

District II  
811 S. First Street, Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Drive, Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION  
1220 South St. Francis Drive  
Santa Fe, NM 87505

☐ AMENDED REPORT

As Drilled

NMCD

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                             |                                           |                                  |
|-----------------------------|-------------------------------------------|----------------------------------|
| *API Number<br>30-043-21306 | *Pool Code<br>98225                       | *Pool Name<br>ESCAVADA W; MANCOS |
| *Property Code<br>321258    | *Property Name<br>W ESCAVADA UNIT         | *Well Number<br>303H             |
| *OGAID No.<br>372286        | *Operator Name<br>ENDURING RESOURCES, LLC | *Elevation<br>6878'              |

<sup>10</sup> Surface Location

| U/L or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|----------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| P              | 17      | 22N      | 7W    |         | 235           | SOUTH            | 228           | EAST           | SANDOVAL |

<sup>11</sup> Bottom Hole Location If Different From Surface

|               |         |          |       |         |               |                  |               |                |          |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
| J             | 7       | 22N      | 7W    |         | 2274          | SOUTH            | 2477          | EAST           | SANDOVAL |

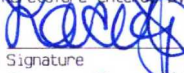
|                                         |                                                                                                                                   |                                                                                                                                                      |                                  |                                        |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------|
| <sup>12</sup> Dedicated Acres<br>440.00 | NE/4 NE/4 - Section 18<br>W/2 NW/4, SE/4 NW/4<br>NE/4 SW/4, W/2 SE/4<br>SE/4 SE/4 - Section 17<br>W/2 SE/4, SE/4 SE/4 - Section 7 | <sup>13</sup> Joint or Infill                                                                                                                        | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.<br><br>R-14100 |
|                                         |                                                                                                                                   | NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION |                                  |                                        |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION  
UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A  
NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

**CONFIDENTIAL**

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

 3/26/10

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Lacey Granillo**

Printed Name \_\_\_\_\_

lgranillo@enduringresources.com

E-mail Address \_\_\_\_\_

18 SURVEYOR CERTIFICATION

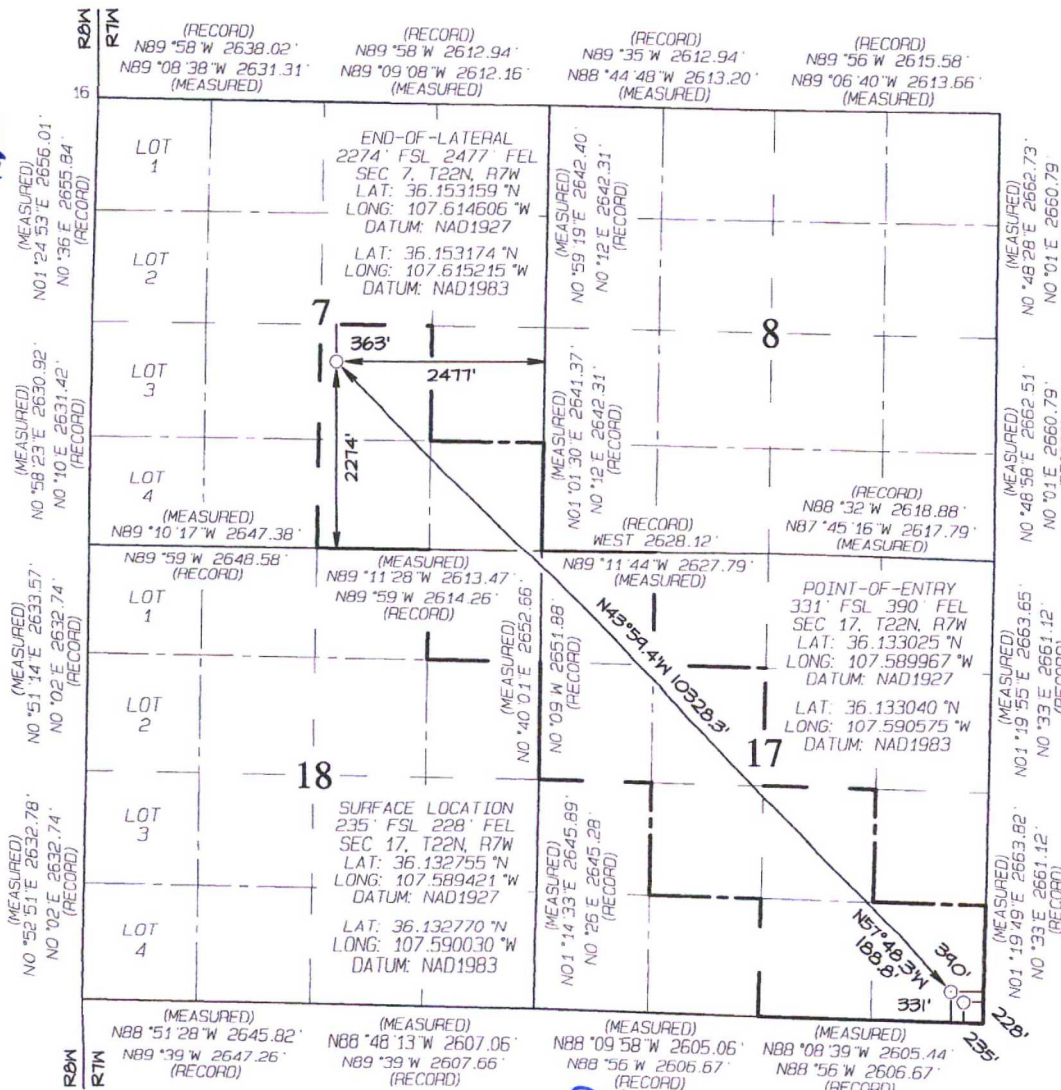
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: AUGUST 30, 2018  
Date of Survey: MARCH 3, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS  
Certificate Number 15269







Well: W Escavada Unit Well No. 303H  
Site: W Escavada Unit  
Project: Sandoval County, New Mexico NAD83 NM C  
Design: rev4  
Rig: Aztec 1000

#### Section Details

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W    | Dleg  | TFace  | VSecl   | Annotation                      |
|-----|----------|-------|--------|---------|---------|----------|-------|--------|---------|---------------------------------|
| 1   | 4111.00  | 4.53  | 140.38 | 4077.88 | -362.39 | 306.31   | 0.00  | 0.00   | -473.49 | Tie in survey @ 4111 MD         |
| 2   | 4160.00  | 4.15  | 140.47 | 4126.74 | -365.24 | 308.67   | 0.78  | 179.02 | -477.19 | S/T Begin 10°/100' build/turn   |
| 3   | 4801.35  | 60.00 | 315.50 | 4664.25 | -163.55 | 107.32   | 10.00 | 175.22 | -192.23 | Begin 60.00° tangent section    |
| 4   | 4861.35  | 60.00 | 315.50 | 4694.25 | -126.49 | 70.90    | 0.00  | 0.00   | -140.27 | Begin 8°/100' build/turn        |
| 5   | 5234.48  | 89.85 | 316.05 | 4790.21 | 128.86  | -177.48  | 8.00  | 1.10   | 215.95  | Begin 89.85° lateral section    |
| 6   | 15557.65 | 89.85 | 316.05 | 4818.00 | 7560.38 | -7342.65 | 0.00  | 0.00   | 0539.09 | PBHL/TD 15557.65 MD 4818.00 TVD |

#### ANNOTATIONS SURVEYS ST1

| MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W    | VSecl    | Annotation                                  |
|----------|-------|--------|---------|---------|----------|----------|---------------------------------------------|
| 3922.00  | 7.08  | 142.47 | 3889.81 | -347.95 | 294.76   | -454.97  | Tie into original hole @ 3922 MD            |
| 5111.00  | 77.04 | 316.71 | 4760.72 | 100.56  | -159.56  | 183.28   | 330 FSL @ 5111 MD 4761 TVD                  |
| 15423.00 | 89.56 | 314.07 | 4824.49 | 7516.06 | -7317.17 | 10489.61 | Survey @ 15423.00 MD 4824.49 TVD            |
| 15588.00 | 89.56 | 314.07 | 4825.76 | 7630.82 | -7435.71 | 10654.52 | Survey Projected to 15588.00 MD 4825.76 TVD |

#### DESIGN TARGET DETAILS

| Name                        | TVD     | +N/-S   | +E/-W    | Northing   | Easting    | Latitude    | Longitude     |
|-----------------------------|---------|---------|----------|------------|------------|-------------|---------------|
| 303H Frac Sleeve @ 15445 MD | 0.00    | 7531.36 | -7332.97 | 1877853.58 | 1237380.71 | 36.15317367 | -107.61521483 |
| 303H 330 FSL @ 5111 MD      | 4760.72 | 100.56  | -159.56  | 1870422.80 | 1244554.10 | 36.13304013 | -107.59057491 |

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Depth Reference: RKB=6878+25 @ 6903.00ft (Aztec 1000)

|            |            |             |               |
|------------|------------|-------------|---------------|
| Northing   | Easting    | Latitude    | Longitude     |
| 1870322.24 | 1244713.66 | 36.13277000 | -107.59003000 |

Total Corr (M=>G) To convert a Magnetic Direction to a Grid Direction, Add 9.80°

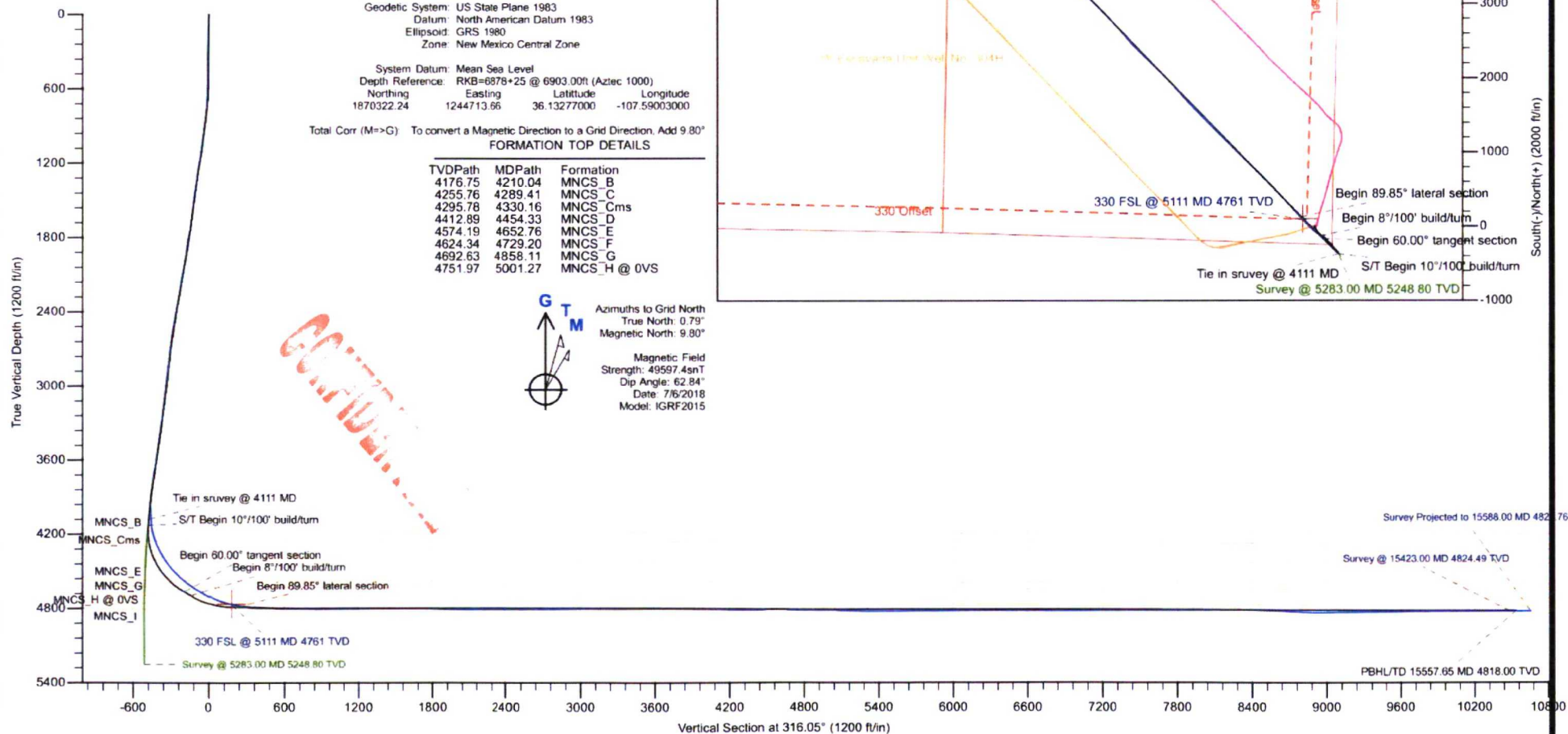
#### FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation    |
|---------|---------|--------------|
| 4176.75 | 4210.04 | MNCS_B       |
| 4255.76 | 4289.41 | MNCS_C       |
| 4295.78 | 4330.16 | MNCS_Cms     |
| 4412.89 | 4454.33 | MNCS_D       |
| 4574.19 | 4652.76 | MNCS_E       |
| 4624.34 | 4729.20 | MNCS_F       |
| 4692.63 | 4858.11 | MNCS_G       |
| 4751.97 | 5001.27 | MNCS_H @ OVS |



Azimuths to Grid North  
True North: 0.79°  
Magnetic North: 9.80°

Magnetic Field  
Strength: 49597.4nT  
Dip Angle: 62.84°  
Date: 7/6/2018  
Model: IGRF2015





## Survey Report

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

|                    |                                        |                      |                |
|--------------------|----------------------------------------|----------------------|----------------|
| <b>Project</b>     | Sandoval County, New Mexico NAD83 NM C |                      |                |
| <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 Central Zone                |                      |                |

|                              |                 |                     |                   |                                  |
|------------------------------|-----------------|---------------------|-------------------|----------------------------------|
| <b>Site</b>                  | W Escavada Unit |                     |                   |                                  |
| <b>Site Position:</b>        |                 | <b>Northing:</b>    | 1,870,321.60 usft | <b>Latitude:</b> 36.13276900     |
| <b>From:</b>                 | Lat/Long        | <b>Easting:</b>     | 1,244,733.73 usft | <b>Longitude:</b> -107.58996200  |
| <b>Position Uncertainty:</b> | 0.00 ft         | <b>Slot Radius:</b> | 13-3/16 "         | <b>Grid Convergence:</b> -0.79 ° |

|                             |                               |         |                            |                   |
|-----------------------------|-------------------------------|---------|----------------------------|-------------------|
| <b>Well</b>                 | W Escavada Unit Well No. 303H |         |                            |                   |
| <b>Well Position</b>        | <b>+N/-S</b>                  | 0.00 ft | <b>Northing:</b>           | 1,870,322.24 usft |
|                             | <b>+E/-W</b>                  | 0.00 ft | <b>Easting:</b>            | 1,244,713.66 usft |
| <b>Position Uncertainty</b> | 0.00 ft                       |         | <b>Wellhead Elevation:</b> | ft                |
|                             |                               |         | <b>Ground Level:</b>       | 6,878.00 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Sidetrack 01      |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 7/6/2018           | 9.01                   | 62.84                | 49,597.37050669            |

|                          |                              |                   |                   |                      |          |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|----------|
| <b>Design</b>            | Surveys Sidetrack 01         |                   |                   |                      |          |
| <b>Audit Notes:</b>      |                              |                   |                   |                      |          |
| <b>Version:</b>          | 1.0                          | <b>Phase:</b>     | ACTUAL            | <b>Tie On Depth:</b> | 3,922.00 |
| <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              | 315.86               |          |

|                       |                |                           |                  |                     |  |
|-----------------------|----------------|---------------------------|------------------|---------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 8/29/2018                 |                  |                     |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b>  | <b>Tool Name</b> | <b>Description</b>  |  |
| 328.00                | 2,901.00       | MWD surf (Original Hole)  | MWD              | OWSG MWD - Standard |  |
| 3,071.00              | 3,922.00       | MWD (Original Hole)       | MWD              | OWSG MWD - Standard |  |
| 3,981.00              | 15,423.00      | MWD ST1 (Sidetrack 01)    | MWD              | OWSG MWD - Standard |  |
| 15,588.00             | 15,588.00      | Projection (Sidetrack 01) | MWD              | OWSG MWD - Standard |  |

|                            |                        |                    |                            |                   |                   |                              |                              |                             |                            |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|------------------------------|-----------------------------|----------------------------|
| <b>Survey</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>Vertical Section (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                         | 0.00                        | 0.00                       |
| 328.00                     | 0.87                   | 175.94             | 327.99                     | -2.48             | 0.18              | -1.91                        | 0.27                         | 0.27                        | 0.00                       |
| 419.00                     | 1.00                   | 179.11             | 418.98                     | -3.97             | 0.24              | -3.01                        | 0.15                         | 0.14                        | 3.48                       |
| 510.00                     | 1.02                   | 178.41             | 509.96                     | -5.57             | 0.27              | -4.19                        | 0.03                         | 0.02                        | -0.77                      |
| 601.00                     | 2.48                   | 157.08             | 600.92                     | -8.19             | 1.06              | -6.62                        | 1.73                         | 1.60                        | -23.44                     |
| 692.00                     | 4.15                   | 161.58             | 691.76                     | -13.13            | 2.87              | -11.42                       | 1.86                         | 1.84                        | 4.95                       |
| 782.00                     | 6.57                   | 158.49             | 781.36                     | -21.01            | 5.79              | -19.11                       | 2.71                         | 2.69                        | -3.43                      |
| 874.00                     | 7.20                   | 158.55             | 872.70                     | -31.28            | 9.82              | -29.29                       | 0.68                         | 0.68                        | 0.07                       |





## Survey Report

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**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured Depth (ft)              | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 965.00                           | 6.72            | 158.03      | 963.03              | -41.52     | 13.90      | -39.48                | 0.53                  | -0.53                | -0.57               |
| 1,060.00                         | 7.62            | 148.82      | 1,057.29            | -52.06     | 19.24      | -50.76                | 1.53                  | 0.95                 | -9.69               |
| 1,155.00                         | 9.15            | 139.25      | 1,151.27            | -63.18     | 27.43      | -64.44                | 2.17                  | 1.61                 | -10.07              |
| 1,249.00                         | 9.47            | 136.78      | 1,244.03            | -74.47     | 37.61      | -79.64                | 0.54                  | 0.34                 | -2.63               |
| 1,344.00                         | 9.39            | 137.67      | 1,337.75            | -85.90     | 48.18      | -95.20                | 0.18                  | -0.08                | 0.94                |
| 1,439.00                         | 8.13            | 138.21      | 1,431.64            | -96.64     | 57.88      | -109.65               | 1.33                  | -1.33                | 0.57                |
| 1,534.00                         | 6.80            | 135.01      | 1,525.83            | -105.62    | 66.33      | -121.99               | 1.47                  | -1.40                | -3.37               |
| 1,628.00                         | 6.46            | 132.64      | 1,619.21            | -113.14    | 74.15      | -132.83               | 0.46                  | -0.36                | -2.52               |
| 1,723.00                         | 8.37            | 129.16      | 1,713.41            | -121.13    | 83.45      | -145.04               | 2.06                  | 2.01                 | -3.66               |
| 1,818.00                         | 7.98            | 129.30      | 1,807.44            | -129.67    | 93.91      | -158.46               | 0.41                  | -0.41                | 0.15                |
| 1,912.00                         | 8.10            | 132.42      | 1,900.52            | -138.27    | 103.85     | -171.55               | 0.48                  | 0.13                 | 3.32                |
| 2,007.00                         | 9.49            | 134.12      | 1,994.40            | -148.24    | 114.41     | -186.06               | 1.49                  | 1.46                 | 1.79                |
| 2,102.00                         | 9.85            | 133.80      | 2,088.05            | -159.32    | 125.90     | -202.01               | 0.38                  | 0.38                 | -0.34               |
| 2,196.00                         | 9.86            | 133.00      | 2,180.66            | -170.37    | 137.59     | -218.08               | 0.15                  | 0.01                 | -0.85               |
| 2,291.00                         | 9.36            | 133.80      | 2,274.33            | -181.26    | 149.11     | -233.93               | 0.54                  | -0.53                | 0.84                |
| 2,386.00                         | 9.42            | 132.63      | 2,368.06            | -191.88    | 160.41     | -249.41               | 0.21                  | 0.06                 | -1.23               |
| 2,480.00                         | 9.51            | 132.91      | 2,460.78            | -202.37    | 171.76     | -264.84               | 0.11                  | 0.10                 | 0.30                |
| 2,574.00                         | 9.07            | 132.81      | 2,553.54            | -212.69    | 182.88     | -280.00               | 0.47                  | -0.47                | -0.11               |
| 2,669.00                         | 8.05            | 132.85      | 2,647.48            | -222.31    | 193.25     | -294.12               | 1.07                  | -1.07                | 0.04                |
| 2,763.00                         | 6.51            | 134.12      | 2,740.72            | -230.49    | 201.90     | -306.02               | 1.65                  | -1.64                | 1.35                |
| 2,858.00                         | 5.76            | 134.08      | 2,835.18            | -237.56    | 209.19     | -316.17               | 0.79                  | -0.79                | -0.04               |
| 2,901.00                         | 5.73            | 134.35      | 2,877.96            | -240.56    | 212.28     | -320.47               | 0.09                  | -0.07                | 0.63                |
| 3,071.00                         | 6.25            | 142.08      | 3,047.04            | -253.79    | 224.03     | -338.15               | 0.56                  | 0.31                 | 4.55                |
| 3,165.00                         | 7.89            | 145.11      | 3,140.32            | -263.12    | 230.87     | -349.61               | 1.79                  | 1.74                 | 3.22                |
| 3,259.00                         | 8.01            | 145.29      | 3,233.42            | -273.80    | 238.29     | -362.43               | 0.13                  | 0.13                 | 0.19                |
| 3,354.00                         | 7.60            | 142.44      | 3,327.54            | -284.22    | 245.89     | -375.20               | 0.59                  | -0.43                | -3.00               |
| 3,448.00                         | 7.77            | 142.76      | 3,420.69            | -294.21    | 253.52     | -387.69               | 0.19                  | 0.18                 | 0.34                |
| 3,543.00                         | 7.84            | 143.49      | 3,514.81            | -304.53    | 261.26     | -400.49               | 0.13                  | 0.07                 | 0.77                |
| 3,637.00                         | 8.28            | 141.37      | 3,607.88            | -314.97    | 269.30     | -413.58               | 0.56                  | 0.47                 | -2.26               |
| 3,732.00                         | 9.18            | 142.67      | 3,701.78            | -326.34    | 278.17     | -427.91               | 0.97                  | 0.95                 | 1.37                |
| 3,827.00                         | 8.36            | 142.41      | 3,795.67            | -337.83    | 286.98     | -442.30               | 0.86                  | -0.86                | -0.27               |
| 3,922.00                         | 7.08            | 142.47      | 3,889.81            | -347.95    | 294.76     | -454.97               | 1.35                  | -1.35                | 0.06                |
| Tie into original hole @ 3922 MD |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,981.00                         | 1.84            | 222.05      | 3,948.64            | -351.54    | 296.34     | -458.65               | 11.84                 | -8.88                | 134.88              |
| 4,076.00                         | 3.82            | 284.72      | 4,043.54            | -351.87    | 292.25     | -456.04               | 3.57                  | 2.08                 | 65.97               |
| 4,108.00                         | 3.60            | 286.39      | 4,075.47            | -351.32    | 290.26     | -454.26               | 0.77                  | -0.69                | 5.22                |
| 4,171.00                         | 5.14            | 303.97      | 4,138.29            | -349.18    | 286.02     | -449.77               | 3.21                  | 2.44                 | 27.90               |
| 4,202.00                         | 10.45           | 317.85      | 4,168.99            | -346.32    | 282.98     | -445.60               | 18.05                 | 17.13                | 44.77               |
| 4,233.00                         | 15.33           | 323.13      | 4,199.20            | -340.95    | 278.63     | -438.72               | 16.18                 | 15.74                | 17.03               |
| 4,265.00                         | 18.80           | 323.83      | 4,229.79            | -333.40    | 273.05     | -429.42               | 10.86                 | 10.84                | 2.19                |
| 4,296.00                         | 21.70           | 322.51      | 4,258.87            | -324.82    | 266.61     | -418.78               | 9.47                  | 9.35                 | -4.26               |
| 4,328.00                         | 24.03           | 318.47      | 4,288.36            | -315.25    | 258.69     | -406.39               | 8.78                  | 7.28                 | -12.63              |
| 4,359.00                         | 26.76           | 316.09      | 4,316.36            | -305.49    | 249.66     | -393.10               | 9.40                  | 8.81                 | -7.68               |



## Survey Report

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**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured<br>Depth<br>(ft)         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|-----------------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 4,391.00                          | 29.35              | 314.07         | 4,344.60                  | -294.85       | 239.03        | -378.06                     | 8.62                        | 8.09                       | -6.31                     |
| 4,422.00                          | 29.75              | 312.93         | 4,371.56                  | -284.32       | 227.94        | -362.78                     | 2.23                        | 1.29                       | -3.68                     |
| 4,454.00                          | 31.77              | 312.40         | 4,399.06                  | -273.23       | 215.91        | -346.44                     | 6.37                        | 6.31                       | -1.66                     |
| 4,486.00                          | 35.24              | 312.05         | 4,425.74                  | -261.37       | 202.82        | -328.82                     | 10.86                       | 10.84                      | -1.09                     |
| 4,517.00                          | 37.74              | 312.49         | 4,450.66                  | -248.97       | 189.19        | -310.42                     | 8.11                        | 8.06                       | 1.42                      |
| 4,549.00                          | 40.03              | 312.67         | 4,475.57                  | -235.37       | 174.40        | -290.36                     | 7.16                        | 7.16                       | 0.56                      |
| 4,580.00                          | 42.18              | 313.37         | 4,498.93                  | -221.47       | 159.50        | -270.01                     | 7.09                        | 6.94                       | 2.26                      |
| 4,612.00                          | 44.51              | 314.42         | 4,522.20                  | -206.24       | 143.67        | -248.06                     | 7.62                        | 7.28                       | 3.28                      |
| 4,644.00                          | 47.02              | 315.13         | 4,544.52                  | -190.09       | 127.40        | -225.14                     | 8.00                        | 7.84                       | 2.22                      |
| 4,675.00                          | 49.92              | 314.78         | 4,565.07                  | -173.70       | 110.98        | -201.94                     | 9.39                        | 9.35                       | -1.13                     |
| 4,707.00                          | 52.38              | 314.78         | 4,585.14                  | -156.14       | 93.29         | -177.02                     | 7.69                        | 7.69                       | 0.00                      |
| 4,738.00                          | 54.66              | 315.04         | 4,603.57                  | -138.55       | 75.64         | -152.10                     | 7.39                        | 7.35                       | 0.84                      |
| 4,770.00                          | 56.86              | 315.13         | 4,621.57                  | -119.81       | 56.96         | -125.65                     | 6.88                        | 6.88                       | 0.28                      |
| 4,801.00                          | 58.66              | 315.04         | 4,638.11                  | -101.25       | 38.45         | -99.43                      | 5.81                        | 5.81                       | -0.29                     |
| 4,833.00                          | 60.51              | 315.22         | 4,654.31                  | -81.69        | 18.98         | -71.84                      | 5.80                        | 5.78                       | 0.56                      |
| 4,864.00                          | 60.24              | 315.22         | 4,669.63                  | -62.56        | 0.00          | -44.90                      | 0.87                        | -0.87                      | 0.00                      |
| 4,896.00                          | 60.29              | 314.51         | 4,685.51                  | -42.96        | -19.69        | -17.11                      | 1.93                        | 0.16                       | -2.22                     |
| 4,927.00                          | 62.31              | 314.86         | 4,700.39                  | -23.84        | -39.02        | 10.07                       | 6.59                        | 6.52                       | 1.13                      |
| 4,959.00                          | 65.08              | 315.30         | 4,714.57                  | -3.53         | -59.28        | 38.75                       | 8.74                        | 8.66                       | 1.38                      |
| 4,990.00                          | 68.64              | 315.65         | 4,726.75                  | 16.79         | -79.26        | 67.25                       | 11.53                       | 11.48                      | 1.13                      |
| 5,022.00                          | 72.37              | 315.57         | 4,737.43                  | 38.35         | -100.36       | 97.41                       | 11.66                       | 11.66                      | -0.25                     |
| 5,053.00                          | 74.51              | 316.45         | 4,746.26                  | 59.72         | -120.99       | 127.12                      | 7.42                        | 6.90                       | 2.84                      |
| 5,085.00                          | 75.49              | 316.71         | 4,754.55                  | 82.17         | -142.24       | 158.03                      | 3.16                        | 3.06                       | 0.81                      |
| 5,111.00                          | 77.04              | 316.71         | 4,760.72                  | 100.56        | -159.56       | 183.28                      | 5.97                        | 5.97                       | 0.00                      |
| <b>330 FSL @ 5111 MD 4761 TVD</b> |                    |                |                           |               |               |                             |                             |                            |                           |
| 5,116.00                          | 77.34              | 316.71         | 4,761.83                  | 104.11        | -162.90       | 188.16                      | 5.97                        | 5.97                       | 0.00                      |
| 5,148.00                          | 77.87              | 316.62         | 4,768.70                  | 126.84        | -184.35       | 219.41                      | 1.68                        | 1.66                       | -0.28                     |
| 5,179.00                          | 80.41              | 316.89         | 4,774.54                  | 149.01        | -205.20       | 249.85                      | 8.24                        | 8.19                       | 0.87                      |
| 5,211.00                          | 83.54              | 317.32         | 4,779.00                  | 172.23        | -226.77       | 281.52                      | 9.87                        | 9.78                       | 1.34                      |
| 5,242.00                          | 85.82              | 317.68         | 4,781.88                  | 194.98        | -247.62       | 312.37                      | 7.45                        | 7.35                       | 1.16                      |
| 5,273.00                          | 86.18              | 317.94         | 4,784.04                  | 217.89        | -268.39       | 343.28                      | 1.43                        | 1.16                       | 0.84                      |
| 5,305.00                          | 86.22              | 317.68         | 4,786.16                  | 241.55        | -289.83       | 375.19                      | 0.82                        | 0.13                       | -0.81                     |
| 5,336.00                          | 86.48              | 317.76         | 4,788.13                  | 264.44        | -310.65       | 406.11                      | 0.88                        | 0.84                       | 0.26                      |
| 5,399.00                          | 86.48              | 317.24         | 4,792.00                  | 310.80        | -353.13       | 468.97                      | 0.82                        | 0.00                       | -0.83                     |
| 5,494.00                          | 87.80              | 317.41         | 4,796.74                  | 380.56        | -417.44       | 563.82                      | 1.40                        | 1.39                       | 0.18                      |
| 5,589.00                          | 89.47              | 316.80         | 4,799.01                  | 450.13        | -482.08       | 658.76                      | 1.87                        | 1.76                       | -0.64                     |
| 5,684.00                          | 89.47              | 316.89         | 4,799.88                  | 519.43        | -547.06       | 753.75                      | 0.09                        | 0.00                       | 0.09                      |
| 5,778.00                          | 89.47              | 315.65         | 4,800.75                  | 587.35        | -612.03       | 847.74                      | 1.32                        | 0.00                       | -1.32                     |
| 5,872.00                          | 89.86              | 314.95         | 4,801.30                  | 654.17        | -678.15       | 941.73                      | 0.85                        | 0.41                       | -0.74                     |
| 5,966.00                          | 89.82              | 314.42         | 4,801.57                  | 720.27        | -744.98       | 1,035.71                    | 0.57                        | -0.04                      | -0.56                     |
| 6,061.00                          | 90.48              | 315.30         | 4,801.32                  | 787.28        | -812.32       | 1,130.69                    | 1.16                        | 0.69                       | 0.93                      |
| 6,156.00                          | 90.48              | 314.60         | 4,800.52                  | 854.39        | -879.55       | 1,225.68                    | 0.74                        | 0.00                       | -0.74                     |
| 6,250.00                          | 90.52              | 313.63         | 4,799.70                  | 919.82        | -947.03       | 1,319.63                    | 1.03                        | 0.04                       | -1.03                     |
| 6,345.00                          | 90.30              | 315.30         | 4,799.02                  | 986.36        | -1,014.83     | 1,414.60                    | 1.77                        | -0.23                      | 1.76                      |





## Survey Report

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 6,439.00            | 89.86           | 314.78      | 4,798.89            | 1,052.88   | -1,081.25  | 1,508.59              | 0.72                  | -0.47                | -0.55               |
| 6,533.00            | 89.64           | 314.25      | 4,799.30            | 1,118.78   | -1,148.28  | 1,602.56              | 0.61                  | -0.23                | -0.56               |
| 6,628.00            | 89.51           | 315.39      | 4,800.00            | 1,185.74   | -1,215.66  | 1,697.54              | 1.21                  | -0.14                | 1.20                |
| 6,722.00            | 89.69           | 314.95      | 4,800.66            | 1,252.40   | -1,281.93  | 1,791.53              | 0.51                  | 0.19                 | -0.47               |
| 6,817.00            | 89.56           | 315.57      | 4,801.28            | 1,319.88   | -1,348.80  | 1,886.52              | 0.67                  | -0.14                | 0.65                |
| 6,912.00            | 88.85           | 315.39      | 4,802.60            | 1,387.61   | -1,415.40  | 1,981.51              | 0.77                  | -0.75                | -0.19               |
| 7,007.00            | 89.34           | 316.71      | 4,804.10            | 1,455.99   | -1,481.32  | 2,076.50              | 1.48                  | 0.52                 | 1.39                |
| 7,101.00            | 89.20           | 315.92      | 4,805.30            | 1,523.96   | -1,546.24  | 2,170.48              | 0.85                  | -0.15                | -0.84               |
| 7,196.00            | 90.04           | 317.68      | 4,805.93            | 1,593.21   | -1,611.27  | 2,265.46              | 2.05                  | 0.88                 | 1.85                |
| 7,291.00            | 89.82           | 317.59      | 4,806.05            | 1,663.40   | -1,675.29  | 2,360.42              | 0.25                  | -0.23                | -0.09               |
| 7,385.00            | 89.25           | 317.15      | 4,806.81            | 1,732.56   | -1,738.95  | 2,454.38              | 0.77                  | -0.61                | -0.47               |
| 7,480.00            | 90.35           | 317.24      | 4,807.14            | 1,802.26   | -1,803.50  | 2,549.35              | 1.16                  | 1.16                 | 0.09                |
| 7,575.00            | 90.21           | 317.32      | 4,806.68            | 1,872.05   | -1,867.95  | 2,644.32              | 0.17                  | -0.15                | 0.08                |
| 7,670.00            | 89.60           | 316.53      | 4,806.83            | 1,941.44   | -1,932.83  | 2,739.31              | 1.05                  | -0.64                | -0.83               |
| 7,765.00            | 90.65           | 315.57      | 4,806.63            | 2,009.84   | -1,998.76  | 2,834.30              | 1.50                  | 1.11                 | -1.01               |
| 7,859.00            | 90.61           | 315.65      | 4,805.59            | 2,077.00   | -2,064.51  | 2,928.30              | 0.10                  | -0.04                | 0.09                |
| 7,953.00            | 90.43           | 314.95      | 4,804.74            | 2,143.82   | -2,130.63  | 3,022.29              | 0.77                  | -0.19                | -0.74               |
| 8,048.00            | 89.42           | 313.98      | 4,804.86            | 2,210.36   | -2,198.42  | 3,117.26              | 1.47                  | -1.06                | -1.02               |
| 8,142.00            | 88.81           | 313.90      | 4,806.32            | 2,275.58   | -2,266.10  | 3,211.19              | 0.65                  | -0.65                | -0.09               |
| 8,237.00            | 89.69           | 313.63      | 4,807.56            | 2,341.28   | -2,334.70  | 3,306.12              | 0.97                  | 0.93                 | -0.28               |
| 8,332.00            | 90.30           | 315.39      | 4,807.57            | 2,407.88   | -2,402.45  | 3,401.09              | 1.96                  | 0.64                 | 1.85                |
| 8,426.00            | 90.74           | 318.99      | 4,806.71            | 2,476.82   | -2,466.31  | 3,495.04              | 3.86                  | 0.47                 | 3.83                |
| 8,520.00            | 91.80           | 319.43      | 4,804.63            | 2,547.97   | -2,527.71  | 3,588.86              | 1.22                  | 1.13                 | 0.47                |
| 8,615.00            | 89.03           | 318.12      | 4,803.94            | 2,619.41   | -2,590.30  | 3,683.72              | 3.23                  | -2.92                | -1.38               |
| 8,710.00            | 89.34           | 317.76      | 4,805.29            | 2,689.94   | -2,653.94  | 3,778.65              | 0.50                  | 0.33                 | -0.38               |
| 8,804.00            | 90.08           | 317.32      | 4,805.77            | 2,759.29   | -2,717.39  | 3,872.61              | 0.92                  | 0.79                 | -0.47               |
| 8,899.00            | 90.79           | 317.32      | 4,805.05            | 2,829.12   | -2,781.79  | 3,967.57              | 0.75                  | 0.75                 | 0.00                |
| 8,993.00            | 88.24           | 315.92      | 4,805.84            | 2,897.43   | -2,846.34  | 4,061.55              | 3.09                  | -2.71                | -1.49               |
| 9,087.00            | 88.85           | 314.95      | 4,808.23            | 2,964.38   | -2,912.28  | 4,155.52              | 1.22                  | 0.65                 | -1.03               |
| 9,182.00            | 90.48           | 315.74      | 4,808.79            | 3,031.96   | -2,979.05  | 4,250.51              | 1.91                  | 1.72                 | 0.83                |
| 9,276.00            | 89.56           | 316.62      | 4,808.75            | 3,099.78   | -3,044.13  | 4,344.50              | 1.35                  | -0.98                | 0.94                |
| 9,371.00            | 90.30           | 316.80      | 4,808.87            | 3,168.93   | -3,109.27  | 4,439.49              | 0.80                  | 0.78                 | 0.19                |
| 9,465.00            | 91.14           | 316.97      | 4,807.69            | 3,237.54   | -3,173.51  | 4,533.47              | 0.91                  | 0.89                 | 0.18                |
| 9,560.00            | 88.94           | 315.83      | 4,807.62            | 3,306.33   | -3,239.02  | 4,628.46              | 2.61                  | -2.32                | -1.20               |
| 9,654.00            | 88.06           | 315.48      | 4,810.08            | 3,373.53   | -3,304.70  | 4,722.42              | 1.01                  | -0.94                | -0.37               |
| 9,748.00            | 88.68           | 316.62      | 4,812.76            | 3,441.18   | -3,369.91  | 4,816.38              | 1.38                  | 0.66                 | 1.21                |
| 9,843.00            | 89.82           | 316.01      | 4,814.00            | 3,509.87   | -3,435.52  | 4,911.37              | 1.36                  | 1.20                 | -0.64               |
| 9,937.00            | 90.70           | 315.83      | 4,813.57            | 3,577.39   | -3,500.91  | 5,005.37              | 0.96                  | 0.94                 | -0.19               |
| 10,031.00           | 87.84           | 315.83      | 4,814.77            | 3,644.80   | -3,566.40  | 5,099.35              | 3.04                  | -3.04                | 0.00                |
| 10,126.00           | 87.80           | 315.83      | 4,818.38            | 3,712.90   | -3,632.55  | 5,194.28              | 0.04                  | -0.04                | 0.00                |
| 10,220.00           | 88.37           | 315.13      | 4,821.53            | 3,779.88   | -3,698.42  | 5,288.23              | 0.96                  | 0.61                 | -0.74               |
| 10,315.00           | 88.46           | 313.81      | 4,824.15            | 3,846.40   | -3,766.18  | 5,383.16              | 1.39                  | 0.09                 | -1.39               |
| 10,409.00           | 89.51           | 316.01      | 4,825.82            | 3,912.75   | -3,832.74  | 5,477.12              | 2.59                  | 1.12                 | 2.34                |



## Survey Report

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 10,504.00           | 90.26           | 315.48      | 4,826.01            | 3,980.80   | -3,899.04  | 5,572.12              | 0.97                  | 0.79                 | -0.56               |
| 10,599.00           | 90.96           | 315.48      | 4,825.00            | 4,048.53   | -3,965.64  | 5,667.12              | 0.74                  | 0.74                 | 0.00                |
| 10,693.00           | 91.62           | 315.04      | 4,822.88            | 4,115.28   | -4,031.79  | 5,761.09              | 0.84                  | 0.70                 | -0.47               |
| 10,788.00           | 90.61           | 313.46      | 4,821.03            | 4,181.55   | -4,099.82  | 5,856.03              | 1.97                  | -1.06                | -1.66               |
| 10,882.00           | 90.52           | 316.80      | 4,820.11            | 4,248.16   | -4,166.13  | 5,950.00              | 3.55                  | -0.10                | 3.55                |
| 10,976.00           | 90.96           | 315.74      | 4,818.89            | 4,316.08   | -4,231.10  | 6,043.99              | 1.22                  | 0.47                 | -1.13               |
| 11,071.00           | 91.27           | 315.65      | 4,817.04            | 4,384.05   | -4,297.44  | 6,138.97              | 0.34                  | 0.33                 | -0.09               |
| 11,165.00           | 88.90           | 316.89      | 4,816.90            | 4,451.97   | -4,362.42  | 6,232.96              | 2.85                  | -2.52                | 1.32                |
| 11,260.00           | 89.03           | 315.74      | 4,818.62            | 4,520.65   | -4,428.02  | 6,327.94              | 1.22                  | 0.14                 | -1.21               |
| 11,354.00           | 90.30           | 316.53      | 4,819.17            | 4,588.42   | -4,493.15  | 6,421.93              | 1.59                  | 1.35                 | 0.84                |
| 11,449.00           | 90.96           | 315.48      | 4,818.13            | 4,656.76   | -4,559.14  | 6,516.93              | 1.31                  | 0.69                 | -1.11               |
| 11,543.00           | 91.58           | 315.39      | 4,816.04            | 4,723.71   | -4,625.08  | 6,610.90              | 0.67                  | 0.66                 | -0.10               |
| 11,638.00           | 89.69           | 316.89      | 4,814.99            | 4,792.20   | -4,690.90  | 6,705.89              | 2.54                  | -1.99                | 1.58                |
| 11,732.00           | 90.79           | 317.94      | 4,814.60            | 4,861.41   | -4,754.50  | 6,799.85              | 1.62                  | 1.17                 | 1.12                |
| 11,827.00           | 88.85           | 317.76      | 4,814.89            | 4,931.84   | -4,818.25  | 6,894.78              | 2.05                  | -2.04                | -0.19               |
| 11,921.00           | 89.34           | 317.94      | 4,816.38            | 5,001.52   | -4,881.32  | 6,988.72              | 0.56                  | 0.52                 | 0.19                |
| 12,016.00           | 90.17           | 318.12      | 4,816.78            | 5,072.15   | -4,944.85  | 7,083.65              | 0.89                  | 0.87                 | 0.19                |
| 12,111.00           | 90.48           | 317.76      | 4,816.25            | 5,142.68   | -5,008.49  | 7,178.58              | 0.50                  | 0.33                 | -0.38               |
| 12,205.00           | 90.48           | 317.24      | 4,815.46            | 5,211.98   | -5,072.00  | 7,272.54              | 0.55                  | 0.00                 | -0.55               |
| 12,300.00           | 90.70           | 317.06      | 4,814.48            | 5,281.63   | -5,136.60  | 7,367.51              | 0.30                  | 0.23                 | -0.19               |
| 12,395.00           | 91.40           | 316.53      | 4,812.74            | 5,350.86   | -5,201.63  | 7,462.48              | 0.92                  | 0.74                 | -0.56               |
| 12,490.00           | 88.46           | 316.18      | 4,812.85            | 5,419.60   | -5,267.19  | 7,557.47              | 3.12                  | -3.09                | -0.37               |
| 12,585.00           | 89.20           | 315.98      | 4,814.79            | 5,488.01   | -5,333.07  | 7,652.44              | 0.81                  | 0.78                 | -0.21               |
| 12,679.00           | 89.38           | 315.13      | 4,815.96            | 5,555.12   | -5,398.89  | 7,746.44              | 0.92                  | 0.19                 | -0.90               |
| 12,774.00           | 90.00           | 315.39      | 4,816.47            | 5,622.59   | -5,465.75  | 7,841.43              | 0.71                  | 0.65                 | 0.27                |
| 12,868.00           | 90.39           | 316.18      | 4,816.15            | 5,689.97   | -5,531.30  | 7,935.43              | 0.94                  | 0.41                 | 0.84                |
| 12,963.00           | 91.01           | 316.45      | 4,814.99            | 5,758.66   | -5,596.92  | 8,030.42              | 0.71                  | 0.65                 | 0.28                |
| 13,058.00           | 91.84           | 316.71      | 4,812.63            | 5,827.64   | -5,662.19  | 8,125.38              | 0.92                  | 0.87                 | 0.27                |
| 13,153.00           | 88.63           | 316.45      | 4,812.24            | 5,896.63   | -5,727.48  | 8,220.36              | 3.39                  | -3.38                | -0.27               |
| 13,247.00           | 88.37           | 316.01      | 4,814.70            | 5,964.49   | -5,792.48  | 8,314.32              | 0.54                  | -0.28                | -0.47               |
| 13,341.00           | 89.73           | 316.80      | 4,816.26            | 6,032.55   | -5,857.29  | 8,408.30              | 1.67                  | 1.45                 | 0.84                |
| 13,435.00           | 87.27           | 316.45      | 4,818.72            | 6,100.85   | -5,921.82  | 8,502.25              | 2.64                  | -2.62                | -0.37               |
| 13,530.00           | 87.40           | 315.83      | 4,823.14            | 6,169.28   | -5,987.57  | 8,597.15              | 0.67                  | 0.14                 | -0.65               |
| 13,624.00           | 87.71           | 316.18      | 4,827.15            | 6,236.84   | -6,052.81  | 8,691.06              | 0.50                  | 0.33                 | 0.37                |
| 13,719.00           | 88.15           | 316.18      | 4,830.58            | 6,305.34   | -6,118.54  | 8,786.00              | 0.46                  | 0.46                 | 0.00                |
| 13,814.00           | 88.72           | 315.74      | 4,833.17            | 6,373.60   | -6,184.56  | 8,880.96              | 0.76                  | 0.60                 | -0.46               |
| 13,908.00           | 91.58           | 315.39      | 4,832.93            | 6,440.71   | -6,250.36  | 8,974.95              | 3.07                  | 3.04                 | -0.37               |
| 14,003.00           | 90.70           | 315.39      | 4,831.04            | 6,508.33   | -6,317.06  | 9,069.93              | 0.93                  | -0.93                | 0.00                |
| 14,098.00           | 91.09           | 315.48      | 4,829.55            | 6,576.01   | -6,383.72  | 9,164.92              | 0.42                  | 0.41                 | 0.09                |
| 14,192.00           | 91.18           | 315.04      | 4,827.69            | 6,642.76   | -6,449.87  | 9,258.89              | 0.48                  | 0.10                 | -0.47               |
| 14,287.00           | 91.27           | 315.22      | 4,825.66            | 6,710.07   | -6,516.88  | 9,353.86              | 0.21                  | 0.09                 | 0.19                |
| 14,382.00           | 90.00           | 316.27      | 4,824.61            | 6,778.11   | -6,583.16  | 9,448.85              | 1.73                  | -1.34                | 1.11                |
| 14,476.00           | 90.74           | 316.89      | 4,824.00            | 6,846.38   | -6,647.77  | 9,542.84              | 1.03                  | 0.79                 | 0.66                |
| 14,571.00           | 89.82           | 315.39      | 4,823.54            | 6,914.88   | -6,713.59  | 9,637.84              | 1.85                  | -0.97                | -1.58               |





## Survey Report

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured Depth (ft)                                | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|----------------------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 14,666.00                                          | 90.35           | 314.34      | 4,823.40            | 6,981.89   | -6,780.93  | 9,732.82              | 1.24                  | 0.56                 | -1.11               |
| 14,761.00                                          | 89.86           | 313.72      | 4,823.22            | 7,047.92   | -6,849.23  | 9,827.77              | 0.83                  | -0.52                | -0.65               |
| 14,855.00                                          | 89.51           | 315.65      | 4,823.74            | 7,114.02   | -6,916.06  | 9,921.75              | 2.09                  | -0.37                | 2.05                |
| 14,950.00                                          | 90.43           | 315.30      | 4,823.79            | 7,181.75   | -6,982.67  | 10,016.74             | 1.04                  | 0.97                 | -0.37               |
| 15,045.00                                          | 89.47           | 312.75      | 4,823.87            | 7,247.76   | -7,050.97  | 10,111.68             | 2.87                  | -1.01                | -2.68               |
| 15,139.00                                          | 89.64           | 315.48      | 4,824.60            | 7,313.19   | -7,118.45  | 10,205.63             | 2.91                  | 0.18                 | 2.90                |
| 15,234.00                                          | 90.39           | 316.36      | 4,824.58            | 7,381.43   | -7,184.54  | 10,300.63             | 1.22                  | 0.79                 | 0.93                |
| 15,328.00                                          | 90.08           | 315.65      | 4,824.19            | 7,449.06   | -7,249.83  | 10,394.63             | 0.82                  | -0.33                | -0.76               |
| 15,423.00                                          | 89.56           | 314.07      | 4,824.49            | 7,516.06   | -7,317.17  | 10,489.61             | 1.75                  | -0.55                | -1.66               |
| <b>Survey @ 15423.00 MD 4824.49 TVD</b>            |                 |             |                     |            |            |                       |                       |                      |                     |
| 15,588.00                                          | 89.56           | 314.07      | 4,825.76            | 7,630.82   | -7,435.71  | 10,654.52             | 0.00                  | 0.00                 | 0.00                |
| <b>Survey Projected to 15588.00 MD 4825.76 TVD</b> |                 |             |                     |            |            |                       |                       |                      |                     |

### Design Targets

#### Target Name

| - hit/miss target                                                                                         | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude    | Longitude     |
|-----------------------------------------------------------------------------------------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|-------------|---------------|
| - Shape                                                                                                   |               |              |          |            |            |                 |                |             |               |
| 303H Frac Sleeve @ 15                                                                                     | 0.00          | 360.00       | 0.00     | 7,531.36   | -7,332.97  | 1,877,853.58    | 1,237,380.70   | 36.15317367 | -107.61521484 |
| - actual wellpath misses target center by 4824.54ft at 15423.00ft MD (4824.49 TVD, 7516.06 N, -7317.17 E) |               |              |          |            |            |                 |                |             |               |
| - Point                                                                                                   |               |              |          |            |            |                 |                |             |               |

### Design Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                                     |
|---------------------|---------------------|-------------------|------------|---------------------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                             |
| 3,922.00            | 3,889.81            | -347.95           | 294.76     | Tie into original hole @ 3922 MD            |
| 5,111.00            | 4,760.72            | 100.56            | -159.56    | 330 FSL @ 5111 MD 4761 TVD                  |
| 15,423.00           | 4,824.49            | 7,516.06          | -7,317.17  | Survey @ 15423.00 MD 4824.49 TVD            |
| 15,588.00           | 4,825.76            | 7,630.82          | -7,435.71  | Survey Projected to 15588.00 MD 4825.76 TVD |





## Survey Report - Geographic

|                  |                                        |                                     |                                      |
|------------------|----------------------------------------|-------------------------------------|--------------------------------------|
| <b>Company:</b>  | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well W Escavada Unit Well No. 303H   |
| <b>Project:</b>  | Sandoval County, New Mexico NAD83 NM C | <b>TVD Reference:</b>               | RKB=6878+25 @ 6903.00ft (Aztec 1000) |
| <b>Site:</b>     | W Escavada Unit                        | <b>MD Reference:</b>                | RKB=6878+25 @ 6903.00ft (Aztec 1000) |
| <b>Well:</b>     | W Escavada Unit Well No. 303H          | <b>North Reference:</b>             | Grid                                 |
| <b>Wellbore:</b> | Sidetrack 01                           | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Design:</b>   | Surveys Sidetrack 01                   | <b>Database:</b>                    | DB_Jul2216dt_v14                     |

|                    |                                        |                      |                |
|--------------------|----------------------------------------|----------------------|----------------|
| <b>Project</b>     | Sandoval County, New Mexico NAD83 NM C |                      |                |
| <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 Central Zone                |                      |                |

|                              |                 |                          |                   |
|------------------------------|-----------------|--------------------------|-------------------|
| <b>Site</b>                  | W Escavada Unit |                          |                   |
| <b>Site Position:</b>        |                 | <b>Northing:</b>         | 1,870,321.60 usft |
| <b>From:</b>                 | Lat/Long        | <b>Easting:</b>          | 1,244,733.73 usft |
| <b>Position Uncertainty:</b> | 0.00 ft         | <b>Slot Radius:</b>      | 13-3/16 "         |
|                              |                 | <b>Latitude:</b>         | 36.13276900       |
|                              |                 | <b>Longitude:</b>        | -107.58996200     |
|                              |                 | <b>Grid Convergence:</b> | -0.79 °           |

|                             |                               |                            |                                    |
|-----------------------------|-------------------------------|----------------------------|------------------------------------|
| <b>Well</b>                 | W Escavada Unit Well No. 303H |                            |                                    |
| <b>Well Position</b>        | <b>+N/-S</b>                  | 0.00 ft                    | <b>Northing:</b> 1,870,322.24 usft |
|                             | <b>+E/-W</b>                  | 0.00 ft                    | <b>Easting:</b> 1,244,713.66 usft  |
| <b>Position Uncertainty</b> | 0.00 ft                       | <b>Wellhead Elevation:</b> | ft                                 |
|                             |                               | <b>Latitude:</b>           | 36.13277000                        |
|                             |                               | <b>Longitude:</b>          | -107.59003000                      |
|                             |                               | <b>Ground Level:</b>       | 6,878.00 ft                        |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | Sidetrack 01      |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | IGRF2015          | 7/6/2018           | 9.01                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 62.84                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 49,597.37050669            |

|                          |                         |                      |                      |
|--------------------------|-------------------------|----------------------|----------------------|
| <b>Design</b>            | Surveys Sidetrack 01    |                      |                      |
| <b>Audit Notes:</b>      |                         |                      |                      |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b>        | ACTUAL               |
|                          |                         | <b>Tie On Depth:</b> | 3,922.00             |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S (ft)</b>    | <b>+E/-W (ft)</b>    |
|                          | (ft)                    | (ft)                 | (ft)                 |
|                          | 0.00                    | 0.00                 | 0.00                 |
|                          |                         |                      | <b>Direction (°)</b> |
|                          |                         |                      | 315.86               |

|                       |                       |                           |                     |
|-----------------------|-----------------------|---------------------------|---------------------|
| <b>Survey Program</b> | <b>Date</b> 8/29/2018 |                           |                     |
| <b>From (ft)</b>      | <b>To (ft)</b>        | <b>Survey (Wellbore)</b>  | <b>Tool Name</b>    |
| 328.00                | 2,901.00              | MWD surf (Original Hole)  | MWD                 |
| 3,071.00              | 3,922.00              | MWD (Original Hole)       | MWD                 |
| 3,981.00              | 15,423.00             | MWD ST1 (Sidetrack 01)    | MWD                 |
| 15,588.00             | 15,588.00             | Projection (Sidetrack 01) | MWD                 |
|                       |                       |                           | <b>Description</b>  |
|                       |                       |                           | OWSG MWD - Standard |
|                       |                       |                           | OWSG MWD - Standard |
|                       |                       |                           | OWSG MWD - Standard |
|                       |                       |                           | OWSG MWD - Standard |

|                            |                        |                    |                            |                   |                   |                            |                           |                 |                  |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|----------------------------|---------------------------|-----------------|------------------|
| <b>Survey</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>Map Northing (usft)</b> | <b>Map Easting (usft)</b> | <b>Latitude</b> | <b>Longitude</b> |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 1,870,322.24               | 1,244,713.66              | 36.13277000     | -107.59003000    |
| 328.00                     | 0.87                   | 175.94             | 327.99                     | -2.48             | 0.18              | 1,870,319.76               | 1,244,713.83              | 36.13276318     | -107.59002929    |
| 419.00                     | 1.00                   | 179.11             | 418.98                     | -3.97             | 0.24              | 1,870,318.27               | 1,244,713.90              | 36.13275911     | -107.59002901    |
| 510.00                     | 1.02                   | 178.41             | 509.96                     | -5.57             | 0.27              | 1,870,316.67               | 1,244,713.93              | 36.13275471     | -107.59002882    |
| 601.00                     | 2.48                   | 157.08             | 600.92                     | -8.19             | 1.06              | 1,870,314.05               | 1,244,714.72              | 36.13274754     | -107.59002603    |
| 692.00                     | 4.15                   | 161.58             | 691.76                     | -13.13            | 2.87              | 1,870,309.11               | 1,244,716.53              | 36.13273404     | -107.59001968    |
| 782.00                     | 6.57                   | 158.49             | 781.36                     | -21.01            | 5.79              | 1,870,301.23               | 1,244,719.44              | 36.13271251     | -107.59000943    |
| 874.00                     | 7.20                   | 158.55             | 872.70                     | -31.28            | 9.82              | 1,870,290.96               | 1,244,723.48              | 36.13268448     | -107.58999528    |
| 965.00                     | 6.72                   | 158.03             | 963.03                     | -41.52            | 13.90             | 1,870,280.72               | 1,244,727.56              | 36.13265649     | -107.58998100    |



## Survey Report - Geographic

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured<br>Depth<br>(ft)               | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude    | Longitude     |
|-----------------------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|---------------|
| 1,060.00                                | 7.62               | 148.82         | 1,057.29                  | -52.06        | 19.24         | 1,870,270.18              | 1,244,732.90             | 36.13262774 | -107.58996242 |
| 1,155.00                                | 9.15               | 139.25         | 1,151.27                  | -63.18        | 27.43         | 1,870,259.06              | 1,244,741.09             | 36.13259753 | -107.58993417 |
| 1,249.00                                | 9.47               | 136.78         | 1,244.03                  | -74.47        | 37.61         | 1,870,247.77              | 1,244,751.27             | 36.13256689 | -107.58989920 |
| 1,344.00                                | 9.39               | 137.67         | 1,337.75                  | -85.90        | 48.18         | 1,870,236.34              | 1,244,761.84             | 36.13253591 | -107.58986287 |
| 1,439.00                                | 8.13               | 138.21         | 1,431.64                  | -96.64        | 57.88         | 1,870,225.60              | 1,244,771.53             | 36.13250679 | -107.58982955 |
| 1,534.00                                | 6.80               | 135.01         | 1,525.83                  | -105.62       | 66.33         | 1,870,216.62              | 1,244,779.99             | 36.13248243 | -107.58980051 |
| 1,628.00                                | 6.46               | 132.64         | 1,619.21                  | -113.14       | 74.15         | 1,870,209.10              | 1,244,787.81             | 36.13246208 | -107.58977367 |
| 1,723.00                                | 8.37               | 129.16         | 1,713.41                  | -121.13       | 83.45         | 1,870,201.11              | 1,244,797.10             | 36.13244049 | -107.58974183 |
| 1,818.00                                | 7.98               | 129.30         | 1,807.44                  | -129.67       | 93.91         | 1,870,192.57              | 1,244,807.57             | 36.13241742 | -107.58970600 |
| 1,912.00                                | 8.10               | 132.42         | 1,900.52                  | -138.27       | 103.85        | 1,870,183.97              | 1,244,817.51             | 36.13239418 | -107.58967196 |
| 2,007.00                                | 9.49               | 134.12         | 1,994.40                  | -148.24       | 114.41        | 1,870,174.00              | 1,244,828.07             | 36.13236721 | -107.58963573 |
| 2,102.00                                | 9.85               | 133.80         | 2,088.05                  | -159.32       | 125.90        | 1,870,162.93              | 1,244,839.56             | 36.13233722 | -107.58959632 |
| 2,196.00                                | 9.86               | 133.00         | 2,180.66                  | -170.37       | 137.59        | 1,870,151.87              | 1,244,851.25             | 36.13230731 | -107.58955623 |
| 2,291.00                                | 9.36               | 133.80         | 2,274.33                  | -181.26       | 149.11        | 1,870,140.98              | 1,244,862.77             | 36.13227782 | -107.58951670 |
| 2,386.00                                | 9.42               | 132.63         | 2,368.06                  | -191.88       | 160.41        | 1,870,130.36              | 1,244,874.07             | 36.13224910 | -107.58947796 |
| 2,480.00                                | 9.51               | 132.91         | 2,460.78                  | -202.37       | 171.76        | 1,870,119.87              | 1,244,885.41             | 36.13222070 | -107.58943906 |
| 2,574.00                                | 9.07               | 132.81         | 2,553.54                  | -212.69       | 182.88        | 1,870,109.55              | 1,244,896.54             | 36.13219278 | -107.58940092 |
| 2,669.00                                | 8.05               | 132.85         | 2,647.48                  | -222.31       | 193.25        | 1,870,099.93              | 1,244,906.91             | 36.13216677 | -107.58936536 |
| 2,763.00                                | 6.51               | 134.12         | 2,740.72                  | -230.49       | 201.90        | 1,870,091.75              | 1,244,915.56             | 36.13214461 | -107.58933569 |
| 2,858.00                                | 5.76               | 134.08         | 2,835.18                  | -237.56       | 209.19        | 1,870,084.68              | 1,244,922.85             | 36.13212548 | -107.58931067 |
| 2,901.00                                | 5.73               | 134.35         | 2,877.96                  | -240.56       | 212.28        | 1,870,081.68              | 1,244,925.93             | 36.13211736 | -107.58930009 |
| 3,071.00                                | 6.25               | 142.08         | 3,047.04                  | -253.79       | 224.03        | 1,870,068.45              | 1,244,937.69             | 36.13208146 | -107.58925967 |
| 3,165.00                                | 7.89               | 145.11         | 3,140.32                  | -263.12       | 230.87        | 1,870,059.12              | 1,244,944.53             | 36.13205610 | -107.58923609 |
| 3,259.00                                | 8.01               | 145.29         | 3,233.42                  | -273.80       | 238.29        | 1,870,048.44              | 1,244,951.95             | 36.13202706 | -107.58921048 |
| 3,354.00                                | 7.60               | 142.44         | 3,327.54                  | -284.22       | 245.89        | 1,870,038.02              | 1,244,959.54             | 36.13199873 | -107.58918426 |
| 3,448.00                                | 7.77               | 142.76         | 3,420.69                  | -294.21       | 253.52        | 1,870,028.03              | 1,244,967.18             | 36.13197159 | -107.58915795 |
| 3,543.00                                | 7.84               | 143.49         | 3,514.81                  | -304.53       | 261.26        | 1,870,017.71              | 1,244,974.92             | 36.13194354 | -107.58913126 |
| 3,637.00                                | 8.28               | 141.37         | 3,607.88                  | -314.97       | 269.30        | 1,870,007.27              | 1,244,982.96             | 36.13191517 | -107.58910355 |
| 3,732.00                                | 9.18               | 142.67         | 3,701.78                  | -326.34       | 278.17        | 1,869,995.90              | 1,244,991.83             | 36.13188428 | -107.58907301 |
| 3,827.00                                | 8.36               | 142.41         | 3,795.67                  | -337.83       | 286.98        | 1,869,984.41              | 1,245,000.63             | 36.13185303 | -107.58904265 |
| 3,922.00                                | 7.08               | 142.47         | 3,889.81                  | -347.95       | 294.76        | 1,869,974.29              | 1,245,008.41             | 36.13182554 | -107.58901584 |
| <b>Tie into original hole @ 3922 MD</b> |                    |                |                           |               |               |                           |                          |             |               |
| 3,981.00                                | 1.84               | 222.05         | 3,948.64                  | -351.54       | 296.34        | 1,869,970.70              | 1,245,010.00             | 36.13181574 | -107.58901031 |
| 4,076.00                                | 3.82               | 284.72         | 4,043.54                  | -351.87       | 292.25        | 1,869,970.37              | 1,245,005.91             | 36.13181468 | -107.58902412 |
| 4,108.00                                | 3.60               | 286.39         | 4,075.47                  | -351.32       | 290.26        | 1,869,970.92              | 1,245,003.92             | 36.13181613 | -107.58903090 |
| 4,171.00                                | 5.14               | 303.97         | 4,138.29                  | -349.18       | 286.02        | 1,869,973.06              | 1,244,999.68             | 36.13182183 | -107.58904535 |
| 4,202.00                                | 10.45              | 317.85         | 4,168.99                  | -346.32       | 282.98        | 1,869,975.92              | 1,244,996.64             | 36.13182958 | -107.58905578 |
| 4,233.00                                | 15.33              | 323.13         | 4,199.20                  | -340.95       | 278.63        | 1,869,981.29              | 1,244,992.29             | 36.13184415 | -107.58907075 |
| 4,265.00                                | 18.80              | 323.83         | 4,229.79                  | -333.40       | 273.05        | 1,869,988.84              | 1,244,986.71             | 36.13186467 | -107.58909000 |
| 4,296.00                                | 21.70              | 322.51         | 4,258.87                  | -324.82       | 266.61        | 1,869,997.42              | 1,244,980.27             | 36.13188800 | -107.58911220 |
| 4,328.00                                | 24.03              | 318.47         | 4,288.36                  | -315.25       | 258.69        | 1,870,006.99              | 1,244,972.35             | 36.13191399 | -107.58913947 |
| 4,359.00                                | 26.76              | 316.09         | 4,316.36                  | -305.49       | 249.66        | 1,870,016.75              | 1,244,963.32             | 36.13194044 | -107.58917048 |
| 4,391.00                                | 29.35              | 314.07         | 4,344.60                  | -294.85       | 239.03        | 1,870,027.39              | 1,244,952.69             | 36.13196928 | -107.58920698 |
| 4,422.00                                | 29.75              | 312.93         | 4,371.56                  | -284.32       | 227.94        | 1,870,037.92              | 1,244,941.60             | 36.13199776 | -107.58924502 |
| 4,454.00                                | 31.77              | 312.40         | 4,399.06                  | -273.23       | 215.91        | 1,870,049.01              | 1,244,929.56             | 36.13202776 | -107.58928628 |
| 4,486.00                                | 35.24              | 312.05         | 4,425.74                  | -261.37       | 202.82        | 1,870,060.87              | 1,244,916.48             | 36.13205986 | -107.58933112 |
| 4,517.00                                | 37.74              | 312.49         | 4,450.66                  | -248.97       | 189.19        | 1,870,073.27              | 1,244,902.84             | 36.13209340 | -107.58937787 |
| 4,549.00                                | 40.03              | 312.67         | 4,475.57                  | -235.37       | 174.40        | 1,870,086.87              | 1,244,888.05             | 36.13213017 | -107.58942858 |
| 4,580.00                                | 42.18              | 313.37         | 4,498.93                  | -221.47       | 159.50        | 1,870,100.77              | 1,244,873.16             | 36.13216779 | -107.58947967 |
| 4,612.00                                | 44.51              | 314.42         | 4,522.20                  | -206.24       | 143.67        | 1,870,116.00              | 1,244,857.33             | 36.13220902 | -107.58953395 |
| 4,644.00                                | 47.02              | 315.13         | 4,544.52                  | -190.09       | 127.40        | 1,870,132.15              | 1,244,841.06             | 36.13225276 | -107.58958979 |
| 4,675.00                                | 49.92              | 314.78         | 4,565.07                  | -173.70       | 110.98        | 1,870,148.54              | 1,244,824.64             | 36.13229716 | -107.58964616 |
| 4,707.00                                | 52.38              | 314.78         | 4,585.14                  | -156.14       | 93.29         | 1,870,166.10              | 1,244,806.95             | 36.13234470 | -107.58970686 |
| 4,738.00                                | 54.66              | 315.04         | 4,603.57                  | -138.55       | 75.64         | 1,870,183.69              | 1,244,789.30             | 36.13239236 | -107.58976744 |
| 4,770.00                                | 56.86              | 315.13         | 4,621.57                  | -119.81       | 56.96         | 1,870,202.43              | 1,244,770.62             | 36.13244310 | -107.58983155 |





## Survey Report - Geographic

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured<br>Depth<br>(ft)         | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude    | Longitude     |
|-----------------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|---------------|
| 4,801.00                          | 58.66              | 315.04         | 4,638.11                  | -101.25       | 38.45         | 1,870,220.99              | 1,244,752.11             | 36.13249339 | -107.58989509 |
| 4,833.00                          | 60.51              | 315.22         | 4,654.31                  | -81.69        | 18.98         | 1,870,240.55              | 1,244,732.64             | 36.13254637 | -107.58996192 |
| 4,864.00                          | 60.24              | 315.22         | 4,669.63                  | -62.56        | 0.00          | 1,870,259.68              | 1,244,713.66             | 36.13259818 | -107.59002707 |
| 4,896.00                          | 60.29              | 314.51         | 4,685.51                  | -42.96        | -19.69        | 1,870,279.28              | 1,244,693.97             | 36.13265127 | -107.59009467 |
| 4,927.00                          | 62.31              | 314.86         | 4,700.39                  | -23.84        | -39.02        | 1,870,298.40              | 1,244,674.64             | 36.13270305 | -107.59016101 |
| 4,959.00                          | 65.08              | 315.30         | 4,714.57                  | -3.53         | -59.28        | 1,870,318.71              | 1,244,654.38             | 36.13275807 | -107.59023052 |
| 4,990.00                          | 68.64              | 315.65         | 4,726.75                  | 16.79         | -79.26        | 1,870,339.03              | 1,244,634.40             | 36.13281312 | -107.59029913 |
| 5,022.00                          | 72.37              | 315.57         | 4,737.43                  | 38.35         | -100.36       | 1,870,360.59              | 1,244,613.30             | 36.13287151 | -107.59037157 |
| 5,053.00                          | 74.51              | 316.45         | 4,746.26                  | 59.72         | -120.99       | 1,870,381.96              | 1,244,592.66             | 36.13292944 | -107.59044243 |
| 5,085.00                          | 75.49              | 316.71         | 4,754.55                  | 82.17         | -142.24       | 1,870,404.41              | 1,244,571.42             | 36.13299030 | -107.59051541 |
| 5,111.00                          | 77.04              | 316.71         | 4,760.72                  | 100.56        | -159.56       | 1,870,422.80              | 1,244,554.10             | 36.13304013 | -107.59057490 |
| <b>330 FSL @ 5111 MD 4761 TVD</b> |                    |                |                           |               |               |                           |                          |             |               |
| 5,116.00                          | 77.34              | 316.71         | 4,761.83                  | 104.11        | -162.90       | 1,870,426.35              | 1,244,550.76             | 36.13304975 | -107.59058638 |
| 5,148.00                          | 77.87              | 316.62         | 4,768.70                  | 126.84        | -184.35       | 1,870,449.08              | 1,244,529.31             | 36.13311137 | -107.59066006 |
| 5,179.00                          | 80.41              | 316.89         | 4,774.54                  | 149.01        | -205.20       | 1,870,471.25              | 1,244,508.45             | 36.13317148 | -107.59073171 |
| 5,211.00                          | 83.54              | 317.32         | 4,779.00                  | 172.23        | -226.77       | 1,870,494.47              | 1,244,486.89             | 36.13323441 | -107.59080581 |
| 5,242.00                          | 85.82              | 317.68         | 4,781.88                  | 194.98        | -247.62       | 1,870,517.22              | 1,244,466.04             | 36.13329612 | -107.59087746 |
| 5,273.00                          | 86.18              | 317.94         | 4,784.04                  | 217.89        | -268.39       | 1,870,540.13              | 1,244,445.27             | 36.13335826 | -107.59094885 |
| 5,305.00                          | 86.22              | 317.68         | 4,786.16                  | 241.55        | -289.83       | 1,870,563.79              | 1,244,423.83             | 36.13342242 | -107.59102256 |
| 5,336.00                          | 86.48              | 317.76         | 4,788.13                  | 264.44        | -310.65       | 1,870,586.68              | 1,244,403.01             | 36.13348449 | -107.59109409 |
| 5,399.00                          | 86.48              | 317.24         | 4,792.00                  | 310.80        | -353.13       | 1,870,633.04              | 1,244,360.53             | 36.13361021 | -107.59124009 |
| 5,494.00                          | 87.80              | 317.41         | 4,796.74                  | 380.56        | -417.44       | 1,870,702.80              | 1,244,296.22             | 36.13379935 | -107.59146109 |
| 5,589.00                          | 89.47              | 316.80         | 4,799.01                  | 450.13        | -482.08       | 1,870,772.37              | 1,244,231.58             | 36.13398798 | -107.59168320 |
| 5,684.00                          | 89.47              | 316.89         | 4,799.88                  | 519.43        | -547.06       | 1,870,841.67              | 1,244,166.60             | 36.13417584 | -107.59190642 |
| 5,778.00                          | 89.47              | 315.65         | 4,800.75                  | 587.35        | -612.03       | 1,870,909.59              | 1,244,101.63             | 36.13435991 | -107.59212958 |
| 5,872.00                          | 89.86              | 314.95         | 4,801.30                  | 654.17        | -678.15       | 1,870,976.41              | 1,244,035.51             | 36.13454090 | -107.59235656 |
| 5,966.00                          | 89.82              | 314.42         | 4,801.57                  | 720.27        | -744.98       | 1,871,042.51              | 1,243,968.68             | 36.13471991 | -107.59258592 |
| 6,061.00                          | 90.48              | 315.30         | 4,801.32                  | 787.28        | -812.32       | 1,871,109.52              | 1,243,901.34             | 36.13490139 | -107.59281704 |
| 6,156.00                          | 90.48              | 314.60         | 4,800.52                  | 854.39        | -879.55       | 1,871,176.63              | 1,243,834.11             | 36.13508316 | -107.59304781 |
| 6,250.00                          | 90.52              | 313.63         | 4,799.70                  | 919.82        | -947.03       | 1,871,242.06              | 1,243,766.63             | 36.13526029 | -107.59327935 |
| 6,345.00                          | 90.30              | 315.30         | 4,799.02                  | 986.36        | -1,014.83     | 1,871,308.60              | 1,243,698.83             | 36.13544047 | -107.59351200 |
| 6,439.00                          | 89.86              | 314.78         | 4,798.89                  | 1,052.88      | -1,081.25     | 1,871,375.11              | 1,243,632.41             | 36.13562062 | -107.59374000 |
| 6,533.00                          | 89.64              | 314.25         | 4,799.30                  | 1,118.78      | -1,148.28     | 1,871,441.02              | 1,243,565.38             | 36.13579907 | -107.59397002 |
| 6,628.00                          | 89.51              | 315.39         | 4,800.00                  | 1,185.74      | -1,215.66     | 1,871,507.98              | 1,243,498.00             | 36.13598041 | -107.59420130 |
| 6,722.00                          | 89.69              | 314.95         | 4,800.66                  | 1,252.40      | -1,281.93     | 1,871,574.64              | 1,243,431.73             | 36.13616097 | -107.59442879 |
| 6,817.00                          | 89.56              | 315.57         | 4,801.28                  | 1,319.88      | -1,348.80     | 1,871,642.12              | 1,243,364.86             | 36.13634375 | -107.59465836 |
| 6,912.00                          | 88.85              | 315.39         | 4,802.60                  | 1,387.61      | -1,415.40     | 1,871,709.85              | 1,243,298.26             | 36.13652723 | -107.59488703 |
| 7,007.00                          | 89.34              | 316.71         | 4,804.10                  | 1,455.99      | -1,481.32     | 1,871,778.23              | 1,243,232.34             | 36.13671254 | -107.59511344 |
| 7,101.00                          | 89.20              | 315.92         | 4,805.30                  | 1,523.96      | -1,546.24     | 1,871,846.20              | 1,243,167.42             | 36.13689674 | -107.59533643 |
| 7,196.00                          | 90.04              | 317.68         | 4,805.93                  | 1,593.21      | -1,611.27     | 1,871,915.45              | 1,243,102.39             | 36.13708445 | -107.59555984 |
| 7,291.00                          | 89.82              | 317.59         | 4,806.05                  | 1,663.40      | -1,675.29     | 1,871,985.64              | 1,243,038.38             | 36.13727479 | -107.59577988 |
| 7,385.00                          | 89.25              | 317.15         | 4,806.81                  | 1,732.56      | -1,738.95     | 1,872,054.80              | 1,242,974.72             | 36.13746230 | -107.59599866 |
| 7,480.00                          | 90.35              | 317.24         | 4,807.14                  | 1,802.26      | -1,803.50     | 1,872,124.49              | 1,242,910.17             | 36.13765126 | -107.59622049 |
| 7,575.00                          | 90.21              | 317.32         | 4,806.68                  | 1,872.05      | -1,867.95     | 1,872,194.29              | 1,242,845.72             | 36.13784049 | -107.59644198 |
| 7,670.00                          | 89.60              | 316.53         | 4,806.83                  | 1,941.44      | -1,932.83     | 1,872,263.68              | 1,242,780.84             | 36.13802860 | -107.59666491 |
| 7,765.00                          | 90.65              | 315.57         | 4,806.63                  | 2,009.84      | -1,998.76     | 1,872,332.07              | 1,242,714.91             | 36.13821393 | -107.59689135 |
| 7,859.00                          | 90.61              | 315.65         | 4,805.59                  | 2,077.00      | -2,064.51     | 1,872,399.24              | 1,242,649.15             | 36.13839589 | -107.59711713 |
| 7,953.00                          | 90.43              | 314.95         | 4,804.74                  | 2,143.82      | -2,130.63     | 1,872,466.05              | 1,242,583.04             | 36.13857687 | -107.59734413 |
| 8,048.00                          | 89.42              | 313.98         | 4,804.86                  | 2,210.36      | -2,198.42     | 1,872,532.59              | 1,242,515.24             | 36.13875704 | -107.59757681 |
| 8,142.00                          | 88.81              | 313.90         | 4,806.32                  | 2,275.58      | -2,266.10     | 1,872,597.81              | 1,242,447.56             | 36.13893358 | -107.59780902 |
| 8,237.00                          | 89.69              | 313.63         | 4,807.56                  | 2,341.28      | -2,334.70     | 1,872,663.52              | 1,242,378.96             | 36.13911142 | -107.59804438 |
| 8,332.00                          | 90.30              | 315.39         | 4,807.57                  | 2,407.88      | -2,402.45     | 1,872,730.11              | 1,242,311.22             | 36.13929173 | -107.59827688 |
| 8,426.00                          | 90.74              | 318.99         | 4,806.71                  | 2,476.82      | -2,466.31     | 1,872,799.06              | 1,242,247.35             | 36.13947865 | -107.59849637 |
| 8,520.00                          | 91.80              | 319.43         | 4,804.63                  | 2,547.97      | -2,527.71     | 1,872,870.21              | 1,242,185.96             | 36.13967172 | -107.59870758 |
| 8,615.00                          | 89.03              | 318.12         | 4,803.94                  | 2,619.41      | -2,590.30     | 1,872,941.65              | 1,242,123.36             | 36.13986554 | -107.59892289 |





## Survey Report - Geographic

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude    | Longitude     |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|---------------|
| 8,710.00                  | 89.34              | 317.76         | 4,805.29                  | 2,689.94      | -2,653.94     | 1,873,012.17              | 1,242,059.73             | 36.14005680 | -107.59914167 |
| 8,804.00                  | 90.08              | 317.32         | 4,805.77                  | 2,759.29      | -2,717.39     | 1,873,081.52              | 1,241,996.27             | 36.14024483 | -107.59935979 |
| 8,899.00                  | 90.79              | 317.32         | 4,805.05                  | 2,829.12      | -2,781.79     | 1,873,151.36              | 1,241,931.87             | 36.14043418 | -107.59958112 |
| 8,993.00                  | 88.24              | 315.92         | 4,805.84                  | 2,897.43      | -2,846.34     | 1,873,219.67              | 1,241,867.32             | 36.14061932 | -107.59980291 |
| 9,087.00                  | 88.85              | 314.95         | 4,808.23                  | 2,964.38      | -2,912.28     | 1,873,286.62              | 1,241,801.38             | 36.14080067 | -107.60002932 |
| 9,182.00                  | 90.48              | 315.74         | 4,808.79                  | 3,031.96      | -2,979.05     | 1,873,354.19              | 1,241,734.62             | 36.14098371 | -107.60025857 |
| 9,276.00                  | 89.56              | 316.62         | 4,808.75                  | 3,099.78      | -3,044.13     | 1,873,422.01              | 1,241,669.53             | 36.14116749 | -107.60048213 |
| 9,371.00                  | 90.30              | 316.80         | 4,808.87                  | 3,168.93      | -3,109.27     | 1,873,491.16              | 1,241,604.39             | 36.14135491 | -107.60070595 |
| 9,465.00                  | 91.14              | 316.97         | 4,807.69                  | 3,237.54      | -3,173.51     | 1,873,559.77              | 1,241,540.15             | 36.14154090 | -107.60092670 |
| 9,560.00                  | 88.94              | 315.83         | 4,807.62                  | 3,306.33      | -3,239.02     | 1,873,628.56              | 1,241,474.64             | 36.14172732 | -107.60115175 |
| 9,654.00                  | 88.06              | 315.48         | 4,810.08                  | 3,373.53      | -3,304.70     | 1,873,695.76              | 1,241,408.96             | 36.14190937 | -107.60137731 |
| 9,748.00                  | 88.68              | 316.62         | 4,812.76                  | 3,441.18      | -3,369.91     | 1,873,763.41              | 1,241,343.75             | 36.14209266 | -107.60160130 |
| 9,843.00                  | 89.82              | 316.01         | 4,814.00                  | 3,509.87      | -3,435.52     | 1,873,832.10              | 1,241,278.14             | 36.14227881 | -107.60182669 |
| 9,937.00                  | 90.70              | 315.83         | 4,813.57                  | 3,577.39      | -3,500.91     | 1,873,899.63              | 1,241,212.75             | 36.14246176 | -107.60205128 |
| 10,031.00                 | 87.84              | 315.83         | 4,814.77                  | 3,644.80      | -3,566.40     | 1,873,967.04              | 1,241,147.27             | 36.14264440 | -107.60227620 |
| 10,126.00                 | 87.80              | 315.83         | 4,818.38                  | 3,712.90      | -3,632.55     | 1,874,035.13              | 1,241,081.12             | 36.14282887 | -107.60250338 |
| 10,220.00                 | 88.37              | 315.13         | 4,821.53                  | 3,779.88      | -3,698.42     | 1,874,102.11              | 1,241,015.25             | 36.14301032 | -107.60272958 |
| 10,315.00                 | 88.46              | 313.81         | 4,824.15                  | 3,846.40      | -3,766.18     | 1,874,168.64              | 1,240,947.48             | 36.14319043 | -107.60296218 |
| 10,409.00                 | 89.51              | 316.01         | 4,825.82                  | 3,912.75      | -3,832.74     | 1,874,234.99              | 1,240,880.93             | 36.14337010 | -107.60319068 |
| 10,504.00                 | 90.26              | 315.48         | 4,826.01                  | 3,980.80      | -3,899.04     | 1,874,303.03              | 1,240,814.63             | 36.14355444 | -107.60341836 |
| 10,599.00                 | 90.96              | 315.48         | 4,825.00                  | 4,048.53      | -3,965.64     | 1,874,370.76              | 1,240,748.02             | 36.14373790 | -107.60364709 |
| 10,693.00                 | 91.62              | 315.04         | 4,822.88                  | 4,115.28      | -4,031.79     | 1,874,437.51              | 1,240,681.88             | 36.14391870 | -107.60387423 |
| 10,788.00                 | 90.61              | 313.46         | 4,821.03                  | 4,181.55      | -4,099.82     | 1,874,503.78              | 1,240,613.84             | 36.14409811 | -107.60410772 |
| 10,882.00                 | 90.52              | 316.80         | 4,820.11                  | 4,248.16      | -4,166.13     | 1,874,570.39              | 1,240,547.54             | 36.14427850 | -107.60433538 |
| 10,976.00                 | 90.96              | 315.74         | 4,818.89                  | 4,316.08      | -4,231.10     | 1,874,638.31              | 1,240,482.57             | 36.14446254 | -107.60455858 |
| 11,071.00                 | 91.27              | 315.65         | 4,817.04                  | 4,384.05      | -4,297.44     | 1,874,706.28              | 1,240,416.22             | 36.14464668 | -107.60478644 |
| 11,165.00                 | 88.90              | 316.89         | 4,816.90                  | 4,451.97      | -4,362.42     | 1,874,774.20              | 1,240,351.25             | 36.14483072 | -107.60500965 |
| 11,260.00                 | 89.03              | 315.74         | 4,818.62                  | 4,520.65      | -4,428.02     | 1,874,842.88              | 1,240,285.65             | 36.14501685 | -107.60523504 |
| 11,354.00                 | 90.30              | 316.53         | 4,819.17                  | 4,588.42      | -4,493.15     | 1,874,910.65              | 1,240,220.51             | 36.14520047 | -107.60545880 |
| 11,449.00                 | 90.96              | 315.48         | 4,818.13                  | 4,656.76      | -4,559.14     | 1,874,978.99              | 1,240,154.53             | 36.14538562 | -107.60568545 |
| 11,543.00                 | 91.58              | 315.39         | 4,816.04                  | 4,723.71      | -4,625.08     | 1,875,045.94              | 1,240,088.59             | 36.14556698 | -107.60591191 |
| 11,638.00                 | 89.69              | 316.89         | 4,814.99                  | 4,792.20      | -4,690.90     | 1,875,114.43              | 1,240,022.77             | 36.14575255 | -107.60613801 |
| 11,732.00                 | 90.79              | 317.94         | 4,814.60                  | 4,861.41      | -4,754.50     | 1,875,183.64              | 1,239,959.17             | 36.14594018 | -107.60635666 |
| 11,827.00                 | 88.85              | 317.76         | 4,814.89                  | 4,931.84      | -4,818.25     | 1,875,254.07              | 1,239,895.42             | 36.14613116 | -107.60657586 |
| 11,921.00                 | 89.34              | 317.94         | 4,816.38                  | 5,001.52      | -4,881.32     | 1,875,323.75              | 1,239,832.34             | 36.14632011 | -107.60679273 |
| 12,016.00                 | 90.17              | 318.12         | 4,816.78                  | 5,072.15      | -4,944.85     | 1,875,394.38              | 1,239,768.81             | 36.14651166 | -107.60701119 |
| 12,111.00                 | 90.48              | 317.76         | 4,816.25                  | 5,142.68      | -5,008.49     | 1,875,464.91              | 1,239,705.17             | 36.14670292 | -107.60723003 |
| 12,205.00                 | 90.48              | 317.24         | 4,815.46                  | 5,211.98      | -5,072.00     | 1,875,534.21              | 1,239,641.67             | 36.14689081 | -107.60744834 |
| 12,300.00                 | 90.70              | 317.06         | 4,814.48                  | 5,281.63      | -5,136.60     | 1,875,603.86              | 1,239,577.07             | 36.14707960 | -107.60767040 |
| 12,395.00                 | 91.40              | 316.53         | 4,812.74                  | 5,350.86      | -5,201.63     | 1,875,673.09              | 1,239,512.04             | 36.14726725 | -107.60789387 |
| 12,490.00                 | 88.46              | 316.18         | 4,812.85                  | 5,419.60      | -5,267.19     | 1,875,741.83              | 1,239,446.48             | 36.14745351 | -107.60811913 |
| 12,585.00                 | 89.20              | 315.98         | 4,814.79                  | 5,488.01      | -5,333.07     | 1,875,810.24              | 1,239,380.60             | 36.14763887 | -107.60834546 |
| 12,679.00                 | 89.38              | 315.13         | 4,815.96                  | 5,555.12      | -5,398.89     | 1,875,877.35              | 1,239,314.78             | 36.14782063 | -107.60857151 |
| 12,774.00                 | 90.00              | 315.39         | 4,816.47                  | 5,622.59      | -5,465.75     | 1,875,944.82              | 1,239,247.92             | 36.14800339 | -107.60880113 |
| 12,868.00                 | 90.39              | 316.18         | 4,816.15                  | 5,689.97      | -5,531.30     | 1,876,012.19              | 1,239,182.37             | 36.14818590 | -107.60902630 |
| 12,963.00                 | 91.01              | 316.45         | 4,814.99                  | 5,758.66      | -5,596.92     | 1,876,080.89              | 1,239,116.75             | 36.14837203 | -107.60925173 |
| 13,058.00                 | 91.84              | 316.71         | 4,812.63                  | 5,827.64      | -5,662.19     | 1,876,149.87              | 1,239,051.48             | 36.14855897 | -107.60947604 |
| 13,153.00                 | 88.63              | 316.45         | 4,812.24                  | 5,896.63      | -5,727.48     | 1,876,218.86              | 1,238,986.19             | 36.14874594 | -107.60970039 |
| 13,247.00                 | 88.37              | 316.01         | 4,814.70                  | 5,964.49      | -5,792.48     | 1,876,286.72              | 1,238,921.19             | 36.14892980 | -107.60992373 |
| 13,341.00                 | 89.73              | 316.80         | 4,816.26                  | 6,032.55      | -5,857.29     | 1,876,354.78              | 1,238,856.38             | 36.14911424 | -107.61014641 |
| 13,435.00                 | 87.27              | 316.45         | 4,818.72                  | 6,100.85      | -5,921.82     | 1,876,423.08              | 1,238,791.85             | 36.14929933 | -107.61036817 |
| 13,530.00                 | 87.40              | 315.83         | 4,823.14                  | 6,169.28      | -5,987.57     | 1,876,491.50              | 1,238,726.10             | 36.14948472 | -107.61059408 |
| 13,624.00                 | 87.71              | 316.18         | 4,827.15                  | 6,236.84      | -6,052.81     | 1,876,559.06              | 1,238,660.86             | 36.14966776 | -107.61081818 |
| 13,719.00                 | 88.15              | 316.18         | 4,830.58                  | 6,305.34      | -6,118.54     | 1,876,627.56              | 1,238,595.13             | 36.14985336 | -107.61104403 |
| 13,814.00                 | 88.72              | 315.74         | 4,833.17                  | 6,373.60      | -6,184.56     | 1,876,695.83              | 1,238,529.12             | 36.15003830 | -107.61127082 |





## Survey Report - Geographic

**Company:** Enduring Resources LLC  
**Project:** Sandoval County, New Mexico NAD83 NM C  
**Site:** W Escavada Unit  
**Well:** W Escavada Unit Well No. 303H  
**Wellbore:** Sidetrack 01  
**Design:** Surveys Sidetrack 01

**Local Co-ordinate Reference:** Well W Escavada Unit Well No. 303H  
**TVD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**MD Reference:** RKB=6878+25 @ 6903.00ft (Aztec 1000)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** DB\_Jul2216dt\_v14

### Survey

| Measured Depth (ft)                                | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude    | Longitude     |
|----------------------------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|-------------|---------------|
| 13,908.00                                          | 91.58           | 315.39      | 4,832.93            | 6,440.71   | -6,250.36  | 1,876,762.94        | 1,238,463.31       | 36.15022008 | -107.61149683 |
| 14,003.00                                          | 90.70           | 315.39      | 4,831.04            | 6,508.33   | -6,317.06  | 1,876,830.56        | 1,238,396.61       | 36.15040322 | -107.61172592 |
| 14,098.00                                          | 91.09           | 315.48      | 4,829.55            | 6,576.01   | -6,383.72  | 1,876,898.23        | 1,238,329.96       | 36.15058651 | -107.61195485 |
| 14,192.00                                          | 91.18           | 315.04      | 4,827.69            | 6,642.76   | -6,449.87  | 1,876,964.99        | 1,238,263.80       | 36.15076730 | -107.61218203 |
| 14,287.00                                          | 91.27           | 315.22      | 4,825.66            | 6,710.07   | -6,516.88  | 1,877,032.30        | 1,238,196.80       | 36.15094958 | -107.61241214 |
| 14,382.00                                          | 90.00           | 316.27      | 4,824.61            | 6,778.11   | -6,583.16  | 1,877,100.34        | 1,238,130.51       | 36.15113388 | -107.61263986 |
| 14,476.00                                          | 90.74           | 316.89      | 4,824.00            | 6,846.38   | -6,647.77  | 1,877,168.61        | 1,238,065.90       | 36.15131890 | -107.61286189 |
| 14,571.00                                          | 89.82           | 315.39      | 4,823.54            | 6,914.88   | -6,713.59  | 1,877,237.10        | 1,238,000.08       | 36.15150447 | -107.61308804 |
| 14,666.00                                          | 90.35           | 314.34      | 4,823.40            | 6,981.89   | -6,780.93  | 1,877,304.12        | 1,237,932.75       | 36.15168593 | -107.61331924 |
| 14,761.00                                          | 89.86           | 313.72      | 4,823.22            | 7,047.92   | -6,849.23  | 1,877,370.15        | 1,237,864.44       | 36.15186463 | -107.61355368 |
| 14,855.00                                          | 89.51           | 315.65      | 4,823.74            | 7,114.02   | -6,916.06  | 1,877,436.24        | 1,237,797.62       | 36.15204358 | -107.61378313 |
| 14,950.00                                          | 90.43           | 315.30      | 4,823.79            | 7,181.75   | -6,982.67  | 1,877,503.97        | 1,237,731.00       | 36.15222702 | -107.61401194 |
| 15,045.00                                          | 89.47           | 312.75      | 4,823.87            | 7,247.76   | -7,050.97  | 1,877,569.99        | 1,237,662.70       | 36.15240569 | -107.61424638 |
| 15,139.00                                          | 89.64           | 315.48      | 4,824.60            | 7,313.19   | -7,118.45  | 1,877,635.41        | 1,237,595.22       | 36.15258277 | -107.61447800 |
| 15,234.00                                          | 90.39           | 316.36      | 4,824.58            | 7,381.43   | -7,184.54  | 1,877,703.66        | 1,237,529.13       | 36.15276764 | -107.61470505 |
| 15,328.00                                          | 90.08           | 315.65      | 4,824.19            | 7,449.06   | -7,249.83  | 1,877,771.28        | 1,237,463.84       | 36.15295084 | -107.61492937 |
| 15,423.00                                          | 89.56           | 314.07      | 4,824.49            | 7,516.06   | -7,317.17  | 1,877,838.29        | 1,237,396.51       | 36.15313227 | -107.61516059 |
| <b>Survey @ 15423.00 MD 4824.49 TVD</b>            |                 |             |                     |            |            |                     |                    |             |               |
| 15,588.00                                          | 89.56           | 314.07      | 4,825.76            | 7,630.82   | -7,435.71  | 1,877,953.05        | 1,237,277.96       | 36.15344287 | -107.61556751 |
| <b>Survey Projected to 15588.00 MD 4825.76 TVD</b> |                 |             |                     |            |            |                     |                    |             |               |

### Design Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                                     |
|---------------------|---------------------|-------------------|------------|---------------------------------------------|
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                             |
| 3,922.00            | 3,889.81            | -347.95           | 294.76     | Tie into original hole @ 3922 MD            |
| 5,111.00            | 4,760.72            | 100.56            | -159.56    | 330 FSL @ 5111 MD 4761 TVD                  |
| 15,423.00           | 4,824.49            | 7,516.06          | -7,317.17  | Survey @ 15423.00 MD 4824.49 TVD            |
| 15,588.00           | 4,825.76            | 7,630.82          | -7,435.71  | Survey Projected to 15588.00 MD 4825.76 TVD |