

Ursa Operating Company, LLC

Rockies Region

Speakman A

BAT 13D-24-07-96

Wellbore #1

Plan: Design #1

Standard Planning Report

15 June, 2013



Payzone Directional

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
| Database: | EDM 2003.21 Single User Db | Local Co-ordinate Reference: | Well BAT 13D-24-07-96 |
| Company: | Ursa Operating Company, LLC | TVD Reference: | BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev) |
| Project: | Rockies Region | MD Reference: | BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev) |
| Site: | Speakman A | North Reference: | True |
| Well: | BAT 13D-24-07-96 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 | | Speakman A | | | |
|-----------------------|----------|--------------|--------------|-------------------|------------------|
| Site Position: | | Northing: | 484,154.15 m | Latitude: | 39° 25' 15.663 N |
| From: | Lat/Long | Easting: | 693,950.13 m | Longitude: | 108° 3' 38.016 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | in | Grid Convergence: | -1.61 ° |

| | | | | | | |
|----------------------|--|----------|---------------------|--------------|---------------|------------------|
| Well | BAT 13D-24-07-96, SHL LAT: 39.420866217 LONG: -108.060380209 | | | | | |
| Well Position | +N/-S | -55.1 ft | Northing: | 484,136.92 m | Latitude: | 39° 25' 15.118 N |
| | +E/-W | 50.8 ft | Easting: | 693,965.14 m | Longitude: | 108° 3' 37.369 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | 5,197.9 ft | Ground Level: | 5,182.5 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 6/13/2013 | 10.08 | 65.63 | 52,047 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Design #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 250.29 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| 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 |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,005.0 | 28.18 | 250.29 | 973.0 | -65.4 | -182.6 | 3.50 | 3.50 | 0.00 | 250.29 | |
| 3,178.7 | 28.18 | 250.29 | 2,889.0 | -411.5 | -1,148.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,983.7 | 0.00 | 0.00 | 3,662.0 | -476.9 | -1,331.5 | 3.50 | -3.50 | 0.00 | 180.00 | BAT 13D-24-07-96 T |
| 6,088.7 | 0.00 | 0.00 | 5,767.0 | -476.9 | -1,331.5 | 0.00 | 0.00 | 0.00 | 0.00 | BAT 13D-24-07-96 B |

Payzone Directional Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
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| Company: | Ursa Operating Company, LLC | TVD Reference: | BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev) |
| Project: | Rockies Region | MD Reference: | BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev) |
| Site: | Speakman A | North Reference: | True |
| Well: | BAT 13D-24-07-96 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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) |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 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 |
| Start Build 3.50 | | | | | | | | | |
| 300.0 | 3.50 | 250.29 | 299.9 | -1.0 | -2.9 | 3.1 | 3.50 | 3.50 | 0.00 |
| 400.0 | 7.00 | 250.29 | 399.5 | -4.1 | -11.5 | 12.2 | 3.50 | 3.50 | 0.00 |
| 500.0 | 10.50 | 250.29 | 498.3 | -9.2 | -25.8 | 27.4 | 3.50 | 3.50 | 0.00 |
| 600.0 | 14.00 | 250.29 | 596.0 | -16.4 | -45.8 | 48.6 | 3.50 | 3.50 | 0.00 |
| 700.0 | 17.50 | 250.29 | 692.3 | -25.5 | -71.3 | 75.8 | 3.50 | 3.50 | 0.00 |
| 800.0 | 21.00 | 250.29 | 786.7 | -36.7 | -102.4 | 108.7 | 3.50 | 3.50 | 0.00 |
| 900.0 | 24.50 | 250.29 | 878.9 | -49.7 | -138.8 | 147.4 | 3.50 | 3.50 | 0.00 |
| 1,005.0 | 28.18 | 250.29 | 973.0 | -65.4 | -182.6 | 194.0 | 3.50 | 3.50 | 0.00 |
| Start 2173.6 hold at 1005.0 MD | | | | | | | | | |
| 1,100.0 | 28.18 | 250.29 | 1,056.7 | -80.5 | -224.8 | 238.8 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 28.18 | 250.29 | 1,144.8 | -96.5 | -269.3 | 286.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 28.18 | 250.29 | 1,233.0 | -112.4 | -313.7 | 333.3 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 28.18 | 250.29 | 1,321.1 | -128.3 | -358.2 | 380.5 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 28.18 | 250.29 | 1,409.3 | -144.2 | -402.7 | 427.7 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 28.18 | 250.29 | 1,497.4 | -160.1 | -447.1 | 474.9 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 28.18 | 250.29 | 1,585.6 | -176.1 | -491.6 | 522.1 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 28.18 | 250.29 | 1,673.7 | -192.0 | -536.0 | 569.4 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 28.18 | 250.29 | 1,761.9 | -207.9 | -580.5 | 616.6 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 28.18 | 250.29 | 1,850.0 | -223.8 | -624.9 | 663.8 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 28.18 | 250.29 | 1,938.2 | -239.8 | -669.4 | 711.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 28.18 | 250.29 | 2,026.3 | -255.7 | -713.8 | 758.2 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 28.18 | 250.29 | 2,114.5 | -271.6 | -758.3 | 805.4 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 28.18 | 250.29 | 2,202.6 | -287.5 | -802.7 | 852.7 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 28.18 | 250.29 | 2,290.8 | -303.5 | -847.2 | 899.9 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 28.18 | 250.29 | 2,378.9 | -319.4 | -891.6 | 947.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 28.18 | 250.29 | 2,467.1 | -335.3 | -936.1 | 994.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 28.18 | 250.29 | 2,555.2 | -351.2 | -980.5 | 1,041.5 | 0.00 | 0.00 | 0.00 |
| 2,813.3 | 28.18 | 250.29 | 2,567.0 | -353.3 | -986.5 | 1,047.8 | 0.00 | 0.00 | 0.00 |
| WF | | | | | | | | | |
| 2,900.0 | 28.18 | 250.29 | 2,643.4 | -367.1 | -1,025.0 | 1,088.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 28.18 | 250.29 | 2,731.5 | -383.1 | -1,069.4 | 1,136.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 28.18 | 250.29 | 2,819.7 | -399.0 | -1,113.9 | 1,183.2 | 0.00 | 0.00 | 0.00 |
| 3,178.7 | 28.18 | 250.29 | 2,889.0 | -411.5 | -1,148.9 | 1,220.3 | 0.00 | 0.00 | 0.00 |
| Start Drop -3.50 | | | | | | | | | |
| 3,200.0 | 27.43 | 250.29 | 2,907.9 | -414.9 | -1,158.2 | 1,230.3 | 3.50 | -3.50 | 0.00 |
| 3,300.0 | 23.93 | 250.29 | 2,998.0 | -429.5 | -1,199.0 | 1,273.6 | 3.50 | -3.50 | 0.00 |
| 3,400.0 | 20.43 | 250.29 | 3,090.6 | -442.2 | -1,234.6 | 1,311.4 | 3.50 | -3.50 | 0.00 |
| 3,500.0 | 16.93 | 250.29 | 3,185.3 | -453.0 | -1,264.7 | 1,343.4 | 3.50 | -3.50 | 0.00 |
| 3,600.0 | 13.43 | 250.29 | 3,281.8 | -461.8 | -1,289.3 | 1,369.6 | 3.50 | -3.50 | 0.00 |
| 3,700.0 | 9.93 | 250.29 | 3,379.7 | -468.7 | -1,308.4 | 1,389.8 | 3.50 | -3.50 | 0.00 |
| 3,800.0 | 6.43 | 250.29 | 3,478.7 | -473.5 | -1,321.8 | 1,404.0 | 3.50 | -3.50 | 0.00 |
| 3,900.0 | 2.93 | 250.29 | 3,578.3 | -476.2 | -1,329.5 | 1,412.2 | 3.50 | -3.50 | 0.00 |
| 3,983.7 | 0.00 | 0.00 | 3,662.0 | -476.9 | -1,331.5 | 1,414.3 | 3.50 | -3.50 | 0.00 |
| Start 2105.0 hold at 3983.7 MD - Top of Perf | | | | | | | | | |
| 4,000.0 | 0.00 | 0.00 | 3,678.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 0.00 | 0.00 | 3,778.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 0.00 | 0.00 | 3,878.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |

Payzone Directional

Planning Report



| | | | |
|------------------|-----------------------------|-------------------------------------|--|
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| Project: | Rockies Region | MD Reference: | BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev) |
| Site: | Speakman A | North Reference: | True |
| Well: | BAT 13D-24-07-96 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Design #1 | | |

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) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 4,300.0 | 0.00 | 0.00 | 3,978.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 0.00 | 0.00 | 4,078.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 0.00 | 0.00 | 4,178.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 0.00 | 0.00 | 4,278.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 0.00 | 0.00 | 4,378.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,478.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,578.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 4,678.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 4,778.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 4,878.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,267.7 | 0.00 | 0.00 | 4,946.0 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| Cameo | | | | | | | | | |
| 5,300.0 | 0.00 | 0.00 | 4,978.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,078.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,178.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,278.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 0.00 | 0.00 | 5,378.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,788.7 | 0.00 | 0.00 | 5,467.0 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| Rollins | | | | | | | | | |
| 5,800.0 | 0.00 | 0.00 | 5,478.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,578.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 0.00 | 0.00 | 5,678.3 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| 6,088.7 | 0.00 | 0.00 | 5,767.0 | -476.9 | -1,331.5 | 1,414.3 | 0.00 | 0.00 | 0.00 |
| TD at 6088.7 | | | | | | | | | |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-------------|-----------|---------|-------------------|
| 2,813.3 | 2,567.0 | WF | | 0.00 | |
| 3,983.7 | 3,662.0 | Top of Perf | | 0.00 | |
| 5,267.7 | 4,946.0 | Cameo | | 0.00 | |
| 5,788.7 | 5,467.0 | Rollins | | 0.00 | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
|---------------------|---------------------|------------|------------|--------------------------------|
| 200.0 | 200.0 | 0.0 | 0.0 | Start Build 3.50 |
| 1,005.0 | 973.0 | -65.4 | -182.6 | Start 2173.6 hold at 1005.0 MD |
| 3,178.7 | 2,889.0 | -411.5 | -1,148.9 | Start Drop -3.50 |
| 3,983.7 | 3,662.0 | -476.9 | -1,331.5 | Start 2105.0 hold at 3983.7 MD |
| 6,088.7 | 5,767.0 | -476.9 | -1,331.5 | TD at 6088.7 |



Well Name: BAT 13D-24-07-96
Surface Location: Speakman A
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 5182.5
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 484136.92 693965.14 39° 25' 15.118 N 108° 3' 37.369 W
Original Well Elev BAT 13D-24-07-96 @ 5197.9ft (Original Well Elev)



Azimuths to True North
Magnetic North: 10.08°
Magnetic Field
Strength: 52046.7snT
Dip Angle: 65.63°
Date: 6/13/2013
Model: IGRF200510

Speakman A
BAT 13D-24-07-96
Design #1
18:38, June 15 2013

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

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Shape |
|----------------------|--------|--------|---------|-----------|-----------|------------------|------------------|-------|
| BAT 13D-24-07-96 TGT | 3662.0 | -476.9 | -1331.5 | 484003.04 | 693555.37 | 39° 25' 10.404 N | 108° 3' 54.336 W | Point |
| BAT 13D-24-07-96 BHL | 5767.0 | -476.9 | -1331.5 | 484003.04 | 693555.37 | 39° 25' 10.404 N | 108° 3' 54.336 W | Point |

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 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1005.0 | 28.18 | 250.29 | 973.0 | -65.4 | -182.6 | 3.50 | 250.29 | 194.0 | |
| 4 | 3178.7 | 28.18 | 250.29 | 2889.0 | -411.5 | -1148.9 | 0.00 | 0.00 | 1220.3 | |
| 5 | 3983.7 | 0.00 | 0.00 | 3662.0 | -476.9 | -1331.5 | 3.50 | 180.00 | 1414.3 | BAT 13D-24-07-96 TGT |
| 6 | 6088.7 | 0.00 | 0.00 | 5767.0 | -476.9 | -1331.5 | 0.00 | 0.00 | 1414.3 | BAT 13D-24-07-96 BHL |

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------------------------|
| 200.0 | 200.0 | Start Build 3.50 |
| 973.0 | 1005.0 | Start 2173.6 hold at 1005.0 MD |
| 2889.0 | 3178.7 | Start Drop -3.50 |
| 3662.0 | 3983.7 | Start 2105.0 hold at 3983.7 MD |
| 5767.0 | 6088.7 | TD at 6088.7 |

FORMATION TOP DETAILS

| TVDPathMDPath | Formation |
|---------------|-------------|
| 2567.0 2813.3 | WF |
| 3662.0 3983.7 | Top of Perf |
| 4946.0 5267.7 | Cameo |
| 5467.0 5788.7 | Rollins |

