

|                           |                                                       |                                        |
|---------------------------|-------------------------------------------------------|----------------------------------------|
| Well Name: W LYBROOK UNIT | Well Location: T23N / R9W / SEC 27 / NENW /           | County or Parish/State:                |
| Well Number: 863H         | Type of Well: OIL WELL                                | Allottee or Tribe Name: EASTERN NAVAJO |
| Lease Number: NMNM118731  | Unit or CA Name:                                      | Unit or CA Number: NMNM135216A         |
| US Well Number:           | Well Status: Approved Application for Permit to Drill | Operator: ENDURING RESOURCES LLC       |

Notice of Intent

Sundry ID: 2644153

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Type of Submission: Notice of Intent           | Type of Action: Drilling Operations |
| Date Sundry Submitted: 11/12/2021              | Time Sundry Submitted: 03:28        |
| Date proposed operation will begin: 11/30/0201 |                                     |

Procedure Description: Enduring Resources requests to change the BHL of the W LYBROOK UNIT 863H well per attached updated: C-102 OPS Plan Directional Plan Wellbore Diagram Previously approved BHL: 2,197' FNL & 2,307' FEL - Section 21, T23N, R9W Proposed BHL: 223' FNL & 877' FWL - Section 21, T23N, R9W

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

- Procedure Description
- WLU\_863H\_WBD\_11082021\_20211112152828.pdf
  - WLU\_863H\_Drilling\_Prog\_11082021\_20211112152817.pdf
  - Enduring\_W\_Lybrook\_Unit\_No.\_863H\_rev0\_\_11916\_\_20211112152747.pdf
  - W\_LYBROOK\_UNIT\_863H\_C\_102\_Plat\_20211026\_20211112152626.pdf

|                                  |                                                              |                                               |
|----------------------------------|--------------------------------------------------------------|-----------------------------------------------|
| <b>Well Name:</b> W LYBROOK UNIT | <b>Well Location:</b> T23N / R9W / SEC 27 / NENW /           | <b>County or Parish/State:</b>                |
| <b>Well Number:</b> 863H         | <b>Type of Well:</b> OIL WELL                                | <b>Allottee or Tribe Name:</b> EASTERN NAVAJO |
| <b>Lease Number:</b> NMNM118731  | <b>Unit or CA Name:</b>                                      | <b>Unit or CA Number:</b> NMNM135216A         |
| <b>US Well Number:</b>           | <b>Well Status:</b> Approved Application for Permit to Drill | <b>Operator:</b> ENDURING RESOURCES LLC       |

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

|                                                     |                                         |
|-----------------------------------------------------|-----------------------------------------|
| <b>Operator Electronic Signature:</b> KHEM SUTHIWAN | <b>Signed on:</b> NOV 12, 2021 03:28 PM |
| <b>Name:</b> ENDURING RESOURCES LLC                 |                                         |
| <b>Title:</b> Project Regulatory Specialist         |                                         |
| <b>Street Address:</b> 6400 W 60TH AVE              |                                         |
| <b>City:</b> ARVADA                                 | <b>State:</b> CO                        |
| <b>Phone:</b> (303) 962-5508                        |                                         |
| <b>Email address:</b> KHEM.SUTHIWAN@WSP.COM         |                                         |

Field Representative

|                             |               |             |
|-----------------------------|---------------|-------------|
| <b>Representative Name:</b> |               |             |
| <b>Street Address:</b>      |               |             |
| <b>City:</b>                | <b>State:</b> | <b>Zip:</b> |
| <b>Phone:</b>               |               |             |
| <b>Email address:</b>       |               |             |

BLM Point of Contact

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| <b>BLM POC Name:</b> KENNETH G RENNICK | <b>BLM POC Title:</b> Petroleum Engineer       |
| <b>BLM POC Phone:</b> 5055647742       | <b>BLM POC Email Address:</b> krennick@blm.gov |
| <b>Disposition:</b> Approved           | <b>Disposition Date:</b> 11/16/2021            |
| <b>Signature:</b> Kenneth Rennick      |                                                |

District I  
1625 N. French Drive, Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

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

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to  
Appropriate District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                |                         |            |                  |
|----------------|-------------------------|------------|------------------|
| *API Number    |                         | *Pool Code | *Pool Name       |
|                |                         | 98157      | LYBROOK MANCOS W |
| *Property Code | *Property Name          |            | *Well Number     |
| 321259         | W LYBROOK UNIT          |            | 863H             |
| *GRID No.      | *Operator Name          |            | *Elevation       |
| 372286         | ENDURING RESOURCES, LLC |            | 6641'            |

<sup>10</sup> Surface Location

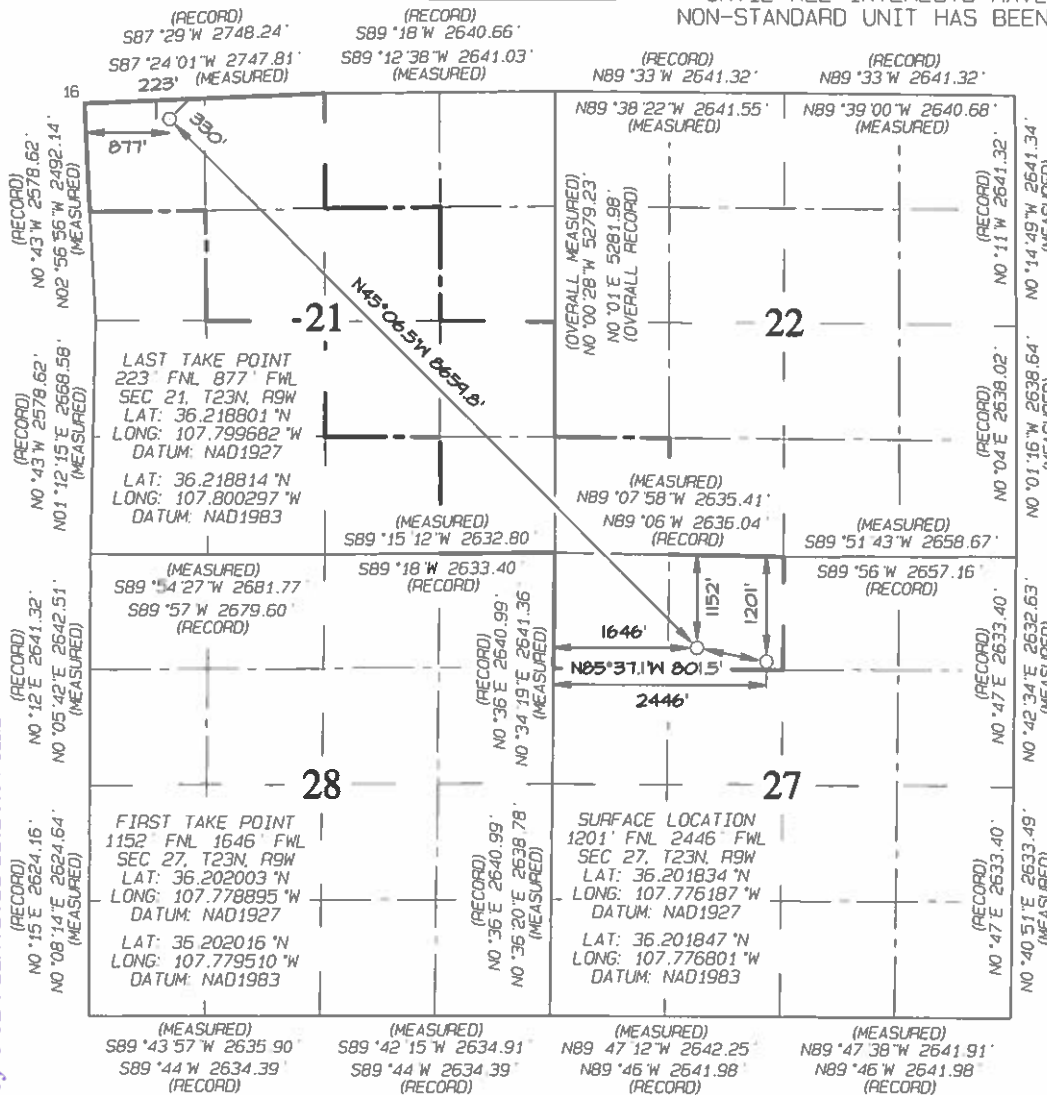
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| C             | 27      | 23N      | 9W    |         | 1201          | NORTH            | 2446          | WEST           | SAN JUAN |

<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   |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|----------|
| D             | 21      | 23N      | 9W    |         | 223           | NORTH            | 877           | WEST           | SAN JUAN |

|                                                                                                                              |  |                               |                                  |                           |
|------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|----------------------------------|---------------------------|
| <sup>12</sup> Dedicated Acres                                                                                                |  | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No.   |
| 400.00 N/2 NW/4 - Section 27<br>SW/4 SW/4 - Section 22<br>N/2 NW/4, SE/4 NW/4, SW/4 NE/4<br>N/2 SE/4, SE/4 SE/4 - Section 21 |  |                               |                                  | R-14051 - 12,807.24 Acres |

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



<sup>17</sup> 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.

Signature: [Signature] Date: 11/8/2021  
Printed Name: Khem Suthiwan  
E-mail Address: Khem.Suthiwan@wsp.com

<sup>18</sup> SURVEYOR CERTIFICATION

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

Date Revised: OCTOBER 26, 2021  
Date of Survey: MARCH 10, 2016

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

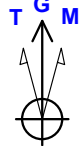
Certificate Number 15269



**Well:** W Lybrook Unit No. 863H  
**Site:** W Lybrook Unit  
**Project:** San Juan County, New Mexico NAD83 NM W  
**Design:** rev0  
**Rig:**

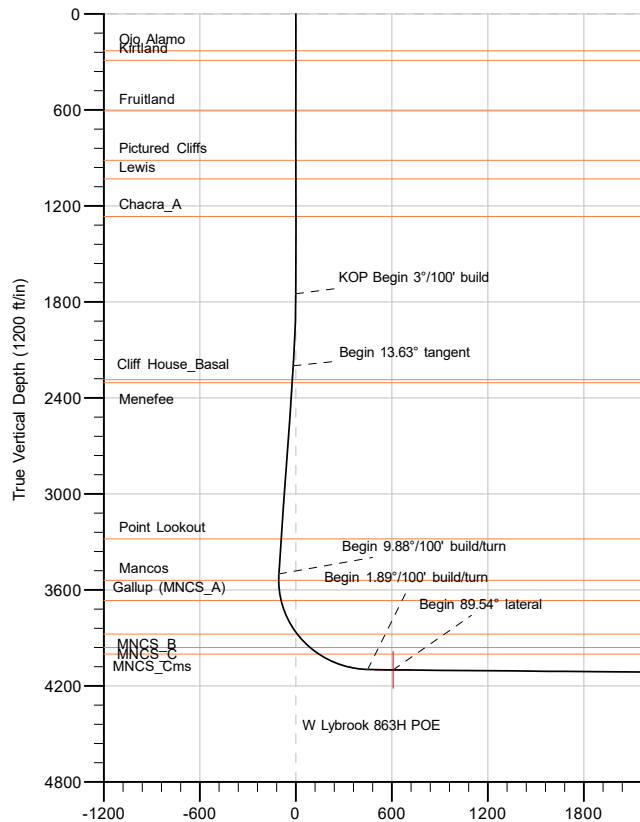
Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Western Zone  
 System Datum: Mean Sea Level  
 Depth Reference: RKB=6641+25 @ 6666.00ft  
 Northing 1892774.650 Easting 2739770.503 Latitude 36.201847000 Longitude -107.776801000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.727°



Azimuths to Grid North  
 True North: -0.03°  
 Magnetic North: 8.73°

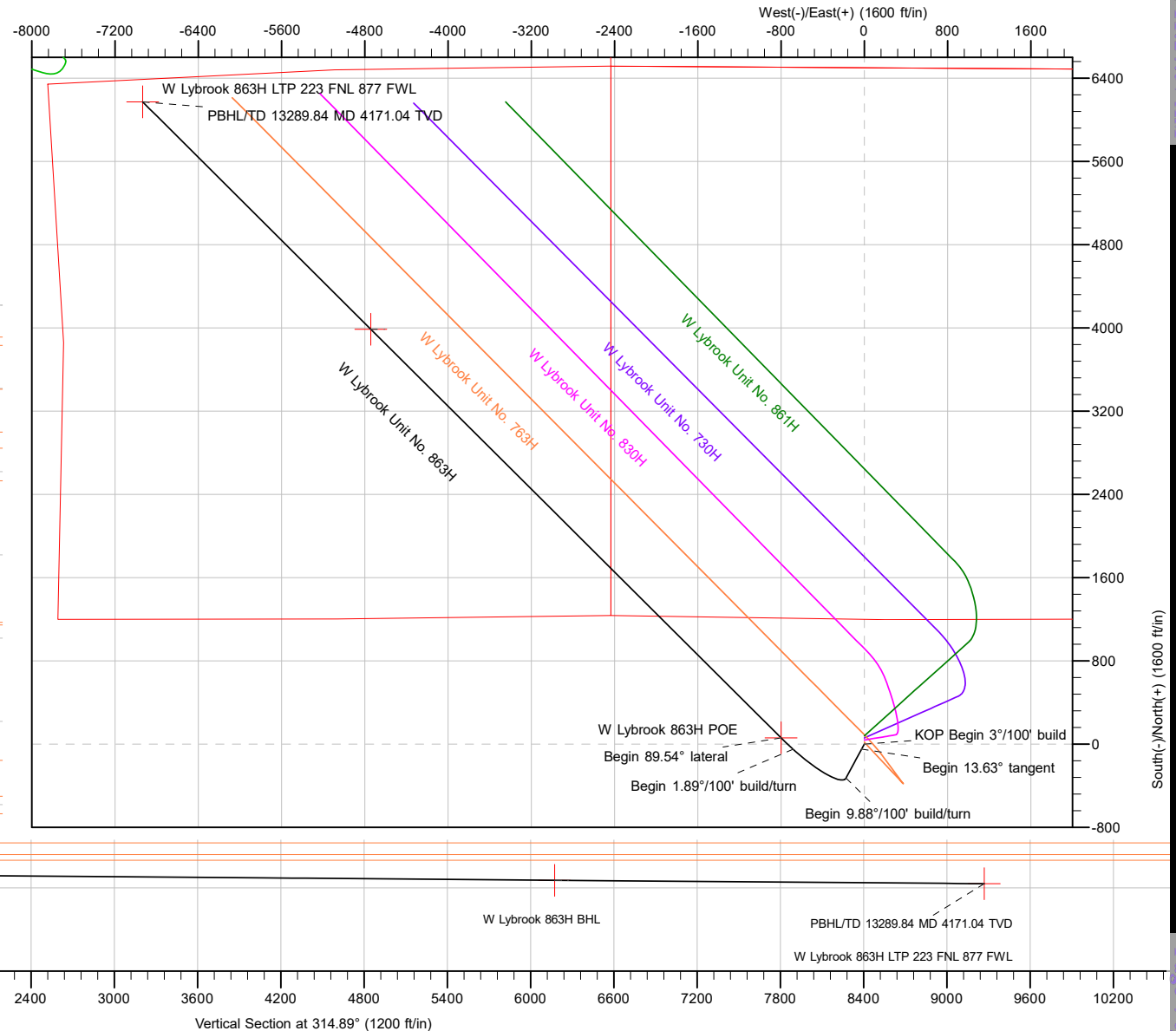
Magnetic Field  
 Strength: 49258.0nT  
 Dip Angle: 62.82°  
 Date: 11/11/2021  
 Model: IGRF2015



| Section Details |          |       |        |         |         |          |      |         |         |                                 |
|-----------------|----------|-------|--------|---------|---------|----------|------|---------|---------|---------------------------------|
| Sec             | MD       | Inc   | Azi    | TVD     | +N/-S   | +E/-W    | Dleg | TFace   | VSect   | Annotation                      |
| 1               | 0.00     | 0.00  | 0.00   | 0.00    | 0.00    | 0.00     | 0.00 | 0.000   | 0.00    |                                 |
| 2               | 1750.00  | 0.00  | 0.00   | 1750.00 | 0.00    | 0.00     | 0.00 | 0.000   | 0.00    | KOP Begin 3°/100' build         |
| 3               | 2204.17  | 13.63 | 208.30 | 2199.90 | -47.32  | -25.48   | 3.00 | 208.301 | -15.35  | Begin 13.63° tangent            |
| 4               | 3542.94  | 13.63 | 208.30 | 3501.00 | -325.00 | -175.00  | 0.00 | 0.000   | -105.39 | Begin 9.88°/100' build/turn     |
| 5               | 4469.76  | 88.30 | 312.13 | 4097.98 | -48.96  | -683.38  | 9.88 | 103.847 | 449.60  | Begin 1.89°/100' build/turn     |
| 6               | 4629.61  | 89.54 | 314.89 | 4101.00 | 61.07   | -799.27  | 1.89 | 65.828  | 609.36  | Begin 89.54° lateral            |
| 7               | 10193.85 | 89.54 | 314.89 | 4146.00 | 3988.11 | -4740.98 | 0.00 | 0.000   | 6173.41 |                                 |
| 8               | 13289.84 | 89.54 | 314.89 | 4171.04 | 6173.15 | -6934.19 | 0.00 | 0.000   | 9269.30 | PBHL/TD 13289.84 MD 4171.04 TVD |

#### DESIGN TARGET DETAILS

| Name                               | TVD     | +N/-S   | +E/-W    | Northing    | Easting     | Latitude     | Longitude      |
|------------------------------------|---------|---------|----------|-------------|-------------|--------------|----------------|
| W Lybrook 863H POE                 | 4101.00 | 61.07   | -799.27  | 1892835.720 | 2738971.230 | 36.202016015 | -107.779509992 |
| W Lybrook 863H BHL                 | 4146.00 | 3988.03 | -4741.06 | 1896762.670 | 2735029.450 | 36.212808998 | -107.792864990 |
| W Lybrook 863H LTP 223 FNL 877 FWL | 4171.04 | 6173.15 | -6934.19 | 1898947.785 | 2732836.332 | 36.218814000 | -107.800297000 |





## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

|                    |                                        |                      |                |
|--------------------|----------------------------------------|----------------------|----------------|
| <b>Project</b>     | San Juan County, New Mexico NAD83 NM W |                      |                |
| <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 Western Zone                |                      |                |

| Site                  | W Lybrook Unit |              |                    |            |                |
|-----------------------|----------------|--------------|--------------------|------------|----------------|
| Site Position:        |                | Northing:    | 1,897,416.802 usft | Latitude:  | 36.214585000   |
| From:                 | Lat/Long       | Easting:     | 2,747,156.265 usft | Longitude: | -107.751754000 |
| Position Uncertainty: | 0.00 ft        | Slot Radius: | 13-3/16 "          |            |                |

|                      |                                                                          |         |                     |                    |               |                |
|----------------------|--------------------------------------------------------------------------|---------|---------------------|--------------------|---------------|----------------|
| Well                 | W Lybrook Unit No. 863H, Surf loc: 1201 FNL 2446 FWL Section 27-T23N-09W |         |                     |                    |               |                |
| Well Position        | +N/-S                                                                    | 0.00 ft | Northing:           | 1,892,774.650 usft | Latitude:     | 36.201847000   |
|                      | +E/-W                                                                    | 0.00 ft | Easting:            | 2,739,770.503 usft | Longitude:    | -107.776801000 |
| Position Uncertainty |                                                                          | 0.00 ft | Wellhead Elevation: | ft                 | Ground Level: | 6,641.00 ft    |
| Grid Convergence:    |                                                                          | 0.033 ° |                     |                    |               |                |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 11/11/2021         | 8.760                  | 62.824               | 49,258.00028308            |

|                          |                              |                   |                   |                      |      |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|------|
| <b>Design</b>            | rev0                         |                   |                   |                      |      |
| <b>Audit Notes:</b>      |                              |                   |                   |                      |      |
| <b>Version:</b>          |                              | <b>Phase:</b>     | PLAN              | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Direction (°)</b> |      |
|                          | 0.00                         | 0.00              | 0.00              | 314.89               |      |

|                                 |                      |                          |                      |                     |  |
|---------------------------------|----------------------|--------------------------|----------------------|---------------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>          | 11/11/2021               |                      |                     |  |
| <b>Depth From (ft)</b>          | <b>Depth To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>     | <b>Remarks</b>      |  |
| 1                               | 0.00                 | 13,289.84                | rev0 (Original Hole) | MWD                 |  |
|                                 |                      |                          |                      | OWSG MWD - Standard |  |

|                            |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|-----------------------------|----------------------------|----------------|--------------------|
| <b>Plan Sections</b>       |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>      |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 1,750.00                   | 0.00                   | 0.00               | 1,750.00                   | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 2,204.17                   | 13.63                  | 208.30             | 2,199.90                   | -47.32            | -25.48            | 3.00                         | 3.00                        | -33.40                     | 208.301        |                    |
| 3,542.94                   | 13.63                  | 208.30             | 3,501.00                   | -325.00           | -175.00           | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 4,469.76                   | 88.30                  | 312.13             | 4,097.98                   | -48.96            | -683.38           | 9.88                         | 8.06                        | 11.20                      | 103.847        |                    |
| 4,629.61                   | 89.54                  | 314.89             | 4,101.00                   | 61.07             | -799.27           | 1.89                         | 0.78                        | 1.73                       | 65.828         | W Lybrook 863H POE |
| 10,193.85                  | 89.54                  | 314.89             | 4,146.00                   | 3,988.11          | -4,740.98         | 0.00                         | 0.00                        | 0.00                       | 0.000          | W Lybrook 863H BHL |
| 13,289.84                  | 89.54                  | 314.89             | 4,171.04                   | 6,173.15          | -6,934.19         | 0.00                         | 0.00                        | 0.00                       | 0.000          | W Lybrook 863H LTP |



## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey                 |                 |             |                     |            |            |                       |                       |                      |                     |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)            | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.00                           | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00                         | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00                         | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 231.00                         | 0.00            | 0.00        | 231.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Ojo Alamo</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 291.00                         | 0.00            | 0.00        | 291.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Kirtland</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 300.00                         | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 350.00                         | 0.00            | 0.00        | 350.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>13 3/8" Csg</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 400.00                         | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00                         | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00                         | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 606.00                         | 0.00            | 0.00        | 606.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Fruitland</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 700.00                         | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 800.00                         | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 900.00                         | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 916.00                         | 0.00            | 0.00        | 916.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Pictured Cliffs</b>         |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,000.00                       | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,031.00                       | 0.00            | 0.00        | 1,031.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Lewis</b>                   |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,100.00                       | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,200.00                       | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,266.00                       | 0.00            | 0.00        | 1,266.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>Chacra_A</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,300.00                       | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,400.00                       | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                       | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                       | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                       | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 1,750.00                       | 0.00            | 0.00        | 1,750.00            | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>KOP Begin 3°/100' build</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,800.00                       | 1.50            | 208.30      | 1,799.99            | -0.58      | -0.31      | -0.19                 | 3.00                  | 3.00                 | 0.00                |
| 1,900.00                       | 4.50            | 208.30      | 1,899.85            | -5.18      | -2.79      | -1.68                 | 3.00                  | 3.00                 | 0.00                |
| 2,000.00                       | 7.50            | 208.30      | 1,999.29            | -14.39     | -7.75      | -4.66                 | 3.00                  | 3.00                 | 0.00                |
| 2,100.00                       | 10.50           | 208.30      | 2,098.04            | -28.16     | -15.16     | -9.13                 | 3.00                  | 3.00                 | 0.00                |
| 2,204.17                       | 13.63           | 208.30      | 2,199.90            | -47.32     | -25.48     | -15.35                | 3.00                  | 3.00                 | 0.00                |
| <b>Begin 13.63° tangent</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,292.76                       | 13.63           | 208.30      | 2,286.00            | -65.70     | -35.38     | -21.30                | 0.00                  | 0.00                 | 0.00                |
| <b>Cliff House_Basal</b>       |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,300.00                       | 13.63           | 208.30      | 2,293.03            | -67.20     | -36.18     | -21.79                | 0.00                  | 0.00                 | 0.00                |
| 2,313.34                       | 13.63           | 208.30      | 2,306.00            | -69.97     | -37.67     | -22.69                | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,400.00                       | 13.63           | 208.30      | 2,390.22            | -87.94     | -47.35     | -28.52                | 0.00                  | 0.00                 | 0.00                |
| 2,416.24                       | 13.63           | 208.30      | 2,406.00            | -91.31     | -49.17     | -29.61                | 0.00                  | 0.00                 | 0.00                |
| <b>9 5/8" Csg</b>              |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,500.00                       | 13.63           | 208.30      | 2,487.41            | -108.68    | -58.52     | -35.24                | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                       | 13.63           | 208.30      | 2,584.59            | -129.42    | -69.69     | -41.97                | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                       | 13.63           | 208.30      | 2,681.78            | -150.16    | -80.86     | -48.69                | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                       | 13.63           | 208.30      | 2,778.96            | -170.90    | -92.03     | -55.42                | 0.00                  | 0.00                 | 0.00                |



## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey                     |                 |             |                     |            |            |                       |                       |                      |                     |
|------------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)                | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 2,900.00                           | 13.63           | 208.30      | 2,876.15            | -191.65    | -103.19    | -62.14                | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                           | 13.63           | 208.30      | 2,973.34            | -212.39    | -114.36    | -68.87                | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                           | 13.63           | 208.30      | 3,070.52            | -233.13    | -125.53    | -75.60                | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                           | 13.63           | 208.30      | 3,167.71            | -253.87    | -136.70    | -82.32                | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                           | 13.63           | 208.30      | 3,264.89            | -274.61    | -147.87    | -89.05                | 0.00                  | 0.00                 | 0.00                |
| 3,316.57                           | 13.63           | 208.30      | 3,281.00            | -278.05    | -149.72    | -90.16                | 0.00                  | 0.00                 | 0.00                |
| <b>Point Lookout</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,400.00                           | 13.63           | 208.30      | 3,362.08            | -295.35    | -159.04    | -95.77                | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                           | 13.63           | 208.30      | 3,459.26            | -316.09    | -170.20    | -102.50               | 0.00                  | 0.00                 | 0.00                |
| 3,542.94                           | 13.63           | 208.30      | 3,501.00            | -325.00    | -175.00    | -105.39               | 0.00                  | 0.00                 | 0.00                |
| <b>Begin 9.88°/100' build/turn</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,550.00                           | 13.47           | 211.21      | 3,507.86            | -326.43    | -175.82    | -105.82               | 9.88                  | -2.13                | 41.18               |
| 3,584.05                           | 13.24           | 225.77      | 3,541.00            | -332.55    | -180.67    | -106.70               | 9.88                  | -0.68                | 42.77               |
| <b>Mancos</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,600.00                           | 13.42           | 232.56      | 3,556.52            | -334.95    | -183.45    | -106.42               | 9.88                  | 1.11                 | 42.60               |
| 3,650.00                           | 15.05           | 251.64      | 3,605.01            | -340.52    | -194.23    | -102.72               | 9.88                  | 3.26                 | 38.15               |
| 3,700.00                           | 17.91           | 265.91      | 3,652.97            | -343.12    | -208.07    | -94.75                | 9.88                  | 5.73                 | 28.55               |
| 3,713.73                           | 18.85           | 269.04      | 3,666.00            | -343.31    | -212.39    | -91.82                | 9.88                  | 6.80                 | 22.75               |
| <b>Gallup (MNCS_A)</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,750.00                           | 21.52           | 275.97      | 3,700.04            | -342.71    | -224.87    | -82.56                | 9.88                  | 7.38                 | 19.10               |
| 3,800.00                           | 25.56           | 283.11      | 3,745.88            | -339.31    | -244.51    | -66.24                | 9.88                  | 8.08                 | 14.29               |
| 3,850.00                           | 29.86           | 288.37      | 3,790.14            | -332.94    | -266.84    | -45.92                | 9.88                  | 8.59                 | 10.52               |
| 3,900.00                           | 34.31           | 292.40      | 3,832.50            | -323.64    | -291.70    | -21.75                | 9.88                  | 8.91                 | 8.05                |
| 3,950.00                           | 38.87           | 295.59      | 3,872.64            | -311.48    | -318.90    | 6.10                  | 9.88                  | 9.12                 | 6.38                |
| 3,954.33                           | 39.27           | 295.84      | 3,876.00            | -310.30    | -321.36    | 8.68                  | 9.88                  | 9.21                 | 5.69                |
| <b>MNCS_B</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,000.00                           | 43.51           | 298.20      | 3,910.25            | -296.56    | -348.24    | 37.41                 | 9.88                  | 9.27                 | 5.18                |
| 4,050.00                           | 48.19           | 300.40      | 3,945.07            | -278.99    | -379.49    | 71.96                 | 9.88                  | 9.36                 | 4.40                |
| 4,074.44                           | 50.49           | 301.36      | 3,961.00            | -269.47    | -395.40    | 89.95                 | 9.88                  | 9.42                 | 3.93                |
| <b>MNCS_C</b>                      |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100.00                           | 52.91           | 302.30      | 3,976.84            | -258.89    | -412.44    | 109.49                | 9.88                  | 9.45                 | 3.67                |
| 4,142.02                           | 56.89           | 303.72      | 4,001.00            | -240.16    | -441.26    | 143.13                | 9.88                  | 9.49                 | 3.38                |
| <b>MNCS_Cms</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,150.00                           | 57.65           | 303.97      | 4,005.31            | -236.42    | -446.83    | 149.71                | 9.88                  | 9.51                 | 3.19                |
| 4,200.00                           | 62.42           | 305.48      | 4,030.28            | -211.74    | -482.41    | 192.34                | 9.88                  | 9.53                 | 3.01                |
| 4,250.00                           | 67.19           | 306.86      | 4,051.56            | -185.04    | -518.92    | 237.04                | 9.88                  | 9.56                 | 2.76                |
| 4,300.00                           | 71.99           | 308.15      | 4,068.99            | -156.51    | -556.07    | 283.50                | 9.88                  | 9.58                 | 2.57                |
| 4,350.00                           | 76.78           | 309.37      | 4,082.45            | -126.37    | -593.61    | 331.37                | 9.88                  | 9.60                 | 2.44                |
| 4,400.00                           | 81.59           | 310.54      | 4,091.83            | -94.83     | -631.24    | 380.28                | 9.88                  | 9.61                 | 2.34                |
| 4,450.00                           | 86.40           | 311.68      | 4,097.06            | -62.14     | -668.69    | 429.88                | 9.88                  | 9.61                 | 2.29                |
| 4,469.76                           | 88.30           | 312.13      | 4,097.98            | -48.96     | -683.38    | 449.60                | 9.88                  | 9.62                 | 2.26                |
| <b>Begin 1.89°/100' build/turn</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,500.00                           | 88.53           | 312.65      | 4,098.81            | -28.58     | -705.70    | 479.79                | 1.89                  | 0.78                 | 1.73                |
| 4,600.00                           | 89.31           | 314.38      | 4,100.70            | 40.26      | -778.20    | 579.74                | 1.89                  | 0.78                 | 1.73                |
| 4,629.61                           | 89.54           | 314.89      | 4,101.00            | 61.07      | -799.27    | 609.36                | 1.89                  | 0.78                 | 1.73                |
| <b>Begin 89.54° lateral</b>        |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,700.00                           | 89.54           | 314.89      | 4,101.57            | 110.75     | -849.14    | 679.74                | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                           | 89.54           | 314.89      | 4,102.38            | 181.32     | -919.98    | 779.74                | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                           | 89.54           | 314.89      | 4,103.19            | 251.90     | -990.82    | 879.73                | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                           | 89.54           | 314.89      | 4,104.00            | 322.47     | -1,061.66  | 979.73                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                           | 89.54           | 314.89      | 4,104.80            | 393.05     | -1,132.50  | 1,079.73              | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                           | 89.54           | 314.89      | 4,105.61            | 463.63     | -1,203.34  | 1,179.72              | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                           | 89.54           | 314.89      | 4,106.42            | 534.20     | -1,274.18  | 1,279.72              | 0.00                  | 0.00                 | 0.00                |



## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 5,400.00            | 89.54           | 314.89      | 4,107.23            | 604.78     | -1,345.02  | 1,379.72              | 0.00                  | 0.00                 | 0.00                |
| 5,500.00            | 89.54           | 314.89      | 4,108.04            | 675.36     | -1,415.86  | 1,479.71              | 0.00                  | 0.00                 | 0.00                |
| 5,600.00            | 89.54           | 314.89      | 4,108.85            | 745.93     | -1,486.70  | 1,579.71              | 0.00                  | 0.00                 | 0.00                |
| 5,700.00            | 89.54           | 314.89      | 4,109.66            | 816.51     | -1,557.54  | 1,679.71              | 0.00                  | 0.00                 | 0.00                |
| 5,800.00            | 89.54           | 314.89      | 4,110.47            | 887.09     | -1,628.38  | 1,779.70              | 0.00                  | 0.00                 | 0.00                |
| 5,900.00            | 89.54           | 314.89      | 4,111.27            | 957.66     | -1,699.22  | 1,879.70              | 0.00                  | 0.00                 | 0.00                |
| 6,000.00            | 89.54           | 314.89      | 4,112.08            | 1,028.24   | -1,770.06  | 1,979.70              | 0.00                  | 0.00                 | 0.00                |
| 6,100.00            | 89.54           | 314.89      | 4,112.89            | 1,098.82   | -1,840.90  | 2,079.69              | 0.00                  | 0.00                 | 0.00                |
| 6,200.00            | 89.54           | 314.89      | 4,113.70            | 1,169.39   | -1,911.74  | 2,179.69              | 0.00                  | 0.00                 | 0.00                |
| 6,300.00            | 89.54           | 314.89      | 4,114.51            | 1,239.97   | -1,982.58  | 2,279.69              | 0.00                  | 0.00                 | 0.00                |
| 6,400.00            | 89.54           | 314.89      | 4,115.32            | 1,310.54   | -2,053.42  | 2,379.68              | 0.00                  | 0.00                 | 0.00                |
| 6,500.00            | 89.54           | 314.89      | 4,116.13            | 1,381.12   | -2,124.26  | 2,479.68              | 0.00                  | 0.00                 | 0.00                |
| 6,600.00            | 89.54           | 314.89      | 4,116.94            | 1,451.70   | -2,195.10  | 2,579.68              | 0.00                  | 0.00                 | 0.00                |
| 6,700.00            | 89.54           | 314.89      | 4,117.74            | 1,522.27   | -2,265.94  | 2,679.67              | 0.00                  | 0.00                 | 0.00                |
| 6,800.00            | 89.54           | 314.89      | 4,118.55            | 1,592.85   | -2,336.78  | 2,779.67              | 0.00                  | 0.00                 | 0.00                |
| 6,900.00            | 89.54           | 314.89      | 4,119.36            | 1,663.43   | -2,407.62  | 2,879.67              | 0.00                  | 0.00                 | 0.00                |
| 7,000.00            | 89.54           | 314.89      | 4,120.17            | 1,734.00   | -2,478.46  | 2,979.66              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00            | 89.54           | 314.89      | 4,120.98            | 1,804.58   | -2,549.30  | 3,079.66              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00            | 89.54           | 314.89      | 4,121.79            | 1,875.16   | -2,620.14  | 3,179.66              | 0.00                  | 0.00                 | 0.00                |
| 7,300.00            | 89.54           | 314.89      | 4,122.60            | 1,945.73   | -2,690.98  | 3,279.65              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00            | 89.54           | 314.89      | 4,123.41            | 2,016.31   | -2,761.82  | 3,379.65              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00            | 89.54           | 314.89      | 4,124.21            | 2,086.89   | -2,832.66  | 3,479.65              | 0.00                  | 0.00                 | 0.00                |
| 7,600.00            | 89.54           | 314.89      | 4,125.02            | 2,157.46   | -2,903.50  | 3,579.64              | 0.00                  | 0.00                 | 0.00                |
| 7,700.00            | 89.54           | 314.89      | 4,125.83            | 2,228.04   | -2,974.34  | 3,679.64              | 0.00                  | 0.00                 | 0.00                |
| 7,800.00            | 89.54           | 314.89      | 4,126.64            | 2,298.61   | -3,045.18  | 3,779.64              | 0.00                  | 0.00                 | 0.00                |
| 7,900.00            | 89.54           | 314.89      | 4,127.45            | 2,369.19   | -3,116.02  | 3,879.64              | 0.00                  | 0.00                 | 0.00                |
| 8,000.00            | 89.54           | 314.89      | 4,128.26            | 2,439.77   | -3,186.86  | 3,979.63              | 0.00                  | 0.00                 | 0.00                |
| 8,100.00            | 89.54           | 314.89      | 4,129.07            | 2,510.34   | -3,257.70  | 4,079.63              | 0.00                  | 0.00                 | 0.00                |
| 8,200.00            | 89.54           | 314.89      | 4,129.88            | 2,580.92   | -3,328.54  | 4,179.63              | 0.00                  | 0.00                 | 0.00                |
| 8,300.00            | 89.54           | 314.89      | 4,130.68            | 2,651.50   | -3,399.38  | 4,279.62              | 0.00                  | 0.00                 | 0.00                |
| 8,400.00            | 89.54           | 314.89      | 4,131.49            | 2,722.07   | -3,470.22  | 4,379.62              | 0.00                  | 0.00                 | 0.00                |
| 8,500.00            | 89.54           | 314.89      | 4,132.30            | 2,792.65   | -3,541.06  | 4,479.62              | 0.00                  | 0.00                 | 0.00                |
| 8,600.00            | 89.54           | 314.89      | 4,133.11            | 2,863.23   | -3,611.90  | 4,579.61              | 0.00                  | 0.00                 | 0.00                |
| 8,700.00            | 89.54           | 314.89      | 4,133.92            | 2,933.80   | -3,682.74  | 4,679.61              | 0.00                  | 0.00                 | 0.00                |
| 8,800.00            | 89.54           | 314.89      | 4,134.73            | 3,004.38   | -3,753.58  | 4,779.61              | 0.00                  | 0.00                 | 0.00                |
| 8,900.00            | 89.54           | 314.89      | 4,135.54            | 3,074.96   | -3,824.42  | 4,879.60              | 0.00                  | 0.00                 | 0.00                |
| 9,000.00            | 89.54           | 314.89      | 4,136.35            | 3,145.53   | -3,895.26  | 4,979.60              | 0.00                  | 0.00                 | 0.00                |
| 9,100.00            | 89.54           | 314.89      | 4,137.15            | 3,216.11   | -3,966.10  | 5,079.60              | 0.00                  | 0.00                 | 0.00                |
| 9,200.00            | 89.54           | 314.89      | 4,137.96            | 3,286.68   | -4,036.94  | 5,179.59              | 0.00                  | 0.00                 | 0.00                |
| 9,300.00            | 89.54           | 314.89      | 4,138.77            | 3,357.26   | -4,107.78  | 5,279.59              | 0.00                  | 0.00                 | 0.00                |
| 9,400.00            | 89.54           | 314.89      | 4,139.58            | 3,427.84   | -4,178.62  | 5,379.59              | 0.00                  | 0.00                 | 0.00                |
| 9,500.00            | 89.54           | 314.89      | 4,140.39            | 3,498.41   | -4,249.46  | 5,479.58              | 0.00                  | 0.00                 | 0.00                |
| 9,600.00            | 89.54           | 314.89      | 4,141.20            | 3,568.99   | -4,320.30  | 5,579.58              | 0.00                  | 0.00                 | 0.00                |
| 9,700.00            | 89.54           | 314.89      | 4,142.01            | 3,639.57   | -4,391.14  | 5,679.58              | 0.00                  | 0.00                 | 0.00                |
| 9,800.00            | 89.54           | 314.89      | 4,142.82            | 3,710.14   | -4,461.98  | 5,779.57              | 0.00                  | 0.00                 | 0.00                |
| 9,900.00            | 89.54           | 314.89      | 4,143.62            | 3,780.72   | -4,532.82  | 5,879.57              | 0.00                  | 0.00                 | 0.00                |
| 10,000.00           | 89.54           | 314.89      | 4,144.43            | 3,851.30   | -4,603.66  | 5,979.57              | 0.00                  | 0.00                 | 0.00                |
| 10,100.00           | 89.54           | 314.89      | 4,145.24            | 3,921.87   | -4,674.50  | 6,079.56              | 0.00                  | 0.00                 | 0.00                |
| 10,193.85           | 89.54           | 314.89      | 4,146.00            | 3,988.11   | -4,740.98  | 6,173.41              | 0.00                  | 0.00                 | 0.00                |
| 10,200.00           | 89.54           | 314.89      | 4,146.05            | 3,992.45   | -4,745.34  | 6,179.56              | 0.00                  | 0.00                 | 0.00                |
| 10,300.00           | 89.54           | 314.89      | 4,146.86            | 4,063.02   | -4,816.18  | 6,279.56              | 0.00                  | 0.00                 | 0.00                |
| 10,400.00           | 89.54           | 314.89      | 4,147.67            | 4,133.60   | -4,887.02  | 6,379.55              | 0.00                  | 0.00                 | 0.00                |
| 10,500.00           | 89.54           | 314.89      | 4,148.48            | 4,204.18   | -4,957.86  | 6,479.55              | 0.00                  | 0.00                 | 0.00                |
| 10,600.00           | 89.54           | 314.89      | 4,149.29            | 4,274.75   | -5,028.70  | 6,579.55              | 0.00                  | 0.00                 | 0.00                |



## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey                  |                 |             |                     |            |            |                       |                       |                      |                     |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft)             | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 10,700.00                       | 89.54           | 314.89      | 4,150.09            | 4,345.33   | -5,099.54  | 6,679.54              | 0.00                  | 0.00                 | 0.00                |
| 10,800.00                       | 89.54           | 314.89      | 4,150.90            | 4,415.91   | -5,170.38  | 6,779.54              | 0.00                  | 0.00                 | 0.00                |
| 10,900.00                       | 89.54           | 314.89      | 4,151.71            | 4,486.48   | -5,241.22  | 6,879.54              | 0.00                  | 0.00                 | 0.00                |
| 11,000.00                       | 89.54           | 314.89      | 4,152.52            | 4,557.06   | -5,312.06  | 6,979.53              | 0.00                  | 0.00                 | 0.00                |
| 11,100.00                       | 89.54           | 314.89      | 4,153.33            | 4,627.64   | -5,382.90  | 7,079.53              | 0.00                  | 0.00                 | 0.00                |
| 11,200.00                       | 89.54           | 314.89      | 4,154.14            | 4,698.21   | -5,453.74  | 7,179.53              | 0.00                  | 0.00                 | 0.00                |
| 11,300.00                       | 89.54           | 314.89      | 4,154.95            | 4,768.79   | -5,524.58  | 7,279.52              | 0.00                  | 0.00                 | 0.00                |
| 11,400.00                       | 89.54           | 314.89      | 4,155.76            | 4,839.37   | -5,595.42  | 7,379.52              | 0.00                  | 0.00                 | 0.00                |
| 11,500.00                       | 89.54           | 314.89      | 4,156.56            | 4,909.94   | -5,666.26  | 7,479.52              | 0.00                  | 0.00                 | 0.00                |
| 11,600.00                       | 89.54           | 314.89      | 4,157.37            | 4,980.52   | -5,737.10  | 7,579.51              | 0.00                  | 0.00                 | 0.00                |
| 11,700.00                       | 89.54           | 314.89      | 4,158.18            | 5,051.09   | -5,807.94  | 7,679.51              | 0.00                  | 0.00                 | 0.00                |
| 11,800.00                       | 89.54           | 314.89      | 4,158.99            | 5,121.67   | -5,878.78  | 7,779.51              | 0.00                  | 0.00                 | 0.00                |
| 11,900.00                       | 89.54           | 314.89      | 4,159.80            | 5,192.25   | -5,949.62  | 7,879.50              | 0.00                  | 0.00                 | 0.00                |
| 12,000.00                       | 89.54           | 314.89      | 4,160.61            | 5,262.82   | -6,020.46  | 7,979.50              | 0.00                  | 0.00                 | 0.00                |
| 12,100.00                       | 89.54           | 314.89      | 4,161.42            | 5,333.40   | -6,091.30  | 8,079.50              | 0.00                  | 0.00                 | 0.00                |
| 12,200.00                       | 89.54           | 314.89      | 4,162.23            | 5,403.98   | -6,162.14  | 8,179.49              | 0.00                  | 0.00                 | 0.00                |
| 12,300.00                       | 89.54           | 314.89      | 4,163.03            | 5,474.55   | -6,232.98  | 8,279.49              | 0.00                  | 0.00                 | 0.00                |
| 12,400.00                       | 89.54           | 314.89      | 4,163.84            | 5,545.13   | -6,303.82  | 8,379.49              | 0.00                  | 0.00                 | 0.00                |
| 12,500.00                       | 89.54           | 314.89      | 4,164.65            | 5,615.71   | -6,374.66  | 8,479.48              | 0.00                  | 0.00                 | 0.00                |
| 12,600.00                       | 89.54           | 314.89      | 4,165.46            | 5,686.28   | -6,445.50  | 8,579.48              | 0.00                  | 0.00                 | 0.00                |
| 12,700.00                       | 89.54           | 314.89      | 4,166.27            | 5,756.86   | -6,516.34  | 8,679.48              | 0.00                  | 0.00                 | 0.00                |
| 12,800.00                       | 89.54           | 314.89      | 4,167.08            | 5,827.44   | -6,587.18  | 8,779.47              | 0.00                  | 0.00                 | 0.00                |
| 12,900.00                       | 89.54           | 314.89      | 4,167.89            | 5,898.01   | -6,658.02  | 8,879.47              | 0.00                  | 0.00                 | 0.00                |
| 13,000.00                       | 89.54           | 314.89      | 4,168.70            | 5,968.59   | -6,728.86  | 8,979.47              | 0.00                  | 0.00                 | 0.00                |
| 13,100.00                       | 89.54           | 314.89      | 4,169.50            | 6,039.16   | -6,799.70  | 9,079.47              | 0.00                  | 0.00                 | 0.00                |
| 13,200.00                       | 89.54           | 314.89      | 4,170.31            | 6,109.74   | -6,870.54  | 9,179.46              | 0.00                  | 0.00                 | 0.00                |
| 13,289.84                       | 89.54           | 314.89      | 4,171.04            | 6,173.15   | -6,934.19  | 9,269.30              | 0.00                  | 0.00                 | 0.00                |
| PBHL/TD 13289.84 MD 4171.04 TVD |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Targets                                                |               |              |          |            |            |                 |                |              |                |
|---------------------------------------------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|--------------|----------------|
| Target Name                                                   | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude     | Longitude      |
| W Lybrook 863H POE<br>- hit/miss target<br>- Shape            | 0.00          | 0.01         | 4,101.00 | 61.07      | -799.27    | 1,892,835.720   | 2,738,971.230  | 36.202016015 | -107.779509992 |
| W Lybrook 863H BHL<br>- plan hits target center<br>- Point    | 0.00          | 0.01         | 4,146.00 | 3,988.03   | -4,741.06  | 1,896,762.670   | 2,735,029.450  | 36.212808998 | -107.792864989 |
| W Lybrook 863H LTP 22<br>- plan hits target center<br>- Point | 0.00          | 0.01         | 4,171.04 | 6,173.15   | -6,934.19  | 1,898,947.785   | 2,732,836.332  | 36.218814000 | -107.800297000 |

| Casing Points       |                     |             |                     |                   |  |
|---------------------|---------------------|-------------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name        | Casing Diameter (") | Hole Diameter (") |  |
| 350.00              | 350.00              | 13 3/8" Csg | 13-3/8              | 17-1/2            |  |
| 2,416.24            | 2,406.00            | 9 5/8" Csg  | 9-5/8               | 12-1/4            |  |



## Planning Report

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Formations          |                     |                   |           |         |                   |  |
|---------------------|---------------------|-------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name              | Lithology | Dip (°) | Dip Direction (°) |  |
| 231.00              | 231.00              | Ojo Alamo         |           |         |                   |  |
| 291.00              | 291.00              | Kirtland          |           |         |                   |  |
| 606.00              | 606.00              | Fruitland         |           |         |                   |  |
| 916.00              | 916.00              | Pictured Cliffs   |           |         |                   |  |
| 1,031.00            | 1,031.00            | Lewis             |           |         |                   |  |
| 1,266.00            | 1,266.00            | Chacra_A          |           |         |                   |  |
| 2,292.76            | 2,286.00            | Cliff House_Basal |           |         |                   |  |
| 2,313.34            | 2,306.00            | Menefee           |           |         |                   |  |
| 3,316.57            | 3,281.00            | Point Lookout     |           |         |                   |  |
| 3,584.05            | 3,541.00            | Mancos            |           |         |                   |  |
| 3,713.73            | 3,666.00            | Gallup (MNCS_A)   |           |         |                   |  |
| 3,954.33            | 3,876.00            | MNCS_B            |           |         |                   |  |
| 4,074.44            | 3,961.00            | MNCS_C            |           |         |                   |  |
| 4,142.02            | 4,001.00            | MNCS_Cms          |           |         |                   |  |

| Plan Annotations    |                     |                   |            |                                 |  |
|---------------------|---------------------|-------------------|------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                 |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                         |  |
| 1,750.00            | 1,750.00            | 0.00              | 0.00       | KOP Begin 3°/100' build         |  |
| 2,204.17            | 2,199.90            | -47.32            | -25.48     | Begin 13.63° tangent            |  |
| 3,542.94            | 3,501.00            | -325.00           | -175.00    | Begin 9.88°/100' build/turn     |  |
| 4,469.76            | 4,097.98            | -48.96            | -683.38    | Begin 1.89°/100' build/turn     |  |
| 4,629.61            | 4,101.00            | 61.07             | -799.27    | Begin 89.54° lateral            |  |
| 10,193.85           | 4,146.00            | 3,988.11          | -4,740.98  |                                 |  |
| 13,289.84           | 4,171.04            | 6,173.15          | -6,934.19  | PBHL/TD 13289.84 MD 4171.04 TVD |  |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

|                    |                                        |                      |                |
|--------------------|----------------------------------------|----------------------|----------------|
| <b>Project</b>     | San Juan County, New Mexico NAD83 NM W |                      |                |
| <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 Western Zone                |                      |                |

| Site                  | W Lybrook Unit |              |                    |            |                |
|-----------------------|----------------|--------------|--------------------|------------|----------------|
| Site Position:        |                | Northing:    | 1,897,416.802 usft | Latitude:  | 36.214585000   |
| From:                 | Lat/Long       | Easting:     | 2,747,156.265 usft | Longitude: | -107.751754000 |
| Position Uncertainty: | 0.00 ft        | Slot Radius: | 13-3/16 "          |            |                |

| Well                 | W Lybrook Unit No. 863H, Surf loc: 1201 FNL 2446 FWL Section 27-T23N-09W |         |                     |                    |               |                |
|----------------------|--------------------------------------------------------------------------|---------|---------------------|--------------------|---------------|----------------|
| Well Position        | +N/-S                                                                    | 0.00 ft | Northing:           | 1,892,774.650 usft | Latitude:     | 36.201847000   |
|                      | +E/-W                                                                    | 0.00 ft | Easting:            | 2,739,770.503 usft | Longitude:    | -107.776801000 |
| Position Uncertainty |                                                                          | 0.00 ft | Wellhead Elevation: | ft                 | Ground Level: | 6,641.00 ft    |
| Grid Convergence:    |                                                                          |         |                     |                    |               |                |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Original Hole     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 11/11/2021         | 8.760                  | 62.824               | 49,258.00028308            |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | rev0                         |                   |                      |                      |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                | PLAN              | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |
|                          | 0.00                         | 0.00              | 0.00                 | 314.89               |

|                                 |                      |                                |                  |                |
|---------------------------------|----------------------|--------------------------------|------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>          |                                |                  |                |
| <b>Depth From (ft)</b>          | <b>Depth To (ft)</b> | <b>Survey (Wellbore)</b>       | <b>Tool Name</b> | <b>Remarks</b> |
| 1                               | 0.00                 | 13,289.84 rev0 (Original Hole) |                  |                |

|                            |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
|----------------------------|------------------------|--------------------|----------------------------|-------------------|-------------------|------------------------------|-----------------------------|----------------------------|----------------|--------------------|
| <b>Plan Sections</b>       |                        |                    |                            |                   |                   |                              |                             |                            |                |                    |
| <b>Measured Depth (ft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>      |
| 0.00                       | 0.00                   | 0.00               | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 1,750.00                   | 0.00                   | 0.00               | 1,750.00                   | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 2,204.17                   | 13.63                  | 208.30             | 2,199.90                   | -47.32            | -25.48            | 3.00                         | 3.00                        | -33.40                     | 208.301        |                    |
| 3,542.94                   | 13.63                  | 208.30             | 3,501.00                   | -325.00           | -175.00           | 0.00                         | 0.00                        | 0.00                       | 0.000          |                    |
| 4,469.76                   | 88.30                  | 312.13             | 4,097.98                   | -48.96            | -683.38           | 9.88                         | 8.06                        | 11.20                      | 103.847        |                    |
| 4,629.61                   | 89.54                  | 314.89             | 4,101.00                   | 61.07             | -799.27           | 1.89                         | 0.78                        | 1.73                       | 65.828         | W Lybrook 863H POE |
| 10,193.85                  | 89.54                  | 314.89             | 4,146.00                   | 3,988.11          | -4,740.98         | 0.00                         | 0.00                        | 0.00                       | 0.000          | W Lybrook 863H BHL |
| 13,289.84                  | 89.54                  | 314.89             | 4,171.04                   | 6,173.15          | -6,934.19         | 0.00                         | 0.00                        | 0.00                       | 0.000          | W Lybrook 863H LTP |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey                 |                 |             |                     |            |            |                     |                    |              |                |
|--------------------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|--------------|----------------|
| Measured Depth (ft)            | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude     | Longitude      |
| 0.00                           | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 100.00                         | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 200.00                         | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 231.00                         | 0.00            | 0.00        | 231.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Ojo Alamo</b>               |                 |             |                     |            |            |                     |                    |              |                |
| 291.00                         | 0.00            | 0.00        | 291.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Kirtland</b>                |                 |             |                     |            |            |                     |                    |              |                |
| 300.00                         | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 350.00                         | 0.00            | 0.00        | 350.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>13 3/8" Csg</b>             |                 |             |                     |            |            |                     |                    |              |                |
| 400.00                         | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 500.00                         | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 600.00                         | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 606.00                         | 0.00            | 0.00        | 606.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Fruitland</b>               |                 |             |                     |            |            |                     |                    |              |                |
| 700.00                         | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 800.00                         | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 900.00                         | 0.00            | 0.00        | 900.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 916.00                         | 0.00            | 0.00        | 916.00              | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Pictured Cliffs</b>         |                 |             |                     |            |            |                     |                    |              |                |
| 1,000.00                       | 0.00            | 0.00        | 1,000.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,031.00                       | 0.00            | 0.00        | 1,031.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Lewis</b>                   |                 |             |                     |            |            |                     |                    |              |                |
| 1,100.00                       | 0.00            | 0.00        | 1,100.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,200.00                       | 0.00            | 0.00        | 1,200.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,266.00                       | 0.00            | 0.00        | 1,266.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>Chacra_A</b>                |                 |             |                     |            |            |                     |                    |              |                |
| 1,300.00                       | 0.00            | 0.00        | 1,300.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,400.00                       | 0.00            | 0.00        | 1,400.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,500.00                       | 0.00            | 0.00        | 1,500.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,600.00                       | 0.00            | 0.00        | 1,600.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,700.00                       | 0.00            | 0.00        | 1,700.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| 1,750.00                       | 0.00            | 0.00        | 1,750.00            | 0.00       | 0.00       | 1,892,774.650       | 2,739,770.503      | 36.201847000 | -107.776801000 |
| <b>KOP Begin 3°/100' build</b> |                 |             |                     |            |            |                     |                    |              |                |
| 1,800.00                       | 1.50            | 208.30      | 1,799.99            | -0.58      | -0.31      | 1,892,774.074       | 2,739,770.193      | 36.201845417 | -107.776802053 |
| 1,900.00                       | 4.50            | 208.30      | 1,899.85            | -5.18      | -2.79      | 1,892,769.466       | 2,739,767.712      | 36.201832764 | -107.776810471 |
| 2,000.00                       | 7.50            | 208.30      | 1,999.29            | -14.39     | -7.75      | 1,892,760.264       | 2,739,762.757      | 36.201807492 | -107.776827285 |
| 2,100.00                       | 10.50           | 208.30      | 2,098.04            | -28.16     | -15.16     | 1,892,746.492       | 2,739,755.341      | 36.201769671 | -107.776852447 |
| 2,204.17                       | 13.63           | 208.30      | 2,199.90            | -47.32     | -25.48     | 1,892,727.327       | 2,739,745.021      | 36.201717039 | -107.776887463 |
| <b>Begin 13.63° tangent</b>    |                 |             |                     |            |            |                     |                    |              |                |
| 2,292.76                       | 13.63           | 208.30      | 2,286.00            | -65.70     | -35.38     | 1,892,708.952       | 2,739,735.127      | 36.201666578 | -107.776921035 |
| <b>Cliff House_Basal</b>       |                 |             |                     |            |            |                     |                    |              |                |
| 2,300.00                       | 13.63           | 208.30      | 2,293.03            | -67.20     | -36.18     | 1,892,707.451       | 2,739,734.319      | 36.201662455 | -107.776923778 |
| 2,313.34                       | 13.63           | 208.30      | 2,306.00            | -69.97     | -37.67     | 1,892,704.684       | 2,739,732.829      | 36.201654856 | -107.776928833 |
| <b>Menefee</b>                 |                 |             |                     |            |            |                     |                    |              |                |
| 2,400.00                       | 13.63           | 208.30      | 2,390.22            | -87.94     | -47.35     | 1,892,686.710       | 2,739,723.150      | 36.201605495 | -107.776961673 |
| 2,416.24                       | 13.63           | 208.30      | 2,406.00            | -91.31     | -49.17     | 1,892,683.342       | 2,739,721.337      | 36.201596246 | -107.776967826 |
| <b>9 5/8" Csg</b>              |                 |             |                     |            |            |                     |                    |              |                |
| 2,500.00                       | 13.63           | 208.30      | 2,487.41            | -108.68    | -58.52     | 1,892,665.969       | 2,739,711.982      | 36.201548535 | -107.776999568 |
| 2,600.00                       | 13.63           | 208.30      | 2,584.59            | -129.42    | -69.69     | 1,892,645.227       | 2,739,700.814      | 36.201491575 | -107.777037463 |
| 2,700.00                       | 13.63           | 208.30      | 2,681.78            | -150.16    | -80.86     | 1,892,624.486       | 2,739,689.646      | 36.201434615 | -107.777075358 |
| 2,800.00                       | 13.63           | 208.30      | 2,778.96            | -170.90    | -92.03     | 1,892,603.745       | 2,739,678.477      | 36.201377655 | -107.777113253 |
| 2,900.00                       | 13.63           | 208.30      | 2,876.15            | -191.65    | -103.19    | 1,892,583.004       | 2,739,667.309      | 36.201320695 | -107.777151148 |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned 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      |  |
| 3,000.00                    | 13.63              | 208.30         | 2,973.34                  | -212.39       | -114.36       | 1,892,562.263             | 2,739,656.141            | 36.201263734 | -107.777189043 |  |
| 3,100.00                    | 13.63              | 208.30         | 3,070.52                  | -233.13       | -125.53       | 1,892,541.522             | 2,739,644.972            | 36.201206774 | -107.777226938 |  |
| 3,200.00                    | 13.63              | 208.30         | 3,167.71                  | -253.87       | -136.70       | 1,892,520.781             | 2,739,633.804            | 36.201149814 | -107.777264833 |  |
| 3,300.00                    | 13.63              | 208.30         | 3,264.89                  | -274.61       | -147.87       | 1,892,500.040             | 2,739,622.636            | 36.201092854 | -107.777302727 |  |
| 3,316.57                    | 13.63              | 208.30         | 3,281.00                  | -278.05       | -149.72       | 1,892,496.602             | 2,739,620.785            | 36.201083413 | -107.777309008 |  |
| Point Lookout               |                    |                |                           |               |               |                           |                          |              |                |  |
| 3,400.00                    | 13.63              | 208.30         | 3,362.08                  | -295.35       | -159.04       | 1,892,479.299             | 2,739,611.468            | 36.201035894 | -107.777340622 |  |
| 3,500.00                    | 13.63              | 208.30         | 3,459.26                  | -316.09       | -170.20       | 1,892,458.558             | 2,739,600.299            | 36.200978934 | -107.777378517 |  |
| 3,542.94                    | 13.63              | 208.30         | 3,501.00                  | -325.00       | -175.00       | 1,892,449.651             | 2,739,595.503            | 36.200954472 | -107.777394790 |  |
| Begin 9.88°/100' build/turn |                    |                |                           |               |               |                           |                          |              |                |  |
| 3,550.00                    | 13.47              | 211.21         | 3,507.86                  | -326.43       | -175.82       | 1,892,448.216             | 2,739,594.683            | 36.200950532 | -107.777397572 |  |
| 3,584.05                    | 13.24              | 225.77         | 3,541.00                  | -332.55       | -180.67       | 1,892,442.100             | 2,739,589.832            | 36.200933739 | -107.777414029 |  |
| Mancos                      |                    |                |                           |               |               |                           |                          |              |                |  |
| 3,600.00                    | 13.42              | 232.56         | 3,556.52                  | -334.95       | -183.45       | 1,892,439.701             | 2,739,587.053            | 36.200927153 | -107.777423451 |  |
| 3,650.00                    | 15.05              | 251.64         | 3,605.01                  | -340.52       | -194.23       | 1,892,434.126             | 2,739,576.278            | 36.200911854 | -107.777459984 |  |
| 3,700.00                    | 17.91              | 265.91         | 3,652.97                  | -343.12       | -208.07       | 1,892,431.531             | 2,739,562.437            | 36.200904749 | -107.777506900 |  |
| 3,713.73                    | 18.85              | 269.04         | 3,666.00                  | -343.31       | -212.39       | 1,892,431.343             | 2,739,558.113            | 36.200904240 | -107.777521558 |  |
| Gallup (MNCS_A)             |                    |                |                           |               |               |                           |                          |              |                |  |
| 3,750.00                    | 21.52              | 275.97         | 3,700.04                  | -342.71       | -224.87       | 1,892,431.937             | 2,739,545.635            | 36.200905890 | -107.777563851 |  |
| 3,800.00                    | 25.56              | 283.11         | 3,745.88                  | -339.31       | -244.51       | 1,892,435.340             | 2,739,525.994            | 36.200915269 | -107.777630414 |  |
| 3,850.00                    | 29.86              | 288.37         | 3,790.14                  | -332.94       | -266.84       | 1,892,441.714             | 2,739,503.662            | 36.200932815 | -107.777706094 |  |
| 3,900.00                    | 34.31              | 292.40         | 3,832.50                  | -323.64       | -291.70       | 1,892,451.013             | 2,739,478.805            | 36.200958400 | -107.777790329 |  |
| 3,950.00                    | 38.87              | 295.59         | 3,872.64                  | -311.48       | -318.90       | 1,892,463.168             | 2,739,451.606            | 36.200991832 | -107.777882493 |  |
| 3,954.33                    | 39.27              | 295.84         | 3,876.00                  | -310.30       | -321.36       | 1,892,464.353             | 2,739,449.144            | 36.200995092 | -107.777890834 |  |
| MNCS_B                      |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,000.00                    | 43.51              | 298.20         | 3,910.25                  | -296.56       | -348.24       | 1,892,478.087             | 2,739,422.269            | 36.201032864 | -107.777981901 |  |
| 4,050.00                    | 48.19              | 300.40         | 3,945.07                  | -278.99       | -379.49       | 1,892,495.661             | 2,739,391.010            | 36.201081190 | -107.778087816 |  |
| 4,074.44                    | 50.49              | 301.36         | 3,961.00                  | -269.47       | -395.40       | 1,892,505.179             | 2,739,375.100            | 36.201107362 | -107.778141724 |  |
| MNCS_C                      |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,100.00                    | 52.91              | 302.30         | 3,976.84                  | -258.89       | -412.44       | 1,892,515.758             | 2,739,358.063            | 36.201136451 | -107.778199450 |  |
| 4,142.02                    | 56.89              | 303.72         | 4,001.00                  | -240.16       | -441.26       | 1,892,534.493             | 2,739,329.244            | 36.201187961 | -107.778297092 |  |
| MNCS_Cms                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,150.00                    | 57.65              | 303.97         | 4,005.31                  | -236.42       | -446.83       | 1,892,538.230             | 2,739,323.671            | 36.201198237 | -107.778315974 |  |
| 4,200.00                    | 62.42              | 305.48         | 4,030.28                  | -211.74       | -482.41       | 1,892,562.910             | 2,739,288.091            | 36.201266089 | -107.778436522 |  |
| 4,250.00                    | 67.19              | 306.86         | 4,051.56                  | -185.04       | -518.92       | 1,892,589.613             | 2,739,251.587            | 36.201339503 | -107.778560199 |  |
| 4,300.00                    | 71.99              | 308.15         | 4,068.99                  | -156.51       | -556.07       | 1,892,618.142             | 2,739,214.431            | 36.201417933 | -107.778686086 |  |
| 4,350.00                    | 76.78              | 309.37         | 4,082.45                  | -126.37       | -593.61       | 1,892,648.285             | 2,739,176.897            | 36.201500796 | -107.778813248 |  |
| 4,400.00                    | 81.59              | 310.54         | 4,091.83                  | -94.83        | -631.24       | 1,892,679.818             | 2,739,139.265            | 36.201587478 | -107.778940740 |  |
| 4,450.00                    | 86.40              | 311.68         | 4,097.06                  | -62.14        | -668.69       | 1,892,712.506             | 2,739,101.814            | 36.201677333 | -107.779067614 |  |
| 4,469.76                    | 88.30              | 312.13         | 4,097.98                  | -48.96        | -683.38       | 1,892,725.691             | 2,739,087.123            | 36.201713577 | -107.779117383 |  |
| Begin 1.89°/100' build/turn |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,500.00                    | 88.53              | 312.65         | 4,098.81                  | -28.58        | -705.70       | 1,892,746.070             | 2,739,064.801            | 36.201769594 | -107.779193007 |  |
| 4,600.00                    | 89.31              | 314.38         | 4,100.70                  | 40.26         | -778.20       | 1,892,814.913             | 2,738,992.302            | 36.201958825 | -107.779438610 |  |
| 4,629.61                    | 89.54              | 314.89         | 4,101.00                  | 61.07         | -799.27       | 1,892,835.720             | 2,738,971.230            | 36.202016015 | -107.779509992 |  |
| Begin 89.54° lateral        |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,700.00                    | 89.54              | 314.89         | 4,101.57                  | 110.75        | -849.14       | 1,892,885.395             | 2,738,921.369            | 36.202152554 | -107.779678901 |  |
| 4,800.00                    | 89.54              | 314.89         | 4,102.38                  | 181.32        | -919.98       | 1,892,955.972             | 2,738,850.529            | 36.202346541 | -107.779918880 |  |
| 4,900.00                    | 89.54              | 314.89         | 4,103.19                  | 251.90        | -990.82       | 1,893,026.548             | 2,738,779.689            | 36.202540528 | -107.780158859 |  |
| 5,000.00                    | 89.54              | 314.89         | 4,104.00                  | 322.47        | -1,061.66     | 1,893,097.124             | 2,738,708.849            | 36.202734515 | -107.780398840 |  |
| 5,100.00                    | 89.54              | 314.89         | 4,104.80                  | 393.05        | -1,132.50     | 1,893,167.700             | 2,738,638.009            | 36.202928501 | -107.780638822 |  |
| 5,200.00                    | 89.54              | 314.89         | 4,105.61                  | 463.63        | -1,203.34     | 1,893,238.277             | 2,738,567.169            | 36.203122487 | -107.780878806 |  |
| 5,300.00                    | 89.54              | 314.89         | 4,106.42                  | 534.20        | -1,274.18     | 1,893,308.853             | 2,738,496.329            | 36.203316472 | -107.781118790 |  |
| 5,400.00                    | 89.54              | 314.89         | 4,107.23                  | 604.78        | -1,345.02     | 1,893,379.429             | 2,738,425.490            | 36.203510456 | -107.781358776 |  |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned Survey      |                 |             |                     |            |            |                     |                    |              |                |  |
|---------------------|-----------------|-------------|---------------------|------------|------------|---------------------|--------------------|--------------|----------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude     | Longitude      |  |
| 5,500.00            | 89.54           | 314.89      | 4,108.04            | 675.36     | -1,415.86  | 1,893,450.006       | 2,738,354.650      | 36.203704440 | -107.781598763 |  |
| 5,600.00            | 89.54           | 314.89      | 4,108.85            | 745.93     | -1,486.70  | 1,893,520.582       | 2,738,283.810      | 36.203898424 | -107.781838751 |  |
| 5,700.00            | 89.54           | 314.89      | 4,109.66            | 816.51     | -1,557.54  | 1,893,591.158       | 2,738,212.970      | 36.204092407 | -107.782078740 |  |
| 5,800.00            | 89.54           | 314.89      | 4,110.47            | 887.09     | -1,628.38  | 1,893,661.734       | 2,738,142.130      | 36.204286390 | -107.782318731 |  |
| 5,900.00            | 89.54           | 314.89      | 4,111.27            | 957.66     | -1,699.22  | 1,893,732.311       | 2,738,071.290      | 36.204480372 | -107.782558722 |  |
| 6,000.00            | 89.54           | 314.89      | 4,112.08            | 1,028.24   | -1,770.06  | 1,893,802.887       | 2,738,000.450      | 36.204674354 | -107.782798715 |  |
| 6,100.00            | 89.54           | 314.89      | 4,112.89            | 1,098.82   | -1,840.90  | 1,893,873.463       | 2,737,929.610      | 36.204868335 | -107.783038709 |  |
| 6,200.00            | 89.54           | 314.89      | 4,113.70            | 1,169.39   | -1,911.74  | 1,893,944.039       | 2,737,858.770      | 36.205062316 | -107.783278704 |  |
| 6,300.00            | 89.54           | 314.89      | 4,114.51            | 1,239.97   | -1,982.58  | 1,894,014.616       | 2,737,787.930      | 36.205256296 | -107.783518701 |  |
| 6,400.00            | 89.54           | 314.89      | 4,115.32            | 1,310.54   | -2,053.42  | 1,894,085.192       | 2,737,717.090      | 36.205450276 | -107.783758698 |  |
| 6,500.00            | 89.54           | 314.89      | 4,116.13            | 1,381.12   | -2,124.26  | 1,894,155.768       | 2,737,646.250      | 36.205644255 | -107.783998697 |  |
| 6,600.00            | 89.54           | 314.89      | 4,116.94            | 1,451.70   | -2,195.10  | 1,894,226.344       | 2,737,575.410      | 36.205838234 | -107.784238697 |  |
| 6,700.00            | 89.54           | 314.89      | 4,117.74            | 1,522.27   | -2,265.94  | 1,894,296.921       | 2,737,504.571      | 36.206032212 | -107.784478698 |  |
| 6,800.00            | 89.54           | 314.89      | 4,118.55            | 1,592.85   | -2,336.78  | 1,894,367.497       | 2,737,433.731      | 36.206226190 | -107.784718700 |  |
| 6,900.00            | 89.54           | 314.89      | 4,119.36            | 1,663.43   | -2,407.62  | 1,894,438.073       | 2,737,362.891      | 36.206420167 | -107.784958704 |  |
| 7,000.00            | 89.54           | 314.89      | 4,120.17            | 1,734.00   | -2,478.46  | 1,894,508.650       | 2,737,292.051      | 36.206614144 | -107.785198708 |  |
| 7,100.00            | 89.54           | 314.89      | 4,120.98            | 1,804.58   | -2,549.30  | 1,894,579.226       | 2,737,221.211      | 36.206808120 | -107.785438714 |  |
| 7,200.00            | 89.54           | 314.89      | 4,121.79            | 1,875.16   | -2,620.14  | 1,894,649.802       | 2,737,150.371      | 36.207002096 | -107.785678721 |  |
| 7,300.00            | 89.54           | 314.89      | 4,122.60            | 1,945.73   | -2,690.98  | 1,894,720.378       | 2,737,079.531      | 36.207196072 | -107.785918729 |  |
| 7,400.00            | 89.54           | 314.89      | 4,123.41            | 2,016.31   | -2,761.82  | 1,894,790.955       | 2,737,008.691      | 36.207390046 | -107.786158739 |  |
| 7,500.00            | 89.54           | 314.89      | 4,124.21            | 2,086.89   | -2,832.66  | 1,894,861.531       | 2,736,937.851      | 36.207584021 | -107.786398749 |  |
| 7,600.00            | 89.54           | 314.89      | 4,125.02            | 2,157.46   | -2,903.50  | 1,894,932.107       | 2,736,867.011      | 36.207777995 | -107.786638761 |  |
| 7,700.00            | 89.54           | 314.89      | 4,125.83            | 2,228.04   | -2,974.34  | 1,895,002.683       | 2,736,796.171      | 36.207971968 | -107.786878774 |  |
| 7,800.00            | 89.54           | 314.89      | 4,126.64            | 2,298.61   | -3,045.18  | 1,895,073.260       | 2,736,725.331      | 36.208165941 | -107.787118788 |  |
| 7,900.00            | 89.54           | 314.89      | 4,127.45            | 2,369.19   | -3,116.02  | 1,895,143.836       | 2,736,654.491      | 36.208359914 | -107.787358804 |  |
| 8,000.00            | 89.54           | 314.89      | 4,128.26            | 2,439.77   | -3,186.86  | 1,895,214.412       | 2,736,583.651      | 36.208553886 | -107.787598820 |  |
| 8,100.00            | 89.54           | 314.89      | 4,129.07            | 2,510.34   | -3,257.70  | 1,895,284.988       | 2,736,512.812      | 36.208747857 | -107.787838838 |  |
| 8,200.00            | 89.54           | 314.89      | 4,129.88            | 2,580.92   | -3,328.54  | 1,895,355.565       | 2,736,441.972      | 36.208941828 | -107.788078857 |  |
| 8,300.00            | 89.54           | 314.89      | 4,130.68            | 2,651.50   | -3,399.38  | 1,895,426.141       | 2,736,371.132      | 36.209135799 | -107.788318877 |  |
| 8,400.00            | 89.54           | 314.89      | 4,131.49            | 2,722.07   | -3,470.22  | 1,895,496.717       | 2,736,300.292      | 36.209329769 | -107.788558898 |  |
| 8,500.00            | 89.54           | 314.89      | 4,132.30            | 2,792.65   | -3,541.06  | 1,895,567.294       | 2,736,229.452      | 36.209523738 | -107.788798920 |  |
| 8,600.00            | 89.54           | 314.89      | 4,133.11            | 2,863.23   | -3,611.90  | 1,895,637.870       | 2,736,158.612      | 36.209717707 | -107.789038944 |  |
| 8,700.00            | 89.54           | 314.89      | 4,133.92            | 2,933.80   | -3,682.74  | 1,895,708.446       | 2,736,087.772      | 36.209911676 | -107.789278969 |  |
| 8,800.00            | 89.54           | 314.89      | 4,134.73            | 3,004.38   | -3,753.58  | 1,895,779.022       | 2,736,016.932      | 36.210105644 | -107.789518995 |  |
| 8,900.00            | 89.54           | 314.89      | 4,135.54            | 3,074.96   | -3,824.42  | 1,895,849.599       | 2,735,946.092      | 36.210299611 | -107.789759021 |  |
| 9,000.00            | 89.54           | 314.89      | 4,136.35            | 3,145.53   | -3,895.26  | 1,895,920.175       | 2,735,875.252      | 36.210493578 | -107.789999049 |  |
| 9,100.00            | 89.54           | 314.89      | 4,137.15            | 3,216.11   | -3,966.10  | 1,895,990.751       | 2,735,804.412      | 36.210687545 | -107.790239079 |  |
| 9,200.00            | 89.54           | 314.89      | 4,137.96            | 3,286.68   | -4,036.94  | 1,896,061.327       | 2,735,733.572      | 36.210881511 | -107.790479109 |  |
| 9,300.00            | 89.54           | 314.89      | 4,138.77            | 3,357.26   | -4,107.78  | 1,896,131.904       | 2,735,662.732      | 36.211075477 | -107.790719141 |  |
| 9,400.00            | 89.54           | 314.89      | 4,139.58            | 3,427.84   | -4,178.62  | 1,896,202.480       | 2,735,591.892      | 36.211269442 | -107.790959174 |  |
| 9,500.00            | 89.54           | 314.89      | 4,140.39            | 3,498.41   | -4,249.46  | 1,896,273.056       | 2,735,521.053      | 36.211463407 | -107.791199209 |  |
| 9,600.00            | 89.54           | 314.89      | 4,141.20            | 3,568.99   | -4,320.30  | 1,896,343.633       | 2,735,450.213      | 36.211657371 | -107.791439244 |  |
| 9,700.00            | 89.54           | 314.89      | 4,142.01            | 3,639.57   | -4,391.14  | 1,896,414.209       | 2,735,379.373      | 36.211851335 | -107.791679281 |  |
| 9,800.00            | 89.54           | 314.89      | 4,142.82            | 3,710.14   | -4,461.98  | 1,896,484.785       | 2,735,308.533      | 36.212045298 | -107.791919319 |  |
| 9,900.00            | 89.54           | 314.89      | 4,143.62            | 3,780.72   | -4,532.82  | 1,896,555.361       | 2,735,237.693      | 36.212239260 | -107.792159358 |  |
| 10,000.00           | 89.54           | 314.89      | 4,144.43            | 3,851.30   | -4,603.66  | 1,896,625.938       | 2,735,166.853      | 36.212433223 | -107.792399398 |  |
| 10,100.00           | 89.54           | 314.89      | 4,145.24            | 3,921.87   | -4,674.50  | 1,896,696.514       | 2,735,096.013      | 36.212627184 | -107.792639439 |  |
| 10,193.85           | 89.54           | 314.89      | 4,146.00            | 3,988.11   | -4,740.98  | 1,896,767.750       | 2,735,029.530      | 36.212809217 | -107.792864719 |  |
| 10,200.00           | 89.54           | 314.89      | 4,146.05            | 3,992.45   | -4,745.34  | 1,896,767.090       | 2,735,025.173      | 36.212821146 | -107.792879482 |  |
| 10,300.00           | 89.54           | 314.89      | 4,146.86            | 4,063.02   | -4,816.18  | 1,896,837.666       | 2,734,954.333      | 36.213015106 | -107.793119526 |  |
| 10,400.00           | 89.54           | 314.89      | 4,147.67            | 4,133.60   | -4,887.02  | 1,896,908.243       | 2,734,883.493      | 36.213209067 | -107.793359570 |  |
| 10,500.00           | 89.54           | 314.89      | 4,148.48            | 4,204.18   | -4,957.86  | 1,896,978.819       | 2,734,812.653      | 36.213403026 | -107.793599617 |  |
| 10,600.00           | 89.54           | 314.89      | 4,149.29            | 4,274.75   | -5,028.70  | 1,897,049.395       | 2,734,741.813      | 36.213596986 | -107.793839664 |  |
| 10,700.00           | 89.54           | 314.89      | 4,150.09            | 4,345.33   | -5,099.54  | 1,897,119.971       | 2,734,670.973      | 36.213790945 | -107.794079712 |  |
| 10,800.00           | 89.54           | 314.89      | 4,150.90            | 4,415.91   | -5,170.38  | 1,897,190.548       | 2,734,600.133      | 36.213984903 | -107.794319762 |  |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Planned 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      |  |
| 10,900.00                       | 89.54              | 314.89         | 4,151.71                  | 4,486.48      | -5,241.22     | 1,897,261.124             | 2,734,529.294            | 36.214178861 | -107.794559813 |  |
| 11,000.00                       | 89.54              | 314.89         | 4,152.52                  | 4,557.06      | -5,312.06     | 1,897,331.700             | 2,734,458.454            | 36.214372818 | -107.794799865 |  |
| 11,100.00                       | 89.54              | 314.89         | 4,153.33                  | 4,627.64      | -5,382.90     | 1,897,402.277             | 2,734,387.614            | 36.214566775 | -107.795039918 |  |
| 11,200.00                       | 89.54              | 314.89         | 4,154.14                  | 4,698.21      | -5,453.74     | 1,897,472.853             | 2,734,316.774            | 36.214760731 | -107.795279973 |  |
| 11,300.00                       | 89.54              | 314.89         | 4,154.95                  | 4,768.79      | -5,524.58     | 1,897,543.429             | 2,734,245.934            | 36.214954687 | -107.795520028 |  |
| 11,400.00                       | 89.54              | 314.89         | 4,155.76                  | 4,839.37      | -5,595.42     | 1,897,614.005             | 2,734,175.094            | 36.215148643 | -107.795760085 |  |
| 11,500.00                       | 89.54              | 314.89         | 4,156.56                  | 4,909.94      | -5,666.26     | 1,897,684.582             | 2,734,104.254            | 36.215342598 | -107.796000143 |  |
| 11,600.00                       | 89.54              | 314.89         | 4,157.37                  | 4,980.52      | -5,737.10     | 1,897,755.158             | 2,734,033.414            | 36.215536552 | -107.796240202 |  |
| 11,700.00                       | 89.54              | 314.89         | 4,158.18                  | 5,051.09      | -5,807.94     | 1,897,825.734             | 2,733,962.574            | 36.215730506 | -107.796480262 |  |
| 11,800.00                       | 89.54              | 314.89         | 4,158.99                  | 5,121.67      | -5,878.78     | 1,897,896.310             | 2,733,891.734            | 36.215924459 | -107.796720324 |  |
| 11,900.00                       | 89.54              | 314.89         | 4,159.80                  | 5,192.25      | -5,949.62     | 1,897,966.887             | 2,733,820.894            | 36.216118412 | -107.796960387 |  |
| 12,000.00                       | 89.54              | 314.89         | 4,160.61                  | 5,262.82      | -6,020.46     | 1,898,037.463             | 2,733,750.054            | 36.216312365 | -107.797200451 |  |
| 12,100.00                       | 89.54              | 314.89         | 4,161.42                  | 5,333.40      | -6,091.30     | 1,898,108.039             | 2,733,679.214            | 36.216506317 | -107.797440516 |  |
| 12,200.00                       | 89.54              | 314.89         | 4,162.23                  | 5,403.98      | -6,162.14     | 1,898,178.615             | 2,733,608.375            | 36.216700268 | -107.797680582 |  |
| 12,300.00                       | 89.54              | 314.89         | 4,163.03                  | 5,474.55      | -6,232.98     | 1,898,249.192             | 2,733,537.535            | 36.216894219 | -107.797920649 |  |
| 12,400.00                       | 89.54              | 314.89         | 4,163.84                  | 5,545.13      | -6,303.82     | 1,898,319.768             | 2,733,466.695            | 36.217088170 | -107.798160718 |  |
| 12,500.00                       | 89.54              | 314.89         | 4,164.65                  | 5,615.71      | -6,374.66     | 1,898,390.344             | 2,733,395.855            | 36.217282120 | -107.798400788 |  |
| 12,600.00                       | 89.54              | 314.89         | 4,165.46                  | 5,686.28      | -6,445.50     | 1,898,460.921             | 2,733,325.015            | 36.217476070 | -107.798640859 |  |
| 12,700.00                       | 89.54              | 314.89         | 4,166.27                  | 5,756.86      | -6,516.34     | 1,898,531.497             | 2,733,254.175            | 36.217670019 | -107.798880931 |  |
| 12,800.00                       | 89.54              | 314.89         | 4,167.08                  | 5,827.44      | -6,587.18     | 1,898,602.073             | 2,733,183.335            | 36.217863967 | -107.799121004 |  |
| 12,900.00                       | 89.54              | 314.89         | 4,167.89                  | 5,898.01      | -6,658.02     | 1,898,672.649             | 2,733,112.495            | 36.218057915 | -107.799361079 |  |
| 13,000.00                       | 89.54              | 314.89         | 4,168.70                  | 5,968.59      | -6,728.86     | 1,898,743.226             | 2,733,041.655            | 36.218251863 | -107.799601155 |  |
| 13,100.00                       | 89.54              | 314.89         | 4,169.50                  | 6,039.16      | -6,799.70     | 1,898,813.802             | 2,732,970.815            | 36.218445810 | -107.799841232 |  |
| 13,200.00                       | 89.54              | 314.89         | 4,170.31                  | 6,109.74      | -6,870.54     | 1,898,884.378             | 2,732,899.975            | 36.218639757 | -107.800081310 |  |
| 13,289.84                       | 89.54              | 314.89         | 4,171.04                  | 6,173.15      | -6,934.19     | 1,898,947.785             | 2,732,836.332            | 36.218814000 | -107.800297000 |  |
| PBHL/TD 13289.84 MD 4171.04 TVD |                    |                |                           |               |               |                           |                          |              |                |  |

| Design Targets                                                                                                               |               |              |          |            |            |                 |                |              |                |  |
|------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|----------|------------|------------|-----------------|----------------|--------------|----------------|--|
| Target Name<br>- hit/miss target<br>- Shape                                                                                  | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude     | Longitude      |  |
| W Lybrook 863H POE<br>- plan hits target center<br>- Point                                                                   | 0.00          | 0.01         | 4,101.00 | 61.07      | -799.27    | 1,892,835.720   | 2,738,971.230  | 36.202016015 | -107.779509992 |  |
| W Lybrook 863H BHL<br>- plan misses target center by 0.11ft at 10193.85ft MD (4146.00 TVD, 3988.11 N, -4740.98 E)<br>- Point | 0.00          | 0.01         | 4,146.00 | 3,988.03   | -4,741.06  | 1,896,762.670   | 2,735,029.450  | 36.212808998 | -107.792864989 |  |
| W Lybrook 863H LTP 22<br>- plan hits target center<br>- Point                                                                | 0.00          | 0.01         | 4,171.04 | 6,173.15   | -6,934.19  | 1,898,947.785   | 2,732,836.332  | 36.218814000 | -107.800297000 |  |

| Casing Points       |                     |             |  |  |  |                     |                   |  |  |  |
|---------------------|---------------------|-------------|--|--|--|---------------------|-------------------|--|--|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name        |  |  |  | Casing Diameter (") | Hole Diameter (") |  |  |  |
| 350.00              | 350.00              | 13 3/8" Csg |  |  |  | 13-3/8              | 17-1/2            |  |  |  |
| 2,416.24            | 2,406.00            | 9 5/8" Csg  |  |  |  | 9-5/8               | 12-1/4            |  |  |  |



## Planning Report - Geographic

|                  |                                        |                                     |                              |
|------------------|----------------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | DB_Dec2220_v16                         | <b>Local Co-ordinate Reference:</b> | Well W Lybrook Unit No. 863H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6641+25 @ 6666.00ft      |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6641+25 @ 6666.00ft      |
| <b>Site:</b>     | W Lybrook Unit                         | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | W Lybrook Unit No. 863H                | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | Original Hole                          |                                     |                              |
| <b>Design:</b>   | rev0                                   |                                     |                              |

| Formations          |                     |                   |           |         |                   |  |
|---------------------|---------------------|-------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name              | Lithology | Dip (°) | Dip Direction (°) |  |
| 231.00              | 231.00              | Ojo Alamo         |           |         |                   |  |
| 291.00              | 291.00              | Kirtland          |           |         |                   |  |
| 606.00              | 606.00              | Fruitland         |           |         |                   |  |
| 916.00              | 916.00              | Pictured Cliffs   |           |         |                   |  |
| 1,031.00            | 1,031.00            | Lewis             |           |         |                   |  |
| 1,266.00            | 1,266.00            | Chacra_A          |           |         |                   |  |
| 2,292.76            | 2,286.00            | Cliff House_Basal |           |         |                   |  |
| 2,313.34            | 2,306.00            | Menefee           |           |         |                   |  |
| 3,316.57            | 3,281.00            | Point Lookout     |           |         |                   |  |
| 3,584.05            | 3,541.00            | Mancos            |           |         |                   |  |
| 3,713.73            | 3,666.00            | Gallup (MNCS_A)   |           |         |                   |  |
| 3,954.33            | 3,876.00            | MNCS_B            |           |         |                   |  |
| 4,074.44            | 3,961.00            | MNCS_C            |           |         |                   |  |
| 4,142.02            | 4,001.00            | MNCS_Cms          |           |         |                   |  |

| Plan Annotations    |                     |                   |            |                                 |  |
|---------------------|---------------------|-------------------|------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                 |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                         |  |
| 1,750.00            | 1,750.00            | 0.00              | 0.00       | KOP Begin 3°/100' build         |  |
| 2,204.17            | 2,199.90            | -47.32            | -25.48     | Begin 13.63° tangent            |  |
| 3,542.94            | 3,501.00            | -325.00           | -175.00    | Begin 9.88°/100' build/turn     |  |
| 4,469.76            | 4,097.98            | -48.96            | -683.38    | Begin 1.89°/100' build/turn     |  |
| 4,629.61            | 4,101.00            | 61.07             | -799.27    | Begin 89.54° lateral            |  |
| 10,193.85           | 4,146.00            | 3,988.11          | -4,740.98  |                                 |  |
| 13,289.84           | 4,171.04            | 6,173.15          | -6,934.19  | PBHL/TD 13289.84 MD 4171.04 TVD |  |



**ENDURING RESOURCES IV, LLC**  
**1050 SEVENTEENTH STREET, SUITE 2500**  
**DENVER, COLORADO 80265**

**DRILLING PLAN:** *Drill, complete, and equip single lateral in the Mancos-Cms formation*

**WELL INFORMATION:**

**Name:** W LYBROOK UNIT 863H

**API Number:** 30-045-38189

**AFE Number:** not yet assigned

**ER Well Number:** not yet assigned

**State:** New Mexico

**County:** San Juan

**Surface Elevation:** 6,641 ft ASL (GL) 6,666 ft ASL (KB)

**Surface Location:** 27-23N-09W Sec-Twn-Rng 1,201 ft FNL 2,446 ft FWL

36.201847 ° N latitude 107.776801 ° W longitude (NAD 83)

**BH Location:** 21-23N-09W Sec-Twn-Rng 223 ft FNL 877 ft FWL

36.218814 ° N latitude 107.800297 ° W longitude (NAD 83)

**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 onto access road for W Lybrook Unit 720H pad for 0.6 miles to fork, Left (West) onto access road for W Lybrook Unit 726H pad for 0.7 miles to fork, Left (West) for 1.4 miles to fork. Left (Southeast) for 0.6 miles to W Lybrook Unit 730H Pad (wells: 730H, 763H, 830H, 861H, 863H).

**GEOLOGIC AND RESERVOIR INFORMATION:**

| <b>Prognosis:</b> | <b>Formation Tops</b> | <b>TVD (ft ASL)</b> | <b>TVD (ft KB)</b> | <b>MD (ft KB)</b> | <b>O / G / W</b> | <b>Pressure</b>    |
|-------------------|-----------------------|---------------------|--------------------|-------------------|------------------|--------------------|
|                   | Ojo Alamo             | 6,435               | 231                | 231               | W                | normal             |
|                   | Kirtland              | 6,375               | 291                | 291               | W                | normal             |
|                   | Fruitland             | 6,060               | 606                | 606               | G, W             | sub                |
|                   | Pictured Cliffs       | 5,750               | 916                | 916               | G, W             | sub                |
|                   | Lewis                 | 5,635               | 1,031              | 1,031             | G, W             | normal             |
|                   | Chacra                | 5,400               | 1,266              | 1,266             | G, W             | normal             |
|                   | Cliff House           | 4,380               | 2,286              | 2,293             | G, W             | sub                |
|                   | Menefee               | 4,360               | 2,306              | 2,313             | G, W             | normal             |
|                   | Point Lookout         | 3,385               | 3,281              | 3,317             | G, W             | normal             |
|                   | Mancos                | 3,125               | 3,541              | 3,584             | O,G              | sub (~0.38)        |
|                   | Gallup (MNCS_A)       | 3,000               | 3,666              | 3,714             | O,G              | sub (~0.38)        |
|                   | MNCS_B                | 2,790               | 3,876              | 3,954             | O,G              | sub (~0.38)        |
|                   | MNCS_C                | 2,705               | 3,961              | 4,074             | O,G              | sub (~0.38)        |
|                   | MNCS_Cms              | 2,665               | 4,001              | 4,142             | O,G              | sub (~0.38)        |
|                   | <b>P.O.E. TARGET</b>  | <b>2,565</b>        | <b>4,101</b>       | <b>4,630</b>      | <b>O,G</b>       | <b>sub (~0.38)</b> |
|                   | <b>PROJECTED TD</b>   | <b>2,520</b>        | <b>4,146</b>       | <b>13,289</b>     | <b>O,G</b>       | <b>sub (~0.38)</b> |

**Surface:** Nacimiento

**Oil & Gas Zones:** Several gas bearing zones will be encountered; target formation is the Gallup

**Pressure:** Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

**Maximum anticipated BH pressure, assuming maximum pressure gradient: 1,790 psi**

**Maximum anticipated surface pressure, assuming partially evacuated hole: 880 psi**

**Temperature:** Maximum anticipated BHT is 125° F or less

## H<sub>2</sub>S INFORMATION:

**H<sub>2</sub>S Zones:** Encountering hydrogen-sulfide bearing zones is **NOT** anticipated.

**Safety:** Sensors and alarms will be placed in the substructure, on the rig floor, above the pits, and at the shakers.

## LOGGING, CORING, AND TESTING:

**Mud Logs:** None planned; remote geo-steering from drill out of 9-5/8" casing to TD; gas detection from drillout of 13-3/8" casing to TD.

**MWD / LWD:** Gamma Ray from drillout of 13-3/8" casing to TD

**Open Hole Logs:** None planned

**Testing:** None planned

**Coring:** None planned

**Cased Hole Logs:** CBL on 5-1/2" casing from deepest free-fall depth to surface

## DRILLING RIG INFORMATION:

**Contractor:** Aztec

**Rig No.:** 1000

**Draw Works:** E80 AC 1,500 hp

**Mast:** Hyduke Triple (136 ft, 600,000 lbs, 10 lines)

**Top Drive:** NOV IDS-350PE (350 ton)

**Prime Movers:** 4 - GE Jenbacher Natural Gas Generator

**Pumps:** 2 - RS F-1600 (7,500 psi)

**BOPE 1:** Cameron single & double gate rams (13-5/8", 3,000 psi)

**BOPE 2:** Cameron annular (13-5/8", 5,000 psi)

**Choke:** Cameron (4", 10,000 psi)

**KB-GL (ft):** 25

**NOTE:** A different rig may be used to drill the well depending on rig availability

## BOPE REQUIREMENTS:

*See attached diagram for details regarding BOPE specifications and configuration.*

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

**FLUIDS AND SOLIDS CONTROL PROGRAM:**

**Fluid Measurement:** Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

**Closed-Loop System:** A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimize the amount of fluids and solids that require disposal.

**Fluid Disposal:** Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

**Solids Disposal:** Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

**Fluid Program:** See "Detailed Drilling Plan" section for specifics.

**DETAILED DRILLING PLAN:**

**SURFACE:** *Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.*

|            |    |              |                      |        |
|------------|----|--------------|----------------------|--------|
| 0 ft (MD)  | to | 350 ft (MD)  | Hole Section Length: | 350 ft |
| 0 ft (TVD) | to | 350 ft (TVD) | Casing Required:     | 350 ft |

*Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.*

| Fluid: | Type        | MW (ppg) | FL (mL/30 min) | PV (cp) | YP (lb/100 sqft) | pH  | Comments |
|--------|-------------|----------|----------------|---------|------------------|-----|----------|
|        | Fresh Water | 8.4      | N/C            | 2 - 8   | 2 - 12           | 9.0 | Spud mud |

**Hole Size:** 17-1/2"

**Bit / Motor:** Mill Tooth or PDC, no motor

**MWD / Survey:** No MWD, deviation survey

**Logging:** None

| Casing Specs: |        | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---------------|--------|------------|-------|-------|----------------|-------------|------------------|------------------|
| Specs         | 13.375 | 54.5       | J-55  | BTC   | 1,130          | 2,730       | 853,000          | 909,000          |
| Loading       |        |            |       |       | 153            | 525         | 116,634          | 116,634          |
| Min. S.F.     |        |            |       |       | 7.39           | 5.20        | 7.31             | 7.79             |

*Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient*

*Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient*

*Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull*

**MU Torque (ft lbs):** Minimum: N/A Optimum: N/A Maximum: N/A

*Make-up as per API Buttress Connection running procedure.*

**Casing Summary:** Float shoe, 1 jt casing, float collar, casing to surface

**Centralizers:** 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

| Cement: | Type    | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | Hole Cap. (cuft/ft) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) |
|---------|---------|--------------|-----------------|----------------|---------------------|----------|---------------------|----------------|
|         | Class G | 15.8         | 1.174           | 5.15           | 0.6946              | 100%     | 0                   | 414            |

*Calculated cement volumes assume gauge hole and the excess noted in table*

*Halliburton HALCEM surface cementing blend*

**Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.**

**INTERMEDIATE:** Drill as per directional plan to casing setting depth, run casing, cement casing to surface.

|              |    |                |                      |          |
|--------------|----|----------------|----------------------|----------|
| 350 ft (MD)  | to | 2,416 ft (MD)  | Hole Section Length: | 2,066 ft |
| 350 ft (TVD) | to | 2,406 ft (TVD) | Casing Required:     | 2,416 ft |

| Fluid: | Type       | MW (ppg)  | FL (mL/30 min) | PV (cp) | YP (lb/100 sqft) | pH        | Comments |
|--------|------------|-----------|----------------|---------|------------------|-----------|----------|
|        | LSND (KCI) | 8.8 - 9.5 | 20             | 8 - 14  | 8 - 14           | 9.0 - 9.5 |          |

**Hole Size:** 12-1/4"**Bit / Motor:** PDC w/mud motor**MWD / Survey:** MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional**Logging:** None**Pressure Test:** NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500 psi for 30 minutes.

| Casing Specs: | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---------------|------------|-------|-------|----------------|-------------|------------------|------------------|
| Specs         | 9.625      | 36.0  | J-55  | LTC            | 2,020       | 3,520            | 564,000          |
| Loading       |            |       |       |                | 1,051       | 1,018            | 175,847          |
| Min. S.F.     |            |       |       |                | 1.92        | 3.46             | 3.21             |

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

production hole and 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

**MU Torque (ft lbs):** Minimum: 3,400 Optimum: 4,530 Maximum: 5,660**Casing Summary:** Float shoe, 1 jt casing, float collar, casing to surface**Centralizers:** 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

| Cement: | Type        | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) |
|---------|-------------|--------------|-----------------|----------------|----------|---------------------|----------------|
| Lead    | G:POZ Blend | 12.3         | 1.987           | 10.16          | 70%      | 0                   | 528            |
| Tail    | Class G     | 15.8         | 1.148           | 4.98           | 20%      | 1,916               | 164            |

Annular Capacity 0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton ECONOCHEM &amp; HALCEM cementing blend

Notify NMOCD &amp; BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

**PRODUCTION:** Drill to TD following directional plan, run casing, cement casing to surface.

|                |    |                |                      |           |
|----------------|----|----------------|----------------------|-----------|
| 2,416 ft (MD)  | to | 13,289 ft (MD) | Hole Section Length: | 10,873 ft |
| 2,406 ft (TVD) | to | 4,146 ft (TVD) | Casing Required:     | 13,289 ft |

|                                   |               |                |
|-----------------------------------|---------------|----------------|
| Estimated KOP:                    | 3,543 ft (MD) | 3,501 ft (TVD) |
| Estimated Landing Point (P.O.E.): | 4,630 ft (MD) | 4,101 ft (TVD) |
| Estimated Lateral Length:         | 8,659 ft (MD) |                |

| Fluid: | Type      | MW (ppg)  | FL (mL/30') | PV (cp) | YP (lb/100 sqft) | pH        | Comments           |
|--------|-----------|-----------|-------------|---------|------------------|-----------|--------------------|
|        | LSND (FW) | 8.8 - 9.5 | 20          | 8 - 14  | 8 - 14           | 9.0 - 9.5 | OBM as contingency |

**Hole Size:** 8-1/2"**Bit / Motor:** PDC w/mud motor**MWD / Survey:** MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100' minimum before KOP and after Landing Point)**Logging:** GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs**Pressure Test:** NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

|                      |           |            |       |       |                |             |                  |                  |
|----------------------|-----------|------------|-------|-------|----------------|-------------|------------------|------------------|
| <b>Casing Specs:</b> | Size (in) | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
| Specs                | 5.500     | 17.0       | P-110 | LTC   | 7,460          | 10,640      | 546,000          | 445,000          |
| Loading              |           |            |       |       | 2,048          | 8,888       | 294,942          | 294,942          |
| Min. S.F.            |           |            |       |       | <b>3.64</b>    | <b>1.20</b> | <b>1.85</b>      | <b>1.51</b>      |

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull

**MU Torque (ft lbs):** Minimum: 3,470 Optimum: 4,620 Maximum: 5,780

**Casing Summary:** Float shoe, 1 jt casing, float collar, 1 jt casing, float collar, 1 jt casing, toe-initiation sleeve, 20' marker joint, toe-initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every 2,000', floatation sub, casing to surface. The bottom toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the the azimuth of the well.

**Centralizers:** Centralizer count and placement may be adjusted based on well conditions and as-drilled surveys.

Lateral: 1 centralizer per joint

Curve: 1 centralizer per joint from landing point to KOP

KOP to surf: 1 centralizer per 2 joints

|                |             |              |                 |                |          |                     |                |
|----------------|-------------|--------------|-----------------|----------------|----------|---------------------|----------------|
| <b>Cement:</b> | Type        | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) |
| Lead           | G:POZ blend | 12.4         | 1.907           | 9.981          | 50%      | 0                   | 745            |
| Tail           | G:POZ blend | 13.3         | 1.360           | 5.999          | 10%      | 3,714               | 1,774          |

Annular Capacity 0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus

0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus

Calculated cement volumes assume gauge hole and the excess noted in table

Halliburton ECONOCEM & EXTENDACEM cementing blend

**Notify NMOCD & BLM if cement is not circulated to surface.**

**Note:** This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. Neither the bottom toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.

**FINISH WELL:** ND BOP, cap well, RDMO.

#### COMPLETION AND PRODUCTION PLAN:

**Frac:** 30 plug-and-perf stages with 180,000 bbls slickwater fluid and 8,000,000 lbs of proppant (estimated)

**Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)

**Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

#### ESTIMATED START DATES:

**Drilling:** TBD

**Completion:** TBD

**Production:** TBD

**Prepared by:** Alec Bridge 1/21/2020

**Updated by:** Alec Bridge 11/8/2021 - updated BHL and directional plan for combination unit (LL increase 3,095')

**WELL NAME: W LYBROOK UNIT 863H****OBJECTIVE:** Drill, complete, and equip single lateral in the Mancos-Cms formation**API Number:** 30-045-38189**AFE Number:** not yet assigned**ER Well Number:** not yet assigned**State:** New Mexico**County:** San Juan**Surface Elev.:** 6,641 ft ASL (GL) 6,666 ft ASL (KB)**Surface Location:** 27-23N-09W Sec-Twn- Rng 1,201 ft FNL 2,446 ft FWL**BH Location:** 21-23N-09W Sec-Twn- Rng 223 ft FNL 877 ft FWL**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to fork, Right (Southwest) on CR #7890 for 0.5 miles to fork, Right (West) exiting CR #7890 onto access road for W Lybrook Unit 720H pad for 0.6 miles to fork, Left (West) onto access road for W Lybrook Unit 726H pad for 0.7 miles to fork, Left (West) for 1.4 miles to fork. Left (Southeast) for 0.6 miles to W Lybrook Unit 730H Pad (wells: 730H, 763H, 830H, 861H, 863H).

| QUICK REFERENCE |             |
|-----------------|-------------|
| Sur TD (MD)     | 350 ft      |
| Int TD (MD)     | 2,416 ft    |
| KOP (MD)        | 3,543 ft    |
| KOP (TVD)       | 3,501 ft    |
| Target (TVD)    | 4,101 ft    |
| Curve BUR       | 10 °/100 ft |
| POE (MD)        | 4,630 ft    |
| TD (MD)         | 13,289 ft   |
| Lat Len (ft)    | 8,659 ft    |

**WELL CONSTRUCTION SUMMARY:**

|              | Hole (in) | TD MD (ft) | Csg (in) | Csg (lb/ft) | Csg (grade) | Csg (conn) | Csg Top (ft) | Csg Bot (ft) |
|--------------|-----------|------------|----------|-------------|-------------|------------|--------------|--------------|
| Surface      | 17.500    | 350        | 13.375   | 54.5        | J-55        | BTC        | 0            | 350          |
| Intermediate | 12.250    | 2,416      | 9.625    | 36.0        | J-55        | LTC        | 0            | 2,416        |
| Production   | 8.500     | 13,289     | 5.500    | 17.0        | P-110       | LTC        | 0            | 13,289       |

**CEMENT PROPERTIES SUMMARY:**

|               | Type        | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | Hole Cap.<br>(cuft/ft) | % Excess | TOC<br>(ft MD) | Total (sx) |
|---------------|-------------|----------|--------------|--------------|------------------------|----------|----------------|------------|
| Surface       | Class G     | 15.8     | 1.174        | 5.15         | 0.6946                 | 100%     | 0              | 414        |
| Inter. (Lead) | G:POZ Blend | 12.3     | 1.987        | 10.16        | 0.3627                 | 70%      | 0              | 528        |
| Inter. (Tail) | Class G     | 15.8     | 1.148        | 4.98         | 0.3132                 | 20%      | 1,916          | 164        |
| Prod. (Lead)  | G:POZ blend | 12.4     | 1.907        | 9.981        | 0.2691                 | 50%      | 0              | 745        |
| Prod. (Tail)  | G:POZ blend | 13.3     | 1.360        | 5.999        | 0.2291                 | 10%      | 3,714          | 1,774      |

**COMPLETION / PRODUCTION SUMMARY:****Frac:** 30 plug-and-perf stages with 180,000 bbls slickwater fluid and 8,000,000 lbs of proppant (estimated)**Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assistance)**Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

| Tops            | TVD (ft KB) | MD (ft KB) |
|-----------------|-------------|------------|
| Ojo Alamo       | 231         | 231        |
| Kirtland        | 291         | 291        |
| Fruitland       | 606         | 606        |
| Pictured Cliffs | 916         | 916        |
| Lewis           | 1,031       | 1,031      |
| Chacra          | 1,266       | 1,266      |
| Cliff House     | 2,286       | 2,293      |
| Menefee         | 2,306       | 2,313      |
| Point Lookout   | 3,281       | 3,317      |
| Mancos          | 3,541       | 3,584      |
| Gallup (MNCS_A) | 3,666       | 3,714      |
| MNCS_B          | 3,876       | 3,954      |
| MNCS_C          | 3,961       | 4,074      |
| MNCS_Cms        | 4,001       | 4,142      |
| P.O.E. TARGET   | 4,101       | 4,630      |
| PROJECTED TD    | 4,146       | 13,289     |

**District I**

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**District III**

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**District IV**

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

COMMENTS

Action 65942

**COMMENTS**

|                                                                                                |                                                      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way, Suite 525<br>Centennial, CO 80111 | OGRID:<br>372286                                     |
|                                                                                                | Action Number:<br>65942                              |
|                                                                                                | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**COMMENTS**

| Created By | Comment                  | Comment Date |
|------------|--------------------------|--------------|
| kpickford  | KP GEO review 12/14/2021 | 12/14/2021   |

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 65942

CONDITIONS

|                                                                                                |                                                      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way, Suite 525<br>Centennial, CO 80111 | OGRID:<br>372286                                     |
|                                                                                                | Action Number:<br>65942                              |
|                                                                                                | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition                                  | Condition Date |
|------------|--------------------------------------------|----------------|
| kpickford  | Adhere to precious conditions of approval. | 12/14/2021     |