



## **Ursa Operating Company, LLC**

**Rockies Region**

**Monument Ridge B**

**Monument Ridge B 31A-17-07-95**

**Wellbore #1**

**Plan: Design #2**

## **Ursa Operating Company LLC Planning Report**

**21 May, 2016**



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Monument Ridge B 31A-17-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Monument Ridge B 31A-17-07-95 @ 5718.8usft (PLAN
<b>Site:</b>	Monument Ridge B	<b>MD Reference:</b>	Monument Ridge B 31A-17-07-95 @ 5718.8usft (PLAN
<b>Well:</b>	Monument Ridge B 31A-17-07-95	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #2	<b>Database:</b>	MasterDB

Project		Rockies Region	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Monument Ridge B			
Site Position:		Northing:		1,596,716.56 usft	
From:	Lat/Long	Easting:		2,287,433.43 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
0.0 usft		13-3/16 "		39° 26' 40.501 N	
				108° 1' 24.665 W	
				-1.59 °	

Well	Monument Ridge B 31A-17-07-95, SHL: 39.447530940 -108.012276367					
Well Position	+N/-S	0.0 usft	Northing:	1,597,701.64 usft	Latitude:	39° 26' 51.111 N
	+E/-W	0.0 usft	Easting:	2,290,636.64 usft	Longitude:	108° 0' 44.195 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,718.8 usft	Ground Level:	5,701.8 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/6/2015	9.84	65.59	51,823

Design	Design #2			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	237.67

Survey Tool Program		Date	5/20/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	7,628.2	Design #2 (Wellbore #1)	MWD	MWD - Standard	

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<b>Well:</b>	Monument Ridge B 31A-17-07-95	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #2	<b>Database:</b>	MasterDB

## Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-5,718.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
100.0	0.00	0.00	100.0	-5,618.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
200.0	0.00	0.00	200.0	-5,518.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
300.0	0.00	0.00	300.0	-5,418.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
400.0	0.00	0.00	400.0	-5,318.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
500.0	0.00	0.00	500.0	-5,218.8	0.0	0.0	0.0	0.00	1,597,701.64	2,290,636.64
<b>Start Build 3.50</b>										
600.0	3.50	237.67	599.9	-5,118.9	-1.6	-2.6	3.1	3.50	1,597,700.08	2,290,634.01
700.0	7.00	237.67	699.5	-5,019.3	-6.5	-10.3	12.2	3.50	1,597,695.41	2,290,626.15
800.0	10.50	237.67	798.3	-4,920.5	-14.7	-23.2	27.4	3.50	1,597,687.63	2,290,613.08
900.0	14.00	237.67	896.0	-4,822.8	-26.0	-41.1	48.6	3.50	1,597,676.78	2,290,594.84
1,000.0	17.50	237.67	992.3	-4,726.5	-40.5	-64.0	75.8	3.50	1,597,662.91	2,290,571.52
1,100.0	21.00	237.67	1,086.7	-4,632.1	-58.2	-91.9	108.7	3.50	1,597,646.05	2,290,543.19
1,200.0	24.50	237.67	1,178.9	-4,539.9	-78.8	-124.5	147.4	3.50	1,597,626.28	2,290,509.96
1,300.0	28.00	237.67	1,268.5	-4,450.3	-102.5	-161.9	191.6	3.50	1,597,603.68	2,290,471.96
1,400.0	31.50	237.67	1,355.3	-4,363.5	-129.0	-203.8	241.2	3.50	1,597,578.31	2,290,429.32
1,480.0	34.30	237.67	1,422.5	-4,296.3	-152.2	-240.5	284.7	3.50	1,597,556.11	2,290,392.00
<b>Start 2866.3 hold at 1480.0 MD</b>										
1,500.0	34.30	237.67	1,439.0	-4,279.8	-158.3	-250.1	296.0	0.00	1,597,550.33	2,290,382.29
1,600.0	34.30	237.67	1,521.6	-4,197.2	-188.4	-297.7	352.3	0.00	1,597,521.52	2,290,333.86
1,700.0	34.30	237.67	1,604.2	-4,114.6	-218.6	-345.3	408.7	0.00	1,597,492.71	2,290,285.43
1,800.0	34.30	237.67	1,686.9	-4,031.9	-248.7	-392.9	465.0	0.00	1,597,463.90	2,290,237.00
1,815.9	34.30	237.67	1,700.0	-4,018.8	-253.5	-400.5	474.0	0.00	1,597,459.32	2,290,229.30
<b>Surface Casing</b>										
1,900.0	34.30	237.67	1,769.5	-3,949.3	-278.8	-440.5	521.4	0.00	1,597,435.09	2,290,188.58
2,000.0	34.30	237.67	1,852.1	-3,866.7	-309.0	-488.1	577.7	0.00	1,597,406.28	2,290,140.15
2,100.0	34.30	237.67	1,934.7	-3,784.1	-339.1	-535.7	634.1	0.00	1,597,377.47	2,290,091.72
2,200.0	34.30	237.67	2,017.3	-3,701.5	-369.3	-583.4	690.4	0.00	1,597,348.66	2,290,043.29

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<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #2	<b>Database:</b>	MasterDB

## Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,300.0	34.30	237.67	2,099.9	-3,618.9	-399.4	-631.0	746.8	0.00	1,597,319.85	2,289,994.86
2,400.0	34.30	237.67	2,182.5	-3,536.3	-429.5	-678.6	803.1	0.00	1,597,291.04	2,289,946.43
2,500.0	34.30	237.67	2,265.1	-3,453.7	-459.7	-726.2	859.5	0.00	1,597,262.23	2,289,898.00
2,600.0	34.30	237.67	2,347.8	-3,371.0	-489.8	-773.8	915.8	0.00	1,597,233.42	2,289,849.58
2,700.0	34.30	237.67	2,430.4	-3,288.4	-519.9	-821.4	972.2	0.00	1,597,204.61	2,289,801.15
2,800.0	34.30	237.67	2,513.0	-3,205.8	-550.1	-869.0	1,028.5	0.00	1,597,175.80	2,289,752.72
2,900.0	34.30	237.67	2,595.6	-3,123.2	-580.2	-916.7	1,084.9	0.00	1,597,146.99	2,289,704.29
3,000.0	34.30	237.67	2,678.2	-3,040.6	-610.4	-964.3	1,141.2	0.00	1,597,118.18	2,289,655.86
3,100.0	34.30	237.67	2,760.8	-2,958.0	-640.5	-1,011.9	1,197.6	0.00	1,597,089.37	2,289,607.43
3,200.0	34.30	237.67	2,843.4	-2,875.4	-670.6	-1,059.5	1,253.9	0.00	1,597,060.56	2,289,559.00
3,300.0	34.30	237.67	2,926.0	-2,792.8	-700.8	-1,107.1	1,310.3	0.00	1,597,031.75	2,289,510.58
3,400.0	34.30	237.67	3,008.6	-2,710.2	-730.9	-1,154.7	1,366.6	0.00	1,597,002.94	2,289,462.15
3,500.0	34.30	237.67	3,091.3	-2,627.5	-761.1	-1,202.3	1,423.0	0.00	1,596,974.13	2,289,413.72
3,600.0	34.30	237.67	3,173.9	-2,544.9	-791.2	-1,249.9	1,479.3	0.00	1,596,945.32	2,289,365.29
3,700.0	34.30	237.67	3,256.5	-2,462.3	-821.3	-1,297.6	1,535.7	0.00	1,596,916.51	2,289,316.86
3,800.0	34.30	237.67	3,339.1	-2,379.7	-851.5	-1,345.2	1,592.0	0.00	1,596,887.70	2,289,268.43
3,900.0	34.30	237.67	3,421.7	-2,297.1	-881.6	-1,392.8	1,648.4	0.00	1,596,858.89	2,289,220.00
4,000.0	34.30	237.67	3,504.3	-2,214.5	-911.7	-1,440.4	1,704.7	0.00	1,596,830.08	2,289,171.58
4,100.0	34.30	237.67	3,586.9	-2,131.9	-941.9	-1,488.0	1,761.1	0.00	1,596,801.27	2,289,123.15
4,158.0	34.30	237.67	3,634.8	-2,084.0	-959.3	-1,515.6	1,793.7	0.00	1,596,784.57	2,289,095.08
<b>Williams Fork</b>										
4,200.0	34.30	237.67	3,669.5	-2,049.3	-972.0	-1,535.6	1,817.4	0.00	1,596,772.46	2,289,074.72
4,300.0	34.30	237.67	3,752.1	-1,966.7	-1,002.2	-1,583.2	1,873.8	0.00	1,596,743.65	2,289,026.29
4,346.2	34.30	237.67	3,790.3	-1,928.5	-1,016.1	-1,605.2	1,899.8	0.00	1,596,730.33	2,289,003.90
<b>Start Drop -3.50</b>										
4,400.0	32.42	237.67	3,835.2	-1,883.6	-1,031.9	-1,630.2	1,929.4	3.50	1,596,715.21	2,288,978.49
4,500.0	28.92	237.67	3,921.3	-1,797.5	-1,059.2	-1,673.3	1,980.4	3.50	1,596,689.14	2,288,934.67

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<b>Well:</b>	Monument Ridge B 31A-17-07-95	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
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## Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,600.0	25.42	237.67	4,010.2	-1,708.6	-1,083.6	-1,711.9	2,026.0	3.50	1,596,665.80	2,288,895.43
4,700.0	21.92	237.67	4,101.8	-1,617.0	-1,105.1	-1,745.8	2,066.2	3.50	1,596,645.28	2,288,860.94
4,800.0	18.42	237.67	4,195.6	-1,523.2	-1,123.5	-1,774.9	2,100.6	3.50	1,596,627.66	2,288,831.32
4,900.0	14.92	237.67	4,291.4	-1,427.4	-1,138.8	-1,799.2	2,129.3	3.50	1,596,613.00	2,288,806.67
5,000.0	11.42	237.67	4,388.8	-1,330.0	-1,151.0	-1,818.4	2,152.1	3.50	1,596,601.36	2,288,787.10
5,100.0	7.92	237.67	4,487.3	-1,231.5	-1,160.0	-1,832.6	2,168.9	3.50	1,596,592.77	2,288,772.67
5,200.0	4.42	237.67	4,586.7	-1,132.1	-1,165.7	-1,841.7	2,179.6	3.50	1,596,587.28	2,288,763.44
5,300.0	0.92	237.67	4,686.6	-1,032.2	-1,168.2	-1,845.6	2,184.2	3.50	1,596,584.90	2,288,759.45
5,326.2	0.00	0.00	4,712.8	-1,006.0	-1,168.3	-1,845.8	2,184.5	3.50	1,596,584.80	2,288,759.27
<b>Back to Vertical - Start 2302.0 hold at 5326.2 MD - Top of Gas</b>										
5,400.0	0.00	0.00	4,786.6	-932.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
5,500.0	0.00	0.00	4,886.6	-832.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
5,600.0	0.00	0.00	4,986.6	-732.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
5,700.0	0.00	0.00	5,086.6	-632.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
5,800.0	0.00	0.00	5,186.6	-532.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
5,900.0	0.00	0.00	5,286.6	-432.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,000.0	0.00	0.00	5,386.6	-332.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,100.0	0.00	0.00	5,486.6	-232.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,200.0	0.00	0.00	5,586.6	-132.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,300.0	0.00	0.00	5,686.6	-32.2	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,400.0	0.00	0.00	5,786.6	67.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,500.0	0.00	0.00	5,886.6	167.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,600.0	0.00	0.00	5,986.6	267.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,628.2	0.00	0.00	6,014.8	296.0	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
<b>Cameo</b>										
6,700.0	0.00	0.00	6,086.6	367.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
6,800.0	0.00	0.00	6,186.6	467.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27

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6,900.0	0.00	0.00	6,286.6	567.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,000.0	0.00	0.00	6,386.6	667.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,100.0	0.00	0.00	6,486.6	767.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,200.0	0.00	0.00	6,586.6	867.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,300.0	0.00	0.00	6,686.6	967.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,328.2	0.00	0.00	6,714.8	996.0	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
<b>Rollins</b>										
7,400.0	0.00	0.00	6,786.6	1,067.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,500.0	0.00	0.00	6,886.6	1,167.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,600.0	0.00	0.00	6,986.6	1,267.8	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
7,628.2	0.00	0.00	7,014.8	1,296.0	-1,168.3	-1,845.8	2,184.5	0.00	1,596,584.80	2,288,759.27
<b>TD at 7628.2 - TD</b>										

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,328.2	6,714.8	Rollins		0.00	
7,628.2	7,014.8	TD		0.00	
6,628.2	6,014.8	Cameo		0.00	
4,158.0	3,634.8	Williams Fork		0.00	
5,326.2	4,712.8	Top of Gas		0.00	

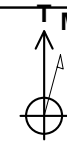
<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well Monument Ridge B 31A-17-07-95
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	Monument Ridge B 31A-17-07-95 @ 5718.8usft (PLAN
<b>Site:</b>	Monument Ridge B	<b>MD Reference:</b>	Monument Ridge B 31A-17-07-95 @ 5718.8usft (PLAN
<b>Well:</b>	Monument Ridge B 31A-17-07-95	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Design #2	<b>Database:</b>	MasterDB

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
500.0	500.0	0.0	0.0	Start Build 3.50	
1,480.0	1,422.5	-152.2	-240.5	Start 2866.3 hold at 1480.0 MD	
1,815.9	1,700.0	-253.5	-400.5	Surface Casing	
4,346.2	3,790.3	-1,016.1	-1,605.2	Start Drop -3.50	
5,326.2	4,712.8	-1,168.3	-1,845.8	Back to Vertical	
5,326.2	4,712.8	-1,168.3	-1,845.8	Start 2302.0 hold at 5326.2 MD	
7,628.2	7,014.8	-1,168.3	-1,845.8	TD at 7628.2	

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



Well Name: Monument Ridge B 31A-17-07-95  
Surface Location: Monument Ridge B  
North American Datum 1983, US State Plane 1983, Colorado Central Zone  
Ground Elevation: 5701.8  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1597701.64 2290636.64 39° 26' 51.111 N 108° 0' 44.195 W  
PLAN KB Monument Ridge B 31A-17-07-95 @ 5718.8usft (PLAN KB)



Azimuths to True North  
Magnetic North: 9.84°  
Magnetic Field  
Strength: 51823.0nT  
Dip Angle: 65.59°  
Date: 6/6/2015  
Model: IGRF2010

Monument Ridge B  
Monument Ridge B 31A-17-07-95  
Design #2  
17:42, May 21 2016

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Monument Ridge B 31A-17-07-95 TGT	4712.8	-1638.3	-1845.8	1596584.80	2288759.27	39° 26' 39.563 N	108° 1' 7.724 W	Rectangle (Sides: L40.0 W100.0)

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1480.0	34.30	237.67	1422.5	-152.2	-240.5	3.50	237.67	284.7	
4	4346.2	34.30	237.67	3790.3	-1016.1	-1605.2	0.00	0.00	1899.8	
5	5326.2	0.00	0.00	4712.8	-1168.3	-1845.8	3.50	180.00	2184.5	Monument Ridge B-31A-17-07-95 TGT
6	7628.2	0.00	0.00	7014.8	-1168.3	-1845.8	0.00	0.00	2184.5	

#### ANNOTATIONS

TVD	MD	Annotation
500.0	500.0	Start Build 3.50
1422.5	1480.0	Start 2866.3 hold at 1480.0 MD
1700.0	1815.9	Surface Casing
3790.3	4346.2	Start Drop -3.50
4712.8	5326.2	Back to Vertical
4712.8	5326.2	Start 2302.0 hold at 5326.2 MD
7014.8	7628.2	TD at 7628.2

#### FORMATION TOP DETAILS

TVDPPath	MDPath	Formation	DipAngle	DipDir
3634.8	4158.0	Williams Fork	0.00	
4712.8	5326.2	Top of Gas	0.00	
6014.8	6628.2	Cameo	0.00	
6714.8	7328.2	Rollins	0.00	
7014.8	7628.2	TD	0.00	

