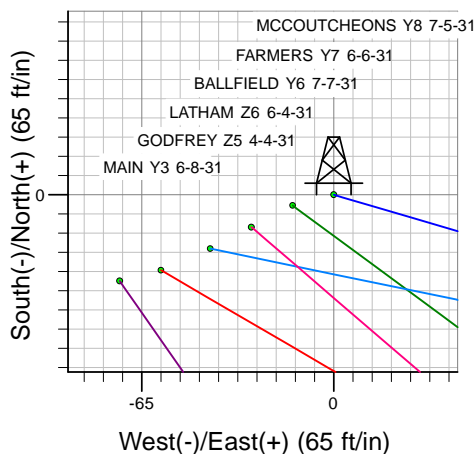
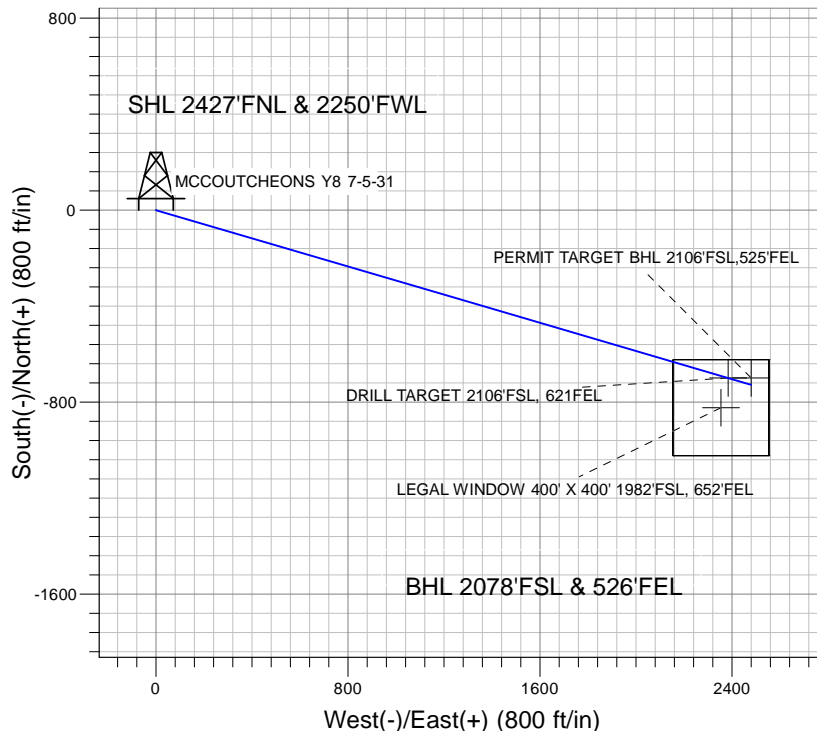
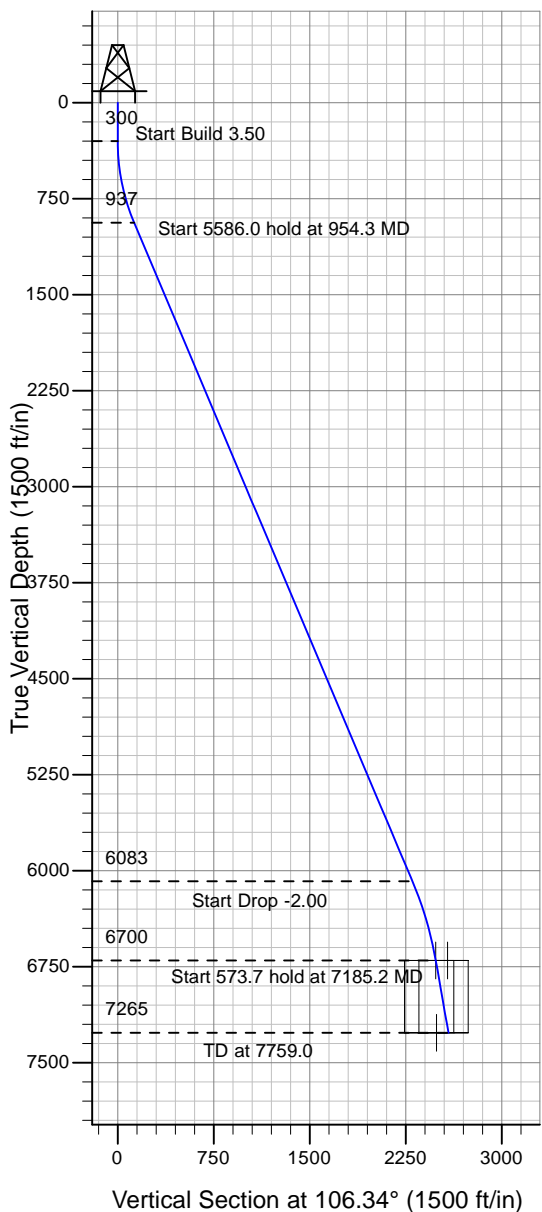


Well Name: MCCOUTCHEONS Y8 7-5-31

Surface Location: PAD Y SEC.31-T5N-R65W
 North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone
 Ground Elevation: 4658.0

+N/-S+E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1373587.19 3220820.14 40° 21' 22.284 N 104° 42' 27.504 W
 Original Well Elev WELL @ 4673.0ft (Original Well Elev)

Mineral Resources Inc



PAD Y SEC.31-T5N-R65W
 MCCOUTCHEONS Y8 7-5-31
 Plan #4 (3-29-10)
 10:54, April 05 2010



Azimuths to True North
 Magnetic North: 8.99°
 Magnetic Field
 Strength: 53242.2snT
 Dip Angle: 67.07°
 Date: 4/5/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | Shape |
|--|--------|--------|--------|------------------|-------------------|----------------------------------|
| DRILL TARGET 2106'FSL, 621'FEL | 6700.0 | -699.3 | 2384.5 | 40° 21' 15.372 N | 104° 41' 56.704 W | Point |
| PERMIT TARGET BHL 2106'FSL, 525'FEL | 6700.0 | -699.3 | 2480.5 | 40° 21' 15.372 N | 104° 41' 55.464 W | Point |
| LEGAL WINDOW 400' X 400' 1982'FSL, 652'FEL | 7265.0 | -823.3 | 2353.5 | 40° 21' 14.147 N | 104° 41' 57.105 W | Rectangle (Sides: L400.0 W400.0) |

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 | 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 954.3 | 22.90 | 106.34 | 937.0 | -36.3 | 123.8 | 3.50 | 106.34 | 129.0 | |
| 4 | 6540.2 | 22.90 | 106.34 | 6082.7 | -648.0 | 2209.6 | 0.00 | 0.00 | 2302.7 | |
| 5 | 7185.2 | 10.00 | 106.34 | 6700.0 | -699.3 | 2384.5 | 2.00 | 180.00 | 2484.9 | DRILL TARGET 2106'FSL, 621'FEL |
| 6 | 7759.0 | 10.00 | 106.34 | 7265.0 | -727.3 | 2480.1 | 0.00 | 0.00 | 2584.6 | |



Mineral Resources Inc

SEC.31-T5N-R65W

PAD Y SEC.31-T5N-R65W

MCCOUTCHEONS Y8 7-5-31

Wellbore #1

Plan: Plan #4 (3-29-10)

Standard Planning Report

05 April, 2010

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| Project | SEC.31-T5N-R65W | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | Using Well Reference Point |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| Site | | | | | | PAD Y SEC.31-T5N-R65W | | | | | | | |
|-----------------------|--|--|----------|--|--|-----------------------|--|-----------------|--|-------------------|--|-------------------|--|
| Site Position: | | | | | | Northing: | | 1,373,449.41 ft | | Latitude: | | 40° 21' 20.952 N | |
| From: | | | Lat/Long | | | Easting: | | 3,220,484.14 ft | | Longitude: | | 104° 42' 31.860 W | |
| Position Uncertainty: | | | 0.0 ft | | | Slot Radius: | | " | | Grid Convergence: | | 0.51 ° | |

| | | | | | | |
|----------------------|------------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well | MCCOUTCHEONS Y8 7-5-31 | | | | | |
| Well Position | +N-S | 134.8 ft | Northing: | 1,373,587.19 ft | Latitude: | 40° 21' 22.284 N |
| | +E-W | 337.2 ft | Easting: | 3,220,820.14 ft | Longitude: | 104° 42' 27.504 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,658.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 1/29/2008 | 9.25 | 67.15 | 53,487 |
| | IGRF200510 | 10/7/2008 | 9.16 | 67.12 | 53,416 |
| | IGRF2010 | 4/5/2010 | 8.99 | 67.07 | 53,242 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #4 (3-29-10) | | | |
| 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 | 106.34 |

| 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 954.3 | 22.90 | 106.34 | 937.0 | -36.3 | 123.8 | 3.50 | 3.50 | 0.00 | 106.34 | |
| 6,540.2 | 22.90 | 106.34 | 6,082.7 | -648.0 | 2,209.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,185.2 | 10.00 | 106.34 | 6,700.0 | -699.3 | 2,384.5 | 2.00 | -2.00 | 0.00 | 180.00 | DRILL TARGET 21 |
| 7,759.0 | 10.00 | 106.34 | 7,265.0 | -727.3 | 2,480.1 | 0.00 | 0.00 | 0.00 | 0.00 | |

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| 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 |
| 40.0 | 0.00 | 0.00 | 40.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 80.0 | 0.00 | 0.00 | 80.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 160.0 | 0.00 | 0.00 | 160.0 | 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 |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 280.0 | 0.00 | 0.00 | 280.0 | 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 |
| 320.0 | 0.70 | 106.34 | 320.0 | 0.0 | 0.1 | 0.1 | 3.50 | 3.50 | 0.00 |
| 360.0 | 2.10 | 106.34 | 360.0 | -0.3 | 1.1 | 1.1 | 3.50 | 3.50 | 0.00 |
| 400.0 | 3.50 | 106.34 | 399.9 | -0.9 | 2.9 | 3.1 | 3.50 | 3.50 | 0.00 |
| 440.0 | 4.90 | 106.34 | 439.8 | -1.7 | 5.7 | 6.0 | 3.50 | 3.50 | 0.00 |
| 480.0 | 6.30 | 106.34 | 479.6 | -2.8 | 9.5 | 9.9 | 3.50 | 3.50 | 0.00 |
| 520.0 | 7.70 | 106.34 | 519.3 | -4.2 | 14.2 | 14.8 | 3.50 | 3.50 | 0.00 |
| 560.0 | 9.10 | 106.34 | 558.9 | -5.8 | 19.8 | 20.6 | 3.50 | 3.50 | 0.00 |
| 600.0 | 10.50 | 106.34 | 598.3 | -7.7 | 26.3 | 27.4 | 3.50 | 3.50 | 0.00 |
| 640.0 | 11.90 | 106.34 | 637.6 | -9.9 | 33.8 | 35.2 | 3.50 | 3.50 | 0.00 |
| 680.0 | 13.30 | 106.34 | 676.6 | -12.4 | 42.1 | 43.9 | 3.50 | 3.50 | 0.00 |
| 720.0 | 14.70 | 106.34 | 715.4 | -15.1 | 51.4 | 53.6 | 3.50 | 3.50 | 0.00 |
| 760.0 | 16.10 | 106.34 | 754.0 | -18.1 | 61.6 | 64.2 | 3.50 | 3.50 | 0.00 |
| 800.0 | 17.50 | 106.34 | 792.3 | -21.3 | 72.7 | 75.8 | 3.50 | 3.50 | 0.00 |
| 840.0 | 18.90 | 106.34 | 830.3 | -24.8 | 84.7 | 88.3 | 3.50 | 3.50 | 0.00 |
| 880.0 | 20.30 | 106.34 | 867.9 | -28.6 | 97.6 | 101.7 | 3.50 | 3.50 | 0.00 |
| 920.0 | 21.70 | 106.34 | 905.3 | -32.6 | 111.3 | 116.0 | 3.50 | 3.50 | 0.00 |
| 954.3 | 22.90 | 106.34 | 937.0 | -36.3 | 123.8 | 129.0 | 3.50 | 3.50 | 0.00 |
| 960.0 | 22.90 | 106.34 | 942.3 | -36.9 | 125.9 | 131.2 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 22.90 | 106.34 | 979.1 | -41.3 | 140.9 | 146.8 | 0.00 | 0.00 | 0.00 |
| 1,040.0 | 22.90 | 106.34 | 1,016.0 | -45.7 | 155.8 | 162.4 | 0.00 | 0.00 | 0.00 |
| 1,080.0 | 22.90 | 106.34 | 1,052.8 | -50.1 | 170.7 | 177.9 | 0.00 | 0.00 | 0.00 |
| 1,120.0 | 22.90 | 106.34 | 1,089.7 | -54.5 | 185.7 | 193.5 | 0.00 | 0.00 | 0.00 |
| 1,160.0 | 22.90 | 106.34 | 1,126.5 | -58.8 | 200.6 | 209.1 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 22.90 | 106.34 | 1,163.4 | -63.2 | 215.6 | 224.6 | 0.00 | 0.00 | 0.00 |
| 1,240.0 | 22.90 | 106.34 | 1,200.2 | -67.6 | 230.5 | 240.2 | 0.00 | 0.00 | 0.00 |
| 1,280.0 | 22.90 | 106.34 | 1,237.0 | -72.0 | 245.4 | 255.8 | 0.00 | 0.00 | 0.00 |
| 1,320.0 | 22.90 | 106.34 | 1,273.9 | -76.4 | 260.4 | 271.3 | 0.00 | 0.00 | 0.00 |
| 1,360.0 | 22.90 | 106.34 | 1,310.7 | -80.7 | 275.3 | 286.9 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 22.90 | 106.34 | 1,347.6 | -85.1 | 290.2 | 302.5 | 0.00 | 0.00 | 0.00 |
| 1,440.0 | 22.90 | 106.34 | 1,384.4 | -89.5 | 305.2 | 318.0 | 0.00 | 0.00 | 0.00 |
| 1,480.0 | 22.90 | 106.34 | 1,421.3 | -93.9 | 320.1 | 333.6 | 0.00 | 0.00 | 0.00 |
| 1,520.0 | 22.90 | 106.34 | 1,458.1 | -98.3 | 335.0 | 349.2 | 0.00 | 0.00 | 0.00 |
| 1,560.0 | 22.90 | 106.34 | 1,495.0 | -102.6 | 350.0 | 364.7 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 22.90 | 106.34 | 1,531.8 | -107.0 | 364.9 | 380.3 | 0.00 | 0.00 | 0.00 |
| 1,640.0 | 22.90 | 106.34 | 1,568.7 | -111.4 | 379.9 | 395.9 | 0.00 | 0.00 | 0.00 |
| 1,680.0 | 22.90 | 106.34 | 1,605.5 | -115.8 | 394.8 | 411.4 | 0.00 | 0.00 | 0.00 |
| 1,720.0 | 22.90 | 106.34 | 1,642.4 | -120.2 | 409.7 | 427.0 | 0.00 | 0.00 | 0.00 |
| 1,760.0 | 22.90 | 106.34 | 1,679.2 | -124.5 | 424.7 | 442.5 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 22.90 | 106.34 | 1,716.1 | -128.9 | 439.6 | 458.1 | 0.00 | 0.00 | 0.00 |
| 1,840.0 | 22.90 | 106.34 | 1,752.9 | -133.3 | 454.5 | 473.7 | 0.00 | 0.00 | 0.00 |
| 1,880.0 | 22.90 | 106.34 | 1,789.8 | -137.7 | 469.5 | 489.2 | 0.00 | 0.00 | 0.00 |
| 1,920.0 | 22.90 | 106.34 | 1,826.6 | -142.1 | 484.4 | 504.8 | 0.00 | 0.00 | 0.00 |
| 1,960.0 | 22.90 | 106.34 | 1,863.5 | -146.4 | 499.3 | 520.4 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 22.90 | 106.34 | 1,900.3 | -150.8 | 514.3 | 535.9 | 0.00 | 0.00 | 0.00 |
| 2,040.0 | 22.90 | 106.34 | 1,937.1 | -155.2 | 529.2 | 551.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| 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) |
| 2,080.0 | 22.90 | 106.34 | 1,974.0 | -159.6 | 544.1 | 567.1 | 0.00 | 0.00 | 0.00 |
| 2,120.0 | 22.90 | 106.34 | 2,010.8 | -164.0 | 559.1 | 582.6 | 0.00 | 0.00 | 0.00 |
| 2,160.0 | 22.90 | 106.34 | 2,047.7 | -168.3 | 574.0 | 598.2 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 22.90 | 106.34 | 2,084.5 | -172.7 | 589.0 | 613.8 | 0.00 | 0.00 | 0.00 |
| 2,240.0 | 22.90 | 106.34 | 2,121.4 | -177.1 | 603.9 | 629.3 | 0.00 | 0.00 | 0.00 |
| 2,280.0 | 22.90 | 106.34 | 2,158.2 | -181.5 | 618.8 | 644.9 | 0.00 | 0.00 | 0.00 |
| 2,320.0 | 22.90 | 106.34 | 2,195.1 | -185.9 | 633.8 | 660.5 | 0.00 | 0.00 | 0.00 |
| 2,360.0 | 22.90 | 106.34 | 2,231.9 | -190.2 | 648.7 | 676.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 22.90 | 106.34 | 2,268.8 | -194.6 | 663.6 | 691.6 | 0.00 | 0.00 | 0.00 |
| 2,440.0 | 22.90 | 106.34 | 2,305.6 | -199.0 | 678.6 | 707.2 | 0.00 | 0.00 | 0.00 |
| 2,480.0 | 22.90 | 106.34 | 2,342.5 | -203.4 | 693.5 | 722.7 | 0.00 | 0.00 | 0.00 |
| 2,520.0 | 22.90 | 106.34 | 2,379.3 | -207.8 | 708.4 | 738.3 | 0.00 | 0.00 | 0.00 |
| 2,560.0 | 22.90 | 106.34 | 2,416.2 | -212.1 | 723.4 | 753.8 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 22.90 | 106.34 | 2,453.0 | -216.5 | 738.3 | 769.4 | 0.00 | 0.00 | 0.00 |
| 2,640.0 | 22.90 | 106.34 | 2,489.9 | -220.9 | 753.3 | 785.0 | 0.00 | 0.00 | 0.00 |
| 2,680.0 | 22.90 | 106.34 | 2,526.7 | -225.3 | 768.2 | 800.5 | 0.00 | 0.00 | 0.00 |
| 2,720.0 | 22.90 | 106.34 | 2,563.6 | -229.7 | 783.1 | 816.1 | 0.00 | 0.00 | 0.00 |
| 2,760.0 | 22.90 | 106.34 | 2,600.4 | -234.0 | 798.1 | 831.7 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 22.90 | 106.34 | 2,637.2 | -238.4 | 813.0 | 847.2 | 0.00 | 0.00 | 0.00 |
| 2,840.0 | 22.90 | 106.34 | 2,674.1 | -242.8 | 827.9 | 862.8 | 0.00 | 0.00 | 0.00 |
| 2,880.0 | 22.90 | 106.34 | 2,710.9 | -247.2 | 842.9 | 878.4 | 0.00 | 0.00 | 0.00 |
| 2,920.0 | 22.90 | 106.34 | 2,747.8 | -251.6 | 857.8 | 893.9 | 0.00 | 0.00 | 0.00 |
| 2,960.0 | 22.90 | 106.34 | 2,784.6 | -255.9 | 872.7 | 909.5 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 22.90 | 106.34 | 2,821.5 | -260.3 | 887.7 | 925.1 | 0.00 | 0.00 | 0.00 |
| 3,040.0 | 22.90 | 106.34 | 2,858.3 | -264.7 | 902.6 | 940.6 | 0.00 | 0.00 | 0.00 |
| 3,080.0 | 22.90 | 106.34 | 2,895.2 | -269.1 | 917.5 | 956.2 | 0.00 | 0.00 | 0.00 |
| 3,120.0 | 22.90 | 106.34 | 2,932.0 | -273.5 | 932.5 | 971.8 | 0.00 | 0.00 | 0.00 |
| 3,160.0 | 22.90 | 106.34 | 2,968.9 | -277.8 | 947.4 | 987.3 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 22.90 | 106.34 | 3,005.7 | -282.2 | 962.4 | 1,002.9 | 0.00 | 0.00 | 0.00 |
| 3,240.0 | 22.90 | 106.34 | 3,042.6 | -286.6 | 977.3 | 1,018.5 | 0.00 | 0.00 | 0.00 |
| 3,280.0 | 22.90 | 106.34 | 3,079.4 | -291.0 | 992.2 | 1,034.0 | 0.00 | 0.00 | 0.00 |
| 3,320.0 | 22.90 | 106.34 | 3,116.3 | -295.4 | 1,007.2 | 1,049.6 | 0.00 | 0.00 | 0.00 |
| 3,360.0 | 22.90 | 106.34 | 3,153.1 | -299.7 | 1,022.1 | 1,065.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 22.90 | 106.34 | 3,190.0 | -304.1 | 1,037.0 | 1,080.7 | 0.00 | 0.00 | 0.00 |
| 3,440.0 | 22.90 | 106.34 | 3,226.8 | -308.5 | 1,052.0 | 1,096.3 | 0.00 | 0.00 | 0.00 |
| 3,480.0 | 22.90 | 106.34 | 3,263.7 | -312.9 | 1,066.9 | 1,111.8 | 0.00 | 0.00 | 0.00 |
| 3,520.0 | 22.90 | 106.34 | 3,300.5 | -317.3 | 1,081.8 | 1,127.4 | 0.00 | 0.00 | 0.00 |
| 3,560.0 | 22.90 | 106.34 | 3,337.3 | -321.7 | 1,096.8 | 1,143.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 22.90 | 106.34 | 3,374.2 | -326.0 | 1,111.7 | 1,158.5 | 0.00 | 0.00 | 0.00 |
| 3,640.0 | 22.90 | 106.34 | 3,411.0 | -330.4 | 1,126.7 | 1,174.1 | 0.00 | 0.00 | 0.00 |
| 3,680.0 | 22.90 | 106.34 | 3,447.9 | -334.8 | 1,141.6 | 1,189.7 | 0.00 | 0.00 | 0.00 |
| 3,720.0 | 22.90 | 106.34 | 3,484.7 | -339.2 | 1,156.5 | 1,205.2 | 0.00 | 0.00 | 0.00 |
| 3,760.0 | 22.90 | 106.34 | 3,521.6 | -343.6 | 1,171.5 | 1,220.8 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 22.90 | 106.34 | 3,558.4 | -347.9 | 1,186.4 | 1,236.4 | 0.00 | 0.00 | 0.00 |
| 3,840.0 | 22.90 | 106.34 | 3,595.3 | -352.3 | 1,201.3 | 1,251.9 | 0.00 | 0.00 | 0.00 |
| 3,880.0 | 22.90 | 106.34 | 3,632.1 | -356.7 | 1,216.3 | 1,267.5 | 0.00 | 0.00 | 0.00 |
| 3,920.0 | 22.90 | 106.34 | 3,669.0 | -361.1 | 1,231.2 | 1,283.1 | 0.00 | 0.00 | 0.00 |
| 3,960.0 | 22.90 | 106.34 | 3,705.8 | -365.5 | 1,246.1 | 1,298.6 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 22.90 | 106.34 | 3,742.7 | -369.8 | 1,261.1 | 1,314.2 | 0.00 | 0.00 | 0.00 |
| 4,040.0 | 22.90 | 106.34 | 3,779.5 | -374.2 | 1,276.0 | 1,329.8 | 0.00 | 0.00 | 0.00 |
| 4,080.0 | 22.90 | 106.34 | 3,816.4 | -378.6 | 1,290.9 | 1,345.3 | 0.00 | 0.00 | 0.00 |
| 4,120.0 | 22.90 | 106.34 | 3,853.2 | -383.0 | 1,305.9 | 1,360.9 | 0.00 | 0.00 | 0.00 |
| 4,160.0 | 22.90 | 106.34 | 3,890.1 | -387.4 | 1,320.8 | 1,376.4 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 22.90 | 106.34 | 3,926.9 | -391.7 | 1,335.8 | 1,392.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| 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) |
| 4,240.0 | 22.90 | 106.34 | 3,963.8 | -396.1 | 1,350.7 | 1,407.6 | 0.00 | 0.00 | 0.00 |
| 4,280.0 | 22.90 | 106.34 | 4,000.6 | -400.5 | 1,365.6 | 1,423.1 | 0.00 | 0.00 | 0.00 |
| 4,320.0 | 22.90 | 106.34 | 4,037.4 | -404.9 | 1,380.6 | 1,438.7 | 0.00 | 0.00 | 0.00 |
| 4,360.0 | 22.90 | 106.34 | 4,074.3 | -409.3 | 1,395.5 | 1,454.3 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 22.90 | 106.34 | 4,111.1 | -413.6 | 1,410.4 | 1,469.8 | 0.00 | 0.00 | 0.00 |
| 4,440.0 | 22.90 | 106.34 | 4,148.0 | -418.0 | 1,425.4 | 1,485.4 | 0.00 | 0.00 | 0.00 |
| 4,480.0 | 22.90 | 106.34 | 4,184.8 | -422.4 | 1,440.3 | 1,501.0 | 0.00 | 0.00 | 0.00 |
| 4,520.0 | 22.90 | 106.34 | 4,221.7 | -426.8 | 1,455.2 | 1,516.5 | 0.00 | 0.00 | 0.00 |
| 4,560.0 | 22.90 | 106.34 | 4,258.5 | -431.2 | 1,470.2 | 1,532.1 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 22.90 | 106.34 | 4,295.4 | -435.5 | 1,485.1 | 1,547.7 | 0.00 | 0.00 | 0.00 |
| 4,640.0 | 22.90 | 106.34 | 4,332.2 | -439.9 | 1,500.1 | 1,563.2 | 0.00 | 0.00 | 0.00 |
| 4,680.0 | 22.90 | 106.34 | 4,369.1 | -444.3 | 1,515.0 | 1,578.8 | 0.00 | 0.00 | 0.00 |
| 4,720.0 | 22.90 | 106.34 | 4,405.9 | -448.7 | 1,529.9 | 1,594.4 | 0.00 | 0.00 | 0.00 |
| 4,760.0 | 22.90 | 106.34 | 4,442.8 | -453.1 | 1,544.9 | 1,609.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 22.90 | 106.34 | 4,479.6 | -457.4 | 1,559.8 | 1,625.5 | 0.00 | 0.00 | 0.00 |
| 4,840.0 | 22.90 | 106.34 | 4,516.5 | -461.8 | 1,574.7 | 1,641.1 | 0.00 | 0.00 | 0.00 |
| 4,880.0 | 22.90 | 106.34 | 4,553.3 | -466.2 | 1,589.7 | 1,656.6 | 0.00 | 0.00 | 0.00 |
| 4,920.0 | 22.90 | 106.34 | 4,590.2 | -470.6 | 1,604.6 | 1,672.2 | 0.00 | 0.00 | 0.00 |
| 4,960.0 | 22.90 | 106.34 | 4,627.0 | -475.0 | 1,619.5 | 1,687.7 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 22.90 | 106.34 | 4,663.9 | -479.3 | 1,634.5 | 1,703.3 | 0.00 | 0.00 | 0.00 |
| 5,040.0 | 22.90 | 106.34 | 4,700.7 | -483.7 | 1,649.4 | 1,718.9 | 0.00 | 0.00 | 0.00 |
| 5,080.0 | 22.90 | 106.34 | 4,737.5 | -488.1 | 1,664.3 | 1,734.4 | 0.00 | 0.00 | 0.00 |
| 5,120.0 | 22.90 | 106.34 | 4,774.4 | -492.5 | 1,679.3 | 1,750.0 | 0.00 | 0.00 | 0.00 |
| 5,160.0 | 22.90 | 106.34 | 4,811.2 | -496.9 | 1,694.2 | 1,765.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 22.90 | 106.34 | 4,848.1 | -501.2 | 1,709.2 | 1,781.1 | 0.00 | 0.00 | 0.00 |
| 5,240.0 | 22.90 | 106.34 | 4,884.9 | -505.6 | 1,724.1 | 1,796.7 | 0.00 | 0.00 | 0.00 |
| 5,280.0 | 22.90 | 106.34 | 4,921.8 | -510.0 | 1,739.0 | 1,812.3 | 0.00 | 0.00 | 0.00 |
| 5,320.0 | 22.90 | 106.34 | 4,958.6 | -514.4 | 1,754.0 | 1,827.8 | 0.00 | 0.00 | 0.00 |
| 5,360.0 | 22.90 | 106.34 | 4,995.5 | -518.8 | 1,768.9 | 1,843.4 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 22.90 | 106.34 | 5,032.3 | -523.1 | 1,783.8 | 1,859.0 | 0.00 | 0.00 | 0.00 |
| 5,440.0 | 22.90 | 106.34 | 5,069.2 | -527.5 | 1,798.8 | 1,874.5 | 0.00 | 0.00 | 0.00 |
| 5,480.0 | 22.90 | 106.34 | 5,106.0 | -531.9 | 1,813.7 | 1,890.1 | 0.00 | 0.00 | 0.00 |
| 5,520.0 | 22.90 | 106.34 | 5,142.9 | -536.3 | 1,828.6 | 1,905.7 | 0.00 | 0.00 | 0.00 |
| 5,560.0 | 22.90 | 106.34 | 5,179.7 | -540.7 | 1,843.6 | 1,921.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 22.90 | 106.34 | 5,216.6 | -545.0 | 1,858.5 | 1,936.8 | 0.00 | 0.00 | 0.00 |
| 5,640.0 | 22.90 | 106.34 | 5,253.4 | -549.4 | 1,873.4 | 1,952.4 | 0.00 | 0.00 | 0.00 |
| 5,680.0 | 22.90 | 106.34 | 5,290.3 | -553.8 | 1,888.4 | 1,967.9 | 0.00 | 0.00 | 0.00 |
| 5,720.0 | 22.90 | 106.34 | 5,327.1 | -558.2 | 1,903.3 | 1,983.5 | 0.00 | 0.00 | 0.00 |
| 5,760.0 | 22.90 | 106.34 | 5,364.0 | -562.6 | 1,918.3 | 1,999.0 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 22.90 | 106.34 | 5,400.8 | -566.9 | 1,933.2 | 2,014.6 | 0.00 | 0.00 | 0.00 |
| 5,840.0 | 22.90 | 106.34 | 5,437.6 | -571.3 | 1,948.1 | 2,030.2 | 0.00 | 0.00 | 0.00 |
| 5,880.0 | 22.90 | 106.34 | 5,474.5 | -575.7 | 1,963.1 | 2,045.7 | 0.00 | 0.00 | 0.00 |
| 5,920.0 | 22.90 | 106.34 | 5,511.3 | -580.1 | 1,978.0 | 2,061.3 | 0.00 | 0.00 | 0.00 |
| 5,960.0 | 22.90 | 106.34 | 5,548.2 | -584.5 | 1,992.9 | 2,076.9 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 22.90 | 106.34 | 5,585.0 | -588.8 | 2,007.9 | 2,092.4 | 0.00 | 0.00 | 0.00 |
| 6,040.0 | 22.90 | 106.34 | 5,621.9 | -593.2 | 2,022.8 | 2,108.0 | 0.00 | 0.00 | 0.00 |
| 6,080.0 | 22.90 | 106.34 | 5,658.7 | -597.6 | 2,037.7 | 2,123.6 | 0.00 | 0.00 | 0.00 |
| 6,120.0 | 22.90 | 106.34 | 5,695.6 | -602.0 | 2,052.7 | 2,139.1 | 0.00 | 0.00 | 0.00 |
| 6,160.0 | 22.90 | 106.34 | 5,732.4 | -606.4 | 2,067.6 | 2,154.7 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 22.90 | 106.34 | 5,769.3 | -610.7 | 2,082.6 | 2,170.3 | 0.00 | 0.00 | 0.00 |
| 6,240.0 | 22.90 | 106.34 | 5,806.1 | -615.1 | 2,097.5 | 2,185.8 | 0.00 | 0.00 | 0.00 |
| 6,280.0 | 22.90 | 106.34 | 5,843.0 | -619.5 | 2,112.4 | 2,201.4 | 0.00 | 0.00 | 0.00 |
| 6,320.0 | 22.90 | 106.34 | 5,879.8 | -623.9 | 2,127.4 | 2,217.0 | 0.00 | 0.00 | 0.00 |
| 6,360.0 | 22.90 | 106.34 | 5,916.7 | -628.3 | 2,142.3 | 2,232.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| 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) |
| 6,400.0 | 22.90 | 106.34 | 5,953.5 | -632.6 | 2,157.2 | 2,248.1 | 0.00 | 0.00 | 0.00 |
| 6,440.0 | 22.90 | 106.34 | 5,990.4 | -637.0 | 2,172.2 | 2,263.7 | 0.00 | 0.00 | 0.00 |
| 6,480.0 | 22.90 | 106.34 | 6,027.2 | -641.4 | 2,187.1 | 2,279.2 | 0.00 | 0.00 | 0.00 |
| 6,520.0 | 22.90 | 106.34 | 6,064.1 | -645.8 | 2,202.0 | 2,294.8 | 0.00 | 0.00 | 0.00 |
| 6,540.2 | 22.90 | 106.34 | 6,082.7 | -648.0 | 2,209.6 | 2,302.7 | 0.00 | 0.00 | 0.00 |
| 6,560.0 | 22.50 | 106.34 | 6,100.9 | -650.2 | 2,216.9 | 2,310.3 | 2.00 | -2.00 | 0.00 |
| 6,600.0 | 21.70 | 106.34 | 6,138.0 | -654.4 | 2,231.4 | 2,325.3 | 2.00 | -2.00 | 0.00 |
| 6,640.0 | 20.90 | 106.34 | 6,175.3 | -658.5 | 2,245.3 | 2,339.9 | 2.00 | -2.00 | 0.00 |
| 6,680.0 | 20.10 | 106.34 | 6,212.7 | -662.4 | 2,258.8 | 2,353.9 | 2.00 | -2.00 | 0.00 |
| 6,720.0 | 19.30 | 106.34 | 6,250.4 | -666.2 | 2,271.7 | 2,367.4 | 2.00 | -2.00 | 0.00 |
| 6,760.0 | 18.50 | 106.34 | 6,288.2 | -669.9 | 2,284.1 | 2,380.3 | 2.00 | -2.00 | 0.00 |
| 6,800.0 | 17.70 | 106.34 | 6,326.2 | -673.4 | 2,296.1 | 2,392.8 | 2.00 | -2.00 | 0.00 |
| 6,840.0 | 16.90 | 106.34 | 6,364.4 | -676.7 | 2,307.5 | 2,404.7 | 2.00 | -2.00 | 0.00 |
| 6,880.0 | 16.10 | 106.34 | 6,402.8 | -679.9 | 2,318.4 | 2,416.0 | 2.00 | -2.00 | 0.00 |
| 6,920.0 | 15.30 | 106.34 | 6,441.3 | -683.0 | 2,328.8 | 2,426.8 | 2.00 | -2.00 | 0.00 |
| 6,960.0 | 14.50 | 106.34 | 6,479.9 | -685.9 | 2,338.6 | 2,437.1 | 2.00 | -2.00 | 0.00 |
| 7,000.0 | 13.70 | 106.34 | 6,518.7 | -688.6 | 2,348.0 | 2,446.9 | 2.00 | -2.00 | 0.00 |
| 7,040.0 | 12.90 | 106.34 | 6,557.7 | -691.2 | 2,356.8 | 2,456.1 | 2.00 | -2.00 | 0.00 |
| 7,080.0 | 12.10 | 106.34 | 6,596.7 | -693.6 | 2,365.1 | 2,464.8 | 2.00 | -2.00 | 0.00 |
| 7,120.0 | 11.30 | 106.34 | 6,635.9 | -695.9 | 2,372.9 | 2,472.9 | 2.00 | -2.00 | 0.00 |
| 7,160.0 | 10.50 | 106.34 | 6,675.2 | -698.0 | 2,380.2 | 2,480.4 | 2.00 | -2.00 | 0.00 |
| 7,185.2 | 10.00 | 106.34 | 6,700.0 | -699.3 | 2,384.5 | 2,484.9 | 2.00 | -2.00 | 0.00 |
| DRILL TARGET 2106'FSL, 621'FEL | | | | | | | | | |
| 7,200.0 | 10.00 | 106.34 | 6,714.5 | -700.0 | 2,387.0 | 2,487.5 | 0.00 | 0.00 | 0.00 |
| 7,201.2 | 10.00 | 106.34 | 6,715.8 | -700.1 | 2,387.2 | 2,487.7 | 0.00 | 0.00 | 0.00 |
| PERMIT TARGET BHL 2106'FSL,525'FEL | | | | | | | | | |
| 7,236.0 | 10.00 | 106.34 | 6,750.0 | -701.8 | 2,393.0 | 2,493.7 | 0.00 | 0.00 | 0.00 |
| NIOBRARA | | | | | | | | | |
| 7,240.0 | 10.00 | 106.34 | 6,753.9 | -702.0 | 2,393.6 | 2,494.4 | 0.00 | 0.00 | 0.00 |
| 7,280.0 | 10.00 | 106.34 | 6,793.3 | -703.9 | 2,400.3 | 2,501.4 | 0.00 | 0.00 | 0.00 |
| 7,320.0 | 10.00 | 106.34 | 6,832.7 | -705.9 | 2,407.0 | 2,508.3 | 0.00 | 0.00 | 0.00 |
| 7,360.0 | 10.00 | 106.34 | 6,872.1 | -707.8 | 2,413.6 | 2,515.3 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 10.00 | 106.34 | 6,911.5 | -709.8 | 2,420.3 | 2,522.2 | 0.00 | 0.00 | 0.00 |
| 7,440.0 | 10.00 | 106.34 | 6,950.9 | -711.7 | 2,426.9 | 2,529.2 | 0.00 | 0.00 | 0.00 |
| 7,480.0 | 10.00 | 106.34 | 6,990.3 | -713.7 | 2,433.6 | 2,536.1 | 0.00 | 0.00 | 0.00 |
| 7,520.0 | 10.00 | 106.34 | 7,029.7 | -715.7 | 2,440.3 | 2,543.1 | 0.00 | 0.00 | 0.00 |
| 7,560.0 | 10.00 | 106.34 | 7,069.1 | -717.6 | 2,446.9 | 2,550.0 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 10.00 | 106.34 | 7,108.5 | -719.6 | 2,453.6 | 2,556.9 | 0.00 | 0.00 | 0.00 |
| 7,606.6 | 10.00 | 106.34 | 7,115.0 | -719.9 | 2,454.7 | 2,558.1 | 0.00 | 0.00 | 0.00 |
| CODELL | | | | | | | | | |
| 7,640.0 | 10.00 | 106.34 | 7,147.8 | -721.5 | 2,460.3 | 2,563.9 | 0.00 | 0.00 | 0.00 |
| 7,680.0 | 10.00 | 106.34 | 7,187.2 | -723.5 | 2,466.9 | 2,570.8 | 0.00 | 0.00 | 0.00 |
| 7,720.0 | 10.00 | 106.34 | 7,226.6 | -725.4 | 2,473.6 | 2,577.8 | 0.00 | 0.00 | 0.00 |
| 7,742.6 | 10.00 | 106.34 | 7,248.8 | -726.5 | 2,477.4 | 2,581.7 | 0.00 | 0.00 | 0.00 |
| LEGAL WINDOW 400' X 400' 1982'FSL, 652'FEL | | | | | | | | | |
| 7,759.0 | 10.00 | 106.34 | 7,265.0 | -727.3 | 2,480.1 | 2,584.6 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|----------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM den0-adp01 Server Data | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Company: | Mineral Resources Inc | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site: | PAD Y SEC.31-T5N-R65W | North Reference: | True |
| Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #4 (3-29-10) | | |

| Targets | | | | | | | | | |
|--|-----------|----------|---------|--------|---------|--------------|--------------|------------------|-------------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| PERMIT TARGET BH | 0.00 | 0.00 | 6,700.0 | -699.3 | 2,480.5 | 1,372,910.08 | 3,223,306.70 | 40° 21' 15.372 N | 104° 41' 55.464 W |
| - plan misses target center by 94.7ft at 7201.2ft MD (6715.8 TVD, -700.1 N, 2387.2 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| LEGAL WINDOW 40C | 0.00 | 0.00 | 7,265.0 | -823.3 | 2,353.5 | 1,372,784.99 | 3,223,180.80 | 40° 21' 14.147 N | 104° 41' 57.105 W |
| - plan misses target center by 158.0ft at 7742.6ft MD (7248.8 TVD, -726.5 N, 2477.4 E) | | | | | | | | | |
| - Rectangle (sides W400.0 H400.0 D0.0) | | | | | | | | | |
| DRILL TARGET 2106 | 0.00 | 0.00 | 6,700.0 | -699.3 | 2,384.5 | 1,372,909.25 | 3,223,210.69 | 40° 21' 15.372 N | 104° 41' 56.704 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Formations | | | | | | |
|----------------|----------------|----------|-----------|------|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (ft) | (ft) | | | (°) | (°) | |
| 7,236.0 | 6,750.0 | NIOBRARA | | 0.00 | | |
| 7,606.6 | 7,115.0 | CODELL | | 0.00 | | |
| | 7,515.0 | J SAND | | 0.00 | | |



Mineral Resources Inc

SEC.31-T5N-R65W

PAD Y SEC.31-T5N-R65W

MCCOUTCHEONS Y8 7-5-31

Wellbore #1

Plan #4 (3-29-10)

Anticollision Report

05 April, 2010

| | | | |
|---------------------------|------------------------|-------------------------------------|--------------------------------------|
| Company: | Mineral Resources Inc | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Project: | SEC.31-T5N-R65W | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Reference Site: | PAD Y SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDM den0-adp01 Server Data |
| Reference Design: | Plan #4 (3-29-10) | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #4 (3-29-10) | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | ISCSWA |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 2,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 4/5/2010 | | |
|---------------------|------------|---------------------------------|-----------|----------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 7,758.9 | Plan #4 (3-29-10) (Wellbore #1) | MWD | MWD - Standard | |

| Summary | | | | | | | |
|---|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------|
| Site Name | | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | | |
| PAD Y SEC.31-T5N-R65W | | | | | | | |
| FARMERS Y7 6-6-31 - Wellbore #1 - Plan #4 (3-29-10) | | 300.0 | 300.0 | 14.4 | 13.3 | 12.816 | CC, ES |
| FARMERS Y7 6-6-31 - Wellbore #1 - Plan #4 (3-29-10) | | 7,759.0 | 7,692.5 | 921.7 | 826.6 | 9.687 | SF |
| PAD Z SEC.31-T5N-R65W | | | | | | | |
| LATHAM Z6 6-4-31 - Wellbore #1 - Plan #4 (3-29-10) | | 300.0 | 300.0 | 45.6 | 44.5 | 40.575 | CC, ES |
| LATHAM Z6 6-4-31 - Wellbore #1 - Plan #4 (3-29-10) | | 6,100.0 | 6,136.7 | 728.8 | 690.8 | 19.177 | SF |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | |
|-----------------------|----------------|----------------|----------------|-----------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | |
| Reference | | | | Offset | | Semi Major Axis | | | Distance | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -104.65 | -3.6 | -13.9 | 14.4 | 14.4 | 0.00 | N/A | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -104.65 | -3.6 | -13.9 | 14.4 | 14.2 | 0.22 | 64.082 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -104.65 | -3.6 | -13.9 | 14.4 | 13.7 | 0.67 | 21.361 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -104.65 | -3.6 | -13.9 | 14.4 | 13.3 | 1.12 | 12.816 CC, ES | | |
| 400.0 | 399.9 | 399.9 | 399.9 | 0.8 | 0.8 | 154.24 | -3.6 | -13.9 | 17.1 | 15.5 | 1.57 | 10.883 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 1.0 | 1.0 | 163.07 | -3.6 | -13.9 | 25.6 | 23.6 | 2.03 | 12.654 | | |
| 600.0 | 598.3 | 598.3 | 598.3 | 1.3 | 1.2 | 169.26 | -3.6 | -13.9 | 40.4 | 38.0 | 2.49 | 16.234 | | |
| 700.0 | 696.0 | 697.9 | 697.8 | 1.7 | 1.4 | 172.17 | -4.6 | -12.6 | 60.0 | 57.0 | 2.93 | 20.446 | | |
| 800.0 | 792.3 | 797.5 | 797.3 | 2.2 | 1.6 | 173.01 | -7.7 | -8.5 | 82.5 | 79.1 | 3.36 | 24.534 | | |
| 900.0 | 886.7 | 897.2 | 896.6 | 2.8 | 1.8 | 172.98 | -12.8 | -1.5 | 107.8 | 104.0 | 3.81 | 28.278 | | |
| 1,000.0 | 979.1 | 997.1 | 995.8 | 3.6 | 2.1 | 172.59 | -19.9 | 8.2 | 135.4 | 131.1 | 4.30 | 31.474 | | |
| 1,100.0 | 1,071.2 | 1,098.4 | 1,095.9 | 4.4 | 2.4 | 171.82 | -29.3 | 20.9 | 160.9 | 156.0 | 4.85 | 33.173 | | |
| 1,200.0 | 1,163.4 | 1,201.3 | 1,196.9 | 5.2 | 2.7 | 170.71 | -40.9 | 36.7 | 183.3 | 177.9 | 5.46 | 33.604 | | |
| 1,300.0 | 1,255.5 | 1,305.4 | 1,298.3 | 6.0 | 3.2 | 169.31 | -54.9 | 55.6 | 202.8 | 196.6 | 6.13 | 33.070 | | |
| 1,400.0 | 1,347.6 | 1,410.5 | 1,399.7 | 6.8 | 3.7 | 167.64 | -71.2 | 77.8 | 219.2 | 212.3 | 6.89 | 31.806 | | |
| 1,500.0 | 1,439.7 | 1,516.4 | 1,500.8 | 7.7 | 4.2 | 165.68 | -89.8 | 103.1 | 232.7 | 225.0 | 7.76 | 29.995 | | |
| 1,600.0 | 1,531.8 | 1,622.7 | 1,601.1 | 8.5 | 4.9 | 163.41 | -110.7 | 131.5 | 243.5 | 234.7 | 8.75 | 27.815 | | |
| 1,700.0 | 1,623.9 | 1,725.1 | 1,696.6 | 9.3 | 5.6 | 160.97 | -132.6 | 161.3 | 252.1 | 242.2 | 9.87 | 25.544 | | |
| 1,800.0 | 1,716.1 | 1,824.2 | 1,788.8 | 10.2 | 6.3 | 158.72 | -154.1 | 194.4 | 260.8 | 249.7 | 11.05 | 23.593 | | |
| 1,900.0 | 1,808.2 | 1,923.3 | 1,881.1 | 11.0 | 7.1 | 156.62 | -175.5 | 219.5 | 269.9 | 257.6 | 12.31 | 21.930 | | |
| 2,000.0 | 1,900.3 | 2,022.4 | 1,973.4 | 11.9 | 7.8 | 154.66 | -197.0 | 248.7 | 279.3 | 265.7 | 13.62 | 20.513 | | |

| | | | |
|---------------------------|------------------------|-------------------------------------|--------------------------------------|
| Company: | Mineral Resources Inc | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Project: | SEC.31-T5N-R65W | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Reference Site: | PAD Y SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDM den0-adp01 Server Data |
| Reference Design: | Plan #4 (3-29-10) | Offset TVD Reference: | Offset Datum |

| PAD Y SEC.31-T5N-R65W - FARMERS Y7 6-6-31 - Wellbore #1 - Plan #4 (3-29-10) | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 2,100.0 | 1,992.4 | 2,121.5 | 2,065.7 | 12.7 | 8.5 | 152.82 | -218.4 | 277.8 | 289.1 | 274.1 | 14.98 | 19.302 | | |
| 2,200.0 | 2,084.5 | 2,220.6 | 2,158.0 | 13.5 | 9.3 | 151.11 | -239.8 | 306.9 | 299.1 | 282.7 | 16.38 | 18.263 | | |
| 2,300.0 | 2,176.7 | 2,319.7 | 2,250.2 | 14.4 | 10.0 | 149.50 | -261.3 | 336.0 | 309.4 | 291.5 | 17.81 | 17.369 | | |
| 2,400.0 | 2,268.8 | 2,418.8 | 2,342.5 | 15.2 | 10.8 | 148.00 | -282.7 | 365.1 | 319.8 | 300.6 | 19.27 | 16.596 | | |
| 2,500.0 | 2,360.9 | 2,517.9 | 2,434.8 | 16.1 | 11.5 | 146.60 | -304.1 | 394.2 | 330.5 | 309.8 | 20.76 | 15.923 | | |
| 2,600.0 | 2,453.0 | 2,617.0 | 2,527.1 | 16.9 | 12.3 | 145.28 | -325.6 | 423.4 | 341.4 | 319.2 | 22.27 | 15.334 | | |
| 2,700.0 | 2,545.1 | 2,716.2 | 2,619.3 | 17.7 | 13.1 | 144.05 | -347.0 | 452.5 | 352.5 | 328.7 | 23.79 | 14.817 | | |
| 2,800.0 | 2,637.2 | 2,815.3 | 2,711.6 | 18.6 | 13.8 | 142.89 | -368.4 | 481.6 | 363.7 | 338.3 | 25.32 | 14.361 | | |
| 2,900.0 | 2,729.4 | 2,914.4 | 2,803.9 | 19.4 | 14.6 | 141.80 | -389.9 | 510.7 | 375.0 | 348.1 | 26.87 | 13.955 | | |
| 3,000.0 | 2,821.5 | 3,013.5 | 2,896.2 | 20.3 | 15.4 | 140.78 | -411.3 | 539.8 | 386.5 | 358.0 | 28.43 | 13.594 | | |
| 3,100.0 | 2,913.6 | 3,112.6 | 2,988.5 | 21.1 | 16.1 | 139.81 | -432.7 | 569.0 | 398.1 | 368.1 | 29.99 | 13.271 | | |
| 3,200.0 | 3,005.7 | 3,211.7 | 3,080.7 | 22.0 | 16.9 | 138.90 | -454.2 | 598.1 | 409.7 | 378.2 | 31.57 | 12.980 | | |
| 3,300.0 | 3,097.8 | 3,310.8 | 3,173.0 | 22.8 | 17.7 | 138.04 | -475.6 | 627.2 | 421.5 | 388.4 | 33.14 | 12.718 | | |
| 3,400.0 | 3,190.0 | 3,409.9 | 3,265.3 | 23.6 | 18.4 | 137.22 | -497.0 | 656.3 | 433.4 | 398.7 | 34.73 | 12.481 | | |
| 3,500.0 | 3,282.1 | 3,509.0 | 3,357.6 | 24.5 | 19.2 | 136.45 | -518.5 | 685.4 | 445.4 | 409.1 | 36.31 | 12.265 | | |
| 3,600.0 | 3,374.2 | 3,608.1 | 3,449.8 | 25.3 | 20.0 | 135.72 | -539.9 | 714.5 | 457.4 | 419.5 | 37.90 | 12.069 | | |
| 3,700.0 | 3,466.3 | 3,707.2 | 3,542.1 | 26.2 | 20.7 | 135.03 | -561.4 | 743.7 | 469.5 | 430.0 | 39.49 | 11.889 | | |
| 3,800.0 | 3,558.4 | 3,806.3 | 3,634.4 | 27.0 | 21.5 | 134.37 | -582.8 | 772.8 | 481.7 | 440.6 | 41.08 | 11.724 | | |
| 3,900.0 | 3,650.6 | 3,905.4 | 3,726.7 | 27.9 | 22.3 | 133.74 | -604.2 | 801.9 | 493.9 | 451.2 | 42.68 | 11.573 | | |
| 4,000.0 | 3,742.7 | 4,004.6 | 3,818.9 | 28.7 | 23.1 | 133.15 | -625.7 | 831.0 | 506.2 | 461.9 | 44.27 | 11.433 | | |
| 4,100.0 | 3,834.8 | 4,103.7 | 3,911.2 | 29.5 | 23.8 | 132.58 | -647.1 | 860.1 | 518.5 | 472.6 | 45.87 | 11.304 | | |
| 4,200.0 | 3,926.9 | 4,202.8 | 4,003.5 | 30.4 | 24.6 | 132.04 | -668.5 | 889.2 | 530.9 | 483.4 | 47.47 | 11.184 | | |
| 4,300.0 | 4,019.0 | 4,301.9 | 4,095.8 | 31.2 | 25.4 | 131.52 | -690.0 | 918.4 | 543.3 | 494.3 | 49.07 | 11.073 | | |
| 4,400.0 | 4,111.1 | 4,401.0 | 4,188.1 | 32.1 | 26.1 | 131.03 | -711.4 | 947.5 | 555.8 | 505.1 | 50.66 | 10.970 | | |
| 4,500.0 | 4,203.3 | 4,500.1 | 4,280.3 | 32.9 | 26.9 | 130.55 | -732.8 | 976.6 | 568.3 | 516.0 | 52.26 | 10.874 | | |
| 4,600.0 | 4,295.4 | 4,599.2 | 4,372.6 | 33.8 | 27.7 | 130.10 | -754.3 | 1,005.7 | 580.8 | 527.0 | 53.86 | 10.784 | | |
| 4,700.0 | 4,387.5 | 4,698.3 | 4,464.9 | 34.6 | 28.5 | 129.67 | -775.7 | 1,034.8 | 593.4 | 538.0 | 55.46 | 10.700 | | |
| 4,800.0 | 4,479.6 | 4,797.4 | 4,557.2 | 35.5 | 29.2 | 129.26 | -797.1 | 1,064.0 | 606.0 | 549.0 | 57.06 | 10.621 | | |
| 4,900.0 | 4,571.7 | 4,896.5 | 4,649.4 | 36.3 | 30.0 | 128.86 | -818.6 | 1,093.1 | 618.7 | 560.0 | 58.66 | 10.547 | | |
| 5,000.0 | 4,663.9 | 4,995.6 | 4,741.7 | 37.1 | 30.8 | 128.48 | -840.0 | 1,122.2 | 631.3 | 571.1 | 60.26 | 10.478 | | |
| 5,100.0 | 4,756.0 | 5,094.7 | 4,834.0 | 38.0 | 31.6 | 128.11 | -861.4 | 1,151.3 | 644.0 | 582.2 | 61.85 | 10.412 | | |
| 5,200.0 | 4,848.1 | 5,193.9 | 4,926.3 | 38.8 | 32.3 | 127.76 | -882.9 | 1,180.4 | 656.7 | 593.3 | 63.45 | 10.350 | | |
| 5,300.0 | 4,940.2 | 5,293.0 | 5,018.6 | 39.7 | 33.1 | 127.42 | -904.3 | 1,209.5 | 669.5 | 604.4 | 65.05 | 10.292 | | |
| 5,400.0 | 5,032.3 | 5,392.1 | 5,110.8 | 40.5 | 33.9 | 127.09 | -925.8 | 1,238.7 | 682.3 | 615.6 | 66.65 | 10.237 | | |
| 5,500.0 | 5,124.4 | 5,491.2 | 5,203.1 | 41.4 | 34.7 | 126.78 | -947.2 | 1,267.8 | 695.0 | 626.8 | 68.24 | 10.185 | | |
| 5,600.0 | 5,216.6 | 5,590.3 | 5,295.4 | 42.2 | 35.4 | 126.47 | -968.6 | 1,296.9 | 707.8 | 638.0 | 69.84 | 10.135 | | |
| 5,700.0 | 5,308.7 | 5,689.4 | 5,387.7 | 43.0 | 36.2 | 126.18 | -990.1 | 1,326.0 | 720.7 | 649.2 | 71.44 | 10.088 | | |
| 5,800.0 | 5,400.8 | 5,788.5 | 5,479.9 | 43.9 | 37.0 | 125.90 | -1,011.5 | 1,355.1 | 733.5 | 660.5 | 73.03 | 10.044 | | |
| 5,900.0 | 5,492.9 | 5,887.6 | 5,572.2 | 44.7 | 37.7 | 125.63 | -1,032.9 | 1,384.3 | 746.4 | 671.7 | 74.63 | 10.001 | | |
| 6,000.0 | 5,585.0 | 5,986.7 | 5,664.5 | 45.6 | 38.5 | 125.36 | -1,054.4 | 1,413.4 | 759.2 | 683.0 | 76.22 | 9.961 | | |
| 6,100.0 | 5,677.2 | 6,085.8 | 5,756.8 | 46.4 | 39.3 | 125.11 | -1,075.8 | 1,442.5 | 772.1 | 694.3 | 77.82 | 9.922 | | |
| 6,200.0 | 5,769.3 | 6,184.9 | 5,849.1 | 47.3 | 40.1 | 124.86 | -1,097.2 | 1,471.6 | 785.0 | 705.6 | 79.41 | 9.886 | | |
| 6,300.0 | 5,861.4 | 6,284.0 | 5,941.3 | 48.1 | 40.8 | 124.62 | -1,118.7 | 1,500.7 | 798.0 | 717.0 | 81.01 | 9.851 | | |
| 6,400.0 | 5,953.5 | 6,383.2 | 6,033.6 | 49.0 | 41.6 | 124.39 | -1,140.1 | 1,529.8 | 810.9 | 728.3 | 82.60 | 9.817 | | |
| 6,500.0 | 6,045.6 | 6,482.3 | 6,125.9 | 49.8 | 42.4 | 124.17 | -1,161.5 | 1,559.0 | 823.8 | 739.6 | 84.19 | 9.785 | | |
| 6,600.0 | 6,138.0 | 6,576.3 | 6,213.7 | 50.6 | 43.1 | 124.11 | -1,181.5 | 1,586.0 | 836.7 | 751.1 | 85.60 | 9.774 | | |
| 6,700.0 | 6,231.5 | 6,668.5 | 6,300.8 | 51.2 | 43.6 | 124.15 | -1,199.4 | 1,610.4 | 848.5 | 761.8 | 86.70 | 9.786 | | |
| 6,800.0 | 6,326.2 | 6,760.8 | 6,388.9 | 51.7 | 44.0 | 124.18 | -1,215.7 | 1,632.5 | 859.3 | 771.6 | 87.68 | 9.800 | | |
| 6,900.0 | 6,422.0 | 6,853.1 | 6,477.9 | 52.2 | 44.4 | 124.21 | -1,230.3 | 1,652.3 | 868.9 | 780.3 | 88.55 | 9.812 | | |
| 7,000.0 | 6,518.7 | 6,945.5 | 6,567.7 | 52.7 | 44.8 | 124.24 | -1,243.2 | 1,669.9 | 877.4 | 788.1 | 89.32 | 9.823 | | |
| 7,100.0 | 6,616.3 | 7,038.1 | 6,658.3 | 53.0 | 45.1 | 124.27 | -1,254.4 | 1,685.1 | 884.8 | 794.8 | 89.99 | 9.832 | | |
| 7,200.0 | 6,714.5 | 7,134.6 | 6,753.2 | 53.4 | 45.5 | 124.25 | -1,264.5 | 1,698.8 | 890.9 | 800.2 | 90.63 | 9.829 | | |

| | | | |
|---------------------------|------------------------|-------------------------------------|--------------------------------------|
| Company: | Mineral Resources Inc | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Project: | SEC.31-T5N-R65W | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Reference Site: | PAD Y SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDM den0-adp01 Server Data |
| Reference Design: | Plan #4 (3-29-10) | Offset TVD Reference: | Offset Datum |

| Offset Design PAD Y SEC.31-T5N-R65W - FARMERS Y7 6-6-31 - Wellbore #1 - Plan #4 (3-29-10) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | Offset | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 7,300.0 | 6,813.0 | 7,234.4 | 6,851.5 | 53.7 | 45.8 | 124.09 | -1,274.8 | 1,712.8 | 896.4 | 804.9 | 91.44 | 9.803 | |
| 7,400.0 | 6,911.5 | 7,334.2 | 6,949.8 | 54.1 | 46.2 | 123.93 | -1,285.1 | 1,726.7 | 901.9 | 809.6 | 92.25 | 9.777 | |
| 7,500.0 | 7,010.0 | 7,434.0 | 7,048.1 | 54.5 | 46.6 | 123.77 | -1,295.3 | 1,740.7 | 907.4 | 814.3 | 93.06 | 9.751 | |
| 7,600.0 | 7,108.5 | 7,533.8 | 7,146.4 | 54.9 | 47.0 | 123.62 | -1,305.6 | 1,754.7 | 912.9 | 819.1 | 93.87 | 9.726 | |
| 7,700.0 | 7,206.9 | 7,633.6 | 7,244.7 | 55.2 | 47.4 | 123.47 | -1,315.9 | 1,768.6 | 918.4 | 823.8 | 94.67 | 9.701 | |
| 7,759.0 | 7,265.0 | 7,692.5 | 7,302.7 | 55.5 | 47.6 | 123.38 | -1,321.9 | 1,776.8 | 921.7 | 826.6 | 95.15 | 9.687 SF | |

| | | | |
|---------------------------|------------------------|-------------------------------------|--------------------------------------|
| Company: | Mineral Resources Inc | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Project: | SEC.31-T5N-R65W | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Reference Site: | PAD Y SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDM den0-adp01 Server Data |
| Reference Design: | Plan #4 (3-29-10) | Offset TVD Reference: | Offset Datum |

| PAD Z SEC.31-T5N-R65W - LATHAM Z6 6-4-31 - Wellbore #1 - Plan #4 (3-29-10) | | | | | | | | | | | | Offset Site Error: | 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -113.54 | -18.2 | -41.8 | 45.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -113.54 | -18.2 | -41.8 | 45.6 | 45.4 | 0.22 | 202.877 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -113.54 | -18.2 | -41.8 | 45.6 | 44.9 | 0.67 | 67.626 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 0.6 | -113.54 | -18.2 | -41.8 | 45.6 | 44.5 | 1.12 | 40.575 | CC, ES | |
| 400.0 | 399.9 | 399.9 | 399.9 | 0.8 | 0.8 | 142.40 | -18.2 | -41.8 | 48.0 | 46.4 | 1.57 | 30.596 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 1.0 | 1.0 | 148.03 | -18.2 | -41.8 | 55.5 | 53.5 | 2.02 | 27.424 | | |
| 600.0 | 598.3 | 598.3 | 598.3 | 1.3 | 1.2 | 154.52 | -18.2 | -41.8 | 68.9 | 66.4 | 2.50 | 27.567 | | |
| 700.0 | 696.0 | 696.0 | 696.0 | 1.7 | 1.5 | 160.18 | -18.2 | -41.8 | 88.6 | 85.6 | 2.98 | 29.702 | | |
| 800.0 | 792.3 | 792.3 | 792.3 | 2.2 | 1.7 | 164.53 | -18.2 | -41.8 | 114.6 | 111.1 | 3.47 | 33.057 | | |
| 900.0 | 886.7 | 886.7 | 886.7 | 2.8 | 1.9 | 167.71 | -18.2 | -41.8 | 146.7 | 142.7 | 3.95 | 37.154 | | |
| 1,000.0 | 979.1 | 979.1 | 979.1 | 3.6 | 2.1 | 170.10 | -18.2 | -41.8 | 184.1 | 179.7 | 4.43 | 41.545 | | |
| 1,100.0 | 1,071.2 | 1,071.2 | 1,071.2 | 4.4 | 2.3 | 171.82 | -18.2 | -41.8 | 222.6 | 217.7 | 4.93 | 45.169 | | |
| 1,200.0 | 1,163.4 | 1,163.4 | 1,163.4 | 5.2 | 2.5 | 173.03 | -18.2 | -41.8 | 261.3 | 255.8 | 5.44 | 48.071 | | |
| 1,300.0 | 1,255.5 | 1,255.5 | 1,255.5 | 6.0 | 2.7 | 173.93 | -18.2 | -41.8 | 300.0 | 294.0 | 5.95 | 50.432 | | |
| 1,400.0 | 1,347.6 | 1,347.6 | 1,347.6 | 6.8 | 2.9 | 174.63 | -18.2 | -41.8 | 338.7 | 332.2 | 6.47 | 52.381 | | |
| 1,500.0 | 1,439.7 | 1,445.7 | 1,445.7 | 7.7 | 3.1 | 175.21 | -18.3 | -41.4 | 377.2 | 370.2 | 6.99 | 53.946 | | |
| 1,600.0 | 1,531.8 | 1,554.1 | 1,554.0 | 8.5 | 3.4 | 175.73 | -19.1 | -37.7 | 412.8 | 405.2 | 7.51 | 54.945 | | |
| 1,700.0 | 1,623.9 | 1,665.5 | 1,665.1 | 9.3 | 3.6 | 176.18 | -20.7 | -29.8 | 444.7 | 436.7 | 8.04 | 55.333 | | |
| 1,800.0 | 1,716.1 | 1,779.7 | 1,778.5 | 10.2 | 3.8 | 176.58 | -23.3 | -17.2 | 473.0 | 464.4 | 8.58 | 55.117 | | |
| 1,900.0 | 1,808.2 | 1,896.4 | 1,893.9 | 11.0 | 4.1 | 176.95 | -26.9 | 0.2 | 497.4 | 488.2 | 9.14 | 54.393 | | |
| 2,000.0 | 1,900.3 | 2,015.3 | 2,010.6 | 11.9 | 4.5 | 177.31 | -31.6 | 22.7 | 517.8 | 508.0 | 9.73 | 53.228 | | |
| 2,100.0 | 1,992.4 | 2,136.1 | 2,128.0 | 12.7 | 4.9 | 177.65 | -37.3 | 50.3 | 534.1 | 523.7 | 10.33 | 51.692 | | |
| 2,200.0 | 2,084.5 | 2,258.4 | 2,245.6 | 13.5 | 5.4 | 178.00 | -44.1 | 83.2 | 546.2 | 535.2 | 10.96 | 49.833 | | |
| 2,300.0 | 2,176.7 | 2,381.7 | 2,362.6 | 14.4 | 6.0 | 178.36 | -52.0 | 121.3 | 554.0 | 542.4 | 11.60 | 47.759 | | |
| 2,400.0 | 2,268.8 | 2,490.3 | 2,464.4 | 15.2 | 6.7 | 178.69 | -59.7 | 158.3 | 558.5 | 546.2 | 12.23 | 45.661 | | |
| 2,500.0 | 2,360.9 | 2,590.2 | 2,558.0 | 16.1 | 7.3 | 178.99 | -66.8 | 192.6 | 562.6 | 549.8 | 12.85 | 43.786 | | |
| 2,600.0 | 2,453.0 | 2,690.1 | 2,651.5 | 16.9 | 7.9 | 179.28 | -73.9 | 226.9 | 566.8 | 553.3 | 13.48 | 42.060 | | |
| 2,700.0 | 2,545.1 | 2,789.9 | 2,745.0 | 17.7 | 8.6 | 179.57 | -81.0 | 261.2 | 571.0 | 556.9 | 14.11 | 40.467 | | |
| 2,800.0 | 2,637.2 | 2,889.8 | 2,838.5 | 18.6 | 9.3 | 179.86 | -88.2 | 295.5 | 575.2 | 560.5 | 14.75 | 38.995 | | |
| 2,900.0 | 2,729.4 | 2,989.7 | 2,932.0 | 19.4 | 9.9 | -179.86 | -95.3 | 329.8 | 579.4 | 564.0 | 15.40 | 37.631 | | |
| 3,000.0 | 2,821.5 | 3,089.5 | 3,025.6 | 20.3 | 10.6 | -179.58 | -102.4 | 364.1 | 583.7 | 567.6 | 16.05 | 36.365 | | |
| 3,100.0 | 2,913.6 | 3,189.4 | 3,119.1 | 21.1 | 11.3 | -179.31 | -109.5 | 398.4 | 587.9 | 571.2 | 16.71 | 35.188 | | |
| 3,200.0 | 3,005.7 | 3,289.3 | 3,212.6 | 22.0 | 12.0 | -179.04 | -116.6 | 432.8 | 592.2 | 574.8 | 17.37 | 34.091 | | |
| 3,300.0 | 3,097.8 | 3,389.2 | 3,306.1 | 22.8 | 12.8 | -178.78 | -123.7 | 467.1 | 596.5 | 578.4 | 18.04 | 33.067 | | |
| 3,400.0 | 3,190.0 | 3,489.0 | 3,399.7 | 23.6 | 13.5 | -178.52 | -130.8 | 501.4 | 600.8 | 582.1 | 18.71 | 32.109 | | |
| 3,500.0 | 3,282.1 | 3,588.9 | 3,493.2 | 24.5 | 14.2 | -178.26 | -137.9 | 535.7 | 605.1 | 585.7 | 19.39 | 31.210 | | |
| 3,600.0 | 3,374.2 | 3,688.8 | 3,586.7 | 25.3 | 14.9 | -178.00 | -145.1 | 570.0 | 609.4 | 589.3 | 20.07 | 30.366 | | |
| 3,700.0 | 3,466.3 | 3,788.6 | 3,680.2 | 26.2 | 15.7 | -177.75 | -152.2 | 604.3 | 613.7 | 593.0 | 20.75 | 29.572 | | |
| 3,800.0 | 3,558.4 | 3,888.5 | 3,773.7 | 27.0 | 16.4 | -177.51 | -159.3 | 638.6 | 618.1 | 596.6 | 21.44 | 28.824 | | |
| 3,900.0 | 3,650.6 | 3,988.4 | 3,867.3 | 27.9 | 17.1 | -177.26 | -166.4 | 672.9 | 622.4 | 600.3 | 22.14 | 28.118 | | |
| 4,000.0 | 3,742.7 | 4,088.2 | 3,960.8 | 28.7 | 17.8 | -177.02 | -173.5 | 707.2 | 626.8 | 603.9 | 22.83 | 27.451 | | |
| 4,100.0 | 3,834.8 | 4,188.1 | 4,054.3 | 29.5 | 18.6 | -176.79 | -180.6 | 741.5 | 631.2 | 607.6 | 23.53 | 26.819 | | |
| 4,200.0 | 3,926.9 | 4,288.0 | 4,147.8 | 30.4 | 19.3 | -176.55 | -187.7 | 775.9 | 635.5 | 611.3 | 24.24 | 26.220 | | |
| 4,300.0 | 4,019.0 | 4,387.9 | 4,241.4 | 31.2 | 20.1 | -176.32 | -194.9 | 810.2 | 639.9 | 615.0 | 24.95 | 25.651 | | |
| 4,400.0 | 4,111.1 | 4,487.7 | 4,334.9 | 32.1 | 20.8 | -176.09 | -202.0 | 844.5 | 644.3 | 618.7 | 25.66 | 25.111 | | |
| 4,500.0 | 4,203.3 | 4,587.6 | 4,428.4 | 32.9 | 21.5 | -175.87 | -209.1 | 878.8 | 648.7 | 622.4 | 26.38 | 24.596 | | |
| 4,600.0 | 4,295.4 | 4,687.5 | 4,521.9 | 33.8 | 22.3 | -175.65 | -216.2 | 913.1 | 653.2 | 626.1 | 27.10 | 24.106 | | |
| 4,700.0 | 4,387.5 | 4,787.3 | 4,615.4 | 34.6 | 23.0 | -175.43 | -223.3 | 947.4 | 657.6 | 629.8 | 27.82 | 23.638 | | |
| 4,800.0 | 4,479.6 | 4,887.2 | 4,709.0 | 35.5 | 23.8 | -175.22 | -230.4 | 981.7 | 662.0 | 633.5 | 28.55 | 23.192 | | |
| 4,900.0 | 4,571.7 | 4,987.1 | 4,802.5 | 36.3 | 24.5 | -175.00 | -237.5 | 1,016.0 | 666.5 | 637.2 | 29.28 | 22.765 | | |
| 5,000.0 | 4,663.9 | 5,087.0 | 4,896.0 | 37.1 | 25.3 | -174.79 | -244.7 | 1,050.3 | 671.0 | 640.9 | 30.01 | 22.356 | | |
| 5,100.0 | 4,756.0 | 5,186.8 | 4,989.5 | 38.0 | 26.0 | -174.59 | -251.8 | 1,084.6 | 675.4 | 644.7 | 30.75 | 21.965 | | |

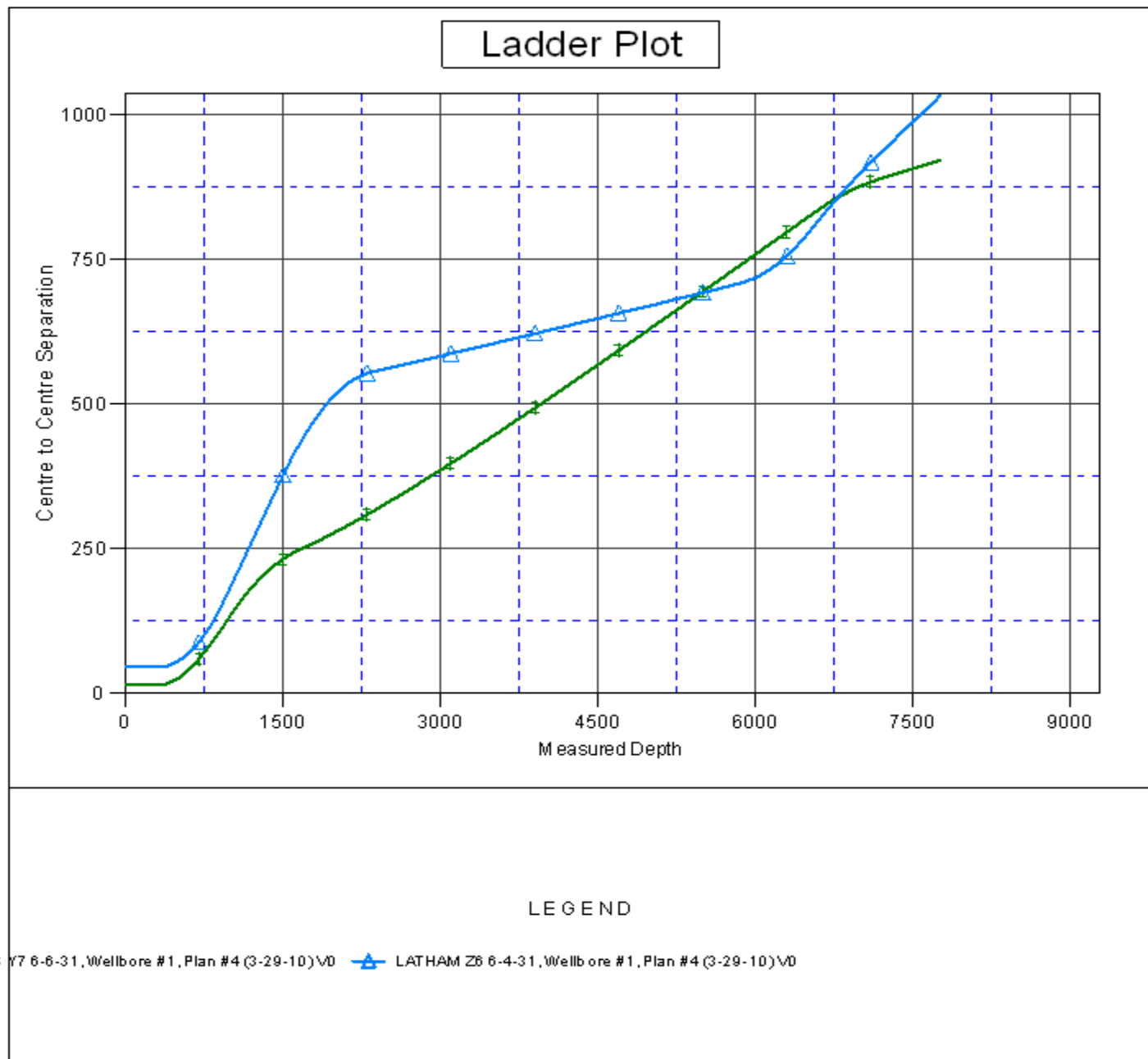
| | | | |
|---------------------------|------------------------|-------------------------------------|--------------------------------------|
| Company: | Mineral Resources Inc | Local Co-ordinate Reference: | Well MCCOUTCHEONS Y8 7-5-31 |
| Project: | SEC.31-T5N-R65W | TVD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Reference Site: | PAD Y SEC.31-T5N-R65W | MD Reference: | WELL @ 4673.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | MCCOUTCHEONS Y8 7-5-31 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | EDM den0-adp01 Server Data |
| Reference Design: | Plan #4 (3-29-10) | Offset TVD Reference: | Offset Datum |

| Offset Design PAD Z SEC.31-T5N-R65W - LATHAM Z6 6-4-31 - Wellbore #1 - Plan #4 (3-29-10) | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 5,200.0 | 4,848.1 | 5,286.7 | 5,083.1 | 38.8 | 26.7 | -174.38 | -258.9 | 1,119.0 | 679.9 | 648.4 | 31.49 | 21.590 | |
| 5,300.0 | 4,940.2 | 5,386.6 | 5,176.6 | 39.7 | 27.5 | -174.18 | -266.0 | 1,153.3 | 684.4 | 652.2 | 32.24 | 21.230 | |
| 5,400.0 | 5,032.3 | 5,486.4 | 5,270.1 | 40.5 | 28.2 | -173.98 | -273.1 | 1,187.6 | 688.9 | 655.9 | 32.99 | 20.884 | |
| 5,500.0 | 5,124.4 | 5,586.3 | 5,363.6 | 41.4 | 29.0 | -173.79 | -280.2 | 1,221.9 | 693.4 | 659.7 | 33.74 | 20.552 | |
| 5,600.0 | 5,216.6 | 5,686.2 | 5,457.1 | 42.2 | 29.7 | -173.59 | -287.3 | 1,256.2 | 697.9 | 663.4 | 34.49 | 20.233 | |
| 5,700.0 | 5,308.7 | 5,786.0 | 5,550.7 | 43.0 | 30.5 | -173.40 | -294.4 | 1,290.5 | 702.4 | 667.2 | 35.25 | 19.925 | |
| 5,800.0 | 5,400.8 | 5,885.9 | 5,644.2 | 43.9 | 31.2 | -173.21 | -301.6 | 1,324.8 | 707.0 | 670.9 | 36.02 | 19.629 | |
| 5,900.0 | 5,492.9 | 5,976.8 | 5,729.4 | 44.7 | 31.9 | -173.05 | -308.0 | 1,355.8 | 711.8 | 675.0 | 36.74 | 19.375 | |
| 6,000.0 | 5,585.0 | 6,056.9 | 5,805.1 | 45.6 | 32.3 | -172.93 | -313.3 | 1,381.4 | 718.9 | 681.6 | 37.38 | 19.232 | |
| 6,100.0 | 5,677.2 | 6,136.7 | 5,881.2 | 46.4 | 32.7 | -172.86 | -318.1 | 1,404.7 | 728.8 | 690.8 | 38.01 | 19.177 SF | |
| 6,200.0 | 5,769.3 | 6,216.0 | 5,957.5 | 47.3 | 33.1 | -172.82 | -322.5 | 1,425.9 | 741.4 | 702.8 | 38.61 | 19.205 | |
| 6,300.0 | 5,861.4 | 6,300.0 | 6,039.0 | 48.1 | 33.5 | -172.81 | -326.7 | 1,446.0 | 756.7 | 717.5 | 39.20 | 19.306 | |
| 6,400.0 | 5,953.5 | 6,372.6 | 6,109.8 | 49.0 | 33.7 | -172.84 | -329.9 | 1,461.6 | 774.6 | 734.9 | 39.74 | 19.494 | |
| 6,500.0 | 6,045.6 | 6,449.8 | 6,185.6 | 49.8 | 34.0 | -172.90 | -332.9 | 1,476.1 | 795.1 | 754.9 | 40.27 | 19.747 | |
| 6,600.0 | 6,138.0 | 6,526.1 | 6,260.9 | 50.6 | 34.2 | -173.01 | -335.5 | 1,488.6 | 817.6 | 776.8 | 40.79 | 20.043 | |
| 6,700.0 | 6,231.5 | 6,600.0 | 6,334.0 | 51.2 | 34.4 | -173.15 | -337.6 | 1,498.7 | 839.5 | 798.3 | 41.26 | 20.349 | |
| 6,800.0 | 6,326.2 | 6,677.9 | 6,411.3 | 51.7 | 34.6 | -173.28 | -339.4 | 1,507.5 | 860.6 | 818.9 | 41.66 | 20.660 | |
| 6,900.0 | 6,422.0 | 6,753.3 | 6,486.4 | 52.2 | 34.7 | -173.41 | -340.8 | 1,513.9 | 880.8 | 838.8 | 41.98 | 20.981 | |
| 7,000.0 | 6,518.7 | 6,828.4 | 6,561.5 | 52.7 | 34.8 | -173.54 | -341.7 | 1,518.5 | 900.2 | 857.9 | 42.24 | 21.312 | |
| 7,100.0 | 6,616.3 | 6,900.0 | 6,633.0 | 53.0 | 34.9 | -173.67 | -342.2 | 1,521.0 | 918.6 | 876.2 | 42.42 | 21.655 | |
| 7,200.0 | 6,714.5 | 6,981.6 | 6,714.5 | 53.4 | 35.0 | -173.79 | -342.4 | 1,521.7 | 936.2 | 893.6 | 42.58 | 21.987 | |
| 7,300.0 | 6,813.0 | 7,080.0 | 6,813.0 | 53.7 | 35.1 | -173.91 | -342.4 | 1,521.7 | 953.5 | 910.6 | 42.93 | 22.209 | |
| 7,400.0 | 6,911.5 | 7,178.5 | 6,911.5 | 54.1 | 35.2 | -174.02 | -342.4 | 1,521.7 | 970.8 | 927.5 | 43.29 | 22.424 | |
| 7,500.0 | 7,010.0 | 7,277.0 | 7,010.0 | 54.5 | 35.3 | -174.12 | -342.4 | 1,521.7 | 988.0 | 944.4 | 43.65 | 22.635 | |
| 7,600.0 | 7,108.5 | 7,375.5 | 7,108.5 | 54.9 | 35.4 | -174.22 | -342.4 | 1,521.7 | 1,005.3 | 961.3 | 44.01 | 22.840 | |
| 7,700.0 | 7,206.9 | 7,474.0 | 7,206.9 | 55.2 | 35.5 | -174.32 | -342.4 | 1,521.7 | 1,022.6 | 978.2 | 44.38 | 23.041 | |
| 7,759.0 | 7,265.0 | 7,532.0 | 7,265.0 | 55.5 | 35.5 | -174.38 | -342.4 | 1,521.7 | 1,032.8 | 988.2 | 44.60 | 23.157 | |

Company: Mineral Resources Inc
Project: SEC.31-T5N-R65W
Reference Site: PAD Y SEC.31-T5N-R65W
Site Error: 0.0ft
Reference Well: MCCOUTCHEONS Y8 7-5-31
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #4 (3-29-10)

Local Co-ordinate Reference: Well MCCOUTCHEONS Y8 7-5-31
TVD Reference: WELL @ 4673.0ft (Original Well Elev)
MD Reference: WELL @ 4673.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM den0-adp01 Server Data
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 4673.0ft (Original Well Elev) Coordinates are relative to: MCCOUTCHEONS Y8 7-5-31
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.51°

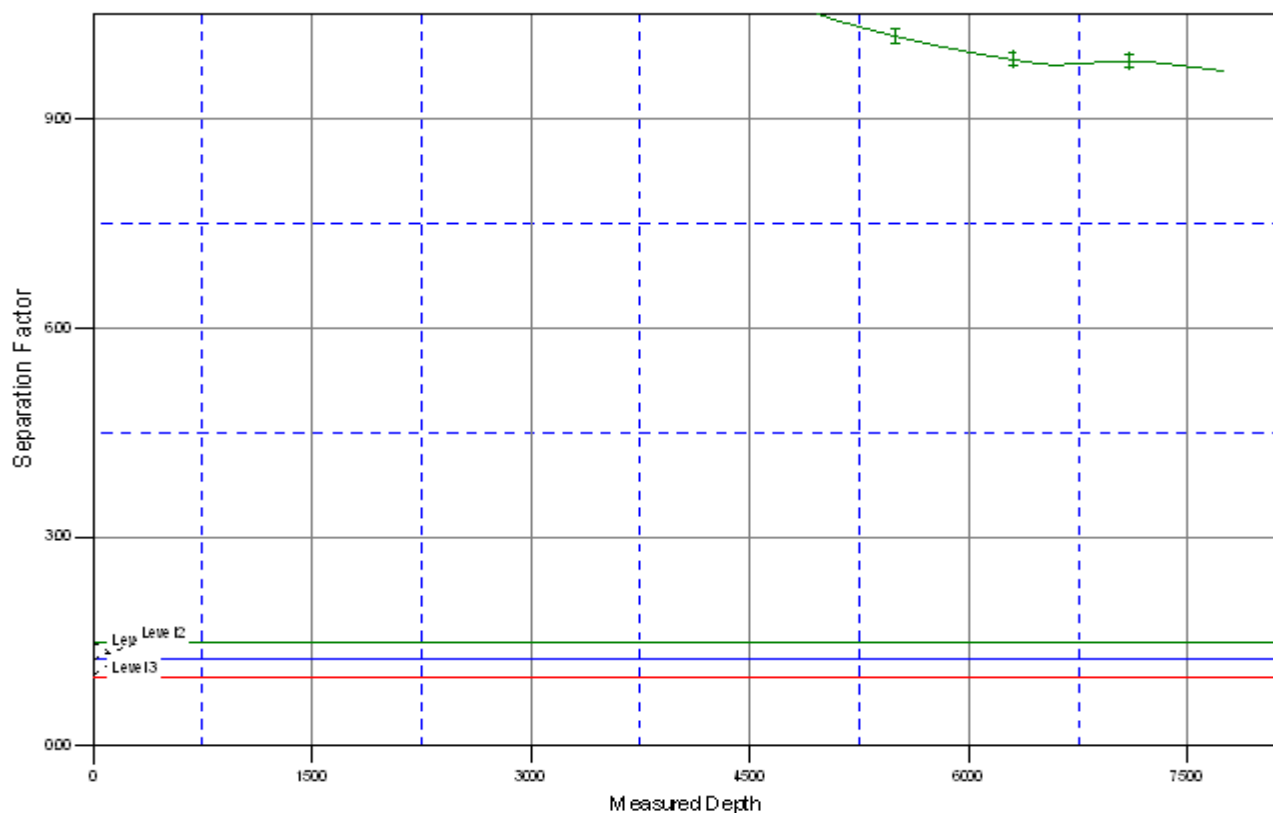


Company: Mineral Resources Inc
Project: SEC.31-T5N-R65W
Reference Site: PAD Y SEC.31-T5N-R65W
Site Error: 0.0ft
Reference Well: MCCOUTCHEONS Y8 7-5-31
Well Error: 0.0ft
Reference Wellbore: Wellbore #1
Reference Design: Plan #4 (3-29-10)

Local Co-ordinate Reference: Well MCCOUTCHEONS Y8 7-5-31
TVD Reference: WELL @ 4673.0ft (Original Well Elev)
MD Reference: WELL @ 4673.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM den0-adp01 Server Data
Offset TVD Reference: Offset Datum

Reference Depths are relative to WELL @ 4673.0ft (Original Well Elev) Coordinates are relative to: MCCOUTCHEONS Y8 7-5-31
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
Central Meridian is 105° 30' 0.000 W ° Grid Convergence at Surface is: 0.51°

Separation Factor Plot



LEGEND

S Y7 6-6-31, Wellbore #1, Plan #4 (3-29-10) VD  LATHAM Z8 6-4-31, Wellbore #1, Plan #4 (3-29-10) VD