



# **Ursa Operating Company, LLC**

**Rio Blanco County, Colorado**

**BR C-240**

**BR C-240 FED 21C-25-2-98**

**Wellbore #1**

**Plan: Design #1 APD**

## **Standard Planning Report**

**07 July, 2018**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BR C-24O FED 21C-25-2-98
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	BR C-24O FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Project:</b>	Rio Blanco County, Colorado	<b>MD Reference:</b>	BR C-24O FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Site:</b>	BR C-24O	<b>North Reference:</b>	True
<b>Well:</b>	BR C-24O FED 21C-25-2-98	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 APD		

<b>Project</b>	Rio Blanco County, Colorado		
<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		Using geodetic scale factor

<b>Site</b>	BR C-24O		
<b>Site Position:</b>		<b>Northing:</b>	1,203,233.70 usft
<b>From:</b>	Map	<b>Easting:</b>	2,203,189.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	39.856238800
		<b>Longitude:</b>	-108.338695300
		<b>Grid Convergence:</b>	-1.83 °

<b>Well</b>	BR C-24O FED 21C-25-2-98, SHL: Lat 39.856134759 Long -108.338533254		
<b>Well Position</b>	<b>+N/-S</b>	-37.9 usft	<b>Northing:</b> 1,203,194.37 usft
	<b>+E/-W</b>	45.5 usft	<b>Easting:</b> 2,203,233.26 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	6,325.5 usft
		<b>Ground Level:</b>	6,304.5 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	7/7/2018	9.79	65.80	51,558

<b>Design</b>	Design #1 APD			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	234.46

<b>Plan Sections</b>										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,878.6	34.25	234.46	1,821.4	-165.0	-231.0	3.50	3.50	0.00	234.46	
5,463.6	34.25	234.46	4,784.6	-1,337.8	-1,872.9	0.00	0.00	0.00	0.00	
6,442.2	0.00	0.00	5,706.0	-1,502.8	-2,104.0	3.50	-3.50	0.00	180.00	21C-25-2-98 TGT
11,346.2	0.00	0.00	10,610.0	-1,502.8	-2,104.0	0.00	0.00	0.00	0.00	

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BR C-240 FED 21C-25-2-98
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Project:</b>	Rio Blanco County, Colorado	<b>MD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Site:</b>	BR C-240	<b>North Reference:</b>	True
<b>Well:</b>	BR C-240 FED 21C-25-2-98	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 APD		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	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	
0.1	0.00	0.00	0.1	0.0	0.0	0.0	0.00	0.00	0.00	
<b>SHL 39.856134759, -108.338533254</b>										
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
374.0	0.00	0.00	374.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Mahogany Bench</b>										
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
431.0	0.00	0.00	431.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Dissolution Surface</b>										
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Start Build 3.50</b>										
1,000.0	3.50	234.46	999.9	-1.8	-2.5	3.1	3.50	3.50	0.00	
1,100.0	7.00	234.46	1,099.5	-7.1	-9.9	12.2	3.50	3.50	0.00	
1,200.0	10.50	234.46	1,198.3	-15.9	-22.3	27.4	3.50	3.50	0.00	
1,300.0	14.00	234.46	1,296.0	-28.3	-39.6	48.6	3.50	3.50	0.00	
1,400.0	17.50	234.46	1,392.3	-44.0	-61.7	75.8	3.50	3.50	0.00	
1,500.0	21.00	234.46	1,486.7	-63.2	-88.5	108.7	3.50	3.50	0.00	
1,553.2	22.86	234.46	1,536.0	-74.7	-104.6	128.6	3.50	3.50	0.00	
<b>Garden Gulch Mbr</b>										
1,600.0	24.50	234.46	1,578.9	-85.7	-119.9	147.4	3.50	3.50	0.00	
1,700.0	28.00	234.46	1,668.5	-111.4	-155.9	191.6	3.50	3.50	0.00	
1,740.4	29.42	234.46	1,704.0	-122.7	-171.7	211.0	3.50	3.50	0.00	
<b>Wasatch</b>										
1,800.0	31.50	234.46	1,755.3	-140.2	-196.3	241.2	3.50	3.50	0.00	
1,878.6	34.25	234.46	1,821.4	-165.0	-231.0	283.9	3.50	3.50	0.00	
<b>Start 3585.0 hold at 1878.6 MD</b>										
1,900.0	34.25	234.46	1,839.0	-172.0	-240.8	295.9	0.00	0.00	0.00	
2,000.0	34.25	234.46	1,921.7	-204.7	-286.6	352.2	0.00	0.00	0.00	
2,100.0	34.25	234.46	2,004.4	-237.4	-332.4	408.5	0.00	0.00	0.00	
2,200.0	34.25	234.46	2,087.0	-270.1	-378.2	464.8	0.00	0.00	0.00	
2,300.0	34.25	234.46	2,169.7	-302.9	-424.0	521.1	0.00	0.00	0.00	
2,400.0	34.25	234.46	2,252.3	-335.6	-469.8	577.4	0.00	0.00	0.00	
2,500.0	34.25	234.46	2,335.0	-368.3	-515.6	633.6	0.00	0.00	0.00	
2,600.0	34.25	234.46	2,417.6	-401.0	-561.4	689.9	0.00	0.00	0.00	
2,700.0	34.25	234.46	2,500.3	-433.7	-607.2	746.2	0.00	0.00	0.00	
2,800.0	34.25	234.46	2,583.0	-466.4	-653.0	802.5	0.00	0.00	0.00	
2,900.0	34.25	234.46	2,665.6	-499.1	-698.8	858.8	0.00	0.00	0.00	
3,000.0	34.25	234.46	2,748.3	-531.9	-744.6	915.0	0.00	0.00	0.00	
3,100.0	34.25	234.46	2,830.9	-564.6	-790.4	971.3	0.00	0.00	0.00	
3,200.0	34.25	234.46	2,913.6	-597.3	-836.2	1,027.6	0.00	0.00	0.00	
3,300.0	34.25	234.46	2,996.2	-630.0	-882.0	1,083.9	0.00	0.00	0.00	
3,400.0	34.25	234.46	3,078.9	-662.7	-927.8	1,140.2	0.00	0.00	0.00	
3,500.0	34.25	234.46	3,161.6	-695.4	-973.6	1,196.5	0.00	0.00	0.00	
3,600.0	34.25	234.46	3,244.2	-728.1	-1,019.4	1,252.7	0.00	0.00	0.00	
3,700.0	34.25	234.46	3,326.9	-760.8	-1,065.2	1,309.0	0.00	0.00	0.00	
3,800.0	34.25	234.46	3,409.5	-793.6	-1,111.0	1,365.3	0.00	0.00	0.00	

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<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Project:</b>	Rio Blanco County, Colorado	<b>MD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Site:</b>	BR C-240	<b>North Reference:</b>	True
<b>Well:</b>	BR C-240 FED 21C-25-2-98	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 APD		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.0	34.25	234.46	3,492.2	-826.3	-1,156.8	1,421.6	0.00	0.00	0.00
3,909.5	34.25	234.46	3,500.0	-829.4	-1,161.1	1,426.9	0.00	0.00	0.00
<b>Surface Casing</b>									
4,000.0	34.25	234.46	3,574.8	-859.0	-1,202.6	1,477.9	0.00	0.00	0.00
4,100.0	34.25	234.46	3,657.5	-891.7	-1,248.4	1,534.2	0.00	0.00	0.00
4,200.0	34.25	234.46	3,740.2	-924.4	-1,294.2	1,590.4	0.00	0.00	0.00
4,300.0	34.25	234.46	3,822.8	-957.1	-1,340.0	1,646.7	0.00	0.00	0.00
4,400.0	34.25	234.46	3,905.5	-989.8	-1,385.8	1,703.0	0.00	0.00	0.00
4,500.0	34.25	234.46	3,988.1	-1,022.5	-1,431.6	1,759.3	0.00	0.00	0.00
4,600.0	34.25	234.46	4,070.8	-1,055.3	-1,477.4	1,815.6	0.00	0.00	0.00
4,689.8	34.25	234.46	4,145.0	-1,084.6	-1,518.5	1,866.1	0.00	0.00	0.00
<b>Ft Union</b>									
4,700.0	34.25	234.46	4,153.4	-1,088.0	-1,523.2	1,871.9	0.00	0.00	0.00
4,800.0	34.25	234.46	4,236.1	-1,120.7	-1,569.0	1,928.1	0.00	0.00	0.00
4,900.0	34.25	234.46	4,318.8	-1,153.4	-1,614.8	1,984.4	0.00	0.00	0.00
5,000.0	34.25	234.46	4,401.4	-1,186.1	-1,660.6	2,040.7	0.00	0.00	0.00
5,100.0	34.25	234.46	4,484.1	-1,218.8	-1,706.4	2,097.0	0.00	0.00	0.00
5,200.0	34.25	234.46	4,566.7	-1,251.5	-1,752.2	2,153.3	0.00	0.00	0.00
5,300.0	34.25	234.46	4,649.4	-1,284.3	-1,798.0	2,209.6	0.00	0.00	0.00
5,400.0	34.25	234.46	4,732.0	-1,317.0	-1,843.8	2,265.8	0.00	0.00	0.00
5,463.6	34.25	234.46	4,784.6	-1,337.8	-1,872.9	2,301.6	0.00	0.00	0.00
<b>Start Drop -3.50</b>									
5,500.0	32.98	234.46	4,814.9	-1,349.5	-1,889.3	2,321.8	3.50	-3.50	0.00
5,600.0	29.48	234.46	4,900.4	-1,379.6	-1,931.5	2,373.6	3.50	-3.50	0.00
5,700.0	25.98	234.46	4,988.9	-1,406.7	-1,969.4	2,420.1	3.50	-3.50	0.00
5,800.0	22.48	234.46	5,080.1	-1,430.5	-2,002.8	2,461.2	3.50	-3.50	0.00
5,900.0	18.98	234.46	5,173.6	-1,451.1	-2,031.6	2,496.6	3.50	-3.50	0.00
6,000.0	15.48	234.46	5,269.1	-1,468.3	-2,055.7	2,526.2	3.50	-3.50	0.00
6,100.0	11.98	234.46	5,366.2	-1,482.1	-2,075.0	2,549.9	3.50	-3.50	0.00
6,200.0	8.48	234.46	5,464.6	-1,492.4	-2,089.4	2,567.7	3.50	-3.50	0.00
6,251.8	6.67	234.46	5,516.0	-1,496.4	-2,095.0	2,574.5	3.50	-3.50	0.00
<b>Ohio Creek</b>									
6,300.0	4.98	234.46	5,563.9	-1,499.2	-2,098.9	2,579.4	3.50	-3.50	0.00
6,400.0	1.48	234.46	5,663.8	-1,502.5	-2,103.5	2,585.0	3.50	-3.50	0.00
6,442.2	0.00	0.00	5,706.0	-1,502.8	-2,104.0	2,585.6	3.50	-3.50	0.00
<b>Start 4904.0 hold at 6442.2 MD - Back to Vertical - William Fork - Top of Gas - 21C-25-2-98 TGT</b>									
6,500.0	0.00	0.00	5,763.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
6,600.0	0.00	0.00	5,863.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
6,700.0	0.00	0.00	5,963.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,063.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,163.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,263.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,100.0	0.00	0.00	6,363.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,200.0	0.00	0.00	6,463.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,300.0	0.00	0.00	6,563.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,400.0	0.00	0.00	6,663.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,500.0	0.00	0.00	6,763.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,600.0	0.00	0.00	6,863.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,700.0	0.00	0.00	6,963.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,063.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,163.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00

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<b>Site:</b>	BR C-240	<b>North Reference:</b>	True
<b>Well:</b>	BR C-240 FED 21C-25-2-98	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 APD		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,000.0	0.00	0.00	7,263.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,100.0	0.00	0.00	7,363.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,200.0	0.00	0.00	7,463.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,300.0	0.00	0.00	7,563.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,400.0	0.00	0.00	7,663.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,500.0	0.00	0.00	7,763.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,600.0	0.00	0.00	7,863.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,700.0	0.00	0.00	7,963.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,063.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,163.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,263.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,100.0	0.00	0.00	8,363.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,200.0	0.00	0.00	8,463.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,300.0	0.00	0.00	8,563.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,400.0	0.00	0.00	8,663.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,500.0	0.00	0.00	8,763.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,551.2	0.00	0.00	8,815.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>Cameo</b>									
9,600.0	0.00	0.00	8,863.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,700.0	0.00	0.00	8,963.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,063.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
9,900.0	0.00	0.00	9,163.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,000.0	0.00	0.00	9,263.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,096.2	0.00	0.00	9,360.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>Rollins</b>									
10,100.0	0.00	0.00	9,363.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,200.0	0.00	0.00	9,463.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,240.2	0.00	0.00	9,504.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>Cozzette</b>									
10,300.0	0.00	0.00	9,563.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,400.0	0.00	0.00	9,663.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,471.2	0.00	0.00	9,735.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>Corcoran</b>									
10,500.0	0.00	0.00	9,763.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,600.0	0.00	0.00	9,863.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,700.0	0.00	0.00	9,963.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,758.2	0.00	0.00	10,022.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>Upper Sego</b>									
10,800.0	0.00	0.00	10,063.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
10,900.0	0.00	0.00	10,163.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
11,000.0	0.00	0.00	10,263.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
11,100.0	0.00	0.00	10,363.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
11,200.0	0.00	0.00	10,463.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
11,300.0	0.00	0.00	10,563.8	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
11,346.2	0.00	0.00	10,610.0	-1,502.8	-2,104.0	2,585.6	0.00	0.00	0.00
<b>TD at 11346.2 - BHL 39.8520091, -108.3460269</b>									

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well BR C-240 FED 21C-25-2-98
<b>Company:</b>	Ursa Operating Company, LLC	<b>TVD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Project:</b>	Rio Blanco County, Colorado	<b>MD Reference:</b>	BR C-240 FED 21C-25-2-98 @ 6325.5usft (EST KB)
<b>Site:</b>	BR C-240	<b>North Reference:</b>	True
<b>Well:</b>	BR C-240 FED 21C-25-2-98	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1 APD		

#### Design Targets

##### Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
21C-25-2-98 TGT	0.00	0.00	5,706.0	-1,502.8	-2,104.0	1,201,759.71	2,201,082.31	39.852009100	-108.346026900
- plan hits target center									
- Rectangle (sides W100.0 H40.0 D4,904.0)									

#### Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
374.0	374.0	Mahogany Bench		0.00	
431.0	431.0	Dissolution Surface		0.00	
1,553.2	1,536.0	Garden Gulch Mbr		0.00	
1,740.4	1,704.0	Wasatch		0.00	
4,689.8	4,145.0	Ft Union		0.00	
6,251.8	5,516.0	Ohio Creek		0.00	
6,442.2	5,706.0	William Fork		0.00	
6,442.2	5,706.0	Top of Gas		0.00	
9,551.2	8,815.0	Cameo		0.00	
10,096.2	9,360.0	Rollins		0.00	
10,240.2	9,504.0	Cozzette		0.00	
10,471.2	9,735.0	Corcoran		0.00	
10,758.2	10,022.0	Upper Sego		0.00	

#### Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.1	0.1	0.0	0.0	SHL 39.856134759, -108.338533254
900.0	900.0	0.0	0.0	Start Build 3.50
1,878.6	1,821.4	-165.0	-231.0	Start 3585.0 hold at 1878.6 MD
3,909.5	3,500.0	-829.4	-1,161.1	Surface Casing
5,463.6	4,784.6	-1,337.8	-1,872.9	Start Drop -3.50
6,442.2	5,706.0	-1,502.8	-2,104.0	Start 4904.0 hold at 6442.2 MD
6,442.2	5,706.0	-1,502.8	-2,104.0	Back to Vertical
11,346.2	10,610.0	-1,502.8	-2,104.0	TD at 11346.2
11,346.2	10,610.0	-1,502.8	-2,104.0	BHL 39.8520091, -108.3460269