728.33	5,407.81	0.00	0.00	0.00
12,400.00	90.65	179.35	7,265.02	-5,458.63	729.46	5,507.11	0.00	0.00	0.00
12,500.00	90.65	179.35	7,263.89	-5,558.62	730.60	5,606.42	0.00	0.00	0.00
12,578.59	90.65	179.35	7,263.00	-5,637.19	731.49	5,684.46	0.00	0.00	0.00
<b>TD at 12578.59 - PBHL_GOBBLER 37N-27HZ(460' FSL 1536' FEL)</b>									

<b>Database:</b>	EDM5000-RobertS-Local	<b>Local Co-ordinate Reference:</b>	Well GOBBLER 37N-27HZ
<b>Company:</b>	US ROCKIES REGION PLANNING	<b>TVD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Project:</b>	COLORADO NORTHERN ZONE - 83	<b>MD Reference:</b>	GL 5051 & KB 17 @ 5068.00ft (ASSUMED)
<b>Site:</b>	GOBBLER 12-22HZ PAD	<b>North Reference:</b>	True
<b>Well:</b>	GOBBLER 37N-27HZ	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1 PRELIMINARY		

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_GOBBLER 37N-2 - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,263.00	-5,637.19	731.49	1,281,312.01	3,207,193.85	40.1032180	-104.7592980

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,050.00	1,050.00	9 5/8"	9.625	12.250	
7,709.87	7,318.00	7"(50' FSL 1536' FEL)	7.000	7.500	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,239.33	4,202.00	Parkman			
4,631.28	4,588.00	Sussex			
7,291.12	7,179.00	Sharon Springs			
7,394.95	7,240.00	Niobrara A			
7,513.95	7,290.00	Niobrara B			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,250.00	1,250.00	0.00	0.00	Start Build 2.00	
1,749.84	1,747.30	-11.86	41.85	Start 3507.64 hold at 1749.84 MD	
5,257.48	5,201.70	-177.85	627.68	Start Drop -2.00	
5,757.32	5,699.00	-189.71	669.53	Start 1046.08 hold at 5757.32 MD	
6,803.40	6,745.08	-189.71	669.53	Start DLS 10.00 TFO 179.35	
7,709.87	7,318.00	-769.10	676.12	Start 4868.72 hold at 7709.87 MD	
12,578.59	7,263.00	-5,637.19	731.49	TD at 12578.59	