



Ursa Operating Company, LLC

Rio Blanco County, Colorado

Boies Ranch B-19N Pad

Boies Ranch B-19N 23B-19-2-97

Wellbore #1

Plan: Design #1

Standard Planning Report

13 November, 2017



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Boies Ranch B-19N 23B-19-2-97
Company:	Ursa Operating Company, LLC	TVD Reference:	Boies Ranch B-19N 23B-19-2-97 @ 6325.8usft (Est KB)
Project:	Rio Blanco County, Colorado	MD Reference:	Boies Ranch B-19N 23B-19-2-97 @ 6325.8usft (Est KB)
Site:	Boies Ranch B-19N Pad	North Reference:	True
Well:	Boies Ranch B-19N 23B-19-2-97	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Rio Blanco County, Colorado		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	Boies Ranch B-19N Pad		
Site Position:		Northing:	1,203,643.43 usft
From:	Lat/Long	Easting:	2,206,000.33 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39.857609622
		Longitude:	-108.328733084
		Grid Convergence:	-1.83 °

Well	Boies Ranch B-19N 23B-19-2-97, SHL: Lat 39.857496901 Long -108.328182130		
Well Position	+N/-S	-41.1 usft	Northing: 1,203,597.46 usft
	+E/-W	154.7 usft	Easting: 2,206,153.62 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	6,325.8 usft
		Ground Level:	6,304.8 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/25/2017	9.86	65.82	51,647

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	6.21	

Plan Sections										
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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,182.5	13.39	6.21	1,179.0	44.2	4.8	3.50	3.50	0.00	6.21	
5,935.6	13.39	6.21	5,803.0	1,138.3	123.9	0.00	0.00	0.00	0.00	
6,318.1	0.00	0.00	6,182.0	1,182.5	128.7	3.50	-3.50	0.00	180.00	BRB 19N 23B-19-2-97
11,122.1	0.00	0.00	10,986.0	1,182.5	128.7	0.00	0.00	0.00	0.00	

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Site:	Boies Ranch B-19N Pad	North Reference:	True
Well:	Boies Ranch B-19N 23B-19-2-97	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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	
SHL 39.857496901, -108.328182130										
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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
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	
Start Build 3.50										
850.0	1.75	6.21	850.0	0.8	0.1	0.8	3.50	3.50	0.00	
Mahogany Bench										
900.0	3.50	6.21	899.9	3.0	0.3	3.1	3.50	3.50	0.00	
907.1	3.75	6.21	907.0	3.5	0.4	3.5	3.50	3.50	0.00	
Dissolution Surface										
1,000.0	7.00	6.21	999.5	12.1	1.3	12.2	3.50	3.50	0.00	
1,100.0	10.50	6.21	1,098.3	27.3	3.0	27.4	3.50	3.50	0.00	
1,182.5	13.39	6.21	1,179.0	44.2	4.8	44.5	3.50	3.50	0.00	
Start 4753.1 hold at 1182.5 MD										
1,200.0	13.39	6.21	1,196.1	48.3	5.3	48.5	0.00	0.00	0.00	
1,300.0	13.39	6.21	1,293.3	71.3	7.8	71.7	0.00	0.00	0.00	
1,400.0	13.39	6.21	1,390.6	94.3	10.3	94.8	0.00	0.00	0.00	
1,500.0	13.39	6.21	1,487.9	117.3	12.8	118.0	0.00	0.00	0.00	
1,600.0	13.39	6.21	1,585.2	140.3	15.3	141.2	0.00	0.00	0.00	
1,700.0	13.39	6.21	1,682.5	163.3	17.8	164.3	0.00	0.00	0.00	
1,800.0	13.39	6.21	1,779.7	186.4	20.3	187.5	0.00	0.00	0.00	
1,900.0	13.39	6.21	1,877.0	209.4	22.8	210.6	0.00	0.00	0.00	
2,000.0	13.39	6.21	1,974.3	232.4	25.3	233.8	0.00	0.00	0.00	
2,038.7	13.39	6.21	2,012.0	241.3	26.3	242.7	0.00	0.00	0.00	
Garden Gulch Mbr										
2,100.0	13.39	6.21	2,071.6	255.4	27.8	256.9	0.00	0.00	0.00	
2,200.0	13.39	6.21	2,168.9	278.4	30.3	280.1	0.00	0.00	0.00	
2,211.4	13.39	6.21	2,180.0	281.1	30.6	282.7	0.00	0.00	0.00	
Wasatch										
2,300.0	13.39	6.21	2,266.2	301.4	32.8	303.2	0.00	0.00	0.00	
2,400.0	13.39	6.21	2,363.4	324.5	35.3	326.4	0.00	0.00	0.00	
2,500.0	13.39	6.21	2,460.7	347.5	37.8	349.5	0.00	0.00	0.00	
2,600.0	13.39	6.21	2,558.0	370.5	40.3	372.7	0.00	0.00	0.00	
2,700.0	13.39	6.21	2,655.3	393.5	42.8	395.8	0.00	0.00	0.00	
2,800.0	13.39	6.21	2,752.6	416.5	45.3	419.0	0.00	0.00	0.00	
2,900.0	13.39	6.21	2,849.9	439.6	47.8	442.2	0.00	0.00	0.00	
3,000.0	13.39	6.21	2,947.1	462.6	50.3	465.3	0.00	0.00	0.00	
3,100.0	13.39	6.21	3,044.4	485.6	52.8	488.5	0.00	0.00	0.00	
3,200.0	13.39	6.21	3,141.7	508.6	55.4	511.6	0.00	0.00	0.00	
3,300.0	13.39	6.21	3,239.0	531.6	57.9	534.8	0.00	0.00	0.00	
3,400.0	13.39	6.21	3,336.3	554.6	60.4	557.9	0.00	0.00	0.00	
3,500.0	13.39	6.21	3,433.6	577.7	62.9	581.1	0.00	0.00	0.00	
3,568.3	13.39	6.21	3,500.0	593.4	64.6	596.9	0.00	0.00	0.00	
Surface Casing										

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Design:	Design #1		

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)	
3,600.0	13.39	6.21	3,530.8	600.7	65.4	604.2	0.00	0.00	0.00	
3,700.0	13.39	6.21	3,628.1	623.7	67.9	627.4	0.00	0.00	0.00	
3,800.0	13.39	6.21	3,725.4	646.7	70.4	650.5	0.00	0.00	0.00	
3,900.0	13.39	6.21	3,822.7	669.7	72.9	673.7	0.00	0.00	0.00	
4,000.0	13.39	6.21	3,920.0	692.8	75.4	696.8	0.00	0.00	0.00	
4,100.0	13.39	6.21	4,017.2	715.8	77.9	720.0	0.00	0.00	0.00	
4,200.0	13.39	6.21	4,114.5	738.8	80.4	743.2	0.00	0.00	0.00	
4,300.0	13.39	6.21	4,211.8	761.8	82.9	766.3	0.00	0.00	0.00	
4,400.0	13.39	6.21	4,309.1	784.8	85.4	789.5	0.00	0.00	0.00	
4,500.0	13.39	6.21	4,406.4	807.8	87.9	812.6	0.00	0.00	0.00	
4,600.0	13.39	6.21	4,503.7	830.9	90.4	835.8	0.00	0.00	0.00	
4,700.0	13.39	6.21	4,600.9	853.9	92.9	858.9	0.00	0.00	0.00	
4,720.6	13.39	6.21	4,621.0	858.6	93.4	863.7	0.00	0.00	0.00	
Ft Union										
4,800.0	13.39	6.21	4,698.2	876.9	95.4	882.1	0.00	0.00	0.00	
4,900.0	13.39	6.21	4,795.5	899.9	97.9	905.2	0.00	0.00	0.00	
5,000.0	13.39	6.21	4,892.8	922.9	100.4	928.4	0.00	0.00	0.00	
5,100.0	13.39	6.21	4,990.1	946.0	103.0	951.5	0.00	0.00	0.00	
5,200.0	13.39	6.21	5,087.4	969.0	105.5	974.7	0.00	0.00	0.00	
5,300.0	13.39	6.21	5,184.6	992.0	108.0	997.8	0.00	0.00	0.00	
5,400.0	13.39	6.21	5,281.9	1,015.0	110.5	1,021.0	0.00	0.00	0.00	
5,500.0	13.39	6.21	5,379.2	1,038.0	113.0	1,044.2	0.00	0.00	0.00	
5,600.0	13.39	6.21	5,476.5	1,061.0	115.5	1,067.3	0.00	0.00	0.00	
5,700.0	13.39	6.21	5,573.8	1,084.1	118.0	1,090.5	0.00	0.00	0.00	
5,800.0	13.39	6.21	5,671.1	1,107.1	120.5	1,113.6	0.00	0.00	0.00	
5,900.0	13.39	6.21	5,768.3	1,130.1	123.0	1,136.8	0.00	0.00	0.00	
5,935.6	13.39	6.21	5,803.0	1,138.3	123.9	1,145.0	0.00	0.00	0.00	
Start Drop -3.50										
6,000.0	11.13	6.21	5,865.9	1,151.9	125.4	1,158.7	3.50	-3.50	0.00	
6,100.0	7.63	6.21	5,964.5	1,168.1	127.1	1,175.0	3.50	-3.50	0.00	
6,127.7	6.67	6.21	5,992.0	1,171.5	127.5	1,178.4	3.50	-3.50	0.00	
Ohio Creek										
6,200.0	4.13	6.21	6,064.0	1,178.3	128.2	1,185.2	3.50	-3.50	0.00	
6,300.0	0.63	6.21	6,163.9	1,182.4	128.7	1,189.4	3.50	-3.50	0.00	
6,318.1	0.00	0.00	6,182.0	1,182.5	128.7	1,189.5	3.50	-3.50	0.00	
Back to Vertical - Start 4804.0 hold at 6318.1 MD - Williams Fork - Top of Gas										
6,400.0	0.00	0.00	6,263.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,363.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,463.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,563.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,663.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,763.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,863.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,963.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,063.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,163.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,263.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,363.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,463.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,563.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,663.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	

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Wellbore:	Wellbore #1		
Design:	Design #1		

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)	
7,900.0	0.00	0.00	7,763.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,863.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,963.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,063.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,163.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,263.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,363.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,463.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,563.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,663.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,763.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,863.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,100.0	0.00	0.00	8,963.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,063.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,163.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,263.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,427.1	0.00	0.00	9,291.0	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
Cameo										
9,500.0	0.00	0.00	9,363.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,463.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,563.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,663.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,763.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
9,972.1	0.00	0.00	9,836.0	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
Rollins										
10,000.0	0.00	0.00	9,863.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,100.0	0.00	0.00	9,963.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,116.1	0.00	0.00	9,980.0	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
Cozzette										
10,200.0	0.00	0.00	10,063.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,163.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,263.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,450.1	0.00	0.00	10,314.0	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
Corcoran										
10,500.0	0.00	0.00	10,363.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,600.0	0.00	0.00	10,463.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,563.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,663.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,763.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,863.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
11,100.0	0.00	0.00	10,963.9	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
11,122.1	0.00	0.00	10,986.0	1,182.5	128.7	1,189.5	0.00	0.00	0.00	
BHL 39.8607431, -108.3277237										

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Boies Ranch B-19N 23B-19-2-97
Company:	Ursa Operating Company, LLC	TVD Reference:	Boies Ranch B-19N 23B-19-2-97 @ 6325.8usft (Est KB)
Project:	Rio Blanco County, Colorado	MD Reference:	Boies Ranch B-19N 23B-19-2-97 @ 6325.8usft (Est KB)
Site:	Boies Ranch B-19N Pad	North Reference:	True
Well:	Boies Ranch B-19N 23B-19-2-97	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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									
BRB 19N 23B-19-2-97 T	0.00	0.00	6,182.0	1,182.5	128.7	1,204,775.25	2,206,319.95	39.860743100	-108.327723700
- plan hits target center									
- Rectangle (sides W100.0 H40.0 D4,804.0)									

Formations

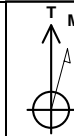
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
850.0	850.0	Mahogany Bench			
907.1	907.0	Dissolution Surface			
2,038.7	2,012.0	Garden Gulch Mbr			
2,211.4	2,180.0	Wasatch			
4,720.6	4,621.0	Ft Union			
6,127.7	5,992.0	Ohio Creek			
6,318.1	6,182.0	Williams Fork			
6,318.1	6,182.0	Top of Gas			
9,427.1	9,291.0	Cameo			
9,972.1	9,836.0	Rollins			
10,116.1	9,980.0	Cozzette			
10,450.1	10,314.0	Corcoran			

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 39.857496901, -108.328182130
800.0	800.0	0.0	0.0	Start Build 3.50
1,182.5	1,179.0	44.2	4.8	Start 4753.1 hold at 1182.5 MD
3,568.3	3,500.0	593.4	64.6	Surface Casing
5,935.6	5,803.0	1,138.3	123.9	Start Drop -3.50
6,318.1	6,182.0	1,182.5	128.7	Back to Vertical
6,318.1	6,182.0	1,182.5	128.7	Start 4804.0 hold at 6318.1 MD
11,122.1	10,986.0	1,182.5	128.7	BHL 39.8607431, -108.3277237
11,122.1	10,986.0	1,182.5	128.7	TD at 11122.1



Well Name:Boies Ranch B-19N 23B-19-2-97
Surface Location: Boies Ranch B-19N Pad
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 6304.8
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 1203597.47 2206153.62 39.857496901 -108.328182130
Est KB Boies Ranch B-19N 23B-19-2-97 @ 6325.8usft (Est KB)



Azimuths to True North
Magnetic North: 9.86°
Magnetic Field
Strength: 51647.1snT
Dip Angle: 65.82°
Date: 9/25/2017
Model: IGRF2015

Boies Ranch B-19N Pad
Boies Ranch B-19N 23B-19-2-97
Design #1
10:55, November 13 2017

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BRB 19N 23B-19-2-97 TGT	6182.0	1182.5	128.7	1204775.26	2206319.95	39.860743100	-108.327723700	Rectangle (Sides: L40.0 W100.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1182.5	13.39	6.21	1179.0	44.2	4.8	3.50	6.21	44.5	
4	5935.6	13.39	6.21	5803.0	1138.3	123.9	0.00	0.00	1145.0	
5	6318.1	0.00	0.00	6182.0	1182.5	128.7	3.50	180.00	1189.5	BRB 19N 23B-19-2-97 TGT
6	11122.1	0.00	0.00	10986.0	1182.5	128.7	0.00	0.00	1189.5	

ANNOTATIONS

TVD	MD	Annotation
0.1	0.1	SHL 39.857496901, -108.328182130
800.0	800.0	Start Build 3.50
1179.0	1182.5	Start 4753.1 hold at 1182.5 MD
3500.0	3568.3	Surface Casing
5803.0	5935.6	Start Drop -3.50
6182.0	6318.1	Back to Vertical
6182.0	6318.1	Start 4804.0 hold at 6318.1 MD
10986.0	11122.1	BHL 39.8607431, -108.3277237
10986.0	11122.1	TD at 11122.1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
850.0	850.0	Mahogany Bench		
907.0	907.1	Dissolution Surface		
2012.0	2038.7	Garden Gulch Mbr		
2180.0	2211.4	Wasatch		
4621.0	4720.6	Ft Union		
5992.0	6127.7	Ohio Creek		
6182.0	6318.1	Top of Gas		
6182.0	6318.1	Williams Fork		
9291.0	9427.1	Cameo		
9836.0	9972.1	Rollins		
9980.0	10116.1	Cozzette		
10314.0	10450.1	Corcoran		

