

30-015-41032

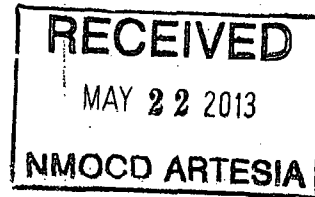
## OCCIDENTAL PERMIAN LTD.

Cedar Canyon

Eddy County, NM

Cedar Canyon 15 Fee #2H

DH - Job #320213-MPH-203



Survey: MWD

## SDI Standard Survey Report

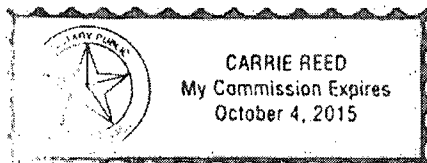
This survey is correct to the best of my knowledge and is supported by actual field data.

Richard

Notarized this date 1st of April, 2013.

Carrie Reed

Notary Signature  
County of Midland  
State of Texas



Scientific Drilling

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report



|                  |                          |                                     |                                      |
|------------------|--------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OCCIDENTAL PERMIAN LTD.  | <b>Local Co-ordinate Reference:</b> | Well Cedar Canyon 15 Fee #2H         |
| <b>Project:</b>  | Cedar Canyon             | <b>TVD Reference:</b>               | WELL @ 0.00usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM          | <b>MD Reference:</b>                | WELL @ 0.00usft (Original Well Elev) |
| <b>Well:</b>     | Cedar Canyon 15 Fee #2H  | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | DH - Job #320213-MPH-203 | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | DH - Job #320213-MPH-203 | <b>Database:</b>                    | EDM-Regulatory                       |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | Cedar Canyon                         |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

|                       |           |                 |                 |                   |                   |
|-----------------------|-----------|-----------------|-----------------|-------------------|-------------------|
| Site                  |           | Eddy County, NM |                 |                   |                   |
| Site Position:        |           | Northing:       | 442,496.34 usft | Latitude:         | 32° 12' 57.600 N  |
| From:                 | Lat/Long  | Easting:        | 614,222.51 usft | Longitude:        | 103° 57' 50.400 W |
| Position Uncertainty: | 0.00 usft | Slot Radius:    | 0"              | Grid Convergence: | 0.20 '            |

|                      |                                      |                     |           |                 |            |                   |
|----------------------|--------------------------------------|---------------------|-----------|-----------------|------------|-------------------|
| Well                 | Cedar Canyon 15 Fee #2H, Directional |                     |           |                 |            |                   |
| Well Position        | +N/-S                                | 0.00 usft           | Northing: | 440,525.95 usft | Latitude:  | 32° 12' 38.257 N  |
|                      | +E/-W                                | 0.00 usft           | Easting:  | 609,522.81 usft | Longitude: | 103° 58' 45.181 W |
| Position Uncertainty | 0.00 usft                            | Wellhead Elevation: | usft      | Ground Level:   | 0.00 usft  |                   |

|           |                          |             |                    |                  |                        |
|-----------|--------------------------|-------------|--------------------|------------------|------------------------|
| Wellbore  | DH - Job #320213-MPH-203 |             |                    |                  |                        |
| Magnetics | Model Name               | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|           | IGRF2010                 | 03/24/13    | 7.56               | 60.06            | 48,412                 |

|                   |                          |        |        |                    |
|-------------------|--------------------------|--------|--------|--------------------|
| Design            | DH - Job #320213-MPH-203 |        |        |                    |
| Audit Notes:      |                          |        |        |                    |
| Version:          | 1.0                      | Phase: | ACTUAL | Tie On Depth: 0.00 |
| Vertical Section: | Depth From (TVD)         | +N/-S  | +E/-W  | Direction          |
|                   | (usft)                   | (usft) | (usft) | (°)                |
|                   | 0.00                     | 0.00   | 0.00   | 87.40              |

|                |           |                                |           |             |  |
|----------------|-----------|--------------------------------|-----------|-------------|--|
| Survey Program |           | Date                           | 04/10/13  |             |  |
| From           | To        | Survey (Wellbore)              | Tool Name | Description |  |
| (usft)         | (usft)    |                                |           |             |  |
| 428.00         | 12,960.00 | MWD (DH - Job #320213-MPH-203) | MWD       | MWD         |  |

| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| 0.00                     | 0.00               | 0.00           | 0.00                   | 0.00                  | 0.00                | 0.00                   | 0.00                       |
| 428.00                   | 1.49               | 108.38         | 427.95                 | -1.75                 | 5.28                | 108.38                 | 5.56                       |
| 506.00                   | 1.32               | 106.80         | 505.93                 | -2.33                 | 7.10                | 108.19                 | 7.48                       |
| 595.00                   | 1.41               | 110.32         | 594.90                 | -3.01                 | 9.11                | 108.28                 | 9.60                       |
| 685.00                   | 1.49               | 101.18         | 684.87                 | -3.62                 | 11.30               | 107.78                 | 11.86                      |
| 775.00                   | 1.80               | 106.32         | 774.84                 | -4.25                 | 13.80               | 107.10                 | 14.44                      |
| 867.00                   | 1.71               | 108.30         | 866.79                 | -5.08                 | 16.49               | 107.13                 | 17.26                      |
| 962.00                   | 1.58               | 99.90          | 961.75                 | -5.75                 | 19.13               | 106.74                 | 19.97                      |
| 1,052.00                 | 1.58               | 93.18          | 1,051.72               | -6.04                 | 21.59               | 105.62                 | 22.42                      |
| 1,147.00                 | 1.58               | 100.61         | 1,146.68               | -6.35                 | 24.18               | 104.71                 | 25.00                      |
| 1,241.00                 | 1.49               | 106.89         | 1,240.65               | -6.94                 | 26.63               | 104.61                 | 27.52                      |
| 1,336.00                 | 1.71               | 109.09         | 1,335.81               | -7.77                 | 29.15               | 104.92                 | 30.17                      |

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report



**Company:** OCCIDENTAL PERMIAN LTD.  
**Project:** Cedar Canyon  
**Site:** Eddy County, NM  
**Well:** Cedar Canyon 15 Fee #2H  
**Wellbore:** DH - Job #320213-MPH-203  
**Design:** DH - Job #320213-MPH-203

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Well Cedar Canyon 15 Fee #2H  
WELL @ 0.00usft (Original Well Elev)  
WELL @ 0.00usft (Original Well Elev)  
True  
Minimum Curvature  
EDM-Regulatory

**Survey**

| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| 1,430.00                 | 1.71               | 106.71         | 1,429.57               | -8.63                 | 31.82               | 105.17                 | 32.97                      |
| 1,525.00                 | 1.58               | 102.89         | 1,524.53               | -9.33                 | 34.45               | 105.15                 | 35.69                      |
| 1,619.00                 | 1.49               | 109.00         | 1,618.50               | -10.01                | 36.87               | 105.20                 | 38.21                      |
| 1,714.00                 | 1.32               | 119.59         | 1,713.47               | -10.96                | 38.99               | 105.70                 | 40.50                      |
| 1,809.00                 | 1.58               | 118.18         | 1,808.44               | -12.12                | 41.10               | 106.43                 | 42.84                      |
| 1,903.00                 | 1.32               | 120.91         | 1,902.41               | -13.28                | 43.17               | 107.10                 | 45.16                      |
| 1,998.00                 | 1.49               | 107.42         | 1,997.38               | -14.22                | 45.28               | 107.43                 | 47.46                      |
| 2,092.00                 | 1.32               | 106.58         | 2,091.35               | -14.89                | 47.49               | 107.41                 | 49.77                      |
| 2,186.00                 | 1.32               | 104.39         | 2,185.33               | -15.47                | 49.57               | 107.33                 | 51.93                      |
| 2,281.00                 | 1.89               | 112.91         | 2,280.29               | -16.35                | 52.08               | 107.43                 | 54.58                      |
| 2,375.00                 | 2.02               | 117.39         | 2,374.24               | -17.72                | 54.98               | 107.66                 | 57.76                      |
| 2,470.00                 | 2.11               | 116.78         | 2,469.17               | -19.27                | 58.02               | 108.37                 | 61.14                      |
| 2,564.00                 | 2.50               | 115.68         | 2,563.10               | -20.94                | 61.42               | 108.83                 | 64.89                      |
| 2,659.00                 | 2.81               | 125.08         | 2,658.00               | -23.18                | 65.19               | 109.57                 | 69.19                      |
| 2,753.00                 | 3.21               | 121.63         | 2,751.87               | -25.88                | 69.32               | 110.48                 | 73.99                      |
| 2,848.00                 | 2.68               | 124.60         | 2,846.74               | -28.54                | 73.41               | 111.24                 | 78.76                      |
| 2,942.00                 | 1.19               | 122.40         | 2,940.69               | -30.31                | 76.04               | 111.73                 | 81.86                      |
| 3,037.00                 | 1.10               | 120.50         | 3,035.67               | -31.30                | 77.66               | 111.95                 | 83.73                      |
| 3,221.00                 | 1.49               | 140.38         | 3,219.62               | -34.04                | 80.71               | 112.87                 | 87.59                      |
| 3,320.00                 | 1.49               | 131.28         | 3,318.59               | -35.88                | 82.50               | 113.51                 | 89.96                      |
| 3,415.00                 | 1.58               | 128.38         | 3,413.55               | -37.51                | 84.45               | 113.95                 | 92.41                      |
| 3,509.00                 | 1.49               | 128.38         | 3,507.52               | -39.07                | 86.43               | 114.33                 | 94.85                      |
| 3,604.00                 | 1.49               | 134.71         | 3,602.48               | -40.71                | 88.27               | 114.76                 | 97.21                      |
| 3,698.00                 | 1.58               | 131.19         | 3,696.45               | -42.42                | 90.11               | 115.21                 | 99.60                      |
| 3,793.00                 | 1.41               | 132.51         | 3,791.42               | -44.07                | 91.96               | 115.61                 | 101.98                     |
| 3,887.00                 | 1.58               | 131.72         | 3,885.38               | -45.72                | 93.78               | 115.99                 | 104.33                     |
| 3,982.00                 | 1.41               | 130.88         | 3,980.38               | -47.35                | 95.64               | 116.34                 | 106.72                     |
| 4,076.00                 | 1.41               | 123.90         | 4,074.33               | -48.76                | 97.48               | 116.57                 | 108.99                     |
| 4,171.00                 | 1.10               | 132.11         | 4,169.30               | -50.02                | 99.12               | 116.78                 | 111.03                     |
| 4,265.00                 | 1.10               | 121.30         | 4,263.29               | -51.09                | 100.56              | 116.93                 | 112.80                     |
| 4,360.00                 | 1.10               | 128.20         | 4,358.27               | -52.13                | 102.06              | 117.06                 | 114.60                     |
| 4,454.00                 | 1.32               | 122.01         | 4,452.25               | -53.26                | 103.69              | 117.19                 | 116.57                     |
| 4,549.00                 | 1.32               | 127.68         | 4,547.22               | -54.51                | 105.48              | 117.33                 | 118.73                     |
| 4,643.00                 | 1.01               | 126.71         | 4,641.20               | -55.67                | 107.00              | 117.49                 | 120.62                     |
| 4,738.00                 | 1.10               | 129.61         | 4,736.19               | -56.75                | 108.38              | 117.64                 | 122.34                     |
| 4,832.00                 | 1.41               | 129.81         | 4,830.17               | -58.06                | 109.96              | 117.84                 | 124.35                     |
| 4,926.00                 | 1.41               | 128.82         | 4,924.14               | -59.53                | 111.75              | 118.04                 | 126.62                     |
| 5,021.00                 | 1.41               | 134.00         | 5,019.11               | -61.07                | 113.51              | 118.28                 | 128.89                     |
| 5,118.00                 | 1.71               | 140.29         | 5,114.07               | -62.97                | 115.25              | 118.65                 | 131.33                     |
| 5,210.00                 | 1.41               | 133.70         | 5,208.04               | -64.85                | 116.98              | 119.00                 | 133.76                     |
| 5,305.00                 | 1.58               | 141.21         | 5,303.01               | -66.68                | 118.65              | 119.34                 | 136.10                     |
| 5,399.00                 | 1.41               | 135.89         | 5,396.97               | -68.52                | 120.27              | 119.67                 | 138.42                     |
| 5,494.00                 | 1.19               | 138.88         | 5,491.95               | -70.10                | 121.73              | 119.94                 | 140.47                     |
| 5,588.00                 | 1.10               | 138.88         | 5,585.93               | -71.52                | 122.96              | 120.18                 | 142.25                     |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report



|                  |                          |                                     |                                      |
|------------------|--------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OCCIDENTAL PERMIAN LTD.  | <b>Local Co-ordinate Reference:</b> | Well Cedar Canyon 15 Fee #2H         |
| <b>Project:</b>  | Cedar Canyon             | <b>TVD Reference:</b>               | WELL @ 0.00usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM          | <b>MD Reference:</b>                | WELL @ 0.00usft (Original Well Elev) |
| <b>Well:</b>     | Cedar Canyon 15 Fee #2H  | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | DH - Job #320213-MPH-203 | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | DH - Job #320213-MPH-203 | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 5,683.00                 | 1.32               | 146.31         | 5,680.91               | -73.11                | 124.17              | 120.49                 | 144.10                     |
| 5,778.00                 | 1.10               | 99.55          | 5,775.89               | -74.18                | 125.68              | 120.55                 | 145.93                     |
| 5,872.00                 | 1.19               | 164.68         | 5,869.88               | -75.27                | 126.82              | 120.69                 | 147.48                     |
| 5,968.00                 | 1.19               | 151.89         | 5,963.86               | -77.07                | 127.54              | 121.14                 | 149.02                     |
| 6,060.00                 | 1.58               | 151.58         | 6,057.83               | -79.07                | 128.62              | 121.58                 | 150.98                     |
| 6,155.00                 | 1.58               | 156.28         | 6,152.79               | -81.42                | 129.77              | 122.11                 | 153.20                     |
| 6,249.00                 | 1.49               | 151.28         | 6,246.76               | -83.68                | 130.88              | 122.59                 | 155.34                     |
| 6,344.00                 | 1.41               | 157.30         | 6,341.73               | -85.84                | 131.92              | 123.05                 | 157.39                     |
| 6,438.00                 | 1.10               | 152.90         | 6,435.70               | -87.71                | 132.78              | 123.45                 | 159.13                     |
| 6,533.00                 | 1.01               | 146.40         | 6,530.69               | -89.22                | 133.66              | 123.72                 | 160.70                     |
| 6,627.00                 | 1.32               | 151.10         | 6,624.67               | -90.86                | 134.64              | 124.01                 | 162.43                     |
| 6,722.00                 | 1.49               | 181.68         | 6,719.64               | -93.05                | 135.13              | 124.55                 | 164.07                     |
| 6,817.00                 | 1.32               | 179.71         | 6,814.61               | -95.38                | 135.10              | 125.22                 | 165.38                     |
| 6,911.00                 | 1.41               | 209.99         | 6,908.59               | -97.46                | 134.53              | 125.92                 | 166.12                     |
| 7,005.00                 | 1.71               | 221.59         | 7,002.55               | -99.51                | 133.02              | 126.80                 | 166.12                     |
| 7,100.00                 | 2.42               | 212.31         | 7,097.49               | -102.27               | 131.01              | 127.98                 | 166.20                     |
| 7,194.00                 | 2.68               | 209.19         | 7,191.40               | -105.87               | 128.88              | 129.40                 | 166.78                     |
| 7,289.00                 | 2.68               | 209.68         | 7,286.29               | -109.73               | 126.69              | 130.90                 | 167.61                     |
| 7,383.00                 | 3.30               | 303.90         | 7,380.21               | -110.13               | 123.36              | 131.76                 | 165.37                     |
| 7,478.00                 | 3.21               | 217.50         | 7,475.11               | -110.72               | 119.47              | 132.82                 | 162.88                     |
| 7,572.00                 | 2.81               | 206.91         | 7,568.98               | -114.86               | 116.82              | 134.52                 | 163.83                     |
| 7,667.00                 | 2.29               | 194.89         | 7,663.88               | -118.77               | 115.29              | 135.85                 | 165.52                     |
| 7,754.00                 | 1.89               | 194.30         | 7,750.82               | -121.85               | 114.49              | 136.78                 | 167.20                     |
| 7,790.00                 | 1.76               | 192.82         | 7,786.81               | -122.96               | 114.22              | 137.11                 | 167.83                     |
| 7,822.00                 | 0.97               | 5.40           | 7,818.80               | -123.17               | 114.14              | 137.18                 | 167.92                     |
| 7,853.00                 | 5.10               | 11.50          | 7,849.75               | -121.56               | 114.44              | 136.73                 | 166.95                     |
| 7,885.00                 | 8.35               | 10.89          | 7,881.53               | -117.88               | 115.16              | 135.67                 | 164.80                     |
| 7,916.00                 | 11.87              | 7.28           | 7,912.04               | -112.51               | 115.99              | 134.13                 | 161.59                     |
| 7,948.00                 | 14.68              | 7.20           | 7,943.18               | -105.22               | 116.91              | 131.99                 | 157.29                     |
| 7,979.00                 | 17.59              | 7.90           | 7,972.96               | -96.68                | 118.05              | 129.32                 | 152.59                     |
| 8,011.00                 | 19.52              | 9.75           | 8,003.30               | -86.62                | 119.62              | 125.91                 | 147.69                     |
| 8,042.00                 | 20.58              | 12.91          | 8,032.42               | -76.20                | 121.72              | 122.05                 | 143.60                     |
| 8,074.00                 | 21.81              | 15.99          | 8,062.25               | -65.01                | 124.61              | 117.55                 | 140.55                     |
| 8,105.00                 | 22.86              | 17.83          | 8,090.93               | -53.74                | 128.04              | 112.77                 | 138.86                     |
| 8,137.00                 | 22.77              | 19.76          | 8,120.42               | -41.99                | 132.04              | 107.64                 | 138.55                     |
| 8,168.00                 | 22.42              | 21.79          | 8,149.04               | -30.86                | 136.26              | 102.76                 | 139.71                     |
| 8,200.00                 | 22.25              | 27.06          | 8,178.65               | -19.80                | 141.28              | 97.98                  | 142.66                     |
| 8,231.00                 | 22.77              | 32.42          | 8,207.29               | -9.50                 | 147.17              | 93.69                  | 147.48                     |
| 8,263.00                 | 24.27              | 37.78          | 8,236.63               | 0.92                  | 154.52              | 89.66                  | 154.52                     |
| 8,294.00                 | 26.12              | 38.75          | 8,264.68               | 11.28                 | 162.69              | 86.03                  | 163.08                     |
| 8,326.00                 | 27.44              | 39.10          | 8,293.25               | 22.50                 | 171.75              | 82.54                  | 173.22                     |
| 8,357.00                 | 28.40              | 43.67          | 8,320.64               | 33.37                 | 181.35              | 79.57                  | 184.40                     |
| 8,389.00                 | 30.34              | 48.94          | 8,348.53               | 44.19                 | 192.70              | 77.08                  | 197.70                     |
| 8,420.00                 | 32.45              | 53.43          | 8,375.00               | 54.29                 | 205.29              | 75.19                  | 212.35                     |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report



|                  |                          |                                     |                                      |
|------------------|--------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OCCIDENTAL PERMIAN LTD.  | <b>Local Co-ordinate Reference:</b> | Well Cedar Canyon 15 Fee #2H         |
| <b>Project:</b>  | Cedar Canyon             | <b>TVD Reference:</b>               | WELL @ 0.00usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM          | <b>MD Reference:</b>                | WELL @ 0.00usft (Original Well Elev) |
| <b>Well:</b>     | Cedar Canyon 15 Fee #2H  | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | DH - Job #320213-MPH-203 | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | DH - Job #320213-MPH-203 | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 8,452.00                 | 34.82              | 56.77          | 8,401.64               | 64.41                 | 219.83              | 73.67                  | 229.07                     |
| 8,483.00                 | 37.81              | 59.23          | 8,426.82               | 74.13                 | 235.40              | 72.52                  | 248.80                     |
| 8,515.00                 | 40.45              | 60.90          | 8,451.44               | 84.20                 | 252.90              | 71.59                  | 266.55                     |
| 8,546.00                 | 43.35              | 61.95          | 8,474.51               | 94.09                 | 271.08              | 70.86                  | 286.95                     |
| 8,578.00                 | 45.99              | 62.30          | 8,497.27               | 104.61                | 290.97              | 70.23                  | 309.20                     |
| 8,609.00                 | 48.72              | 63.01          | 8,518.27               | 115.08                | 311.22              | 69.71                  | 331.82                     |
| 8,641.00                 | 50.58              | 64.94          | 8,538.99               | 125.77                | 333.13              | 69.32                  | 358.08                     |
| 8,672.00                 | 52.32              | 68.02          | 8,558.31               | 135.44                | 355.36              | 69.14                  | 380.29                     |
| 8,704.00                 | 54.08              | 69.86          | 8,577.48               | 144.84                | 379.27              | 69.13                  | 405.91                     |
| 8,735.00                 | 55.57              | 72.76          | 8,595.34               | 152.75                | 403.27              | 69.25                  | 431.23                     |
| 8,767.00                 | 56.72              | 75.58          | 8,613.17               | 159.99                | 428.83              | 69.54                  | 457.71                     |
| 8,798.00                 | 58.30              | 78.04          | 8,629.83               | 165.96                | 454.29              | 69.93                  | 483.65                     |
| 8,830.00                 | 60.06              | 79.35          | 8,646.22               | 171.34                | 481.23              | 70.40                  | 510.83                     |
| 8,861.00                 | 62.43              | 80.59          | 8,661.13               | 176.07                | 507.99              | 70.88                  | 537.64                     |
| 8,893.00                 | 64.98              | 81.55          | 8,675.31               | 180.52                | 536.33              | 71.40                  | 565.90                     |
| 8,924.00                 | 68.15              | 82.34          | 8,687.64               | 184.50                | 564.49              | 71.90                  | 593.88                     |
| 8,956.00                 | 72.12              | 83.02          | 8,698.51               | 188.33                | 594.34              | 72.42                  | 623.46                     |
| 8,987.00                 | 76.33              | 83.66          | 8,706.93               | 191.79                | 623.96              | 72.91                  | 652.77                     |
| 9,019.00                 | 78.08              | 85.24          | 8,714.02               | 194.81                | 655.02              | 73.44                  | 683.37                     |
| 9,050.00                 | 80.90              | 86.03          | 8,719.67               | 197.13                | 685.41              | 73.95                  | 713.19                     |
| 9,113.00                 | 86.09              | 87.79          | 8,726.81               | 200.49                | 747.88              | 74.99                  | 774.29                     |
| 9,145.00                 | 87.67              | 88.50          | 8,728.55               | 201.53                | 779.82              | 75.51                  | 805.44                     |
| 9,209.00                 | 88.64              | 89.20          | 8,730.61               | 202.81                | 843.77              | 76.48                  | 867.80                     |
| 9,302.00                 | 88.85              | 89.16          | 8,732.65               | 204.14                | 936.74              | 77.71                  | 958.73                     |
| 9,397.00                 | 88.90              | 89.37          | 8,734.51               | 205.36                | 1,031.71            | 78.74                  | 1,051.95                   |
| 9,491.00                 | 89.25              | 89.64          | 8,736.03               | 206.17                | 1,125.70            | 79.62                  | 1,144.42                   |
| 9,586.00                 | 89.43              | 90.25          | 8,737.13               | 206.26                | 1,220.69            | 80.41                  | 1,238.00                   |
| 9,680.00                 | 88.90              | 89.46          | 8,738.50               | 206.50                | 1,314.68            | 81.07                  | 1,330.80                   |
| 9,775.00                 | 88.81              | 88.67          | 8,740.39               | 208.05                | 1,409.65            | 81.60                  | 1,424.92                   |
| 9,869.00                 | 88.90              | 88.50          | 8,742.27               | 210.37                | 1,503.60            | 82.04                  | 1,518.25                   |
| 10,021.00                | 88.99              | 88.32          | 8,745.07               | 214.59                | 1,655.52            | 82.61                  | 1,669.37                   |
| 10,058.00                | 89.16              | 88.67          | 8,745.67               | 215.56                | 1,692.50            | 82.74                  | 1,706.17                   |
| 10,152.00                | 88.99              | 88.50          | 8,747.19               | 217.88                | 1,788.46            | 83.05                  | 1,799.69                   |
| 10,247.00                | 89.25              | 88.23          | 8,748.64               | 220.59                | 1,881.41            | 83.31                  | 1,894.29                   |
| 10,341.00                | 88.37              | 89.11          | 8,750.60               | 222.77                | 1,975.36            | 83.57                  | 1,987.88                   |
| 10,436.00                | 88.55              | 89.20          | 8,753.15               | 224.17                | 2,070.31            | 83.82                  | 2,082.42                   |
| 10,531.00                | 89.78              | 90.34          | 8,754.53               | 224.55                | 2,165.30            | 84.08                  | 2,176.91                   |
| 10,625.00                | 90.57              | 91.13          | 8,754.25               | 223.35                | 2,259.29            | 84.35                  | 2,270.30                   |
| 10,720.00                | 90.84              | 90.78          | 8,753.08               | 221.77                | 2,354.27            | 84.62                  | 2,364.69                   |
| 10,814.00                | 91.28              | 90.17          | 8,751.34               | 220.99                | 2,448.25            | 84.84                  | 2,458.20                   |
| 10,908.00                | 91.54              | 89.64          | 8,749.03               | 221.14                | 2,542.22            | 85.03                  | 2,551.82                   |
| 11,003.00                | 90.13              | 90.52          | 8,747.64               | 221.01                | 2,637.21            | 85.21                  | 2,646.45                   |
| 11,097.00                | 90.22              | 90.78          | 8,747.35               | 219.94                | 2,731.20            | 85.40                  | 2,740.04                   |
| 11,192.00                | 88.64              | 90.87          | 8,748.30               | 218.58                | 2,826.18            | 85.58                  | 2,834.62                   |
| 11,286.00                | 88.64              | 90.52          | 8,750.53               | 217.44                | 2,920.15            | 85.74                  | 2,928.23                   |

**Scientific Drilling International, Inc.**  
SDI Standard Survey Report



|                  |                          |                                     |                                      |
|------------------|--------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | OCCIDENTAL PERMIAN LTD.  | <b>Local Co-ordinate Reference:</b> | Well Cedar Canyon 15 Fee #2H         |
| <b>Project:</b>  | Cedar Canyon             | <b>TVD Reference:</b>               | WELL @ 0.00usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM          | <b>MD Reference:</b>                | WELL @ 0.00usft (Original Well Elev) |
| <b>Well:</b>     | Cedar Canyon 15 Fee #2H  | <b>North Reference:</b>             | True                                 |
| <b>Wellbore:</b> | DH - Job #320213-MPH-203 | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | DH - Job #320213-MPH-203 | <b>Database:</b>                    | EDM-Regulatory                       |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 11,381.00                | 87.58              | 89.64          | 8,753.66               | 217.30                | 3,015.10            | 85.88                  | 3,022.92                   |
| 11,475.00                | 88.99              | 90.08          | 8,756.48               | 217.53                | 3,109.05            | 86.00                  | 3,116.85                   |
| 11,570.00                | 89.87              | 90.17          | 8,757.42               | 217.32                | 3,204.05            | 86.12                  | 3,211.41                   |
| 11,664.00                | 88.11              | 89.46          | 8,759.08               | 217.63                | 3,298.03            | 86.22                  | 3,305.20                   |
| 11,759.00                | 88.64              | 89.73          | 8,761.77               | 218.30                | 3,392.98            | 86.32                  | 3,400.00                   |
| 11,853.00                | 87.49              | 88.41          | 8,764.95               | 219.82                | 3,486.92            | 86.39                  | 3,493.84                   |
| 11,948.00                | 87.67              | 89.11          | 8,768.96               | 221.88                | 3,581.81            | 86.46                  | 3,588.67                   |
| 12,042.00                | 87.58              | 88.50          | 8,772.85               | 223.84                | 3,675.71            | 86.52                  | 3,682.52                   |
| 12,137.00                | 87.76              | 91.84          | 8,776.72               | 223.55                | 3,770.61            | 86.61                  | 3,777.23                   |
| 12,231.00                | 87.85              | 92.27          | 8,780.32               | 220.19                | 3,864.48            | 86.74                  | 3,870.75                   |
| 12,326.00                | 88.20              | 91.04          | 8,783.59               | 217.44                | 3,959.39            | 86.86                  | 3,965.35                   |
| 12,420.00                | 89.16              | 89.64          | 8,785.76               | 216.89                | 4,053.36            | 86.94                  | 4,059.15                   |
| 12,515.00                | 88.99              | 89.37          | 8,787.29               | 217.71                | 4,148.34            | 87.00                  | 4,154.05                   |
| 12,609.00                | 88.99              | 88.76          | 8,788.95               | 219.24                | 4,242.31            | 87.04                  | 4,247.97                   |
| 12,704.00                | 88.99              | 87.79          | 8,790.62               | 222.10                | 4,337.25            | 87.07                  | 4,342.94                   |
| 12,798.00                | 88.99              | 86.30          | 8,792.28               | 226.95                | 4,431.11            | 87.07                  | 4,436.92                   |
| 12,893.00                | 88.69              | 85.71          | 8,794.20               | 233.56                | 4,525.86            | 87.05                  | 4,531.88                   |
| Last MWD Survey          |                    |                |                        |                       |                     |                        |                            |
| 12,960.00                | 88.48              | 85.29          | 8,795.86               | 238.82                | 4,592.63            | 87.02                  | 4,598.84                   |
| Projection to Bit        |                    |                |                        |                       |                     |                        |                            |

| Survey Annotations          |                             |                   |                |                   |
|-----------------------------|-----------------------------|-------------------|----------------|-------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                | Comment           |
|                             |                             | +N-S<br>(usft)    | +E-W<br>(usft) |                   |
| 12,893.00                   | 8,794.20                    | 233.56            | 4,525.86       | Last MWD Survey   |
| 12,960.00                   | 8,795.86                    | 238.82            | 4,592.63       | Projection to Bit |



Cedar Canyon 15 FEE 2H  
Eddy County, New Mexico  
Northing: 440526.10  
Easting: 609522.80  
Original Wellbore



North Arrow to Grid  
True North: 1.1°  
Magnetic North: 1.2°  
Grid North: 0.0°  
Grid North: 0.0°  
Grid North: 0.0°  
Grid North: 0.0°



KB @ 2953.0m (Top 20" KB)  
Gr: 2927.0

#### SECTION DETAILS:

| MD      | Inc   | Azi    | TVD    | +N-S   | +E-W   | Dleg | TFace  | Vsect  | Target |
|---------|-------|--------|--------|--------|--------|------|--------|--------|--------|
| 7754.0  | 1.89  | 194.30 | 7750.8 | -121.5 | 114.5  | 0.00 | 0.00   | 108.9  |        |
| 7785.5  | 0.00  | 0.00   | 7782.3 | -122.0 | 114.4  | 8.00 | 180.00 | 108.7  |        |
| 7791.9  | 0.00  | 0.00   | 7788.7 | -122.0 | 114.4  | 0.00 | 0.00   | 108.7  |        |
| 8079.4  | 23.00 | 0.00   | 8068.6 | -85.1  | 114.4  | 8.00 | 0.00   | 111.3  |        |
| 8194.5  | 89.13 | 90.04  | 8729.6 | 210.4  | 820.7  | 8.00 | 90.38  | 829.4  |        |
| 12958.6 | 89.13 | 90.04  | 8787.0 | 207.9  | 4584.5 | 0.00 | 0.00   | 4589.2 | PBHL   |

#### WELL DETAILS: Cedar Canyon 15 FEE 2H

Ground Level: 2927.0

| +N-S | +E-W | Northing  | Easting   | Latitude         | Longitude         |
|------|------|-----------|-----------|------------------|-------------------|
| 0.0  | 0.0  | 440526.10 | 609522.80 | 32° 12' 38.259 N | 103° 53' 45.181 W |

#### DESIGN TARGET DETAILS:

| Name | TVD    | +N-S  | +E-W   | Northing  | Easting   |
|------|--------|-------|--------|-----------|-----------|
| PP   | 8200.0 | 210.0 | -1.1   | 440736.10 | 609521.70 |
| PBHL | 8787.0 | 207.9 | 4584.5 | 440734.00 | 814107.30 |

#### PROJECT DETAILS:

Eddy County, New Mexico  
Geodetic System: US State Plane 1927  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001

System Datum: Mean Sea Level

#### SITE DETAILS: Cedar Canyon

Site Centre Northing: 440526.10  
Easting: 609522.80

Positional Uncertainty: 0.0  
Convergence: 0.19  
Local North: Grid

