



Job Number: SVMO-141656  
 Company: Murchison Oil & Gas  
 Lease/Well: Jackson Unit #033H  
 Location: Lea County, NM  
 Rig Name: Nabors #M29  
 RKB: 22'  
 G.L. or M.S.L.: GL

State/Country: New Mexico/USA  
 Declination: 7.19°  
 Grid: East To Grid North  
 File name: Y:\WINSER~1\2014SU~1\MURCHI~1\MOLJACKSON\033H.SVY  
 Date/Time: 10-Dec-14 / 15:58  
 Curve Name: Surface - 10207' M.D. (Rate Gyro)

RECEIVED  
 FEB 02 2015  
 HOBBSOCD

### MS Survey

WINSERVE SURVEY CALCULATIONS  
 Minimum Curvature Method  
 Vertical Section Plane .00  
 Vertical Section Referenced to Wellhead  
 Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from  
 Surface MD to 10207 MD is, to the best of  
 our knowledge a true and accurate account of  
 the well bore.

Clayton Turner 12/10/14  
 MS Energy Services Date

30-025-10207.00

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| .00                     | .00                  | .00                       | .00                       | .00       | .00       | .00                       | .00            | .00              | .00                           |
| 200.00                  | .15                  | 212.63                    | 200.00                    | -.22      | -.14      | -.22                      | .26            | 212.63           | .07                           |
| 400.00                  | .27                  | 218.78                    | 400.00                    | -.81      | -.58      | -.81                      | .99            | 215.54           | .06                           |
| 600.00                  | .50                  | 207.46                    | 599.99                    | -1.95     | -1.28     | -1.95                     | 2.33           | 213.18           | .12                           |
| 800.00                  | .88                  | 203.14                    | 799.98                    | -4.14     | -2.28     | -4.14                     | 4.72           | 208.87           | .19                           |
| 1000.00                 | 1.25                 | 200.72                    | 999.94                    | -7.59     | -3.66     | -7.59                     | 8.42           | 205.72           | .19                           |
| 1200.00                 | 1.27                 | 203.36                    | 1199.90                   | -11.66    | -5.31     | -11.66                    | 12.81          | 204.46           | .03                           |
| 1400.00                 | 1.22                 | 232.31                    | 1399.85                   | -15.00    | -7.87     | -15.00                    | 16.94          | 207.69           | .31                           |
| 1600.00                 | 1.42                 | 259.34                    | 1599.80                   | -16.76    | -11.99    | -16.76                    | 20.61          | 215.58           | .32                           |
| 1800.00                 | 1.07                 | 271.85                    | 1799.75                   | -17.16    | -16.29    | -17.16                    | 23.66          | 223.52           | .22                           |

JUL 07 2015

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 2000.00                 | .99                  | 280.42                    | 1999.72                   | -16.79    | -19.86    | -16.79                    | 26.00          | 229.79           | .09                           |
| 2200.00                 | .50                  | 305.52                    | 2199.70                   | -15.97    | -22.27    | -15.97                    | 27.40          | 234.36           | .29                           |
| 2400.00                 | .86                  | 322.21                    | 2399.69                   | -14.27    | -23.90    | -14.27                    | 27.84          | 239.15           | .20                           |
| 2600.00                 | 1.67                 | 338.32                    | 2599.64                   | -10.38    | -25.89    | -10.38                    | 27.90          | 248.16           | .44                           |
| 2800.00                 | 1.30                 | 335.69                    | 2799.57                   | -5.60     | -27.90    | -5.60                     | 28.46          | 258.65           | .19                           |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 3000.00                 | 1.12                 | 337.24                    | 2999.53                   | -1.73     | -29.60    | -1.73                     | 29.65          | 266.65           | .09                           |
| 3200.00                 | 1.09                 | 343.61                    | 3199.49                   | 1.89      | -30.89    | 1.89                      | 30.95          | 273.51           | .06                           |
| 3400.00                 | 1.42                 | 357.93                    | 3399.44                   | 6.20      | -31.51    | 6.20                      | 32.12          | 281.12           | .23                           |
| 3600.00                 | .71                  | 38.01                     | 3599.41                   | 9.65      | -30.84    | 9.65                      | 32.31          | 287.37           | .49                           |
| 3800.00                 | .43                  | 51.72                     | 3799.40                   | 11.09     | -29.49    | 11.09                     | 31.50          | 290.61           | .15                           |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 4000.00                 | .25                  | 113.07                    | 3999.40                   | 11.38     | -28.50    | 11.38                     | 30.69          | 291.77           | .19                           |
| 4200.00                 | .59                  | 30.59                     | 4199.39                   | 12.10     | -27.57    | 12.10                     | 30.11          | 293.69           | .30                           |
| 4400.00                 | 3.14                 | 80.97                     | 4399.28                   | 13.85     | -21.64    | 13.85                     | 25.69          | 302.61           | 1.40                          |
| 4600.00                 | 3.15                 | 110.32                    | 4598.99                   | 12.80     | -11.07    | 12.80                     | 16.92          | 319.13           | .80                           |
| 4800.00                 | 6.34                 | 117.72                    | 4798.28                   | 5.75      | 3.86      | 5.75                      | 6.92           | 33.86            | 1.62                          |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 5000.00                 | 4.64                 | 127.14                    | 4997.36                   | -4.27     | 20.08     | -4.27                     | 20.53          | 102.01           | .96                           |
| 5200.00                 | 2.87                 | 128.13                    | 5196.92                   | -12.25    | 30.47     | -12.25                    | 32.84          | 111.90           | .89                           |
| 5400.00                 | 2.21                 | 119.83                    | 5396.72                   | -17.26    | 37.76     | -17.26                    | 41.51          | 114.56           | .38                           |
| 5600.00                 | 1.68                 | 114.42                    | 5596.61                   | -20.39    | 43.77     | -20.39                    | 48.29          | 114.98           | .28                           |
| 5800.00                 | .65                  | 170.12                    | 5796.57                   | -22.72    | 46.63     | -22.72                    | 51.87          | 115.97           | .71                           |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 6000.00                 | .57                  | 181.74                    | 5996.56                   | -24.83    | 46.80     | -24.83                    | 52.98          | 117.95           | .07                           |
| 6200.00                 | .69                  | 179.81                    | 6196.54                   | -27.03    | 46.77     | -27.03                    | 54.02          | 120.02           | .06                           |
| 6400.00                 | .58                  | 201.18                    | 6396.53                   | -29.18    | 46.41     | -29.18                    | 54.82          | 122.16           | .13                           |
| 6600.00                 | .52                  | 215.27                    | 6596.52                   | -30.86    | 45.52     | -30.86                    | 55.00          | 124.14           | .07                           |
| 6800.00                 | .53                  | 226.17                    | 6796.51                   | -32.24    | 44.33     | -32.24                    | 54.82          | 126.03           | .05                           |
|                         |                      |                           |                           |           |           |                           |                |                  |                               |
| 7000.00                 | .44                  | 207.79                    | 6996.51                   | -33.56    | 43.30     | -33.56                    | 54.79          | 127.78           | .09                           |
| 7200.00                 | .56                  | 227.19                    | 7196.50                   | -34.91    | 42.23     | -34.91                    | 54.79          | 129.58           | .10                           |
| 7400.00                 | .46                  | 220.37                    | 7396.49                   | -36.18    | 40.99     | -36.18                    | 54.68          | 131.43           | .06                           |
| 7600.00                 | .62                  | 204.39                    | 7596.48                   | -37.78    | 40.03     | -37.78                    | 55.04          | 133.35           | .11                           |

| Measured<br>Depth<br>FT           | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-----------------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                                   |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 7800.00                           | .69                  | 195.79                    | 7796.47                   | -39.92    | 39.25     | -39.92                    | 55.99          | 135.49           | .06                           |
| 8000.00                           | .75                  | 194.00                    | 7996.45                   | -42.35    | 38.61     | -42.35                    | 57.31          | 137.65           | .03                           |
| 8200.00                           | .84                  | 200.15                    | 8196.44                   | -45.00    | 37.79     | -45.00                    | 58.76          | 139.98           | .06                           |
| 8400.00                           | .85                  | 205.16                    | 8396.41                   | -47.72    | 36.65     | -47.72                    | 60.17          | 142.47           | .04                           |
| 8600.00                           | .74                  | 206.39                    | 8596.39                   | -50.22    | 35.44     | -50.22                    | 61.47          | 144.78           | .06                           |
| 8800.00                           | .65                  | 218.07                    | 8796.38                   | -52.27    | 34.17     | -52.27                    | 62.45          | 146.82           | .08                           |
| 9000.00                           | .26                  | 221.88                    | 8996.37                   | -53.50    | 33.17     | -53.50                    | 62.95          | 148.20           | .20                           |
| 9200.00                           | .23                  | 249.84                    | 9196.37                   | -53.97    | 32.49     | -53.97                    | 63.00          | 148.95           | .06                           |
| 9400.00                           | 1.11                 | 299.43                    | 9396.36                   | -53.16    | 30.43     | -53.16                    | 61.25          | 150.22           | .49                           |
| 9600.00                           | 2.40                 | 289.10                    | 9596.26                   | -50.84    | 24.78     | -50.84                    | 56.56          | 154.01           | .66                           |
| 9800.00                           | 4.32                 | 301.23                    | 9795.91                   | -45.56    | 14.38     | -45.56                    | 47.78          | 162.48           | 1.02                          |
| 10000.00                          | 4.14                 | 296.25                    | 9995.36                   | -38.46    | 1.47      | -38.46                    | 38.49          | 177.82           | .20                           |
| 10200.00                          | 3.62                 | 284.46                    | 10194.91                  | -33.69    | -11.12    | -33.69                    | 35.48          | 198.27           | .47                           |
| <b>Last Survey Depth Recorded</b> |                      |                           |                           |           |           |                           |                |                  |                               |
| 10207.00                          | 3.72                 | 283.80                    | 10201.89                  | -33.59    | -11.56    | -33.59                    | 35.52          | 198.99           | 1.55                          |

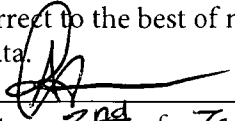
**Murchison Oil and Gas**  
Jackson Unit #33H

**Survey: Final Survey**

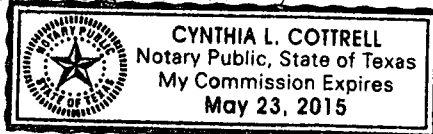
**MOJO Survey**

**19 December, 2014**

This survey is correct to the best of my knowledge and is supported by actual field data.

 (Signature)  
Notarized this date 2nd of January, 2015 cc

Cynthia L. Cottrell  
Notary Signature County of Collin State of Texas



MOBISCOPE  
FEB 02 2015  
RECEIVED



## MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

|                    |                           |                      |                             |
|--------------------|---------------------------|----------------------|-----------------------------|
| <b>Project</b>     | Jackson Unit Section 16   |                      |                             |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                             |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      | Using geodetic scale factor |

|                              |                  |                          |                   |
|------------------------------|------------------|--------------------------|-------------------|
| <b>Site</b>                  | Jackson Unit 33H |                          |                   |
| <b>Site Position:</b>        |                  | <b>Northing:</b>         | 446,289.38 usft   |
| <b>From:</b>                 | Lat/Long         | <b>Easting:</b>          | 776,276.18 usft   |
| <b>Position Uncertainty:</b> | 0.0 usft         | <b>Slot Radius:</b>      | 13-3/16 "         |
|                              |                  | <b>Latitude:</b>         | 32° 13' 28.713 N  |
|                              |                  | <b>Longitude:</b>        | 103° 34' 24.920 W |
|                              |                  | <b>Grid Convergence:</b> | 0.41 °            |

|                             |                   |          |                            |                   |
|-----------------------------|-------------------|----------|----------------------------|-------------------|
| <b>Well</b>                 | Jackson Unit #33H |          |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>      | 0.0 usft | <b>Northing:</b>           | 446,289.38 usft   |
|                             | <b>+E/-W</b>      | 0.0 usft | <b>Easting:</b>            | 776,276.18 usft   |
| <b>Position Uncertainty</b> |                   | 0.0 usft | <b>Wellhead Elevation:</b> | usft              |
|                             |                   |          | <b>Latitude:</b>           | 32° 13' 28.713 N  |
|                             |                   |          | <b>Longitude:</b>          | 103° 34' 24.920 W |
|                             |                   |          | <b>Ground Level:</b>       | 3,617.8 usft      |

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Wellbore</b>  | Jackson Unit #33H |                    |                            |                          |                                |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | IGRF2010          | 09/05/14           | 7.19                       | 60.11                    | 48,292                         |

|                          |                                    |                         |                         |                          |     |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|-----|
| <b>Design</b>            | Jackson Unit #33H Actual           |                         |                         |                          |     |
| <b>Audit Notes:</b>      |                                    |                         |                         |                          |     |
| <b>Version:</b>          | 1.0                                | <b>Phase:</b>           | ACTUAL                  | <b>Tie On Depth:</b>     | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |     |
|                          | 0.0                                | 0.0                     | 0.0                     | 182.53                   |     |

|                        |                      |                               |                  |                    |
|------------------------|----------------------|-------------------------------|------------------|--------------------|
| <b>Survey Program</b>  | Date 12/19/14        |                               |                  |                    |
| <b>From<br/>(usft)</b> | <b>To<br/>(usft)</b> | <b>Survey (Wellbore)</b>      | <b>Tool Name</b> | <b>Description</b> |
| 200.0                  | 15,754.0             | Survey #1 (Jackson Unit #33H) | MWD              | MWD - Standard     |

## MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey         |            |                      |               |                 |               |               |                     |                  |                    |                   |
|----------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft)   | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 0.0            | 0.00       | 0.00                 | 0.0           | -3,639.8        | 0.0           | 0.0           | 0.00                | 0.0              | 446,289.38         | 776,276.18        |
| 200.0          | 0.15       | 212.63               | 200.0         | -3,439.8        | -0.2          | -0.1          | 0.07                | 0.2              | 446,289.16         | 776,276.04        |
| 400.0          | 0.27       | 218.78               | 400.0         | -3,239.8        | -0.8          | -0.6          | 0.06                | 0.8              | 446,288.57         | 776,275.61        |
| 600.0          | 0.50       | 207.46               | 600.0         | -3,039.8        | -2.0          | -1.3          | 0.12                | 2.0              | 446,287.43         | 776,274.91        |
| 800.0          | 0.88       | 203.14               | 800.0         | -2,839.8        | -4.1          | -2.3          | 0.19                | 4.2              | 446,285.24         | 776,273.90        |
| 1,000.0        | 1.25       | 200.72               | 999.9         | -2,639.9        | -7.6          | -3.7          | 0.19                | 7.7              | 446,281.79         | 776,272.53        |
| 1,200.0        | 1.27       | 203.36               | 1,199.9       | -2,439.9        | -11.7         | -5.3          | 0.03                | 11.9             | 446,277.72         | 776,270.88        |
| 1,280.1        | 1.21       | 214.61               | 1,280.0       | -2,359.8        | -13.2         | -6.1          | 0.31                | 13.4             | 446,276.20         | 776,270.04        |
| <b>Rustler</b> |            |                      |               |                 |               |               |                     |                  |                    |                   |
| 1,288.0        | 1.21       | 215.77               | 1,287.9       | -2,351.9        | -13.3         | -6.2          | 0.31                | 13.6             | 446,276.07         | 776,269.95        |
| <b>13 3/8"</b> |            |                      |               |                 |               |               |                     |                  |                    |                   |
| 1,400.0        | 1.22       | 232.31               | 1,399.9       | -2,239.9        | -15.0         | -7.9          | 0.31                | 15.3             | 446,274.38         | 776,268.31        |
| 1,600.0        | 1.42       | 259.34               | 1,599.8       | -2,040.0        | -16.8         | -12.0         | 0.32                | 17.3             | 446,272.62         | 776,264.19        |
| 1,800.0        | 1.07       | 271.85               | 1,799.8       | -1,840.0        | -17.2         | -16.3         | 0.22                | 17.9             | 446,272.22         | 776,259.89        |
| 2,000.0        | 0.99       | 280.42               | 1,999.7       | -1,640.1        | -16.8         | -19.9         | 0.09                | 17.6             | 446,272.59         | 776,256.33        |
| 2,200.0        | 0.50       | 305.52               | 2,199.7       | -1,440.1        | -16.0         | -22.3         | 0.29                | 16.9             | 446,273.41         | 776,253.92        |
| 2,400.0        | 0.86       | 322.21               | 2,399.7       | -1,240.1        | -14.3         | -23.9         | 0.20                | 15.3             | 446,275.11         | 776,252.29        |
| 2,600.0        | 1.67       | 338.32               | 2,599.6       | -1,040.2        | -10.4         | -25.9         | 0.44                | 11.5             | 446,279.00         | 776,250.29        |
| 2,800.0        | 1.30       | 335.69               | 2,799.6       | -840.2          | -5.6          | -27.9         | 0.19                | 6.8              | 446,283.78         | 776,248.28        |
| 3,000.0        | 1.12       | 337.24               | 2,999.5       | -640.3          | -1.7          | -29.6         | 0.09                | 3.0              | 446,287.65         | 776,246.59        |
| 3,200.0        | 1.09       | 343.61               | 3,199.5       | -440.3          | 1.9           | -30.9         | 0.06                | -0.5             | 446,291.27         | 776,245.30        |
| 3,400.0        | 1.42       | 357.93               | 3,399.4       | -240.4          | 6.2           | -31.5         | 0.23                | -4.8             | 446,295.58         | 776,244.67        |
| 3,600.0        | 0.71       | 38.01                | 3,599.4       | -40.4           | 9.6           | -30.8         | 0.49                | -8.3             | 446,299.03         | 776,245.34        |
| 3,800.0        | 0.43       | 51.72                | 3,799.4       | 159.6           | 11.1          | -29.5         | 0.15                | -9.8             | 446,300.47         | 776,246.70        |
| 4,000.0        | 0.25       | 113.07               | 3,999.4       | 359.6           | 11.4          | -28.5         | 0.19                | -10.1            | 446,300.76         | 776,247.69        |
| 4,200.0        | 0.59       | 30.59                | 4,199.4       | 559.6           | 12.1          | -27.6         | 0.30                | -10.9            | 446,301.48         | 776,248.61        |
| 4,400.0        | 3.14       | 80.97                | 4,399.3       | 759.5           | 13.8          | -21.6         | 1.40                | -12.9            | 446,303.23         | 776,254.55        |

MOJO Survey

|                                         |  |  |  |                                                              |  |  |  |
|-----------------------------------------|--|--|--|--------------------------------------------------------------|--|--|--|
| <b>Company:</b> Murchison Oil and Gas   |  |  |  | <b>Local Co-ordinate Reference:</b> Well Jackson Unit #33H   |  |  |  |
| <b>Project:</b> Jackson Unit Section 16 |  |  |  | <b>TVD Reference:</b> WELL @ 3639.8usft (Original Well Elev) |  |  |  |
| <b>Site:</b> Jackson Unit 33H           |  |  |  | <b>MD Reference:</b> WELL @ 3639.8usft (Original Well Elev)  |  |  |  |
| <b>Well:</b> Jackson Unit #33H          |  |  |  | <b>North Reference:</b> Grid                                 |  |  |  |
| <b>Wellbore:</b> Jackson Unit #33H      |  |  |  | <b>Survey Calculation Method:</b> Minimum Curvature          |  |  |  |
| <b>Design:</b> Jackson Unit #33H Actual |  |  |  | <b>Database:</b> EDM 5000.1 Single User Db                   |  |  |  |

| Survey        |            |                      |               |                 |               |               |                     |                  |                    |                   |  |
|---------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|--|
| MD<br>(usft)  | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |  |
| 4,600.0       | 3.15       | 110.32               | 4,599.0       | 959.2           | 12.8          | -11.1         | 0.80                | -12.3            | 446,302.18         | 776,265.11        |  |
| 4,800.0       | 6.34       | 117.72               | 4,798.3       | 1,158.5         | 5.8           | 3.9           | 1.62                | -5.9             | 446,295.13         | 776,280.04        |  |
| 5,000.0       | 4.64       | 127.14               | 4,997.4       | 1,357.6         | -4.3          | 20.1          | 0.96                | 3.4              | 446,285.11         | 776,296.27        |  |
| 5,104.0       | 3.72       | 127.54               | 5,101.1       | 1,461.3         | -8.9          | 26.1          | 0.89                | 7.7              | 446,280.51         | 776,302.29        |  |
| 9 5/8"        |            |                      |               |                 |               |               |                     |                  |                    |                   |  |
| 5,200.0       | 2.87       | 128.13               | 5,196.9       | 1,557.1         | -12.2         | 30.5          | 0.89                | 10.9             | 446,277.13         | 776,306.65        |  |
| 5,243.1       | 2.72       | 126.68               | 5,240.0       | 1,600.2         | -13.5         | 32.1          | 0.38                | 12.1             | 446,275.85         | 776,308.33        |  |
| Delaware      |            |                      |               |                 |               |               |                     |                  |                    |                   |  |
| 5,400.0       | 2.21       | 119.83               | 5,396.7       | 1,756.9         | -17.3         | 37.8          | 0.38                | 15.6             | 446,272.12         | 776,313.94        |  |
| 5,600.0       | 1.68       | 114.42               | 5,596.6       | 1,956.8         | -20.4         | 43.8          | 0.28                | 18.4             | 446,268.99         | 776,319.95        |  |
| 5,800.0       | 0.65       | 170.12               | 5,796.6       | 2,156.8         | -22.7         | 46.6          | 0.71                | 20.6             | 446,266.66         | 776,322.82        |  |
| 6,000.0       | 0.57       | 181.74               | 5,996.6       | 2,356.8         | -24.8         | 46.8          | 0.07                | 22.7             | 446,264.55         | 776,322.98        |  |
| 6,200.0       | 0.69       | 179.81               | 6,196.5       | 2,556.7         | -27.0         | 46.8          | 0.06                | 24.9             | 446,262.35         | 776,322.96        |  |
| 6,229.5       | 0.67       | 182.48               | 6,226.0       | 2,586.2         | -27.4         | 46.8          | 0.13                | 25.3             | 446,262.00         | 776,322.95        |  |
| Cherry Canyon |            |                      |               |                 |               |               |                     |                  |                    |                   |  |
| 6,400.0       | 0.58       | 201.18               | 6,396.5       | 2,756.7         | -29.2         | 46.4          | 0.13                | 27.1             | 446,260.20         | 776,322.59        |  |
| 6,600.0       | 0.52       | 215.27               | 6,596.5       | 2,956.7         | -30.9         | 45.5          | 0.07                | 28.8             | 446,258.52         | 776,321.70        |  |
| 6,800.0       | 0.53       | 226.17               | 6,796.5       | 3,156.7         | -32.2         | 44.3          | 0.05                | 30.3             | 446,257.14         | 776,320.51        |  |
| 7,000.0       | 0.44       | 207.79               | 6,996.5       | 3,356.7         | -33.6         | 43.3          | 0.09                | 31.6             | 446,255.82         | 776,319.49        |  |
| 7,200.0       | 0.56       | 227.19               | 7,196.5       | 3,556.7         | -34.9         | 42.2          | 0.10                | 33.0             | 446,254.48         | 776,318.41        |  |
| 7,400.0       | 0.46       | 220.37               | 7,396.5       | 3,756.7         | -36.2         | 41.0          | 0.06                | 34.3             | 446,253.20         | 776,317.18        |  |
| 7,591.5       | 0.61       | 204.89               | 7,588.0       | 3,948.2         | -37.7         | 40.1          | 0.11                | 35.9             | 446,251.69         | 776,316.25        |  |
| Brushy Canyon |            |                      |               |                 |               |               |                     |                  |                    |                   |  |
| 7,600.0       | 0.62       | 204.39               | 7,596.5       | 3,956.7         | -37.8         | 40.0          | 0.11                | 36.0             | 446,251.60         | 776,316.21        |  |
| 7,800.0       | 0.69       | 195.79               | 7,796.5       | 4,156.7         | -39.9         | 39.3          | 0.06                | 38.2             | 446,249.46         | 776,315.43        |  |
| 8,000.0       | 0.75       | 194.00               | 7,996.5       | 4,356.7         | -42.4         | 38.6          | 0.03                | 40.6             | 446,247.03         | 776,314.79        |  |
| 8,200.0       | 0.84       | 200.15               | 8,196.4       | 4,556.6         | -45.0         | 37.8          | 0.06                | 43.3             | 446,244.38         | 776,313.97        |  |
| 8,400.0       | 0.85       | 205.16               | 8,396.4       | 4,756.6         | -47.7         | 36.6          | 0.04                | 46.1             | 446,241.66         | 776,312.83        |  |

## MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey                 |            |                      |               |                 |               |               |                     |                  |                    |                   |
|------------------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft)           | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 8,600.0                | 0.74       | 206.39               | 8,596.4       | 4,956.6         | -50.2         | 35.4          | 0.06                | 48.6             | 446,239.16         | 776,311.63        |
| 8,800.0                | 0.65       | 218.07               | 8,796.4       | 5,156.6         | -52.3         | 34.2          | 0.08                | 50.7             | 446,237.11         | 776,310.35        |
| 9,000.0                | 0.26       | 221.88               | 8,996.4       | 5,356.6         | -53.5         | 33.2          | 0.20                | 52.0             | 446,235.88         | 776,309.35        |
| 9,143.6                | 0.23       | 241.34               | 9,140.0       | 5,500.2         | -53.9         | 32.7          | 0.06                | 52.4             | 446,235.50         | 776,308.88        |
| <b>Bone Spring</b>     |            |                      |               |                 |               |               |                     |                  |                    |                   |
| 9,200.0                | 0.23       | 249.84               | 9,196.4       | 5,556.6         | -54.0         | 32.5          | 0.06                | 52.5             | 446,235.41         | 776,308.67        |
| 9,263.6                | 0.47       | 284.72               | 9,260.0       | 5,620.2         | -54.0         | 32.1          | 0.49                | 52.5             | 446,235.43         | 776,308.30        |
| <b>Avalon Shale</b>    |            |                      |               |                 |               |               |                     |                  |                    |                   |
| 9,400.0                | 1.11       | 299.43               | 9,396.4       | 5,756.6         | -53.2         | 30.4          | 0.49                | 51.8             | 446,236.22         | 776,306.61        |
| 9,600.0                | 2.40       | 289.10               | 9,596.3       | 5,956.5         | -50.8         | 24.8          | 0.66                | 49.7             | 446,238.54         | 776,300.96        |
| 9,800.0                | 4.32       | 301.23               | 9,795.9       | 6,156.1         | -45.6         | 14.4          | 1.02                | 44.9             | 446,243.82         | 776,290.56        |
| 10,000.0               | 4.14       | 296.25               | 9,995.4       | 6,355.6         | -38.5         | 1.5           | 0.20                | 38.4             | 446,250.92         | 776,277.65        |
| 10,200.0               | 3.62       | 284.46               | 10,194.9      | 6,555.1         | -33.7         | -11.1         | 0.47                | 34.2             | 446,255.69         | 776,265.06        |
| 10,205.1               | 3.69       | 283.98               | 10,200.0      | 6,560.2         | -33.6         | -11.4         | 1.55                | 34.1             | 446,255.77         | 776,264.74        |
| <b>1st Bone Spring</b> |            |                      |               |                 |               |               |                     |                  |                    |                   |
| 10,207.0               | 3.72       | 283.80               | 10,201.9      | 6,562.1         | -33.6         | -11.6         | 1.55                | 34.1             | 446,255.80         | 776,264.63        |
| 10,381.0               | 2.70       | 257.50               | 10,375.6      | 6,735.8         | -33.1         | -21.0         | 1.01                | 34.0             | 446,256.26         | 776,255.14        |
| 10,428.0               | 3.70       | 214.00               | 10,422.6      | 6,782.8         | -34.6         | -23.0         | 5.42                | 35.6             | 446,254.76         | 776,253.21        |
| 10,472.0               | 9.20       | 184.20               | 10,466.3      | 6,826.5         | -39.3         | -24.0         | 14.23               | 40.3             | 446,250.07         | 776,252.16        |
| 10,519.0               | 16.00      | 187.80               | 10,512.1      | 6,872.3         | -49.5         | -25.2         | 14.56               | 50.6             | 446,239.89         | 776,251.01        |
| 10,567.0               | 21.50      | 195.70               | 10,557.6      | 6,917.8         | -64.5         | -28.5         | 12.60               | 65.7             | 446,224.86         | 776,247.72        |
| 10,614.0               | 25.00      | 202.50               | 10,600.7      | 6,960.9         | -82.0         | -34.6         | 9.37                | 83.4             | 446,207.38         | 776,241.59        |
| 10,662.0               | 26.40      | 206.00               | 10,644.0      | 7,004.2         | -101.0        | -43.2         | 4.30                | 102.8            | 446,188.42         | 776,233.03        |
| 10,709.0               | 25.50      | 206.30               | 10,686.3      | 7,046.5         | -119.4        | -52.2         | 1.94                | 121.6            | 446,169.96         | 776,223.97        |
| 10,759.0               | 28.90      | 208.40               | 10,730.7      | 7,090.9         | -139.7        | -62.7         | 7.06                | 142.3            | 446,149.68         | 776,213.45        |
| 10,804.0               | 30.10      | 207.60               | 10,769.9      | 7,130.1         | -159.3        | -73.1         | 2.81                | 162.3            | 446,130.11         | 776,203.05        |
| 10,852.0               | 34.00      | 205.70               | 10,810.6      | 7,170.8         | -182.0        | -84.5         | 8.39                | 185.6            | 446,107.34         | 776,191.65        |

MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey                 |             |                      |               |                 |               |               |                     |                  |                    |                   |
|------------------------|-------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft)           | Inc.<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 10,900.0               | 38.10       | 206.80               | 10,849.4      | 7,209.6         | -207.4        | -97.0         | 8.65                | 211.4            | 446,082.02         | 776,179.15        |
| <b>Jackson 33H BHL</b> |             |                      |               |                 |               |               |                     |                  |                    |                   |
| 10,944.0               | 43.10       | 206.60               | 10,882.8      | 7,243.0         | -232.9        | -109.9        | 11.37               | 237.6            | 446,056.45         | 776,166.29        |
| 10,992.0               | 49.00       | 204.90               | 10,916.1      | 7,276.3         | -264.1        | -124.9        | 12.55               | 269.3            | 446,025.33         | 776,151.30        |
| 11,021.7               | 51.78       | 203.93               | 10,935.0      | 7,295.2         | -284.9        | -134.3        | 9.69                | 290.6            | 446,004.49         | 776,141.85        |
| <b>2nd Bone Spring</b> |             |                      |               |                 |               |               |                     |                  |                    |                   |
| 11,039.0               | 53.40       | 203.40               | 10,945.5      | 7,305.7         | -297.5        | -139.9        | 9.69                | 303.4            | 445,991.91         | 776,136.34        |
| 11,088.0               | 56.80       | 201.70               | 10,973.5      | 7,333.7         | -334.6        | -155.2        | 7.50                | 341.1            | 445,954.80         | 776,120.94        |
| 11,136.0               | 62.80       | 200.70               | 10,997.7      | 7,357.9         | -373.3        | -170.2        | 12.63               | 380.4            | 445,916.14         | 776,105.96        |
| 11,182.0               | 71.40       | 199.50               | 11,015.6      | 7,375.8         | -413.0        | -184.8        | 18.85               | 420.8            | 445,876.38         | 776,091.42        |
| 11,197.0               | 74.00       | 198.70               | 11,020.0      | 7,380.2         | -426.5        | -189.5        | 18.07               | 434.5            | 445,862.84         | 776,086.74        |
| 11,212.0               | 76.50       | 197.50               | 11,023.8      | 7,384.0         | -440.3        | -194.0        | 18.37               | 448.5            | 445,849.06         | 776,082.23        |
| 11,261.0               | 84.00       | 192.70               | 11,032.1      | 7,392.3         | -486.9        | -206.5        | 18.09               | 495.6            | 445,802.48         | 776,069.69        |
| 11,308.0               | 88.80       | 190.20               | 11,035.1      | 7,395.3         | -532.9        | -215.8        | 11.51               | 541.9            | 445,756.52         | 776,060.38        |
| 11,356.0               | 89.60       | 189.50               | 11,035.8      | 7,396.0         | -580.2        | -224.0        | 2.21                | 589.5            | 445,709.23         | 776,052.17        |
| 11,409.0               | 89.60       | 188.90               | 11,036.1      | 7,396.3         | -632.5        | -232.5        | 1.13                | 642.1            | 445,656.92         | 776,043.70        |
| 11,451.0               | 89.90       | 187.50               | 11,036.3      | 7,396.5         | -674.0        | -238.5        | 3.41                | 683.9            | 445,615.35         | 776,037.71        |
| 11,499.0               | 91.40       | 186.80               | 11,035.8      | 7,396.0         | -721.7        | -244.5        | 3.45                | 731.8            | 445,567.73         | 776,031.73        |
| 11,543.0               | 92.40       | 186.40               | 11,034.3      | 7,394.5         | -765.4        | -249.5        | 2.45                | 775.6            | 445,524.05         | 776,026.68        |
| 11,594.0               | 91.70       | 185.90               | 11,032.5      | 7,392.7         | -816.0        | -255.0        | 1.69                | 826.5            | 445,473.38         | 776,021.22        |
| 11,637.0               | 90.10       | 185.90               | 11,031.8      | 7,392.0         | -858.8        | -259.4        | 3.72                | 869.4            | 445,430.61         | 776,016.80        |
| 11,690.0               | 90.70       | 185.80               | 11,031.4      | 7,391.6         | -911.5        | -264.8        | 1.15                | 922.3            | 445,377.89         | 776,011.40        |
| 11,731.0               | 91.30       | 185.70               | 11,030.7      | 7,390.9         | -952.3        | -268.9        | 1.48                | 963.2            | 445,337.10         | 776,007.29        |
| 11,782.0               | 92.20       | 185.30               | 11,029.2      | 7,389.4         | -1,003.0      | -273.8        | 1.93                | 1,014.2          | 445,286.37         | 776,002.41        |
| 11,826.0               | 92.70       | 184.00               | 11,027.3      | 7,387.5         | -1,046.9      | -277.3        | 3.16                | 1,058.1          | 445,242.55         | 775,998.84        |
| 11,875.0               | 92.20       | 183.90               | 11,025.2      | 7,385.4         | -1,095.7      | -280.7        | 1.04                | 1,107.0          | 445,193.71         | 775,995.47        |
| 11,922.0               | 91.10       | 183.40               | 11,023.8      | 7,384.0         | -1,142.6      | -283.7        | 2.57                | 1,154.0          | 445,146.83         | 775,992.48        |

MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey       |            |                      |               |                 |               |               |                     |                  |                    |                   |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 11,969.0     | 90.40      | 182.00               | 11,023.2      | 7,383.4         | -1,189.5      | -285.9        | 3.33                | 1,201.0          | 445,099.89         | 775,990.27        |
| 12,016.0     | 90.70      | 179.90               | 11,022.8      | 7,383.0         | -1,236.5      | -286.7        | 4.51                | 1,248.0          | 445,052.90         | 775,989.49        |
| 12,063.0     | 90.20      | 178.40               | 11,022.4      | 7,382.6         | -1,283.5      | -286.0        | 3.36                | 1,294.9          | 445,005.91         | 775,990.18        |
| 12,111.0     | 89.80      | 177.30               | 11,022.4      | 7,382.6         | -1,331.5      | -284.2        | 2.44                | 1,342.7          | 444,957.95         | 775,991.98        |
| 12,205.0     | 91.70      | 176.80               | 11,021.2      | 7,381.4         | -1,425.3      | -279.4        | 2.09                | 1,436.3          | 444,864.09         | 775,996.82        |
| 12,300.0     | 90.90      | 176.50               | 11,019.0      | 7,379.2         | -1,520.1      | -273.8        | 0.90                | 1,530.7          | 444,769.28         | 776,002.37        |
| 12,395.0     | 88.30      | 177.00               | 11,019.7      | 7,379.9         | -1,615.0      | -268.4        | 2.79                | 1,625.3          | 444,674.45         | 776,007.76        |
| 12,486.0     | 89.10      | 176.20               | 11,021.7      | 7,381.9         | -1,705.8      | -263.0        | 1.24                | 1,715.7          | 444,583.63         | 776,013.15        |
| 12,579.0     | 88.40      | 177.30               | 11,023.8      | 7,384.0         | -1,798.6      | -257.8        | 1.40                | 1,808.2          | 444,490.81         | 776,018.42        |
| 12,674.0     | 90.80      | 176.90               | 11,024.4      | 7,384.6         | -1,893.5      | -253.0        | 2.56                | 1,902.8          | 444,395.94         | 776,023.23        |
| 12,768.0     | 92.10      | 175.90               | 11,022.1      | 7,382.3         | -1,987.3      | -247.1        | 1.74                | 1,996.2          | 444,302.16         | 776,029.13        |
| 12,861.0     | 89.80      | 177.70               | 11,020.5      | 7,380.7         | -2,080.1      | -241.9        | 3.14                | 2,088.8          | 444,209.33         | 776,034.32        |
| 12,955.0     | 89.70      | 179.00               | 11,020.9      | 7,381.1         | -2,174.1      | -239.2        | 1.39                | 2,182.5          | 444,115.38         | 776,037.02        |
| 13,052.0     | 90.90      | 177.30               | 11,020.4      | 7,380.6         | -2,271.0      | -236.0        | 2.15                | 2,279.2          | 444,018.44         | 776,040.16        |
| 13,151.0     | 90.60      | 177.00               | 11,019.1      | 7,379.3         | -2,369.9      | -231.1        | 0.43                | 2,377.8          | 443,919.57         | 776,045.08        |
| 13,245.0     | 89.00      | 177.30               | 11,019.4      | 7,379.6         | -2,463.8      | -226.4        | 1.73                | 2,471.3          | 443,825.70         | 776,049.75        |
| 13,339.0     | 88.30      | 177.70               | 11,021.7      | 7,381.9         | -2,557.6      | -222.3        | 0.86                | 2,565.0          | 443,731.81         | 776,053.85        |
| 13,434.0     | 87.80      | 177.60               | 11,024.9      | 7,385.1         | -2,652.5      | -218.4        | 0.54                | 2,659.6          | 443,636.95         | 776,057.74        |
| 13,499.0     | 88.30      | 176.20               | 11,027.1      | 7,387.3         | -2,717.4      | -214.9        | 2.29                | 2,724.2          | 443,572.09         | 776,061.26        |
| 13,528.0     | 88.80      | 176.30               | 11,027.8      | 7,388.0         | -2,746.3      | -213.0        | 1.76                | 2,753.0          | 443,543.16         | 776,063.15        |
| 13,559.0     | 89.90      | 177.00               | 11,028.2      | 7,388.4         | -2,777.2      | -211.2        | 4.21                | 2,783.9          | 443,512.22         | 776,064.96        |
| 13,590.0     | 90.80      | 177.90               | 11,028.0      | 7,388.2         | -2,808.2      | -209.8        | 4.11                | 2,814.7          | 443,481.25         | 776,066.34        |
| 13,619.0     | 91.30      | 178.00               | 11,027.5      | 7,387.7         | -2,837.2      | -208.8        | 1.76                | 2,843.6          | 443,452.27         | 776,067.38        |
| 13,653.0     | 90.70      | 177.60               | 11,026.9      | 7,387.1         | -2,871.2      | -207.5        | 2.12                | 2,877.5          | 443,418.31         | 776,068.68        |
| 13,686.0     | 91.00      | 177.60               | 11,026.4      | 7,386.6         | -2,904.1      | -206.1        | 0.91                | 2,910.4          | 443,385.34         | 776,070.07        |
| 13,714.0     | 91.20      | 177.20               | 11,025.8      | 7,386.0         | -2,932.1      | -204.9        | 1.60                | 2,938.3          | 443,357.37         | 776,071.34        |
| 13,748.0     | 91.50      | 177.40               | 11,025.0      | 7,385.2         | -2,966.0      | -203.3        | 1.06                | 2,972.1          | 443,323.42         | 776,072.94        |

MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey       |            |                      |               |                 |               |               |                     |                  |                    |                   |
|--------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 13,779.0     | 90.00      | 178.10               | 11,024.6      | 7,384.8         | -2,997.0      | -202.0        | 5.34                | 3,003.0          | 443,292.45         | 776,074.15        |
| 13,808.0     | 89.80      | 178.60               | 11,024.7      | 7,384.9         | -3,026.0      | -201.2        | 1.86                | 3,031.9          | 443,263.46         | 776,074.99        |
| 13,842.0     | 89.20      | 179.00               | 11,025.0      | 7,385.2         | -3,060.0      | -200.5        | 2.12                | 3,065.9          | 443,229.47         | 776,075.70        |
| 13,875.0     | 89.10      | 180.50               | 11,025.5      | 7,385.7         | -3,093.0      | -200.3        | 4.56                | 3,098.8          | 443,196.48         | 776,075.84        |
| 13,903.0     | 90.00      | 181.10               | 11,025.7      | 7,385.9         | -3,121.0      | -200.7        | 3.86                | 3,126.8          | 443,168.48         | 776,075.45        |
| 13,937.0     | 90.70      | 181.40               | 11,025.5      | 7,385.7         | -3,155.0      | -201.5        | 2.24                | 3,160.8          | 443,134.49         | 776,074.71        |
| 13,967.0     | 91.00      | 181.70               | 11,025.0      | 7,385.2         | -3,185.0      | -202.3        | 1.41                | 3,190.8          | 443,104.51         | 776,073.90        |
| 13,997.0     | 91.70      | 181.50               | 11,024.3      | 7,384.5         | -3,214.9      | -203.1        | 2.43                | 3,220.8          | 443,074.53         | 776,073.06        |
| 14,034.0     | 90.90      | 181.60               | 11,023.5      | 7,383.7         | -3,251.9      | -204.1        | 2.18                | 3,257.8          | 443,037.55         | 776,072.06        |
| 14,098.0     | 89.10      | 182.80               | 11,023.5      | 7,383.7         | -3,315.9      | -206.6        | 3.38                | 3,321.8          | 442,973.61         | 776,069.61        |
| 14,144.0     | 90.30      | 182.80               | 11,023.7      | 7,383.9         | -3,361.8      | -208.8        | 2.61                | 3,367.8          | 442,927.66         | 776,067.36        |
| 14,192.0     | 90.90      | 182.50               | 11,023.2      | 7,383.4         | -3,409.8      | -211.0        | 1.40                | 3,415.7          | 442,879.72         | 776,065.14        |
| 14,239.0     | 90.80      | 182.30               | 11,022.5      | 7,382.7         | -3,456.7      | -213.0        | 0.48                | 3,462.7          | 442,832.77         | 776,063.17        |
| 14,286.0     | 90.90      | 183.20               | 11,021.8      | 7,382.0         | -3,503.6      | -215.3        | 1.93                | 3,509.7          | 442,785.83         | 776,060.92        |
| 14,331.0     | 90.70      | 182.70               | 11,021.2      | 7,381.4         | -3,548.6      | -217.6        | 1.20                | 3,554.7          | 442,740.89         | 776,058.60        |
| 14,379.0     | 88.80      | 182.30               | 11,021.4      | 7,381.6         | -3,596.5      | -219.7        | 4.05                | 3,602.7          | 442,692.94         | 776,056.51        |
| 14,424.0     | 88.80      | 181.00               | 11,022.4      | 7,382.6         | -3,641.5      | -221.0        | 2.89                | 3,647.7          | 442,647.98         | 776,055.21        |
| 14,469.0     | 89.10      | 180.50               | 11,023.2      | 7,383.4         | -3,686.5      | -221.6        | 1.30                | 3,692.7          | 442,602.99         | 776,054.62        |
| 14,563.0     | 90.90      | 182.00               | 11,023.2      | 7,383.4         | -3,780.5      | -223.6        | 2.49                | 3,786.7          | 442,509.02         | 776,052.57        |
| 14,659.0     | 90.90      | 183.20               | 11,021.7      | 7,381.9         | -3,876.4      | -228.0        | 1.25                | 3,882.6          | 442,413.13         | 776,048.22        |
| 14,753.0     | 89.70      | 182.00               | 11,021.2      | 7,381.4         | -3,970.3      | -232.2        | 1.81                | 3,976.6          | 442,319.24         | 776,043.96        |
| 14,846.0     | 89.40      | 181.40               | 11,021.9      | 7,382.1         | -4,063.2      | -235.0        | 0.72                | 4,069.6          | 442,226.29         | 776,041.20        |
| 14,946.0     | 91.30      | 181.60               | 11,021.3      | 7,381.5         | -4,163.2      | -237.6        | 1.91                | 4,169.6          | 442,126.33         | 776,038.58        |
| 15,041.0     | 92.00      | 180.30               | 11,018.6      | 7,378.8         | -4,258.1      | -239.2        | 1.55                | 4,264.5          | 442,031.39         | 776,037.01        |
| 15,135.0     | 90.00      | 179.30               | 11,016.9      | 7,377.1         | -4,352.1      | -238.9        | 2.38                | 4,358.4          | 441,937.41         | 776,037.33        |
| 15,230.0     | 90.30      | 178.30               | 11,016.7      | 7,376.9         | -4,447.1      | -236.9        | 1.10                | 4,453.2          | 441,842.44         | 776,039.32        |
| 15,325.0     | 89.20      | 178.30               | 11,017.1      | 7,377.3         | -4,542.0      | -234.0        | 1.16                | 4,547.9          | 441,747.48         | 776,042.14        |

MOJO Survey

|                  |                          |                                     |                                        |
|------------------|--------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Murchison Oil and Gas    | <b>Local Co-ordinate Reference:</b> | Well Jackson Unit #33H                 |
| <b>Project:</b>  | Jackson Unit Section 16  | <b>TVD Reference:</b>               | WELL @ 3639.8usft (Original Well Elev) |
| <b>Site:</b>     | Jackson Unit 33H         | <b>MD Reference:</b>                | WELL @ 3639.8usft (Original Well Elev) |
| <b>Well:</b>     | Jackson Unit #33H        | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Jackson Unit #33H        | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Jackson Unit #33H Actual | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| Survey                |            |                      |               |                 |               |               |                     |                  |                    |                   |
|-----------------------|------------|----------------------|---------------|-----------------|---------------|---------------|---------------------|------------------|--------------------|-------------------|
| MD<br>(usft)          | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | TVDSS<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | DLeg<br>(°/100usft) | V. Sec<br>(usft) | Northing<br>(usft) | Easting<br>(usft) |
| 15,413.0              | 89.70      | 177.90               | 11,017.9      | 7,378.1         | -4,630.0      | -231.1        | 0.73                | 4,635.7          | 441,659.54         | 776,045.06        |
| 15,510.0              | 89.90      | 176.20               | 11,018.3      | 7,378.5         | -4,726.8      | -226.1        | 1.76                | 4,732.2          | 441,562.67         | 776,050.05        |
| 15,603.0              | 90.40      | 174.80               | 11,018.0      | 7,378.2         | -4,819.5      | -218.8        | 1.60                | 4,824.5          | 441,469.97         | 776,057.35        |
| Last Survey 15,697.0  | 90.30      | 172.30               | 11,017.5      | 7,377.7         | -4,912.9      | -208.3        | 2.66                | 4,917.4          | 441,376.57         | 776,067.90        |
| Projected TD 15,754.0 | 90.30      | 172.30               | 11,017.2      | 7,377.4         | -4,969.4      | -200.6        | 0.00                | 4,973.4          | 441,320.09         | 776,075.54        |

| Casing Points               |                             |         |                           |                         |
|-----------------------------|-----------------------------|---------|---------------------------|-------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name    | Casing<br>Diameter<br>(") | Hole<br>Diameter<br>(") |
| 1,288.0                     | 1,287.9                     | 13 3/8" | 13-3/8                    | 16                      |
| 5,104.0                     | 5,101.1                     | 9 5/8"  | 9-5/8                     | 12-1/4                  |

| Formations                  |                             |                 |            |  |
|-----------------------------|-----------------------------|-----------------|------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name            | Dip<br>(°) |  |
| 9,143.6                     | 9,140.0                     | Bone Spring     | 0.00       |  |
| 11,021.7                    | 10,935.0                    | 2nd Bone Spring | 0.00       |  |
| 9,263.6                     | 9,260.0                     | Avalon Shale    | 0.00       |  |
| 10,205.1                    | 10,200.0                    | 1st Bone Spring | 0.00       |  |
| 6,229.5                     | 6,226.0                     | Cherry Canyon   | 0.00       |  |
| 5,243.1                     | 5,240.0                     | Delaware        | 0.00       |  |
| 7,591.5                     | 7,588.0                     | Brushy Canyon   | 0.00       |  |
| 1,280.1                     | 1,280.0                     | Rustler         | 0.00       |  |

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

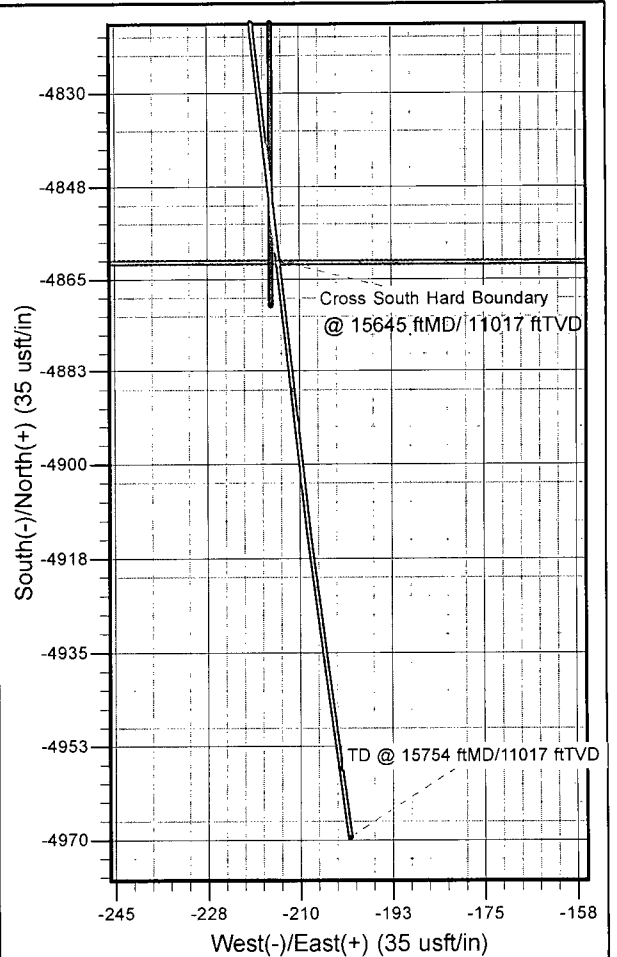
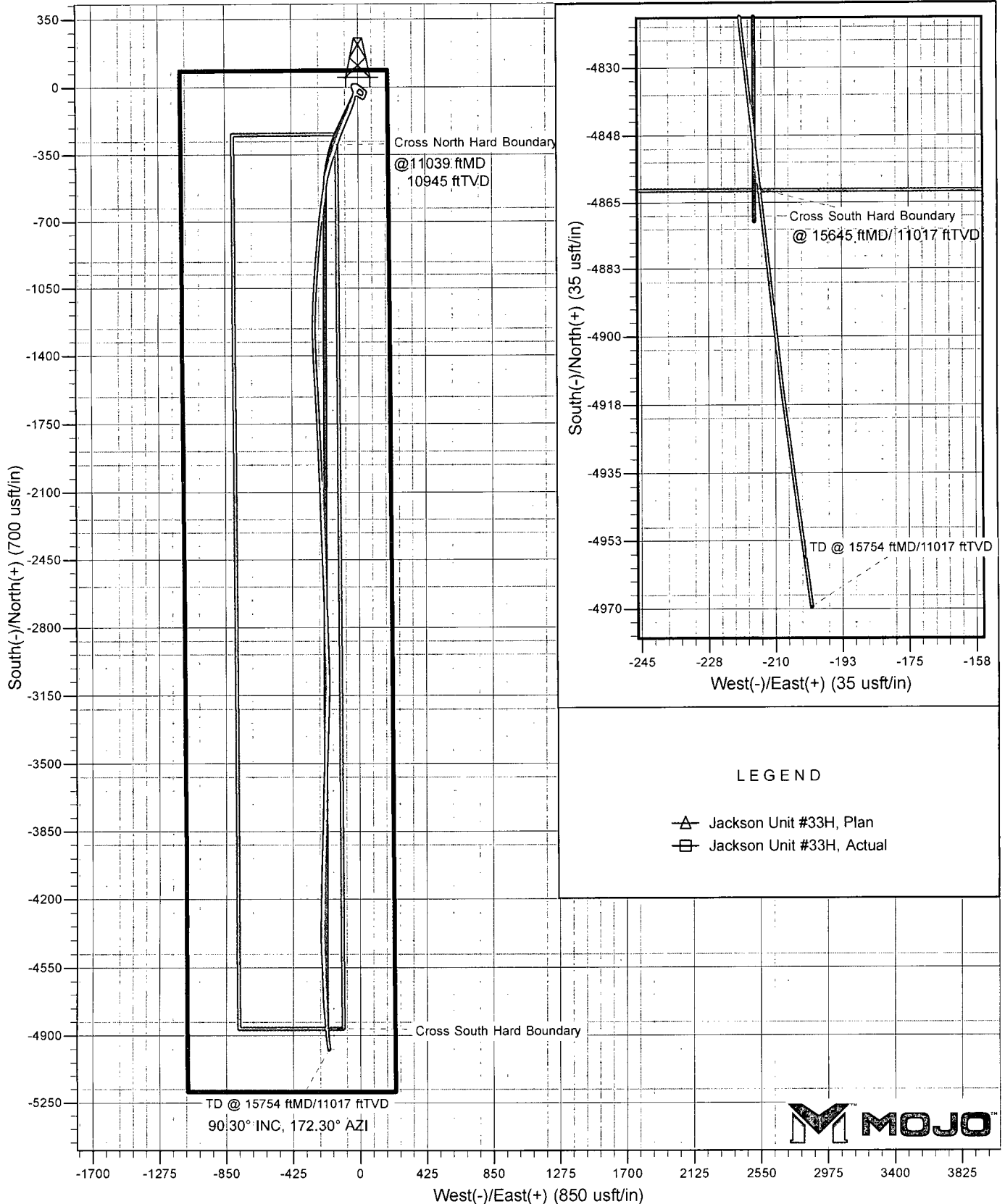
Project: Jackson Unit Section 16  
 Site: Jackson Unit 33H  
 Well: Jackson Unit #33H  
 Wellbore: Jackson Unit #33H  
 Design: Jackson Unit #33H



**MURCHISON OIL & GAS, INC.**



Azimuths to Grid North  
 True North: -0.41°  
 Magnetic North: 6.78°  
 Magnetic Field  
 Strength: 48292.3snT  
 Dip Angle: 60.11°  
 Date: 09/05/2014  
 Model: IGRF2010



#### LEGEND

- △ Jackson Unit #33H, Plan
- Jackson Unit #33H, Actual



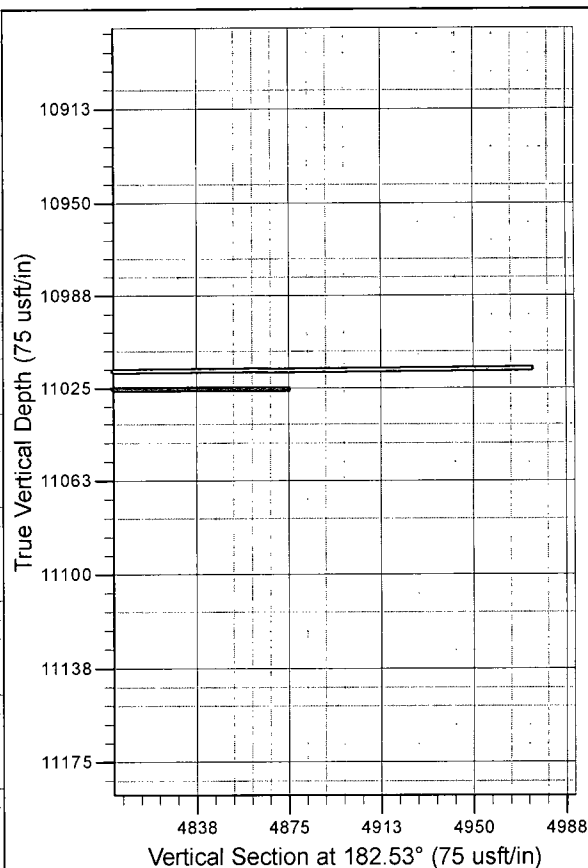
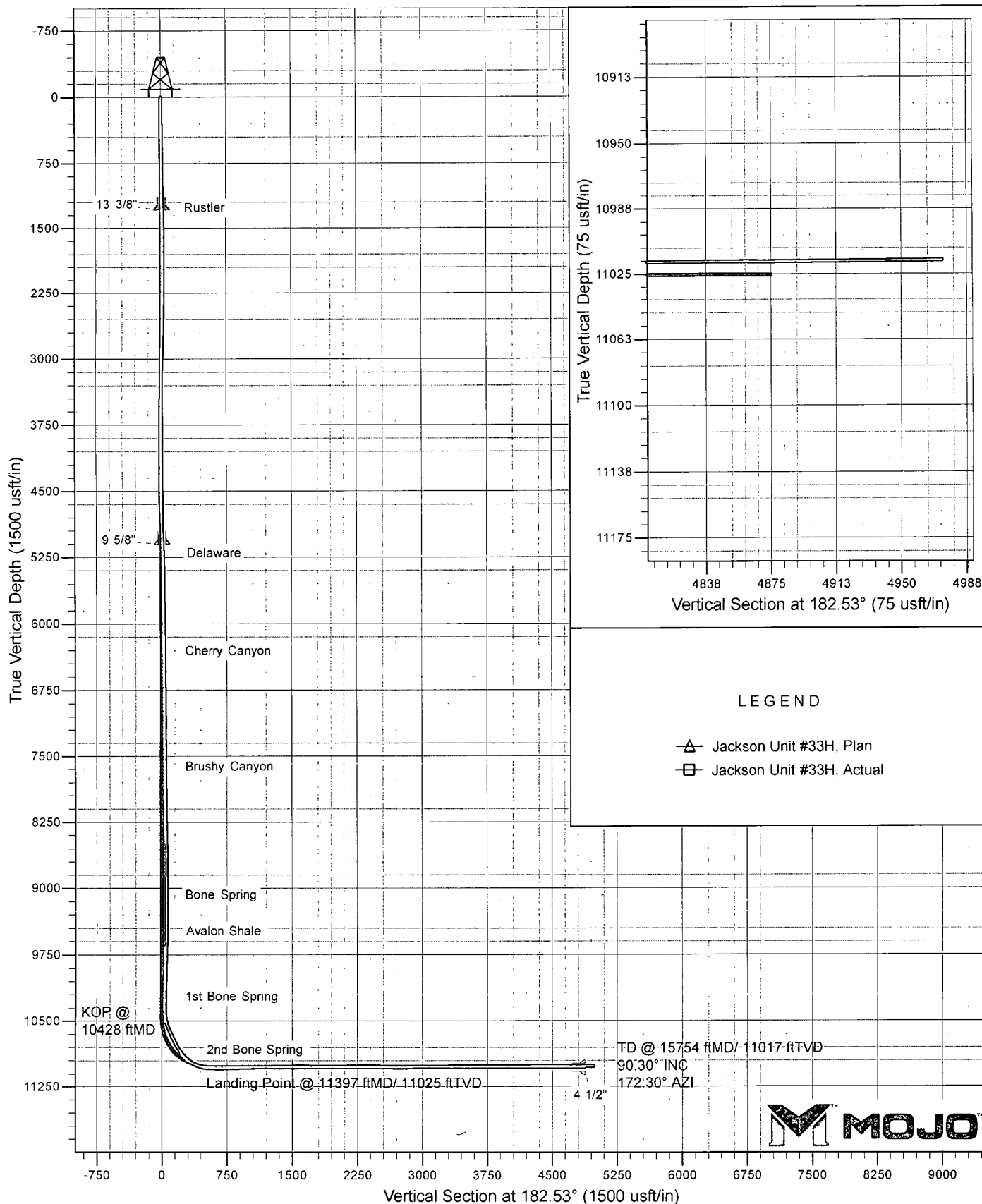
Project: Jackson Unit Section 16  
 Site: Jackson Unit 33H  
 Well: Jackson Unit #33H  
 Wellbore: Jackson Unit #33H  
 Design: Jackson Unit #33H


**MURCHISON OIL & GAS, INC.**



Azimuths to Grid North  
 True North:  $-0.41^\circ$   
 Magnetic North:  $6.78^\circ$

Magnetic Field  
 Strength: 48292.3snT  
 Dip Angle:  $60.11^\circ$   
 Date: 09/05/2014  
 Model: IGRF2010



### LEGEND

-  Jackson Unit #33H, Plan
-  Jackson Unit #33H, Actual

