



Ursa Operating Company, LLC

Rockies Region

Monument Ridge B

Monument Ridge B 21B-17-07-95

Wellbore #1

Plan: Design #2

Ursa Operating Company LLC Planning Report

21 May, 2016



Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well Monument Ridge B 21B-17-07-95
Project:	Rockies Region	TVD Reference:	Monument Ridge B 21B-17-07-95 @ 5718.8usft (PLAN
Site:	Monument Ridge B	MD Reference:	Monument Ridge B 21B-17-07-95 @ 5718.8usft (PLAN
Well:	Monument Ridge B 21B-17-07-95	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #2	Database:	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	Latitude:	39° 26' 40.501 N
From:	Lat/Long	Easting:	2,287,433.43	usft	Longitude:	108° 1' 24.665 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16	"	Grid Convergence:	-1.59 °

Well		Monument Ridge B 21B-17-07-95, SHL: 39.447558382 -108.012276369				
Well Position	+N/-S	0.0 usft	Northing:	1,597,711.64 usft	Latitude:	39° 26' 51.210 N
	+E/-W	0.0 usft	Easting:	2,290,636.91 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	245.58

Survey Tool Program		Date 5/20/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	8,240.9	Design #2 (Wellbore #1)	MWD	MWD - Standard

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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)
0.0	0.00	0.00	0.0	-5,718.8	0.0	0.0	0.0	0.00	1,597,711.64	2,290,636.91
100.0	0.00	0.00	100.0	-5,618.8	0.0	0.0	0.0	0.00	1,597,711.64	2,290,636.91
200.0	0.00	0.00	200.0	-5,518.8	0.0	0.0	0.0	0.00	1,597,711.64	2,290,636.91
285.0	0.00	0.00	285.0	-5,433.8	0.0	0.0	0.0	0.00	1,597,711.64	2,290,636.91
Start Build 3.50										
300.0	0.53	245.58	300.0	-5,418.8	0.0	-0.1	0.1	3.50	1,597,711.61	2,290,636.85
400.0	4.03	245.58	399.9	-5,318.9	-1.7	-3.7	4.0	3.50	1,597,710.07	2,290,633.19
500.0	7.53	245.58	499.4	-5,219.4	-5.8	-12.8	14.1	3.50	1,597,706.16	2,290,623.92
600.0	11.03	245.58	598.1	-5,120.7	-12.5	-27.5	30.2	3.50	1,597,699.91	2,290,609.07
700.0	14.53	245.58	695.6	-5,023.2	-21.6	-47.6	52.3	3.50	1,597,691.33	2,290,588.69
800.0	18.03	245.58	791.5	-4,927.3	-33.2	-73.2	80.3	3.50	1,597,680.46	2,290,562.87
900.0	21.53	245.58	885.6	-4,833.2	-47.2	-104.0	114.2	3.50	1,597,667.33	2,290,531.69
1,000.0	25.03	245.58	977.5	-4,741.3	-63.5	-139.9	153.7	3.50	1,597,652.00	2,290,495.28
1,100.0	28.53	245.58	1,066.7	-4,652.1	-82.2	-180.9	198.7	3.50	1,597,634.52	2,290,453.77
1,200.0	32.03	245.58	1,153.1	-4,565.7	-103.0	-226.8	249.1	3.50	1,597,614.95	2,290,407.31
1,300.0	35.53	245.58	1,236.2	-4,482.6	-126.0	-277.5	304.7	3.50	1,597,593.38	2,290,356.08
1,400.0	39.03	245.58	1,315.8	-4,403.0	-151.0	-332.6	365.3	3.50	1,597,569.88	2,290,300.27
1,500.0	42.53	245.58	1,391.5	-4,327.3	-178.0	-392.0	430.6	3.50	1,597,544.54	2,290,240.09
1,530.0	43.57	245.58	1,413.4	-4,305.4	-186.5	-410.7	451.0	3.50	1,597,536.60	2,290,221.24
Start 3738.1 hold at 1530.0 MD										
1,600.0	43.57	245.58	1,464.1	-4,254.7	-206.4	-454.6	499.3	0.00	1,597,517.87	2,290,176.75
1,700.0	43.57	245.58	1,536.6	-4,182.2	-234.9	-517.4	568.2	0.00	1,597,491.12	2,290,113.22
1,800.0	43.57	245.58	1,609.0	-4,109.8	-263.4	-580.2	637.2	0.00	1,597,464.37	2,290,049.69
1,900.0	43.57	245.58	1,681.5	-4,037.3	-291.9	-642.9	706.1	0.00	1,597,437.62	2,289,986.17
1,925.6	43.57	245.58	1,700.0	-4,018.8	-299.2	-659.0	723.7	0.00	1,597,430.78	2,289,969.91
Surface Casing										
2,000.0	43.57	245.58	1,753.9	-3,964.9	-320.4	-705.7	775.0	0.00	1,597,410.87	2,289,922.64
2,100.0	43.57	245.58	1,826.4	-3,892.4	-348.9	-768.4	843.9	0.00	1,597,384.12	2,289,859.11

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #2	Database:	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)
2,200.0	43.57	245.58	1,898.8	-3,820.0	-377.4	-831.2	912.9	0.00	1,597,357.37	2,289,795.59
2,300.0	43.57	245.58	1,971.3	-3,747.5	-405.9	-894.0	981.8	0.00	1,597,330.62	2,289,732.06
2,400.0	43.57	245.58	2,043.7	-3,675.1	-434.4	-956.7	1,050.7	0.00	1,597,303.87	2,289,668.53
2,500.0	43.57	245.58	2,116.2	-3,602.6	-462.9	-1,019.5	1,119.7	0.00	1,597,277.12	2,289,605.01
2,600.0	43.57	245.58	2,188.6	-3,530.2	-491.4	-1,082.3	1,188.6	0.00	1,597,250.37	2,289,541.48
2,700.0	43.57	245.58	2,261.1	-3,457.7	-519.9	-1,145.0	1,257.5	0.00	1,597,223.62	2,289,477.95
2,800.0	43.57	245.58	2,333.5	-3,385.3	-548.4	-1,207.8	1,326.4	0.00	1,597,196.87	2,289,414.43
2,900.0	43.57	245.58	2,405.9	-3,312.9	-576.9	-1,270.5	1,395.4	0.00	1,597,170.12	2,289,350.90
3,000.0	43.57	245.58	2,478.4	-3,240.4	-605.4	-1,333.3	1,464.3	0.00	1,597,143.37	2,289,287.37
3,100.0	43.57	245.58	2,550.8	-3,168.0	-633.9	-1,396.1	1,533.2	0.00	1,597,116.62	2,289,223.84
3,200.0	43.57	245.58	2,623.3	-3,095.5	-662.4	-1,458.8	1,602.2	0.00	1,597,089.87	2,289,160.32
3,300.0	43.57	245.58	2,695.7	-3,023.1	-690.8	-1,521.6	1,671.1	0.00	1,597,063.12	2,289,096.79
3,400.0	43.57	245.58	2,768.2	-2,950.6	-719.3	-1,584.4	1,740.0	0.00	1,597,036.37	2,289,033.26
3,500.0	43.57	245.58	2,840.6	-2,878.2	-747.8	-1,647.1	1,808.9	0.00	1,597,009.62	2,288,969.74
3,600.0	43.57	245.58	2,913.1	-2,805.7	-776.3	-1,709.9	1,877.9	0.00	1,596,982.87	2,288,906.21
3,700.0	43.57	245.58	2,985.5	-2,733.3	-804.8	-1,772.7	1,946.8	0.00	1,596,956.13	2,288,842.68
3,800.0	43.57	245.58	3,058.0	-2,660.8	-833.3	-1,835.4	2,015.7	0.00	1,596,929.38	2,288,779.16
3,900.0	43.57	245.58	3,130.4	-2,588.4	-861.8	-1,898.2	2,084.7	0.00	1,596,902.63	2,288,715.63
4,000.0	43.57	245.58	3,202.9	-2,515.9	-890.3	-1,960.9	2,153.6	0.00	1,596,875.88	2,288,652.10
4,100.0	43.57	245.58	3,275.3	-2,443.5	-918.8	-2,023.7	2,222.5	0.00	1,596,849.13	2,288,588.58
4,200.0	43.57	245.58	3,347.8	-2,371.0	-947.3	-2,086.5	2,291.5	0.00	1,596,822.38	2,288,525.05
4,300.0	43.57	245.58	3,420.2	-2,298.6	-975.8	-2,149.2	2,360.4	0.00	1,596,795.63	2,288,461.52
4,400.0	43.57	245.58	3,492.7	-2,226.1	-1,004.3	-2,212.0	2,429.3	0.00	1,596,768.88	2,288,397.99
4,500.0	43.57	245.58	3,565.1	-2,153.7	-1,032.8	-2,274.8	2,498.2	0.00	1,596,742.13	2,288,334.47
4,545.1	43.57	245.58	3,597.8	-2,121.0	-1,045.7	-2,303.1	2,529.3	0.00	1,596,730.06	2,288,305.82
Williams Fork										
4,600.0	43.57	245.58	3,637.6	-2,081.2	-1,061.3	-2,337.5	2,567.2	0.00	1,596,715.38	2,288,270.94

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Design:	Design #2	Database:	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)
4,700.0	43.57	245.58	3,710.0	-2,008.8	-1,089.8	-2,400.3	2,636.1	0.00	1,596,688.63	2,288,207.41
4,800.0	43.57	245.58	3,782.5	-1,936.3	-1,118.3	-2,463.0	2,705.0	0.00	1,596,661.88	2,288,143.89
4,900.0	43.57	245.58	3,854.9	-1,863.9	-1,146.8	-2,525.8	2,774.0	0.00	1,596,635.13	2,288,080.36
5,000.0	43.57	245.58	3,927.4	-1,791.4	-1,175.3	-2,588.6	2,842.9	0.00	1,596,608.38	2,288,016.83
5,100.0	43.57	245.58	3,999.8	-1,719.0	-1,203.8	-2,651.3	2,911.8	0.00	1,596,581.63	2,287,953.31
5,200.0	43.57	245.58	4,072.3	-1,646.5	-1,232.3	-2,714.1	2,980.7	0.00	1,596,554.88	2,287,889.78
5,268.1	43.57	245.58	4,121.6	-1,597.2	-1,251.7	-2,756.8	3,027.7	0.00	1,596,536.66	2,287,846.51
Start Drop -3.50										
5,300.0	42.46	245.58	4,144.9	-1,573.9	-1,260.7	-2,776.7	3,049.4	3.50	1,596,528.22	2,287,826.46
5,400.0	38.96	245.58	4,220.7	-1,498.1	-1,287.6	-2,836.0	3,114.7	3.50	1,596,502.91	2,287,766.36
5,500.0	35.46	245.58	4,300.4	-1,418.4	-1,312.6	-2,891.1	3,175.1	3.50	1,596,479.45	2,287,710.64
5,600.0	31.96	245.58	4,383.5	-1,335.3	-1,335.6	-2,941.6	3,230.6	3.50	1,596,457.91	2,287,659.50
5,700.0	28.46	245.58	4,469.9	-1,248.9	-1,356.4	-2,987.4	3,280.9	3.50	1,596,438.39	2,287,613.14
5,800.0	24.96	245.58	4,559.2	-1,159.6	-1,374.9	-3,028.3	3,325.8	3.50	1,596,420.95	2,287,571.72
5,900.0	21.46	245.58	4,651.1	-1,067.7	-1,391.2	-3,064.2	3,365.2	3.50	1,596,405.66	2,287,535.41
5,926.4	20.53	245.58	4,675.8	-1,043.0	-1,395.1	-3,072.8	3,374.7	3.50	1,596,401.99	2,287,526.69
Top of Gas										
6,000.0	17.96	245.58	4,745.3	-973.5	-1,405.2	-3,094.9	3,399.0	3.50	1,596,392.57	2,287,504.33
6,100.0	14.46	245.58	4,841.3	-877.5	-1,416.7	-3,120.3	3,426.9	3.50	1,596,381.74	2,287,478.61
6,200.0	10.96	245.58	4,938.8	-780.0	-1,425.8	-3,140.3	3,448.9	3.50	1,596,373.21	2,287,458.34
6,300.0	7.46	245.58	5,037.5	-681.3	-1,432.4	-3,154.9	3,464.9	3.50	1,596,367.00	2,287,443.59
6,400.0	3.96	245.58	5,137.0	-581.8	-1,436.5	-3,164.0	3,474.8	3.50	1,596,363.14	2,287,434.43
6,500.0	0.46	245.58	5,236.9	-481.9	-1,438.1	-3,167.5	3,478.7	3.50	1,596,361.64	2,287,430.88
6,513.1	0.00	0.00	5,250.0	-468.8	-1,438.1	-3,167.5	3,478.7	3.50	1,596,361.62	2,287,430.83
Start 1727.8 hold at 6513.1 MD - Back to Vertical										
6,600.0	0.00	0.00	5,336.9	-381.9	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
6,700.0	0.00	0.00	5,436.9	-281.9	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83

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6,800.0	0.00	0.00		5,536.9	-181.9	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
6,900.0	0.00	0.00		5,636.9	-81.9	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,000.0	0.00	0.00		5,736.9	18.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,100.0	0.00	0.00		5,836.9	118.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,200.0	0.00	0.00		5,936.9	218.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,240.9	0.00	0.00		5,977.8	259.0	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
Cameo											
7,300.0	0.00	0.00		6,036.9	318.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,400.0	0.00	0.00		6,136.9	418.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,500.0	0.00	0.00		6,236.9	518.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,600.0	0.00	0.00		6,336.9	618.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,700.0	0.00	0.00		6,436.9	718.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,800.0	0.00	0.00		6,536.9	818.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,900.0	0.00	0.00		6,636.9	918.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
7,940.9	0.00	0.00		6,677.8	959.0	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
Rollins											
8,000.0	0.00	0.00		6,736.9	1,018.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
8,100.0	0.00	0.00		6,836.9	1,118.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
8,200.0	0.00	0.00		6,936.9	1,218.1	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
8,240.9	0.00	0.00		6,977.8	1,259.0	-1,438.1	-3,167.5	3,478.7	0.00	1,596,361.62	2,287,430.83
TD at 8240.9											

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Design #2	Database:	MasterDB

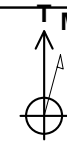
Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,926.4	4,675.8	Top of Gas		0.00		
7,940.9	6,677.8	Rollins		0.00		
4,545.1	3,597.8	Williams Fork		0.00		
7,240.9	5,977.8	Cameo		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
285.0	285.0	0.0	0.0	Start Build 3.50	
1,530.0	1,413.4	-186.5	-410.7	Start 3738.1 hold at 1530.0 MD	
1,925.6	1,700.0	-299.2	-659.0	Surface Casing	
5,268.1	4,121.6	-1,251.7	-2,756.8	Start Drop -3.50	
6,513.1	5,250.0	-1,438.1	-3,167.5	Start 1727.8 hold at 6513.1 MD	
6,513.1	5,250.0	-1,438.1	-3,167.5	Back to Vertical	
8,240.9	6,977.8	-1,438.1	-3,167.5	TD at 8240.9	

Checked By: _____ Approved By: _____ Date: _____



Well Name: Monument Ridge B 21B-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 1597711.64 2290636.91 39° 26' 51.210 N 108° 0' 44.195 W
PLAN KB Monument Ridge B 21B-17-07-95 @ 5718.8usft (PLAN KB)



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

Monument Ridge B
Monument Ridge B 21B-17-07-95
Design #2
17:33, 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 21B-17-07-95 TGT	2715.87	-1018.1	-3167.5	1596351.64	2287430.55	39° 26' 36.895 N	108° 1' 24.573 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	285.0	0.00	0.00	285.0	0.0	0.0	0.00	0.00	0.0	
3	1530.0	43.57	245.58	1413.4	-186.5	-410.7	3.50	245.58	451.0	
4	5268.1	43.57	245.58	4121.6	-1251.7	-2756.8	0.00	0.00	3027.7	
5	6513.1	0.00	0.00	5250.0	-1438.1	-3167.5	3.50	180.00	3478.7	
6	8240.9	0.00	0.00	6977.8	-1438.1	-3167.5	0.00	0.00	3478.7	

ANNOTATIONS

TVD	MD	Annotation
285.0	285.0	Start Build 3.50
1413.4	1530.0	Start 3738.1 hold at 1530.0 MD
1700.0	1925.6	Surface Casing
4121.6	5268.1	Start Drop -3.50
5250.0	6513.1	Start 1727.8 hold at 6513.1 MD
5250.0	6513.1	Back to Vertical
6977.8	8240.9	TD at 8240.9

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation	DipAngle	DipDir
3597.8	4545.1	Williams Fork	0.00	
4675.8	5926.4	Top of Gas	0.00	
5977.8	7240.9	Cameo	0.00	
6677.8	7940.9	Rollins	0.00	

