

# **WCDSC Permian NM**

**Lea County (NAD83 New Mexico East)**

**Sec 06-T26S-R34E**

**Jayhawk 6-7 FED 14H**

**Wellbore #1**

**Plan: Permit Plan 1**

## **Standard Planning Report - Geographic**

**24 July, 2018**

# Planning Report - Geographic

|                  |                                    |                                     |                                      |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM r5000.141_Prod US              | <b>Local Co-ordinate Reference:</b> | Well Jayhawk 6-7 FED 14H             |
| <b>Company:</b>  | WCDSC Permian NM                   | <b>TVD Reference:</b>               | RKB @ 3340.20ft (Original Well Elev) |
| <b>Project:</b>  | Lea County (NAD83 New Mexico East) | <b>MD Reference:</b>                | RKB @ 3340.20ft (Original Well Elev) |
| <b>Site:</b>     | Sec 06-T26S-R34E                   | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | Jayhawk 6-7 FED 14H                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                      |
| <b>Design:</b>   | Permit Plan 1                      |                                     |                                      |

|                    |                                    |                      |                |
|--------------------|------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County (NAD83 New Mexico East) |                      |                |
| <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            |                      |                |

|                       |         |                  |                 |                   |             |
|-----------------------|---------|------------------|-----------------|-------------------|-------------|
| Site                  |         | Sec 06-T26S-R34E |                 |                   |             |
| Site Position:        |         | Northing:        | 393,700.60 usft | Latitude:         | 32.079736   |
| From:                 | Map     | Easting:         | 794,011.60 usft | Longitude:        | -103.517530 |
| Position Uncertainty: | 5.00 ft | Slot Radius:     | 13-3/16 "       | Grid Convergence: | 0.43 °      |

| Well                 |       | Jayhawk 6-7 FED 14H |                     |                 |               |             |
|----------------------|-------|---------------------|---------------------|-----------------|---------------|-------------|
| Well Position        | +N/-S | 0.00 ft             | Northing:           | 393,255.88 usft | Latitude:     | 32.078496   |
|                      | +E/-W | 0.00 ft             | Easting:            | 794,884.09 usft | Longitude:    | -103.514724 |
| Position Uncertainty |       | 0.50 ft             | Wellhead Elevation: |                 | Ground Level: | 3,315.20 ft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 7/23/2018          | 6.80                   | 59.92                | 47,745.56035239            |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | Permit Plan 1                |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PROTOTYPE         | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                         | 0.00              | 0.00                 | 185.72               |

|                                 |                      |                                       |                  |                |
|---------------------------------|----------------------|---------------------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>          | 7/24/2018                             |                  |                |
| <b>Depth From (ft)</b>          | <b>Depth To (ft)</b> | <b>Survey (Wellbore)</b>              | <b>Tool Name</b> | <b>Remarks</b> |
| 1                               | 0.00                 | 17,630.53 Permit Plan 1 (Wellbore #1) | MWD+HDGM         |                |
|                                 |                      |                                       | OWSG MWD + HDGM  |                |

|                            |                        |                    |                            |                   |                   |                                |                               |                              |                |                      |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|--------------------------------|-------------------------------|------------------------------|----------------|----------------------|
| <b>Plan Sections</b>       |                        |                    |                            |                   |                   |                                |                               |                              |                |                      |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>        |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 2,750.00                   | 0.00                   | 0.00               | 2,750.00                   | 0.00              | 0.00              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 3,176.36                   | 4.26                   | 307.72             | 3,175.97                   | 9.70              | -12.54            | 1.00                           | 1.00                          | 0.00                         | 307.72         |                      |
| 11,539.56                  | 4.26                   | 307.72             | 11,516.02                  | 390.06            | -504.39           | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 11,823.80                  | 0.00                   | 0.00               | 11,800.00                  | 396.52            | -512.76           | 1.50                           | -1.50                         | 0.00                         | 180.00         | VP - Jayhawk 14H     |
| 12,173.84                  | 0.00                   | 0.00               | 12,150.04                  | 396.52            | -512.76           | 0.00                           | 0.00                          | 0.00                         | 0.00           |                      |
| 13,073.84                  | 90.00                  | 179.57             | 12,723.00                  | -176.42           | -508.46           | 10.00                          | 10.00                         | 0.00                         | 179.57         | PBHL - Jayhawk 6-7 f |
| 17,630.53                  | 90.00                  | 179.57             | 12,723.00                  | -4,732.98         | -474.32           | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL - Jayhawk 6-7 f |

# Planning Report - Geographic

|                  |                                    |                                     |                                      |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM r5000.141_Prod US              | <b>Local Co-ordinate Reference:</b> | Well Jayhawk 6-7 FED 14H             |
| <b>Company:</b>  | WCDSC Permian NM                   | <b>TVD Reference:</b>               | RKB @ 3340.20ft (Original Well Elev) |
| <b>Project:</b>  | Lea County (NAD83 New Mexico East) | <b>MD Reference:</b>                | RKB @ 3340.20ft (Original Well Elev) |
| <b>Site:</b>     | Sec 06-T26S-R34E                   | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | Jayhawk 6-7 FED 14H                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                      |
| <b>Design:</b>   | Permit Plan 1                      |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                     |                    |           |             |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 0.00                | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 100.00              | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 200.00              | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 300.00              | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 400.00              | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 500.00              | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 600.00              | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 700.00              | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 800.00              | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 900.00              | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,000.00            | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,100.00            | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,200.00            | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,300.00            | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,400.00            | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,500.00            | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,600.00            | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,700.00            | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,800.00            | 0.00            | 0.00        | 1,800.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 1,900.00            | 0.00            | 0.00        | 1,900.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,000.00            | 0.00            | 0.00        | 2,000.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,100.00            | 0.00            | 0.00        | 2,100.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,200.00            | 0.00            | 0.00        | 2,200.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,300.00            | 0.00            | 0.00        | 2,300.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,400.00            | 0.00            | 0.00        | 2,400.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,500.00            | 0.00            | 0.00        | 2,500.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,600.00            | 0.00            | 0.00        | 2,600.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,700.00            | 0.00            | 0.00        | 2,700.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,750.00            | 0.00            | 0.00        | 2,750.00            | 0.00       | 0.00       | 393,255.88          | 794,884.09         | 32.078496 | -103.514724 |
| 2,800.00            | 0.50            | 307.72      | 2,800.00            | 0.13       | -0.17      | 393,256.01          | 794,883.92         | 32.078496 | -103.514724 |
| 2,900.00            | 1.50            | 307.72      | 2,899.98            | 1.20       | -1.55      | 393,257.08          | 794,882.53         | 32.078499 | -103.514729 |
| 3,000.00            | 2.50            | 307.72      | 2,999.92            | 3.34       | -4.31      | 393,259.21          | 794,879.77         | 32.078505 | -103.514738 |
| 3,100.00            | 3.50            | 307.72      | 3,099.78            | 6.54       | -8.45      | 393,262.42          | 794,875.63         | 32.078514 | -103.514751 |
| 3,176.36            | 4.26            | 307.72      | 3,175.97            | 9.70       | -12.54     | 393,265.58          | 794,871.54         | 32.078523 | -103.514764 |
| 3,200.00            | 4.26            | 307.72      | 3,199.54            | 10.78      | -13.93     | 393,266.65          | 794,870.15         | 32.078526 | -103.514769 |
| 3,300.00            | 4.26            | 307.72      | 3,299.26            | 15.32      | -19.81     | 393,271.20          | 794,864.27         | 32.078538 | -103.514788 |
| 3,400.00            | 4.26            | 307.72      | 3,398.99            | 19.87      | -25.70     | 393,275.75          | 794,858.39         | 32.078551 | -103.514806 |
| 3,500.00            | 4.26            | 307.72      | 3,498.71            | 24.42      | -31.58     | 393,280.30          | 794,852.51         | 32.078563 | -103.514825 |
| 3,600.00            | 4.26            | 307.72      | 3,598.43            | 28.97      | -37.46     | 393,284.85          | 794,846.63         | 32.078576 | -103.514844 |
| 3,700.00            | 4.26            | 307.72      | 3,698.16            | 33.51      | -43.34     | 393,289.39          | 794,840.75         | 32.078589 | -103.514863 |
| 3,800.00            | 4.26            | 307.72      | 3,797.88            | 38.06      | -49.22     | 393,293.94          | 794,834.87         | 32.078601 | -103.514882 |
| 3,900.00            | 4.26            | 307.72      | 3,897.60            | 42.61      | -55.10     | 393,298.49          | 794,828.99         | 32.078614 | -103.514901 |
| 4,000.00            | 4.26            | 307.72      | 3,997.33            | 47.16      | -60.98     | 393,303.04          | 794,823.11         | 32.078627 | -103.514920 |
| 4,100.00            | 4.26            | 307.72      | 4,097.05            | 51.71      | -66.86     | 393,307.59          | 794,817.22         | 32.078639 | -103.514939 |
| 4,200.00            | 4.26            | 307.72      | 4,196.77            | 56.25      | -72.74     | 393,312.13          | 794,811.34         | 32.078652 | -103.514957 |
| 4,300.00            | 4.26            | 307.72      | 4,296.50            | 60.80      | -78.63     | 393,316.68          | 794,805.46         | 32.078664 | -103.514976 |
| 4,400.00            | 4.26            | 307.72      | 4,396.22            | 65.35      | -84.51     | 393,321.23          | 794,799.58         | 32.078677 | -103.514995 |
| 4,500.00            | 4.26            | 307.72      | 4,495.94            | 69.90      | -90.39     | 393,325.78          | 794,793.70         | 32.078690 | -103.515014 |
| 4,600.00            | 4.26            | 307.72      | 4,595.67            | 74.45      | -96.27     | 393,330.33          | 794,787.82         | 32.078702 | -103.515033 |
| 4,700.00            | 4.26            | 307.72      | 4,695.39            | 78.99      | -102.15    | 393,334.87          | 794,781.94         | 32.078715 | -103.515052 |
| 4,800.00            | 4.26            | 307.72      | 4,795.11            | 83.54      | -108.03    | 393,339.42          | 794,776.06         | 32.078728 | -103.515071 |
| 4,900.00            | 4.26            | 307.72      | 4,894.84            | 88.09      | -113.91    | 393,343.97          | 794,770.18         | 32.078740 | -103.515090 |
| 5,000.00            | 4.26            | 307.72      | 4,994.56            | 92.64      | -119.79    | 393,348.52          | 794,764.29         | 32.078753 | -103.515108 |
| 5,100.00            | 4.26            | 307.72      | 5,094.28            | 97.19      | -125.67    | 393,353.07          | 794,758.41         | 32.078765 | -103.515127 |
| 5,200.00            | 4.26            | 307.72      | 5,194.01            | 101.73     | -131.56    | 393,357.61          | 794,752.53         | 32.078778 | -103.515146 |

# Planning Report - Geographic

|                  |                                    |                                     |                                      |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
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| <b>Company:</b>  | WCDCS Permian NM                   | <b>TVD Reference:</b>               | RKB @ 3340.20ft (Original Well Elev) |
| <b>Project:</b>  | Lea County (NAD83 New Mexico East) | <b>MD Reference:</b>                | RKB @ 3340.20ft (Original Well Elev) |
| <b>Site:</b>     | Sec 06-T26S-R34E                   | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | Jayhawk 6-7 FED 14H                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                      |
| <b>Design:</b>   | Permit Plan 1                      |                                     |                                      |

| Planned Survey      |                 |             |                     |            |            |                     |                    |           |             |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 5,300.00            | 4.26            | 307.72      | 5,293.73            | 106.28     | -137.44    | 393,362.16          | 794,746.65         | 32.078791 | -103.515165 |
| 5,400.00            | 4.26            | 307.72      | 5,393.45            | 110.83     | -143.32    | 393,366.71          | 794,740.77         | 32.078803 | -103.515184 |
| 5,500.00            | 4.26            | 307.72      | 5,493.18            | 115.38     | -149.20    | 393,371.26          | 794,734.89         | 32.078816 | -103.515203 |
| 5,600.00            | 4.26            | 307.72      | 5,592.90            | 119.93     | -155.08    | 393,375.81          | 794,729.01         | 32.078829 | -103.515222 |
| 5,700.00            | 4.26            | 307.72      | 5,692.62            | 124.47     | -160.96    | 393,380.35          | 794,723.13         | 32.078841 | -103.515241 |
| 5,800.00            | 4.26            | 307.72      | 5,792.35            | 129.02     | -166.84    | 393,384.90          | 794,717.25         | 32.078854 | -103.515259 |
| 5,900.00            | 4.26            | 307.72      | 5,892.07            | 133.57     | -172.72    | 393,389.45          | 794,711.36         | 32.078866 | -103.515278 |
| 6,000.00            | 4.26            | 307.72      | 5,991.79            | 138.12     | -178.61    | 393,394.00          | 794,705.48         | 32.078879 | -103.515297 |
| 6,100.00            | 4.26            | 307.72      | 6,091.52            | 142.67     | -184.49    | 393,398.55          | 794,699.60         | 32.078892 | -103.515316 |
| 6,200.00            | 4.26            | 307.72      | 6,191.24            | 147.21     | -190.37    | 393,403.09          | 794,693.72         | 32.078904 | -103.515335 |
| 6,300.00            | 4.26            | 307.72      | 6,290.96            | 151.76     | -196.25    | 393,407.64          | 794,687.84         | 32.078917 | -103.515354 |
| 6,400.00            | 4.26            | 307.72      | 6,390.69            | 156.31     | -202.13    | 393,412.19          | 794,681.96         | 32.078930 | -103.515373 |
| 6,500.00            | 4.26            | 307.72      | 6,490.41            | 160.86     | -208.01    | 393,416.74          | 794,676.08         | 32.078942 | -103.515392 |
| 6,600.00            | 4.26            | 307.72      | 6,590.13            | 165.41     | -213.89    | 393,421.28          | 794,670.20         | 32.078955 | -103.515410 |
| 6,700.00            | 4.26            | 307.72      | 6,689.86            | 169.95     | -219.77    | 393,425.83          | 794,664.32         | 32.078967 | -103.515429 |
| 6,800.00            | 4.26            | 307.72      | 6,789.58            | 174.50     | -225.65    | 393,430.38          | 794,658.43         | 32.078980 | -103.515448 |
| 6,900.00            | 4.26            | 307.72      | 6,889.30            | 179.05     | -231.54    | 393,434.93          | 794,652.55         | 32.078993 | -103.515467 |
| 7,000.00            | 4.26            | 307.72      | 6,989.03            | 183.60     | -237.42    | 393,439.48          | 794,646.67         | 32.079005 | -103.515486 |
| 7,100.00            | 4.26            | 307.72      | 7,088.75            | 188.15     | -243.30    | 393,444.02          | 794,640.79         | 32.079018 | -103.515505 |
| 7,200.00            | 4.26            | 307.72      | 7,188.47            | 192.69     | -249.18    | 393,448.57          | 794,634.91         | 32.079031 | -103.515524 |
| 7,300.00            | 4.26            | 307.72      | 7,288.19            | 197.24     | -255.06    | 393,453.12          | 794,629.03         | 32.079043 | -103.515543 |
| 7,400.00            | 4.26            | 307.72      | 7,387.92            | 201.79     | -260.94    | 393,457.67          | 794,623.15         | 32.079056 | -103.515561 |
| 7,500.00            | 4.26            | 307.72      | 7,487.64            | 206.34     | -266.82    | 393,462.22          | 794,617.27         | 32.079068 | -103.515580 |
| 7,600.00            | 4.26            | 307.72      | 7,587.36            | 210.89     | -272.70    | 393,466.76          | 794,611.39         | 32.079081 | -103.515599 |
| 7,700.00            | 4.26            | 307.72      | 7,687.09            | 215.43     | -278.58    | 393,471.31          | 794,605.50         | 32.079094 | -103.515618 |
| 7,800.00            | 4.26            | 307.72      | 7,786.81            | 219.98     | -284.47    | 393,475.86          | 794,599.62         | 32.079106 | -103.515637 |
| 7,900.00            | 4.26            | 307.72      | 7,886.53            | 224.53     | -290.35    | 393,480.41          | 794,593.74         | 32.079119 | -103.515656 |
| 8,000.00            | 4.26            | 307.72      | 7,986.26            | 229.08     | -296.23    | 393,484.96          | 794,587.86         | 32.079132 | -103.515675 |
| 8,100.00            | 4.26            | 307.72      | 8,085.98            | 233.63     | -302.11    | 393,489.50          | 794,581.98         | 32.079144 | -103.515694 |
| 8,200.00            | 4.26            | 307.72      | 8,185.70            | 238.17     | -307.99    | 393,494.05          | 794,576.10         | 32.079157 | -103.515712 |
| 8,300.00            | 4.26            | 307.72      | 8,285.43            | 242.72     | -313.87    | 393,498.60          | 794,570.22         | 32.079169 | -103.515731 |
| 8,400.00            | 4.26            | 307.72      | 8,385.15            | 247.27     | -319.75    | 393,503.15          | 794,564.34         | 32.079182 | -103.515750 |
| 8,500.00            | 4.26            | 307.72      | 8,484.87            | 251.82     | -325.63    | 393,507.70          | 794,558.45         | 32.079195 | -103.515769 |
| 8,600.00            | 4.26            | 307.72      | 8,584.60            | 256.37     | -331.51    | 393,512.24          | 794,552.57         | 32.079207 | -103.515788 |
| 8,700.00            | 4.26            | 307.72      | 8,684.32            | 260.91     | -337.40    | 393,516.79          | 794,546.69         | 32.079220 | -103.515807 |
| 8,800.00            | 4.26            | 307.72      | 8,784.04            | 265.46     | -343.28    | 393,521.34          | 794,540.81         | 32.079233 | -103.515826 |
| 8,900.00            | 4.26            | 307.72      | 8,883.77            | 270.01     | -349.16    | 393,525.89          | 794,534.93         | 32.079245 | -103.515845 |
| 9,000.00            | 4.26            | 307.72      | 8,983.49            | 274.56     | -355.04    | 393,530.44          | 794,529.05         | 32.079258 | -103.515863 |
| 9,100.00            | 4.26            | 307.72      | 9,083.21            | 279.11     | -360.92    | 393,534.98          | 794,523.17         | 32.079270 | -103.515882 |
| 9,200.00            | 4.26            | 307.72      | 9,182.94            | 283.65     | -366.80    | 393,539.53          | 794,517.29         | 32.079283 | -103.515901 |
| 9,300.00            | 4.26            | 307.72      | 9,282.66            | 288.20     | -372.68    | 393,544.08          | 794,511.41         | 32.079296 | -103.515920 |
| 9,400.00            | 4.26            | 307.72      | 9,382.38            | 292.75     | -378.56    | 393,548.63          | 794,505.52         | 32.079308 | -103.515939 |
| 9,500.00            | 4.26            | 307.72      | 9,482.11            | 297.30     | -384.44    | 393,553.18          | 794,499.64         | 32.079321 | -103.515958 |
| 9,600.00            | 4.26            | 307.72      | 9,581.83            | 301.85     | -390.33    | 393,557.72          | 794,493.76         | 32.079334 | -103.515977 |
| 9,700.00            | 4.26            | 307.72      | 9,681.55            | 306.39     | -396.21    | 393,562.27          | 794,487.88         | 32.079346 | -103.515996 |
| 9,800.00            | 4.26            | 307.72      | 9,781.28            | 310.94     | -402.09    | 393,566.82          | 794,482.00         | 32.079359 | -103.516014 |
| 9,900.00            | 4.26            | 307.72      | 9,881.00            | 315.49     | -407.97    | 393,571.37          | 794,476.12         | 32.079371 | -103.516033 |
| 10,000.00           | 4.26            | 307.72      | 9,980.72            | 320.04     | -413.85    | 393,575.92          | 794,470.24         | 32.079384 | -103.516052 |
| 10,100.00           | 4.26            | 307.72      | 10,080.45           | 324.59     | -419.73    | 393,580.46          | 794,464.36         | 32.079397 | -103.516071 |
| 10,200.00           | 4.26            | 307.72      | 10,180.17           | 329.13     | -425.61    | 393,585.01          | 794,458.48         | 32.079409 | -103.516090 |
| 10,300.00           | 4.26            | 307.72      | 10,279.89           | 333.68     | -431.49    | 393,589.56          | 794,452.59         | 32.079422 | -103.516109 |
| 10,400.00           | 4.26            | 307.72      | 10,379.62           | 338.23     | -437.37    | 393,594.11          | 794,446.71         | 32.079435 | -103.516128 |
| 10,500.00           | 4.26            | 307.72      | 10,479.34           | 342.78     | -443.26    | 393,598.66          | 794,440.83         | 32.079447 | -103.516147 |
| 10,600.00           | 4.26            | 307.72      | 10,579.06           | 347.33     | -449.14    | 393,603.20          | 794,434.95         | 32.079460 | -103.516165 |
| 10,700.00           | 4.26            | 307.72      | 10,678.79           | 351.87     | -455.02    | 393,607.75          | 794,429.07         | 32.079472 | -103.516184 |

# Planning Report - Geographic

|                  |                                    |                                     |                                      |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM r5000.141_Prod US              | <b>Local Co-ordinate Reference:</b> | Well Jayhawk 6-7 FED 14H             |
| <b>Company:</b>  | WCDCS Permian NM                   | <b>TVD Reference:</b>               | RKB @ 3340.20ft (Original Well Elev) |
| <b>Project:</b>  | Lea County (NAD83 New Mexico East) | <b>MD Reference:</b>                | RKB @ 3340.20ft (Original Well Elev) |
| <b>Site:</b>     | Sec 06-T26S-R34E                   | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | Jayhawk 6-7 FED 14H                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                      |
| <b>Design:</b>   | Permit Plan 1                      |                                     |                                      |

| Planned Survey                                          |                 |             |                     |            |            |                     |                    |           |             |
|---------------------------------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft)                                     | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 10,800.00                                               | 4.26            | 307.72      | 10,778.51           | 356.42     | -460.90    | 393,612.30          | 794,423.19         | 32.079485 | -103.516203 |
| 10,900.00                                               | 4.26            | 307.72      | 10,878.23           | 360.97     | -466.78    | 393,616.85          | 794,417.31         | 32.079498 | -103.516222 |
| 11,000.00                                               | 4.26            | 307.72      | 10,977.96           | 365.52     | -472.66    | 393,621.40          | 794,411.43         | 32.079510 | -103.516241 |
| 11,100.00                                               | 4.26            | 307.72      | 11,077.68           | 370.07     | -478.54    | 393,625.94          | 794,405.55         | 32.079523 | -103.516260 |
| 11,200.00                                               | 4.26            | 307.72      | 11,177.40           | 374.61     | -484.42    | 393,630.49          | 794,399.66         | 32.079535 | -103.516279 |
| 11,300.00                                               | 4.26            | 307.72      | 11,277.13           | 379.16     | -490.31    | 393,635.04          | 794,393.78         | 32.079548 | -103.516298 |
| 11,400.00                                               | 4.26            | 307.72      | 11,376.85           | 383.71     | -496.19    | 393,639.59          | 794,387.90         | 32.079561 | -103.516316 |
| 11,500.00                                               | 4.26            | 307.72      | 11,476.57           | 388.26     | -502.07    | 393,644.14          | 794,382.02         | 32.079573 | -103.516335 |
| 11,539.56                                               | 4.26            | 307.72      | 11,516.02           | 390.06     | -504.39    | 393,645.93          | 794,379.69         | 32.079578 | -103.516343 |
| 11,600.00                                               | 3.36            | 307.72      | 11,576.33           | 392.51     | -507.57    | 393,648.39          | 794,376.52         | 32.079585 | -103.516353 |
| 11,700.00                                               | 1.86            | 307.72      | 11,676.22           | 395.30     | -511.17    | 393,651.17          | 794,372.92         | 32.079593 | -103.516364 |
| 11,800.00                                               | 0.36            | 307.72      | 11,776.20           | 396.48     | -512.70    | 393,652.36          | 794,371.39         | 32.079596 | -103.516369 |
| 11,823.80                                               | 0.00            | 0.00        | 11,800.00           | 396.52     | -512.76    | 393,652.40          | 794,371.33         | 32.079596 | -103.516370 |
| 11,900.00                                               | 0.00            | 0.00        | 11,876.20           | 396.52     | -512.76    | 393,652.40          | 794,371.33         | 32.079596 | -103.516370 |
| 12,000.00                                               | 0.00            | 0.00        | 11,976.20           | 396.52     | -512.76    | 393,652.40          | 794,371.33         | 32.079596 | -103.516370 |
| 12,100.00                                               | 0.00            | 0.00        | 12,076.20           | 396.52     | -512.76    | 393,652.40          | 794,371.33         | 32.079596 | -103.516370 |
| 12,173.84                                               | 0.00            | 0.00        | 12,150.04           | 396.52     | -512.76    | 393,652.40          | 794,371.33         | 32.079596 | -103.516370 |
| 12,200.00                                               | 2.62            | 179.57      | 12,176.19           | 395.93     | -512.75    | 393,651.80          | 794,371.34         | 32.079595 | -103.516370 |
| 12,300.00                                               | 12.62           | 179.57      | 12,275.18           | 382.69     | -512.65    | 393,638.57          | 794,371.44         | 32.079558 | -103.516370 |
| 12,400.00                                               | 22.62           | 179.57      | 12,370.37           | 352.47     | -512.43    | 393,608.34          | 794,371.66         | 32.079475 | -103.516370 |
| 12,406.33                                               | 23.25           | 179.57      | 12,376.20           | 350.00     | -512.41    | 393,605.88          | 794,371.68         | 32.079468 | -103.516370 |
| <b>First Take Point @ 12406' MD, 100' FNL, 358' FWL</b> |                 |             |                     |            |            |                     |                    |           |             |
| 12,500.00                                               | 32.62           | 179.57      | 12,458.87           | 306.17     | -512.08    | 393,562.05          | 794,372.01         | 32.079348 | -103.516370 |
| 12,600.00                                               | 42.62           | 179.57      | 12,537.98           | 245.21     | -511.62    | 393,501.09          | 794,372.47         | 32.079180 | -103.516370 |
| 12,700.00                                               | 52.62           | 179.57      | 12,605.30           | 171.45     | -511.07    | 393,427.32          | 794,373.02         | 32.078978 | -103.516370 |
| 12,800.00                                               | 62.62           | 179.57      | 12,658.80           | 87.11      | -510.44    | 393,342.99          | 794,373.65         | 32.078746 | -103.516370 |
| 12,900.00                                               | 72.62           | 179.57      | 12,696.83           | -5.24      | -509.75    | 393,250.64          | 794,374.34         | 32.078492 | -103.516370 |
| 13,000.00                                               | 82.62           | 179.57      | 12,718.25           | -102.78    | -509.01    | 393,153.10          | 794,375.07         | 32.078224 | -103.516370 |
| 13,073.84                                               | 90.00           | 179.57      | 12,723.00           | -176.42    | -508.46    | 393,079.46          | 794,375.63         | 32.078021 | -103.516370 |
| <b>Land Point @ 13074' MD, 626' FNL, 362' FWL</b>       |                 |             |                     |            |            |                     |                    |           |             |
| 13,100.00                                               | 90.00           | 179.57      | 12,723.00           | -202.58    | -508.27    | 393,053.30          | 794,375.82         | 32.077949 | -103.516370 |
| 13,200.00                                               | 90.00           | 179.57      | 12,723.00           | -302.57    | -507.52    | 392,953.31          | 794,376.57         | 32.077675 | -103.516370 |
| 13,300.00                                               | 90.00           | 179.57      | 12,723.00           | -402.57    | -506.77    | 392,853.31          | 794,377.32         | 32.077400 | -103.516370 |
| 13,400.00                                               | 90.00           | 179.57      | 12,723.00           | -502.57    | -506.02    | 392,753.31          | 794,378.07         | 32.077125 | -103.516370 |
| 13,500.00                                               | 90.00           | 179.57      | 12,723.00           | -602.57    | -505.27    | 392,653.31          | 794,378.82         | 32.076850 | -103.516370 |
| 13,600.00                                               | 90.00           | 179.57      | 12,723.00           | -702.56    | -504.52    | 392,553.32          | 794,379.57         | 32.076575 | -103.516370 |
| 13,700.00                                               | 90.00           | 179.57      | 12,723.00           | -802.56    | -503.77    | 392,453.32          | 794,380.32         | 32.076300 | -103.516370 |
| 13,800.00                                               | 90.00           | 179.57      | 12,723.00           | -902.56    | -503.02    | 392,353.32          | 794,381.07         | 32.076025 | -103.516370 |
| 13,900.00                                               | 90.00           | 179.57      | 12,723.00           | -1,002.55  | -502.27    | 392,253.33          | 794,381.82         | 32.075750 | -103.516370 |
| 14,000.00                                               | 90.00           | 179.57      | 12,723.00           | -1,102.55  | -501.52    | 392,153.33          | 794,382.56         | 32.075476 | -103.516370 |
| 14,100.00                                               | 90.00           | 179.57      | 12,723.00           | -1,202.55  | -500.77    | 392,053.33          | 794,383.31         | 32.075201 | -103.516370 |
| 14,200.00                                               | 90.00           | 179.57      | 12,723.00           | -1,302.55  | -500.03    | 391,953.34          | 794,384.06         | 32.074926 | -103.516370 |
| 14,300.00                                               | 90.00           | 179.57      | 12,723.00           | -1,402.54  | -499.28    | 391,853.34          | 794,384.81         | 32.074651 | -103.516370 |
| 14,400.00                                               | 90.00           | 179.57      | 12,723.00           | -1,502.54  | -498.53    | 391,753.34          | 794,385.56         | 32.074376 | -103.516370 |
| 14,500.00                                               | 90.00           | 179.57      | 12,723.00           | -1,602.54  | -497.78    | 391,653.34          | 794,386.31         | 32.074101 | -103.516370 |
| 14,600.00                                               | 90.00           | 179.57      | 12,723.00           | -1,702.53  | -497.03    | 391,553.35          | 794,387.06         | 32.073826 | -103.516370 |
| 14,700.00                                               | 90.00           | 179.57      | 12,723.00           | -1,802.53  | -496.28    | 391,453.35          | 794,387.81         | 32.073551 | -103.516370 |
| 14,800.00                                               | 90.00           | 179.57      | 12,723.00           | -1,902.53  | -495.53    | 391,353.35          | 794,388.56         | 32.073277 | -103.516370 |
| 14,900.00                                               | 90.00           | 179.57      | 12,723.00           | -2,002.53  | -494.78    | 391,253.36          | 794,389.31         | 32.073002 | -103.516370 |
| 15,000.00                                               | 90.00           | 179.57      | 12,723.00           | -2,102.52  | -494.03    | 391,153.36          | 794,390.06         | 32.072727 | -103.516370 |
| 15,100.00                                               | 90.00           | 179.57      | 12,723.00           | -2,202.52  | -493.28    | 391,053.36          | 794,390.81         | 32.072452 | -103.516370 |
| 15,200.00                                               | 90.00           | 179.57      | 12,723.00           | -2,302.52  | -492.53    | 390,953.37          | 794,391.56         | 32.072177 | -103.516370 |
| 15,300.00                                               | 90.00           | 179.57      | 12,723.00           | -2,402.52  | -491.78    | 390,853.37          | 794,392.31         | 32.071902 | -103.516370 |
| 15,400.00                                               | 90.00           | 179.57      | 12,723.00           | -2,502.51  | -491.03    | 390,753.37          | 794,393.05         | 32.071627 | -103.516370 |

# Planning Report - Geographic

|                  |                                    |                                     |                                      |
|------------------|------------------------------------|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM r5000.141_Prod US              | <b>Local Co-ordinate Reference:</b> | Well Jayhawk 6-7 FED 14H             |
| <b>Company:</b>  | WCDSC Permian NM                   | <b>TVD Reference:</b>               | RKB @ 3340.20ft (Original Well Elev) |
| <b>Project:</b>  | Lea County (NAD83 New Mexico East) | <b>MD Reference:</b>                | RKB @ 3340.20ft (Original Well Elev) |
| <b>Site:</b>     | Sec 06-T26S-R34E                   | <b>North Reference:</b>             | Grid                                 |
| <b>Well:</b>     | Jayhawk 6-7 FED 14H                | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | Wellbore #1                        |                                     |                                      |
| <b>Design:</b>   | Permit Plan 1                      |                                     |                                      |

| Planned Survey                                  |                 |             |                     |            |            |                     |                    |           |             |
|-------------------------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-----------|-------------|
| Measured Depth (ft)                             | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude  | Longitude   |
| 15,500.00                                       | 90.00           | 179.57      | 12,723.00           | -2,602.51  | -490.29    | 390,653.37          | 794,393.80         | 32.071352 | -103.516370 |
| 15,600.00                                       | 90.00           | 179.57      | 12,723.00           | -2,702.51  | -489.54    | 390,553.38          | 794,394.55         | 32.071078 | -103.516370 |
| 15,700.00                                       | 90.00           | 179.57      | 12,723.00           | -2,802.50  | -488.79    | 390,453.38          | 794,395.30         | 32.070803 | -103.516370 |
| 15,800.00                                       | 90.00           | 179.57      | 12,723.00           | -2,902.50  | -488.04    | 390,353.38          | 794,396.05         | 32.070528 | -103.516370 |
| 15,900.00                                       | 90.00           | 179.57      | 12,723.00           | -3,002.50  | -487.29    | 390,253.39          | 794,396.80         | 32.070253 | -103.516370 |
| 16,000.00                                       | 90.00           | 179.57      | 12,723.00           | -3,102.50  | -486.54    | 390,153.39          | 794,397.55         | 32.069978 | -103.516370 |
| 16,100.00                                       | 90.00           | 179.57      | 12,723.00           | -3,202.49  | -485.79    | 390,053.39          | 794,398.30         | 32.069703 | -103.516371 |
| 16,200.00                                       | 90.00           | 179.57      | 12,723.00           | -3,302.49  | -485.04    | 389,953.40          | 794,399.05         | 32.069428 | -103.516371 |
| 16,300.00                                       | 90.00           | 179.57      | 12,723.00           | -3,402.49  | -484.29    | 389,853.40          | 794,399.80         | 32.069153 | -103.516371 |
| 16,400.00                                       | 90.00           | 179.57      | 12,723.00           | -3,502.48  | -483.54    | 389,753.40          | 794,400.55         | 32.068879 | -103.516371 |
| 16,500.00                                       | 90.00           | 179.57      | 12,723.00           | -3,602.48  | -482.79    | 389,653.40          | 794,401.30         | 32.068604 | -103.516371 |
| 16,600.00                                       | 90.00           | 179.57      | 12,723.00           | -3,702.48  | -482.04    | 389,553.41          | 794,402.05         | 32.068329 | -103.516371 |
| 16,700.00                                       | 90.00           | 179.57      | 12,723.00           | -3,802.48  | -481.29    | 389,453.41          | 794,402.79         | 32.068054 | -103.516371 |
| 16,800.00                                       | 90.00           | 179.57      | 12,723.00           | -3,902.47  | -480.54    | 389,353.41          | 794,403.54         | 32.067779 | -103.516371 |
| 16,900.00                                       | 90.00           | 179.57      | 12,723.00           | -4,002.47  | -479.80    | 389,253.42          | 794,404.29         | 32.067504 | -103.516371 |
| 17,000.00                                       | 90.00           | 179.57      | 12,723.00           | -4,102.47  | -479.05    | 389,153.42          | 794,405.04         | 32.067229 | -103.516371 |
| 17,100.00                                       | 90.00           | 179.57      | 12,723.00           | -4,202.46  | -478.30    | 389,053.42          | 794,405.79         | 32.066954 | -103.516371 |
| 17,200.00                                       | 90.00           | 179.57      | 12,723.00           | -4,302.46  | -477.55    | 388,953.43          | 794,406.54         | 32.066680 | -103.516371 |
| 17,300.00                                       | 90.00           | 179.57      | 12,723.00           | -4,402.46  | -476.80    | 388,853.43          | 794,407.29         | 32.066405 | -103.516371 |
| 17,400.00                                       | 90.00           | 179.57      | 12,723.00           | -4,502.46  | -476.05    | 388,753.43          | 794,408.04         | 32.066130 | -103.516371 |
| 17,500.00                                       | 90.00           | 179.57      | 12,723.00           | -4,602.45  | -475.30    | 388,653.43          | 794,408.79         | 32.065855 | -103.516371 |
| 17,600.00                                       | 90.00           | 179.57      | 12,723.00           | -4,702.45  | -474.55    | 388,553.44          | 794,409.54         | 32.065580 | -103.516371 |
| 17,629.50                                       | 90.00           | 179.57      | 12,723.00           | -4,731.95  | -474.33    | 388,523.94          | 794,409.76         | 32.065499 | -103.516371 |
| Last Take Point @ 17630' MD, 100' FSL, 360' FWL |                 |             |                     |            |            |                     |                    |           |             |
| 17,630.53                                       | 90.00           | 179.57      | 12,723.00           | -4,732.98  | -474.32    | 388,522.91          | 794,409.77         | 32.065496 | -103.516371 |
| PBHL; 100' FSL, 360' FWL                        |                 |             |                     |            |            |                     |                    |           |             |

| Design Targets                                                                   |               |              |           |            |            |                 |                |           |             |
|----------------------------------------------------------------------------------|---------------|--------------|-----------|------------|------------|-----------------|----------------|-----------|-------------|
| Target Name                                                                      | Dip Angle (°) | Dip Dir. (°) | TVD (ft)  | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
| - hit/miss target                                                                |               |              |           |            |            |                 |                |           |             |
| - Shape                                                                          |               |              |           |            |            |                 |                |           |             |
| PBHL - Jayhawk 6-7 FEI                                                           | 0.00          | 0.00         | 0.00      | -4,732.98  | -474.32    | 388,522.91      | 794,409.77     | 32.065496 | -103.516371 |
| - plan misses target center by 4756.69ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) |               |              |           |            |            |                 |                |           |             |
| - Point                                                                          |               |              |           |            |            |                 |                |           |             |
| VP - Jayhawk 14H                                                                 | 0.00          | 0.00         | 11,800.00 | 396.52     | -512.76    | 393,652.40      | 794,371.33     | 32.079596 | -103.516370 |
| - plan hits target center                                                        |               |              |           |            |            |                 |                |           |             |
| - Point                                                                          |               |              |           |            |            |                 |                |           |             |

| Plan Annotations    |                     |                   |            |                                                  |  |
|---------------------|---------------------|-------------------|------------|--------------------------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                                  |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                                          |  |
| 12,406.33           | 12,376.20           | 350.00            | -512.41    | First Take Point @ 12406' MD, 100' FNL, 358' FWL |  |
| 13,073.84           | 12,723.00           | -176.42           | -508.46    | Land Point @ 13074' MD, 626' FNL, 362' FWL       |  |
| 17,629.50           | 12,723.00           | -4,731.95         | -474.33    | Last Take Point @ 17630' MD, 100' FSL, 360' FWL  |  |
| 17,630.53           | 12,723.00           | -4,732.98         | -474.32    | PBHL; 100' FSL, 360' FWL                         |  |

WCDSC Permian NM

WELL DETAILS: Jayhawk 6-7 FED 14H

RKB @ 3340.20ft (Original Well Elev)  
3315.20

|           |           |           |             |
|-----------|-----------|-----------|-------------|
| Northing  | Easting   | Latitude  | Longitude   |
| 393255.88 | 794884.09 | 32.078496 | -103.514724 |



| SECTION DETAILS |       |        |          | Permit Plan 1 |         |       |         |                                            |
|-----------------|-------|--------|----------|---------------|---------|-------|---------|--------------------------------------------|
| MD              | Inc   | Azi    | TVD      | +N/-S         | +E/-W   | Dleg  | VSect   | Annotation                                 |
| 0.00            | 0.00  | 0.00   | 0.00     | 0.00          | 0.00    | 0.00  | 0.00    |                                            |
| 2750.00         | 0.00  | 0.00   | 2750.00  | 0.00          | 0.00    | 0.00  | 0.00    |                                            |
| 3176.36         | 4.26  | 307.72 | 3175.97  | 9.70          | -12.54  | 1.00  | -8.40   |                                            |
| 11539.56        | 4.26  | 307.72 | 11516.02 | 390.06        | -504.39 | 0.00  | -337.82 |                                            |
| 11823.80        | 0.00  | 0.00   | 11800.00 | 396.52        | -512.76 | 1.50  | -343.42 |                                            |
| 12173.84        | 0.00  | 0.00   | 12150.04 | 396.52        | -512.76 | 0.00  | -343.42 |                                            |
| 13073.84        | 90.00 | 179.57 | 12723.00 | -176.42       | -508.46 | 10.00 | 226.24  | Land Point @ 13074' MD, 626' FNL, 362' FWL |
| 17630.53        | 90.00 | 179.57 | 12723.00 | -4732.98      | -474.32 | 0.00  | 4756.69 | PBHL; 100' FSL, 360' FWL                   |

