

Form 3160-3  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

|   |                                       |   |
|---|---------------------------------------|---|
| 1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |                                       | 5. Lease Serial No.                           |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                              |                                       | 6. If Indian, Allottee or Tribe Name          |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |                                       | 7. If Unit or CA Agreement, Name and No.      |
| 2. Name of Operator   |                                       | 8. Lease Name and Well No.                    |
| 3a. Address   |                                       | 9. API Well No.<br>30-045-38412               |
| 3b. Phone No. (include area code)   |                                       | 10. Field and Pool, or Exploratory            |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface<br>At proposed prod. zone            |                                       | 11. Sec., T. R. M. or Blk. and Survey or Area |
| 14. Distance in miles and direction from nearest town or post office*   |                                       | 12. County or Parish                          |
|   |                                       | 13. State                                     |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)                             | 16. No of acres in lease              | 17. Spacing Unit dedicated to this well       |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  | 19. Proposed Depth                    | 20. BLM/BIA Bond No. in file                  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)   | 22. Approximate date work will start* | 23. Estimated duration                        |
| 24. Attachments   |                                       |   |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

|                         |                      |      |
|-------------------------|----------------------|------|
| 25. Signature           | Name (Printed/Typed) | Date |
| Title                   |                      |      |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title                   |                      |      |
| Office                  |                      |      |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

\*(Instructions on page 2)



## Additional Operator Remarks

### Location of Well

0. SHL: SWSW / 266 FSL / 291 FWL / TWSP: 24N / RANGE: 8W / SECTION: 25 / LAT: 36.278763 / LONG: -107.641373 ( TVD: 0 feet, MD: 0 feet )

PPP: NESW / 2044 FSL / 2603 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.283657 / LONG: -107.651323 ( TVD: 5537 feet, MD: 11347 feet )

PPP: NESE / 2044 FSL / 100 FEL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.283647 / LONG: -107.642564 ( TVD: 5544 feet, MD: 6131 feet )

BHL: NWSW / 2041 FSL / 100 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.283667 / LONG: -107.659816 ( TVD: 5537 feet, MD: 11348 feet )

### BLM Point of Contact

Name: CHRISTOPHER P WENMAN

Title: Natural Resource Specialist

Phone: (505) 564-7727

Email: cwenman@blm.gov

CONFIDENTIAL

|  |   |   |
|--|---|---|
| Santa Fe Main Office<br>Phone: (505) 476-3441 Fax: (55) 476-3462<br>General Information<br>Phone: (505) 629-6116<br><br>Online Phone Directory Visit:<br><a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a> | State of New Mexico<br>Energy, Minerals & Natural Resources<br>Department<br><b>OIL CONSERVATION DIVISION</b> | <div style="text-align: right;"> <b>C-102</b><br/>           Revised July 9, 2024<br/>           Submit Electronically<br/>           via OCD Permitting         </div> <div>           Submittal Type:           <div style="border: 1px solid black; padding: 2px; margin-top: 5px;"> <input checked="" type="checkbox"/> Initial Submittal<br/> <input type="checkbox"/> Amended Report<br/> <input type="checkbox"/> As Drilled           </div> </div> |
|--|---|---|

**WELL LOCATION INFORMATION**

|   |  |   |
|---|--|---|
| API Number<br><b>30-045-38412</b>   | Pool Code<br>42289                       | Pool Name<br>LYBROOK GALLUP   |
| Property Code<br><b>333194</b>  | Property Name<br>LYBROOK 2408-26 FED COM | Well Number<br>138H   |
| OGRID No.<br>372286   | Operator Name<br>ENDURING RESOURCES LLC  | Ground Level Elevation<br>6847  |
| Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal |  | Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal |

**Surface Location**

|         |               |                 |             |     |                           |                          |                       |                          |                    |
|---------|---------------|-----------------|-------------|-----|---------------------------|--------------------------|-----------------------|--------------------------|--------------------|
| UL<br>M | Section<br>25 | Township<br>24N | Range<br>8W | Lot | Ft. from N/S<br>266 SOUTH | Ft. from E/W<br>291 WEST | Latitude<br>36.278763 | Longitude<br>-107.641373 | County<br>SAN JUAN |
|---------|---------------|-----------------|-------------|-----|---------------------------|--------------------------|-----------------------|--------------------------|--------------------|

**Bottom Hole Location**

|         |               |                 |             |     |                            |                          |                       |                          |                    |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|
| UL<br>L | Section<br>26 | Township<br>24N | Range<br>8W | Lot | Ft. from N/S<br>2041 SOUTH | Ft. from E/W<br>100 WEST | Latitude<br>36.283667 | Longitude<br>-107.659816 | County<br>SAN JUAN |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|

|   |                         |                   |   |                                       |
|---|-------------------------|-------------------|---|---------------------------------------|
| Dedicated Acres<br>N/2 S/2 – Sec. 26<br>160.0 Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) N  | Consolidation Code<br>COMMUNITIZATION |
| Order Numbers. R-13921                              |                         |                   | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                       |

**Kick Off Point (KOP)**



|         |               |                 |             |     |                            |                          |                       |                          |                    |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|
| UL<br>I | Section<br>26 | Township<br>24N | Range<br>8W | Lot | Ft. from N/S<br>2044 SOUTH | Ft. from E/W<br>100 EAST | Latitude<br>36.283647 | Longitude<br>-107.642564 | County<br>SAN JUAN |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|

**First Take Point (FTP)**

|         |               |                 |             |     |                            |                          |                       |                          |                    |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|
| UL<br>I | Section<br>26 | Township<br>24N | Range<br>8W | Lot | Ft. from N/S<br>2044 SOUTH | Ft. from E/W<br>100 EAST | Latitude<br>36.283647 | Longitude<br>-107.642564 | County<br>SAN JUAN |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|

**Last Take Point (LTP)**

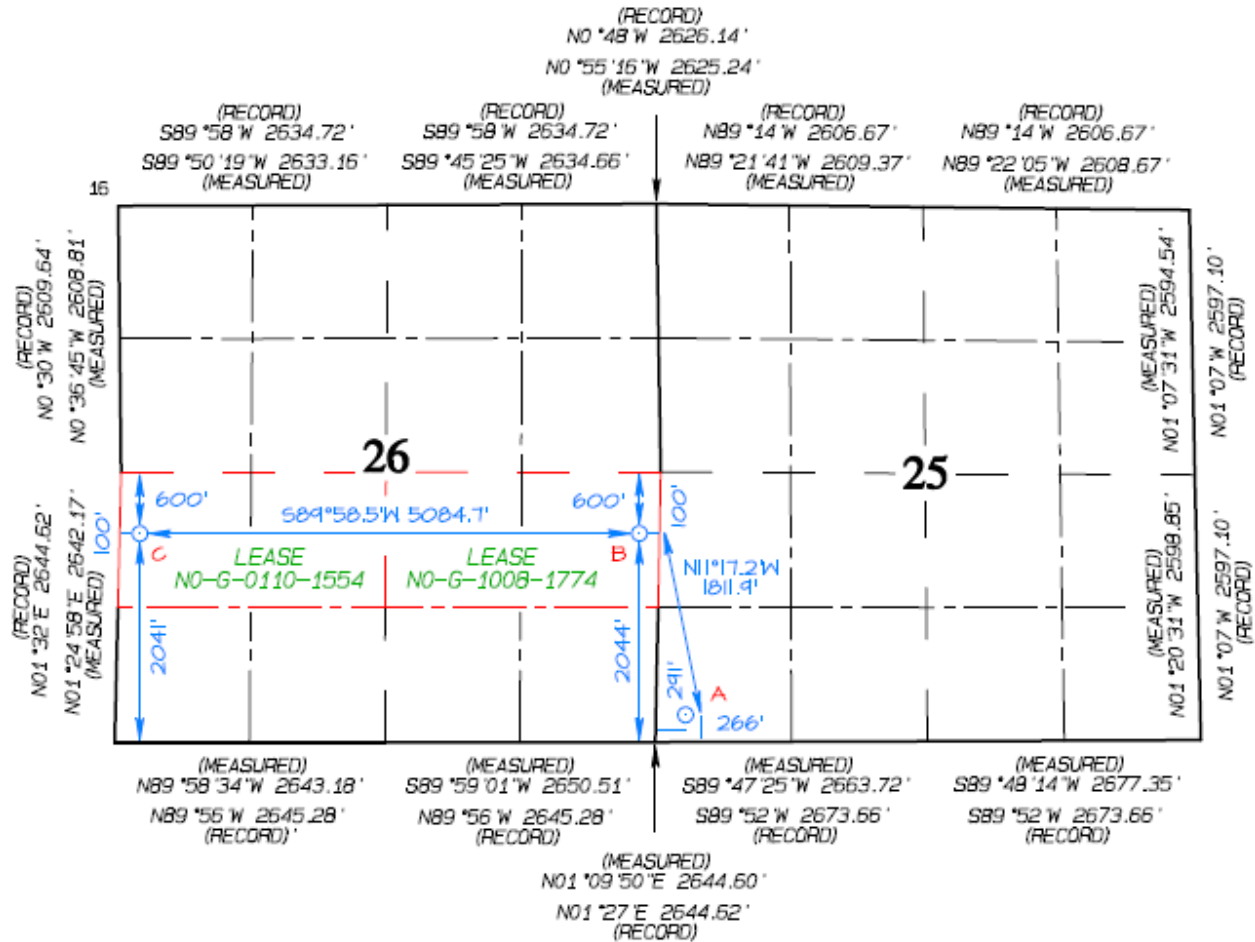
|         |               |                 |             |     |                            |                          |                       |                          |                    |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|
| UL<br>L | Section<br>26 | Township<br>24N | Range<br>8W | Lot | Ft. from N/S<br>2041 SOUTH | Ft. from E/W<br>100 WEST | Latitude<br>36.283667 | Longitude<br>-107.659816 | County<br>SAN JUAN |
|---------|---------------|-----------------|-------------|-----|----------------------------|--------------------------|-----------------------|--------------------------|--------------------|

|   |  |                         |
|---|--|-------------------------|
| Unitized Area or Area of Uniform Interest<br>NW LYBROOK UNIT  | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation: |
| <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division</i></p> <div style="display: flex; justify-content: space-between;"> <div> <br/>           Signature         </div> <div>           12/16/2024<br/>           Date         </div> </div> <div>           Shaw-Marie Ford<br/>           Printed Name<br/> <a href="mailto:sford@enduringresources.com">sford@enduringresources.com</a><br/>           Email Address         </div> |  |                         |
| <p style="text-align: center;"><b>SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <div style="text-align: center;"> <br/> <b>JASON C. EDWARDS</b><br/>           Signature and Seal of Professional Surveyor         </div> <div style="display: flex; justify-content: space-between;"> <div>           Certificate Number<br/>15269         </div> <div>           Date of Survey<br/>FEBRUARY 4, 2023<br/>Revised October 2, 2023         </div> </div>  |  |                         |

Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** Enduring Resources, LLC **OGRID:** 372286 **Date:** 12 / 16 / 2024

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name               | API | ULSTR       | Footages          | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|-------------------------|-----|-------------|-------------------|-----------------------|-----------------------|----------------------------------|
| Lybrook 2408-26 FED COM | TBD | M-25-24N-8W | 266 FSL x 294 FWL | 255                   | 760                   | 102                              |
| NW Lybrook Unit 139H    | TBD | M-25-24N-8W | 263 FSL x 311 FWL | 276                   | 824                   | 111                              |
| NW Lybrook Unit 140H    | TBD | M-25-24N-8W | 252 FSL x 394 FWL | 412                   | 1229                  | 165                              |
| NW Lybrook Unit 141H    | TBD | M-25-24N-8W | 250 FSL x 414 FWL | 417                   | 1242                  | 167                              |
|                         |     |             |                   | 3-year Decline        | 3-year Decline        | 3-year Decline                   |
| Lybrook 2408-26 FED COM | TBD | M-25-24N-8W | 266 FSL x 294 FWL | 58                    | 172                   | 23                               |
| NW Lybrook Unit 139H    | TBD | M-25-24N-8W | 263 FSL x 311 FWL | 62                    | 186                   | 25                               |
| NW Lybrook Unit 140H    | TBD | M-25-24N-8W | 252 FSL x 394 FWL | 93                    | 278                   | 37                               |
| NW Lybrook Unit 141H    | TBD | M-25-24N-8W | 250 FSL x 414 FWL | 94                    | 280                   | 38                               |

**IV. Central Delivery Point Name:** NW Lybrook 131H CDP [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name                    | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|------------------------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| Lybrook 2408-26 FED COM 138H | TBD | Q3 2025   | Q3 2025         | Q3 2025                      | Q3 2025                | Q3 2025               |
| NW Lybrook Unit 139H         | TBD | Q3 2025   | Q3 2025         | Q3 2025                      | Q3 2025                | Q3 2025               |
| NW Lybrook Unit 140H         | TBD | Q3 2025   | Q3 2025         | Q3 2025                      | Q3 2025                | Q3 2025               |
| NW Lybrook Unit 141H         | TBD | Q3 2025   | Q3 2025         | Q3 2025                      | Q3 2025                | Q3 2025               |

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|--|--|
|      |     |  |  |
|      |     |  |  |

**X. Natural Gas Gathering System (NGGS):**

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|----------------------------------|---|
|          |        |                 |                                  |   |
|          |        |                 |                                  |   |

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

|  |
|--|
| Signature:   |
| Printed Name: Shaw-Marie Ford  |
| Title: Regulatory Specialist   |
| E-mail Address: sford@enduringresources.com  |
| Date: 12/16/2024   |
| Phone: 505-716-3297  |
| <b>OIL CONSERVATION DIVISION</b><br><b>(Only applicable when submitted as a standalone form)</b> |
| Approved By:   |
| Title:   |
| Approval Date:   |
| Conditions of Approval:  |





Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Lybrook 2408-26 FED COM 138H, NW Lybrook Unit 139H, 140H, 141H

### SEPARATION EQUIPMENT

Enduring Resources, LLC (Enduring) has pulled representative pressurized samples from wells in the same producing formation. Enduring has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- Individual 3-phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3 phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Lybrook 2408-26 FED COM 138H, NW Lybrook Unit 139H, 140H, 141H

**VENTING and FLARING**

Enduring has a natural gas system available prior to startup of completion operations. Enduring utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, Enduring utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) Enduring utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) Enduring's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

Enduring will only flare gas during the following times:

- Scheduled maintenance for gas capturing equipment including:
  - Vapor Recovery Tower
  - Vapor Recovery Unit
  - Storage tanks
  - Pipelines
  - Emergency flaring



Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Lybrook 2408-26 FED COM 138H, NW Lybrook Unit 139H, 140H, 141H

## **OPERATIONAL PRACTICES**

### **19.15.27.8 A. Venting and Flaring of Natural Gas**

Enduring understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

### **19.15.27.8 B. Venting and flaring during drilling operations**

- Enduring shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- In the event of an emergency, Enduring will vent natural gas in order to avoid substantial impact. Enduring shall report the vented or flared gas to the NMOCD.

### **19.15.27.8 E. Venting and flaring during completion or recompletion operations**

During Completion Operations, Enduring utilizes the following:

- Enduring facilities are built and ready from day 1 of Flowback.
- Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
  - 1) An appropriately sized flare stack with an automatic igniter.
  - 2) Enduring analyzes the natural gas samples twice per week.
  - 3) Enduring routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
  - 4) Enduring provides the NMOCD with pipeline specifications and natural gas data.



#### **19.15.27.8 D. Venting and flaring during production operations**

During Production Operations Enduring will not vent or flare natural gas except under the following circumstances:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
  - a. Enduring does not vent after the well achieves a stabilized rate and pressure.
  - b. Enduring will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
  - c. Enduring will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
  - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
  - a. Enduring receives approval from the NMOCD.
  - b. Enduring remains in compliance with the NM gas capture requirements.
  - c. Enduring submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
  - a. Gauging or sampling a storage tank or low-pressure production vessel.
  - b. Loading out liquids from a storage tank.
  - c. Repair and maintenance.
  - d. Normal operation of gas activated pneumatic controller or pump.
  - e. Normal operation of a storage tank but not including venting from a thief hatch.
  - f. Normal operation of dehydration units.
  - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
  - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
  - i. When natural gas does not meet the gathering pipeline specifications.
  - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

#### **19.15.27.8 E. Performance standards**

1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.
  - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.



- b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts ENDURING of flare malfunction within 18 months after May 25, 2021.
  - c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
  - d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
4. Enduring will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
5. Enduring will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
6. Enduring may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
7. Facilities will be designed to minimize waste.
8. Enduring will resolve emergencies as promptly as possible.

#### **19.15.27.8 F. Measurement or estimation of vented and flared natural gas**

1. Enduring will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in ENDURING's SCADA system.
2. Enduring will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
3. Enduring's measuring equipment will conform to the industry standards.
4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
5. Enduring will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Enduring will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. Enduring will install measuring equipment whenever the NMOCD determines that metering is necessary.



Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Lybrook 2408-26 FED COM 138H, NW Lybrook Unit 139H, 140H, 141H

**BEST MANAGEMENT PRACTICES**

Enduring utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

Enduring has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

Enduring will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

Enduring shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

Enduring shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

Enduring will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

Enduring's measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

Enduring shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.



**ENDURING RESOURCES IV, LLC**  
**6300 S SYRACUSE WAY, SUITE 525**  
**CENTENNIAL, CO 80111**

**DRILLING PLAN:** Drill, complete, equip single lateral Mancos formation Gallup member.

**WELL INFORMATION:**

**Name:** LYBROOK 2408 26M FEDERAL COM 138H

**API Number:** Not assigned yet

**AFE Number:** Not assigned yet

**ER Well Number:** Not assigned yet

**State:** New Mexico

**County:** San Juan

**Surface Elevation:** 6,847 ft ASL (GL) 6,872 ft ASL (KB)

**Surface Location:** 25-24-8 Sec-Twn-Rng 266 ft FSL 291 ft FWL

36.278763 ° N latitude 107.641373 ° W longitude (NAD 83)

**BH Location:** 26-24-8 Sec-Twn-Rng 2,041 ft FSL 100 ft FWL

36.283667 ° N latitude 107.659816 ° 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 43.5 miles to MM 108.3; Left (North) on County Road #7998 for 0.5 miles to fork; Left (North) continuing on Rd #7998 for 0.5 miles to T; Left (NorthWest) for 0.6 miles to access road; Left (West) for 0.3 miles into NW Lybrook Unit 131H Pad. The 138H will be one of 4 wells to be added to an existing, 3 well pad. The 138H will be the furthest west well and furthest from the location entrance. From east to west will be NW Lybrook 141H, NW Lybrook 140H, NW Lybrook 289H (existing well). NW Lybrook 131H (existing well), Lybrook 2408 237H (existing well), NW Lybrook 139H, Lybrook 2408-25M 138H

**GEOLOGIC AND RESERVOIR INFORMATION:**

| Prognosis: | Formation Tops    | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O / G / W | Pressure   |
|------------|-------------------|--------------|-------------|------------|-----------|------------|
|            | Nacimiento        | 0            | 0           | 0          | 0         | 0          |
|            | Ojo Alamo         | 5,650        | 1,222       | 1,241      | W         | normal     |
|            | Kirtland          | 5,520        | 1,352       | 1,381      | W         | normal     |
|            | Fruitland         | 5,300        | 1,572       | 1,619      | G, W      | sub        |
|            | Pictured Cliffs   | 4,990        | 1,882       | 1,954      | G, W      | sub        |
|            | Lewis             | 4,890        | 1,982       | 2,062      | G, W      | normal     |
|            | Chacra A          | 4,580        | 2,292       | 2,398      | G, W      | normal     |
|            | Cliff House Basal | 3,484        | 3,388       | 3,582      | G, W      | sub        |
|            | Menefee           | 3,479        | 3,393       | 3,587      | G, W      | normal     |
|            | Point Lookout     | 2,609        | 4,263       | 4,528      | G, W      | normal     |
|            | Mancos            | 2,379        | 4,493       | 4,777      | O,G       | normal     |
|            | MNCS_A            | 2,009        | 4,863       | 5,177      | O,G       | sub (~.38) |
|            | MNCS_B            | 1,919        | 4,953       | 5,275      | O,G       | sub (~.38) |
|            | MNCS_C            | 1,799        | 5,073       | 5,403      | O,G       | sub (~.38) |
|            | MNCS_Cms          | 1,719        | 5,153       | 5,491      | O,G       | sub (~.38) |
|            | MNCS_D            | 1,644        | 5,228       | 5,577      | O,G       | sub (~.38) |
|            | MNCS_E            | 1,564        | 5,308       | 5,675      | O,G       | sub (~.38) |
|            | MNCS_F            | 1,505        | 5,367       | 5,758      | O,G       | sub (~.38) |
|            | MNCS_G            | 1,420        | 5,452       | 5,901      | O,G       | sub (~.38) |
|            | MNCS_H            | 1,378        | 5,494       | 5,985      | O,G       | sub (~.38) |



|                         |       |       |        |     |            |
|-------------------------|-------|-------|--------|-----|------------|
| POE                     | 1,328 | 5,544 | 6,131  | O,G | sub (~.38) |
| FTP TARGET              | 1,420 | 5,452 | 5,901  | O,G | sub (~.38) |
| PROJECTED WELL TD (BHL) | 1,335 | 5,537 | 11,347 | O,G | sub (~.38) |

**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:** 2,390 psi

**Maximum anticipated surface pressure, assuming partially evacuated hole:** 1,180 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 surveys with inclination and azimuth in 100' stations (minimum) from drill out of 13-3/8" casing to TD; Gamma

**MWD / LWD:** Ray from drill out of 9-5/8" casing to TD; Gamma Ray optional in 12-1/4" intermediate hole

**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 1500HP

**Mast:** Hyduke 600K Cantilever Triple (136 ft, 600,000 lbs)

**Top Drive:** NOV IDS-350PE 1000 HP

**Prime Movers:** 4 GE Jenbacher 1000KW 480/240 volt Nat Gas

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

**BOPE 1:** Cameron double gate ram (13-5/8", 5,000 psi)

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

**Choke** 3", 5,000 psi

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

**Note:** Actual drilling rig may vary depending on availability at time the well is scheduled to be drilled.

## STATE AND FEDERAL NOTIFICATIONS

|                                      | BLM   | State                         |
|--------------------------------------|---|-------------------------------|
| <b>Construction and Reclamation:</b> | BLM is to be notified minimum of 48 hours prior to start of construction or reclamation.<br>Grazing permittee is to be notified 10 days in advance. | (505) 564-7600                |
| <b>Spud</b>                          | BLM and state are to be notified minimum of 24 hours prior to spud.   | (505) 564-7750 (505) 334-6178 |
| <b>BOP</b>                           | BLM is to be notified minimum of 24 hours prior to BOPE testing.  | (505) 564-7750 see note       |
| <b>Casing / cementing</b>            | BLM and state are to be notified minimum of 24 hours prior to running casing and cementing.   | (505) 564-7750 (505) 334-6178 |
| <b>Plugging</b>                      | BLM and state are to be notified minimum of 24 hours prior to plugging ops.   | (505) 564-7750 see note       |

**All notifications are to be recorded in the WellView report with time, date, name or number that notifications were made to.**



**Note:** Monica Keuhling with the OCD requests state notifications 24 hrs in advance for spud, BOP tests, casing & cementing and any plugging be given to her in both phone message and email: (505) 320-0243, monica.keuhling@emnrd.nm.gov

#### 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.
- 3) 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.
- 4) 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.
- 5) 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.
- 6) 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 and fluid program from Newpark. Sufficient weighting agent will be on location to weight up mud system to balance the maximum expected pressure gradient.

#### DETAILED DRILLING PLAN:

**SURFACE:** Drill vertically to casing setting depth, 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<br>(mL/30 min) | PV (cp) | YP<br>(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, run deviation survey after drilling

Logging: None

Procedure: Drill to TD. Use 12-4" bit and open to 17-1/2" if unable to drill with 17-1/2" bit. Run inclination survey in 100' stations from TD to surface. Condition hole and fluid for casing running as required. TOOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and wellhead.

| Casing Specs: |        | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body<br>(lbs) | Tens. Conn<br>(lbs) |
|---------------|--------|------------|-------|-------|----------------|-------------|---------------------|---------------------|
| Specs         | 13.375 | 54.5       | J-55  | BTC   | 1,130          | 2,730       | 853,000             | 909,000             |
| Loading       |        |            |       |       | 153            | 1,520       | 116,634             | 116,634             |
| Min. S.F.     |        |            |       |       | 7.39           | 1.80        | 7.31                | 7.79                |

Assumptions: **Collapse:** partially evacuated casing with 8.4 ppg fluid outside casing

**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 Details: 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<br>(cuft/sk) | Water<br>(gal/sk) | Ann Cap.<br>(cuft/ft) | % Excess | Planned TOC<br>(ft MD) | Total Cmt<br>(sx) |
|---------|----------|--------------|--------------------|-------------------|-----------------------|----------|------------------------|-------------------|
|         | TYPE III | 14.6         | 1.39               | 6.686             | 0.6946                | 100%     | 0                      | 364               |

Annular Capacity 0.6946 cuft/ft 13-3/8" casing x 17-1/2" hole annulus Csg capacity 0.8680 ft3/ft

Drake Energy Services: Calculated cement volumes assume gauge hole and the excess noted in table

ASTM Type III  
Blend Calcium Chloride  
2% BWOC Accelerator D-CD2 .3% BWOC  
Dispersant/Friction reducer .25 lbs/sx Cello  
Flake - seepage

| Cu Ft Slurry |
|--------------|
| 505.3        |

Notify COGCC & 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 | 3,789 ft (MD)  | Hole Section Length: | 3,439 ft |
| 350 ft (TVD) | to | 3,543 ft (TVD) | Casing Required:     | 3,789 ft |

| Fluid: | Type       | MW (ppg)  | FL<br>(mL/30 min) | PV (cp) | YP<br>(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

Bit / Motor (Detail): MOTOR: NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 900 GPM, 950 DIFF PSIG

**BIT:** 5- or 6-BLADE PDC w/16 mm or 19 mm cutters, target TFA 0.65 - 1.0 max); 6 - 14s = 0.902 sq-in TFA

**MWD / Survey:** MWD with GR, inclination, and azimuth survey (every 100' at a minimum)

**Logging:** None

**Pressure Test:** NU BOPE and test (as noted above); pressure test 13-3/8" casing to **1,500** psi for 30 minutes.  
Maximum anticipated surface pressure while drilling intermediate hole section is **1,350** psi

**Procedure:** Drill to TD following directional plan **(20' rat-hole (MAX) past casing setting depth)**. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible. Take surveys every stand, at a minimum. Target flow-rates of 750 GPM (higher if able to control return rates). Minimum desired flow-rate is 650 GPM. At TD, condition hole and fluid for casing running. TOO. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well. Perform off-line cement job, if possible. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface.

| Casing Specs: |       | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---------------|-------|------------|-------|-------|----------------|-------------|------------------|------------------|
| Specs         | 9.625 | 36.0       | J55   | LTC   | 2,020          | 3,520       | 564,000          | 453,000          |
| Loading       |       |            |       |       | 755            | 1,396       | 211,228          | 211,228          |
| Min. S.F.     |       |            |       |       | <b>2.67</b>    | <b>2.52</b> | <b>2.67</b>      | <b>2.14</b>      |

Assumptions: Collapse: evacuated casing with 8.33 ppg equiv external pressure gradient, .22 psi/ft backup

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 DV depth N/A

**Casing Summary:** Float shoe, 1 jt casing, float collar, casing to surface (Float Equipment from Weatherford)

**Centralizers:** 1 per joint in non-vertical hole; 1 per 3-joints in vertical hole

**Centralizers:** 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 3 jts to surface **(Centralizers from Scepter Supply - SLIP'N'SLIDE 9-5/8" x 12" SOLID BODY POLYMER)**

| Stage 1 | Cement:      | Type               | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) | Total Cmt (cu ft) |
|---------|--------------|--------------------|--------------|-----------------|----------------|----------|---------------------|----------------|-------------------|
|         | Spacer       | D-Mud Breaker      | 8.5          |                 |                |          | 0                   | 10 bbls        |                   |
|         | Lead         | 90:10 Type III:POZ | 12.5         | 2.140           | 12.05          | 70%      | 0                   | 878            | 1,878             |
|         | Tail         | Type III           | 14.6         | 1.380           | 6.61           | 20%      | 3,289               | 150            | 207               |
|         | Displacement | 290                | est bbls     |                 |                |          |                     |                |                   |

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

0.4341 cuft/ft 9-5/8" casing vol est shoe jt ft 44

Calculated cement volumes assume gauge hole and the excess (open hole only) noted in table

**Spacer** D-Mud Breaker SAPP

|             |                         |                                     |                  |                 |                 |                 |                   |
|-------------|-------------------------|-------------------------------------|------------------|-----------------|-----------------|-----------------|-------------------|
|             |                         | D-MPA-1 .4%                         |                  |                 |                 |                 |                   |
|             |                         | BWOC Fluid Loss &                   |                  |                 |                 |                 |                   |
|             |                         | Gas Migration                       | D-SA 1 1.4% BWOC | D-CD 2 .4% BWOC | Cello Flace LCM | D-FP 1 .5% BWOC |                   |
| <b>Lead</b> | ASTM Type III 90/10 Poz | D-CSE 1 5.0% BWOC Strength Enhancer | Na Metasilicate  | Dispersant      | .25 lb/sx       | Defoamer        | D-R1 .5% Retarder |
|             |                         | D-MPA-1 .4%                         |                  |                 |                 |                 |                   |
|             |                         | BWOC Fluid Loss &                   |                  |                 |                 |                 |                   |
|             |                         | Gas Migration                       | Cello Flace LCM  |                 |                 |                 |                   |
| <b>Tail</b> | ASTM Type III Blend     | Control                             | .25 lb/sx        |                 |                 |                 |                   |

Drake Intermediate Cementing Program

**Cement must achieve 500 psi compressive strength before drilling out.**

Notify NMOCD & 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.

|                |    |                |                      |           |
|----------------|----|----------------|----------------------|-----------|
| 3,789 ft (MD)  | to | 11,347 ft (MD) | Hole Section Length: | 7,558 ft  |
| 3,543 ft (TVD) | to | 5,537 ft (TVD) | Casing Required:     | 11,347 ft |

|                                   |               |                |
|-----------------------------------|---------------|----------------|
| Estimated KOP:                    | 5,250 ft (MD) | 4,930 ft (TVD) |
| Estimated Landing Point (P.O.E.): | 5,901 ft (MD) | 5,544 ft (TVD) |
| Estimated Lateral Length:         | 5,446 ft (MD) |                |

| Fluid: | Type | MW (ppg)  | WPS ppm      | HTHP | YP (lb/100 sqft) | ES   | OWR   | Comment            |
|--------|------|-----------|--------------|------|------------------|------|-------|--------------------|
|        | OBM  | 8.0 - 9.0 | 120,000 CaCl | NC   | ±6               | +300 | 80:20 | WBM as contingency |

**Fluids / Solids Notes:** OptiDrill OBM system will be built from previous well. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details.

**Hole Size:** 8-1/2"

**Bit / Motor:** PDC w/mud motor

**Bit / Motor (Detail):** **MOTOR:** NOV 077857 - 6.5" 7/8, 5.0 stage, 0.23 rev/gal, 1.83 deg, 750 GPM, 1,580 DIFF PSIG (or similar); on demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.

**BIT:** 5-BLADE PDC w/16 mm - 19 mm cutters, matrix body, target TFA = 1.0 - 1.5 sq-in

**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.

**Procedure:** Drill to KOP following directional plan. Target flow-rate is 650 - 700 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 500 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10' until KOP, when feasible. Take surveys every stand, at a minimum. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. Continue drilling in lateral section, steering as needed to keep well on plan and in the target window. Keep DLS < 2 deg/100' and keep slide length < 20', when feasible. Take surveys every stand, at a minimum. **Target rotating parameters / performance: flow-rate is 650 - 700 GPM, differential is pressure is 700 - 1,000 psig, ROP 500 - 600 ft/hr, torque 38K ft-lbs (MAX drill pipe MUT).** After reaching TD, perform no more than one clean-up cycle to condition hole for casing running unless shakers indicate additional cleaning needed. TOOH & LD drill pipe (ROOH, if required; should NOT be required with OBM system). Run casing as described below. Use CRT for casing running only if necessary (should NOT be required with OBM). Verify make up torque when running casing. Space out casing getting the toe sleeve as close to LTP as possible. Land casing and test pack-off. Open floatation sub, fill casing, and circulate as required. Pump cement as detailed below. Note cement volume circulated to surface. Nipple down BOPE. Clean pits. RDMO to next pad.

| Casing Specs: |         |            |       |       |                |             |                  |                  |         |
|---------------|---------|------------|-------|-------|----------------|-------------|------------------|------------------|---------|
|               |         | 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 |            |       |       |                | 2,739       | 8,135            | 181,327          | 181,327 |
| Min. S.F.     |         |            |       |       | 2.72           | 1.31        | 3.01             | 2.45             |         |

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, float collar w/debris catcher, 1 jt casing, float collar (**Weatherford (WFT) float equipment**), 20' marker joint, toe-initiation sleeve (**WFT RD 8,500 psi**), casing to KOP with 20' marker joints spaced evenly in lateral every ~2,000', floatation sub (**NCS Air-Lock 2,500 psi from WFT**), casing to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 300' measured perpendicular to the East or West lease lines for a East-West azimuth drilled wellbore. Wellbore path must be no closer than 600' from the parallel lease lines. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

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

**Lateral:** 1 centralizer per 3 joints (purchase centralizers from Scepter Supply)

**Top of curve to 9-5/8" shoe:** 1 centralizer per 5 joints

**9-5/8" shoe to surface:** 1 centralizer per 5 joints

|                  | Type              | Weight (ppg) | Yield (cuft/sk)                       | Water (gal/sk) | % Excess Open Hole | Planned TOC (ft MD) | Total Cmt (sx) | Total Cmt (cu ft) |
|------------------|-------------------|--------------|---------------------------------------|----------------|--------------------|---------------------|----------------|-------------------|
| Cement:          |                   |              |                                       |                |                    |                     |                |                   |
| Spacer           | IntegraGuard Star | 11           |                                       | 31.6           |                    | 0                   | 60 bbls        |                   |
| Lead             | ASTM type I/II    | 12.4         | 2.370                                 | 13.40          | 50%                | 0                   | 645            | 1,529             |
| Tail             | G:POZ blend       | 13.3         | 1.570                                 | 7.70           | 10%                | 4,777               | 1,063          | 1,668             |
| Displacement     | 249               | est bbls     |                                       |                |                    |                     |                |                   |
| 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   |                |                    |                     |                |                   |
|                  | 0.1245            | cuft/ft      | 5-1/2" casing vol est shoe jt ft 100  |                |                    |                     |                |                   |

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

American Cementing Liner & Production Blend

|               |                  |                               |                              |                          |                          |                       |                            |  |
|---------------|------------------|-------------------------------|------------------------------|--------------------------|--------------------------|-----------------------|----------------------------|--|
|               |                  |                               |                              | IntegraGuard Star        |                          |                       |                            |  |
|               | S-8 Silica Flour | Avis 616 viscosifier          | FP24 Defoamer .5             | Plus 3K LCM 15           | SS201 Surfactant 1       |                       |                            |  |
| <b>Spacer</b> | 163.7 lbs/bbl    | 11.6 lb/bbl                   | lb/bbl                       | lb/bbl                   | gal/bbl                  |                       |                            |  |
|               |                  |                               | Bentonite                    |                          | IntegraGuard             |                       | FP24 Defoamer              |  |
|               |                  |                               | Viscosifier 8%               |                          | GW86 Viscosifier         |                       | 0.3% BWOB, Anti-           |  |
| <b>Lead</b>   | ASTM Type I/II   | BA90 Bonding Agent 5.0 lb/sx  | BWOB                         | FL24 Fluid Loss .5% BWOB | .1% BWOB                 | R7C Retarder .2% BWOB | Static .01 lb/sx           |  |
|               |                  |                               | Bentonite                    |                          | IntegraGuard             |                       | FP24 Defoamer              |  |
|               |                  |                               | Viscosifier 4%               |                          | FL24 Fluid Loss .4% BWOB |                       | .3% BWOB,                  |  |
| <b>Tail</b>   | Type G 50%       | Pozzolan Fly Ash Extender 50% | BA90 Bonding Agent 3.0 lb/sx | BWOB                     | .1% BWOB                 | R3 Retarder BWOB      | .5% IntegraSeal 0.25 lb/sx |  |

**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 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.

**Procedure:** ND BOP. Install BPV in WH if available. Install cap with pressure gauge on WH. Frac stack to be installed at later date. RDMO.

**COMPLETION AND PRODUCTION PLAN:**

**Est Lateral Length:** 5,346  
**Est Frac Inform:** 22 Frac Stages 86,000 bbls slick water 6,960,000 lbs proppant  
**Flowback:** Flow back through production tubing as pressures allow  
**Production:** Produce through production tubing into permanent production and storage facilities

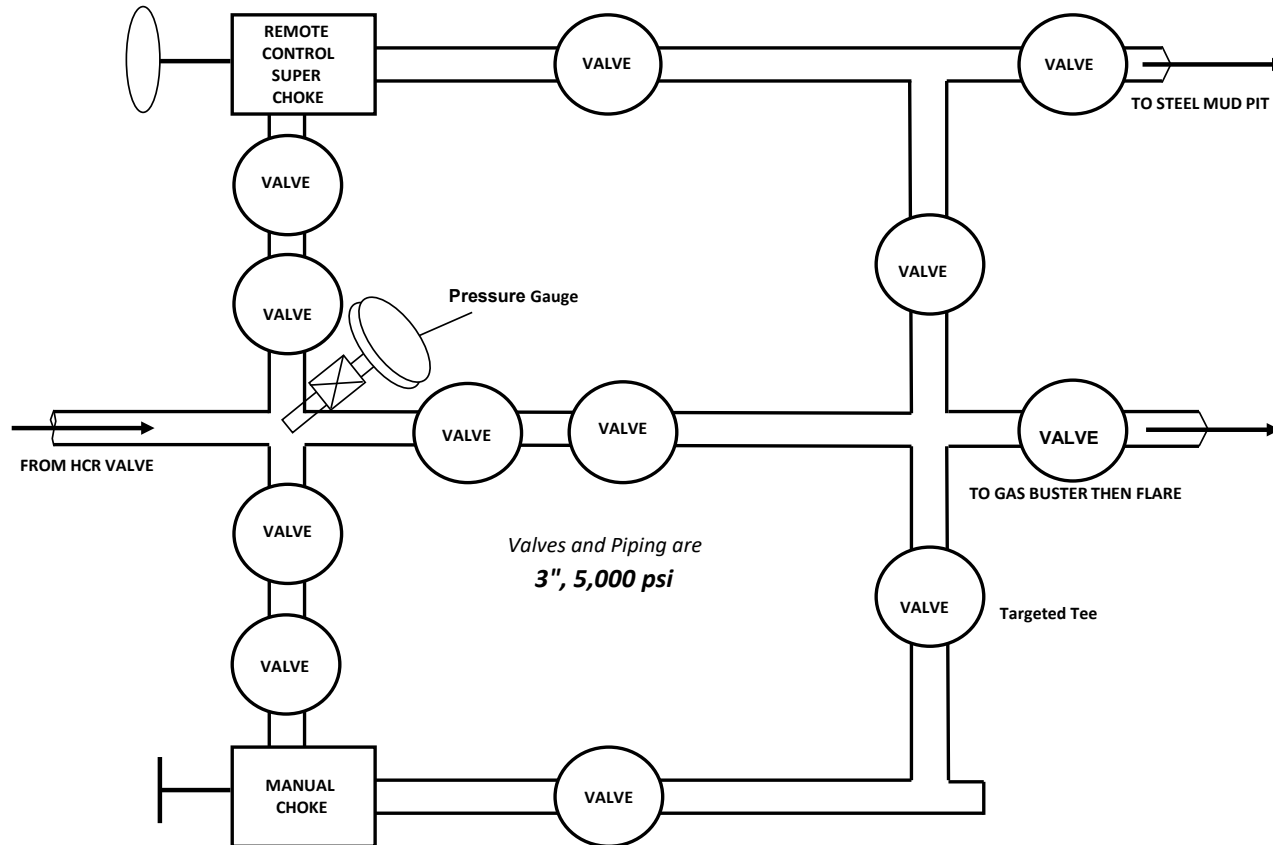
**ESTIMATED START DATES:**

**Drilling:** 2/1/2024  
**Completion:** 5/2/2024  
**Production:** 7/1/2024

**Prepared by:** Greg Olson 2/21/2023  
**Updated by:**

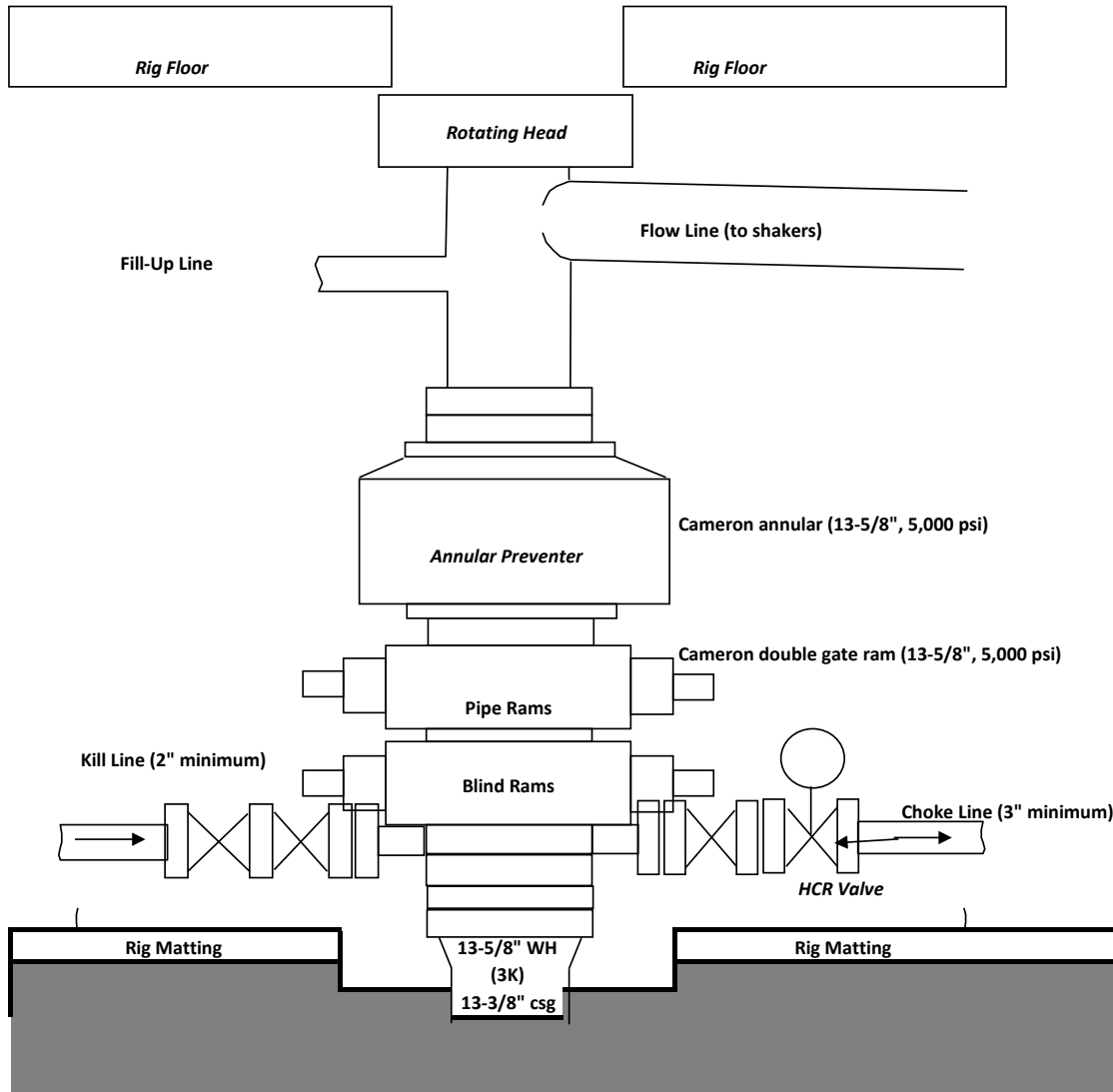
**BOPE & CHOKE MANIFOLD DIAGRAMS**

NOTE: EXACT BOPE AND CHOKE CONFIGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

**CHOKE MANIFOLD**

**BOPE & CHOKE MANIFOLD DIAGRAMS**

NOTE: EXACT BOPE AND CHOKE CONFIGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

**BOPE**







**Well:** Lybrook 2408-26 Federal COM 138H  
**Site:** NW Lybrook (138, 139, 140 & 141)  
**Project:** San Juan County, New Mexico NAD83 NM W  
**Design:** rev0  
**Rig:**



CASING DETAILS

| TVD     | MD      | Name        |
|---------|---------|-------------|
| 350.00  | 350.00  | 13 3/8" Csg |
| 3542.00 | 3748.83 | 9 5/8" Csg  |



Azimuths to Grid North  
True North: -0.11°  
Magnetic North: 8.47°  
  
Magnetic Field  
Strength: 49177.5nT  
Dip Angle: 62.77°  
Date: 2/20/2023  
Model: IGRF2020

Section Details

| Sec | MD       | Inc   | Azi     | TVD     | +N/-S   | +E/-W    | Dleg  | TFace   | Vsect   | Annotation                      |
|-----|----------|-------|---------|---------|---------|----------|-------|---------|---------|---------------------------------|
| 1   | 0.00     | 0.00  | 0.000   | 0.00    | 0.00    | 0.00     | 0.00  | 0.00    | 0.00    | KOP Begin 3"/100' build         |
| 2   | 500.00   | 0.00  | 0.000   | 500.00  | 0.00    | 0.00     | 0.00  | 0.00    | 0.00    | Begin 22.35° tangent            |
| 3   | 1244.97  | 22.35 | 9.858   | 1226.22 | 141.34  | 24.56    | 3.00  | 9.86    | -24.62  | Begin 10°/100' build/turn       |
| 4   | 5239.87  | 22.35 | 9.858   | 4921.04 | 1637.97 | 284.62   | 0.00  | 0.00    | -285.37 | Begin 60.00° tangent            |
| 5   | 5900.39  | 60.00 | 269.974 | 5451.74 | 1777.36 | -13.68   | 10.00 | -111.01 | 12.87   | Begin 10°/100' build            |
| 6   | 5960.39  | 60.00 | 269.974 | 5481.74 | 1777.34 | -65.64   | 0.00  | 0.00    | 64.83   | Begin 90.24° lateral            |
| 7   | 6262.81  | 90.24 | 269.974 | 5558.50 | 1777.21 | -354.54  | 10.00 | 0.00    | 353.74  | PBHL/TD 11347.47 MD 5537.00 TVD |
| 8   | 11347.47 | 90.24 | 269.974 | 5537.00 | 1774.92 | -5439.16 | 0.00  | 0.00    | 5438.36 |                                 |

DESIGN TARGET DETAILS

| Name                                   | TVD     | +N/-S   | +E/-W    | Northing    | Easting     | Latitude     | Longitude      |
|--|---------|---------|----------|-------------|-------------|--------------|----------------|
| Lybrook 2408 138H LTP 2041 FSL 100 FWL | 5537.00 | 1774.92 | -5439.16 | 1922599.932 | 2774231.493 | 36.283667000 | -107.659816000 |
| Lybrook 2408 138H FTP 2044 FSL 100 FEL | 5558.50 | 1777.21 | -354.54  | 1922602.217 | 2779316.101 | 36.283647000 | -107.642564000 |
| Lybrook 2408 138H 0 VS                 | 5560.00 | 1777.37 | -0.80    | 1922602.377 | 2779669.844 | 36.283645519 | -107.641363758 |

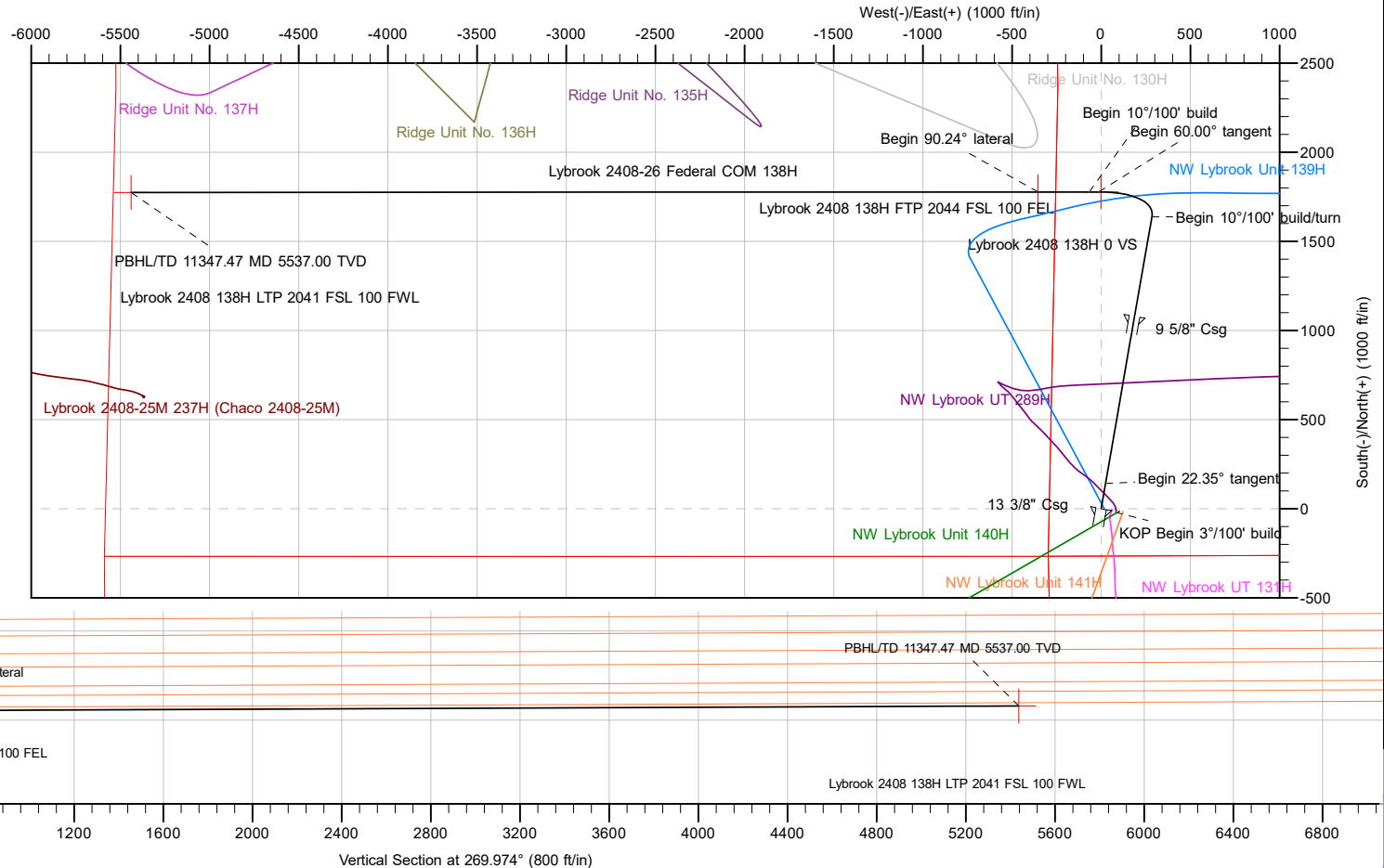
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Western Zone

System Datum: Mean Sea Level  
Depth Reference: RKB=6847+25 @ 6872.00ft  
Surface location:

| Northing    | Easting     | Latitude     | Longitude      |
|-------------|-------------|--------------|----------------|
| 1920825.010 | 2779670.644 | 36.278763000 | -107.641373000 |

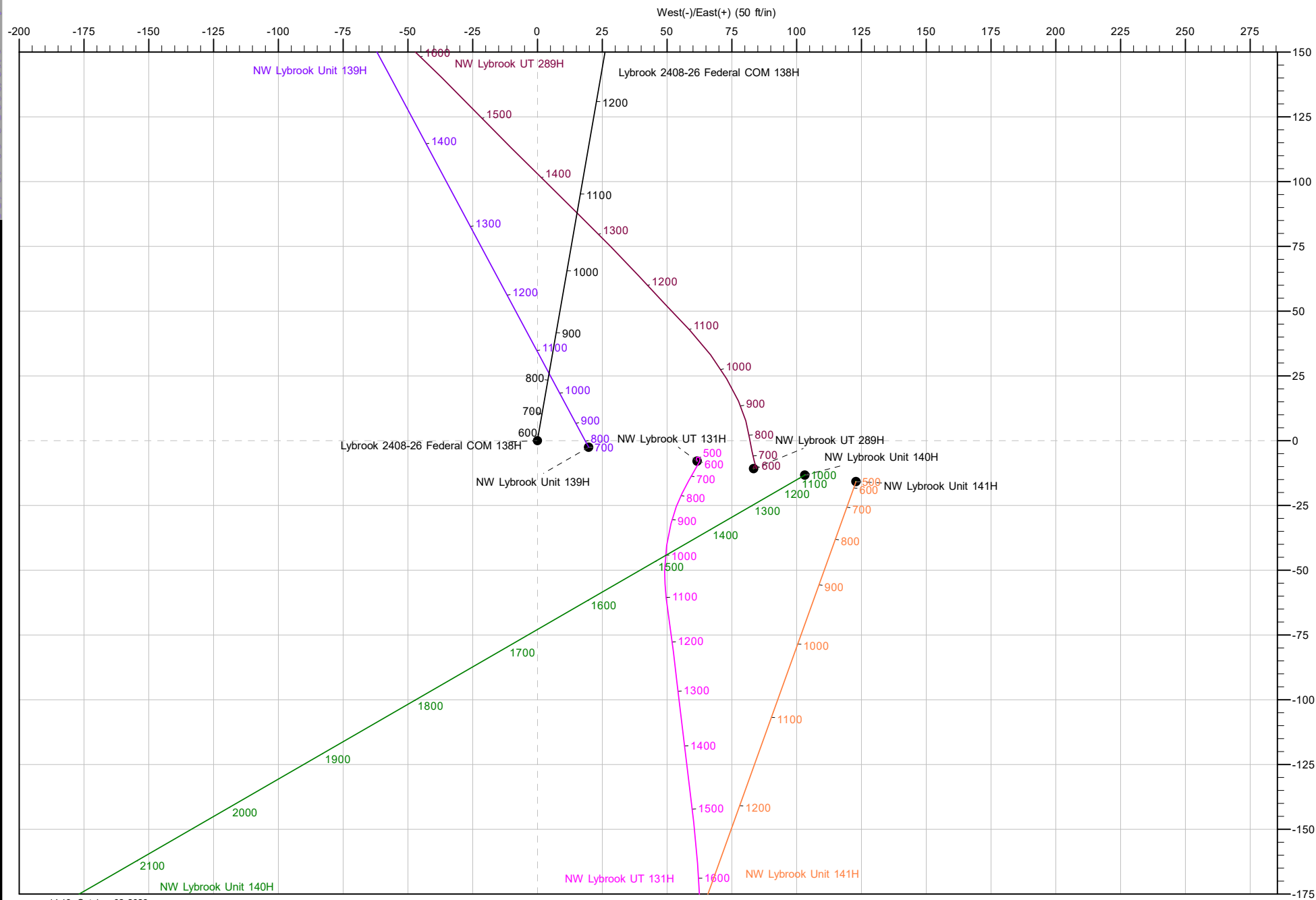
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.47°

True Vertical Depth (800 ft/in)





Well: Lybrook 2408-26 Federal COM 138H  
 Site: NW Lybrook (138, 139, 140 & 141)  
 Project: San Juan County, New Mexico NAD83 NM W  
 Design: rev0  
 Rig:





## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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                |                      |                |

|                              |                                  |                     |                    |
|------------------------------|----------------------------------|---------------------|--------------------|
| <b>Site</b>                  | NW Lybrook (138, 139, 140 & 141) |                     |                    |
| <b>Site Position:</b>        |                                  | <b>Northing:</b>    | 1,920,822.501 usft |
| <b>From:</b>                 | Lat/Long                         | <b>Easting:</b>     | 2,779,690.396 usft |
| <b>Position Uncertainty:</b> | 0.00 ft                          | <b>Slot Radius:</b> | 13-3/16 "          |
|                              |                                  | <b>Latitude:</b>    | 36.278756000       |
|                              |                                  | <b>Longitude:</b>   | -107.641306000     |

|                             |  |                            |                                     |
|-----------------------------|--|----------------------------|-------------------------------------|
| <b>Well</b>                 | Lybrook 2408-26 Federal COM 138H, Surf loc: 266 FSL 291 FWL Section 25-T24N-R08W |                            |                                     |
| <b>Well Position</b>        | <b>+N/-S</b>   | 0.00 ft                    | <b>Northing:</b> 1,920,825.010 usft |
|                             | <b>+E/-W</b>   | 0.00 ft                    | <b>Easting:</b> 2,779,670.643 usft  |
| <b>Position Uncertainty</b> | 0.00 ft  | <b>Wellhead Elevation:</b> | ft                                  |
| <b>Grid Convergence:</b>    | 0.11 °   | <b>Ground Level:</b>       | 6,847.00 ft                         |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <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> |
|                  | IGRF2020          | 2/20/2023          | 8.59                   | 62.77                | 49,177.53653798            |

|                          |                              |                   |                      |                      |  |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|--|
| <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                 | 269.974              |  |

|                                 |                      |                          |                      |                     |  |
|---------------------------------|----------------------|--------------------------|----------------------|---------------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>          | 10/2/2023                |                      |                     |  |
| <b>Depth From (ft)</b>          | <b>Depth To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>     | <b>Remarks</b>      |  |
| 1                               | 0.00                 | 11,347.47                | 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                   | 0.000              | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 500.00                     | 0.00                   | 0.000              | 500.00                     | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 1,244.97                   | 22.35                  | 9.858              | 1,226.22                   | 141.34            | 24.56             | 3.00                         | 3.00                        | 0.00                       | 9.86           |                     |
| 5,239.87                   | 22.35                  | 9.858              | 4,921.04                   | 1,637.97          | 284.62            | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 5,900.39                   | 60.00                  | 269.974            | 5,451.74                   | 1,777.36          | -13.68            | 10.00                        | 5.70                        | -15.12                     | -111.01        |                     |
| 5,960.39                   | 60.00                  | 269.974            | 5,481.74                   | 1,777.34          | -65.64            | 0.00                         | 0.00                        | 0.00                       | 0.00           |                     |
| 6,262.81                   | 90.24                  | 269.974            | 5,558.50                   | 1,777.21          | -354.54           | 10.00                        | 10.00                       | 0.00                       | 0.00           |                     |
| 11,347.47                  | 90.24                  | 269.974            | 5,537.00                   | 1,774.92          | -5,439.16         | 0.00                         | 0.00                        | 0.00                       | 0.00           | Lybrook 2408 138H L |



## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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            | 0.000       | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 100.00                         | 0.00            | 0.000       | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 200.00                         | 0.00            | 0.000       | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 300.00                         | 0.00            | 0.000       | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 400.00                         | 0.00            | 0.000       | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00                         | 0.00            | 0.000       | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| <b>KOP Begin 3°/100' build</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 600.00                         | 3.00            | 9.858       | 599.95              | 2.58       | 0.45       | -0.45                 | 3.00                  | 3.00                 | 0.00                |
| 700.00                         | 6.00            | 9.858       | 699.63              | 10.31      | 1.79       | -1.80                 | 3.00                  | 3.00                 | 0.00                |
| 800.00                         | 9.00            | 9.858       | 798.77              | 23.17      | 4.03       | -4.04                 | 3.00                  | 3.00                 | 0.00                |
| 900.00                         | 12.00           | 9.858       | 897.08              | 41.12      | 7.15       | -7.16                 | 3.00                  | 3.00                 | 0.00                |
| 1,000.00                       | 15.00           | 9.858       | 994.31              | 64.12      | 11.14      | -11.17                | 3.00                  | 3.00                 | 0.00                |
| 1,100.00                       | 18.00           | 9.858       | 1,090.18            | 92.10      | 16.00      | -16.04                | 3.00                  | 3.00                 | 0.00                |
| 1,200.00                       | 21.00           | 9.858       | 1,184.43            | 124.98     | 21.72      | -21.77                | 3.00                  | 3.00                 | 0.00                |
| 1,240.52                       | 22.22           | 9.858       | 1,222.10            | 139.68     | 24.27      | -24.33                | 3.00                  | 3.00                 | 0.00                |
| <b>Ojo Alamo</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,244.97                       | 22.35           | 9.858       | 1,226.22            | 141.34     | 24.56      | -24.62                | 3.00                  | 3.00                 | 0.00                |
| <b>Begin 22.35° tangent</b>    |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,300.00                       | 22.35           | 9.858       | 1,277.12            | 161.96     | 28.14      | -28.22                | 0.00                  | 0.00                 | 0.00                |
| 1,381.12                       | 22.35           | 9.858       | 1,352.14            | 192.35     | 33.42      | -33.51                | 0.00                  | 0.00                 | 0.00                |
| <b>Kirtland</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,400.00                       | 22.35           | 9.858       | 1,369.61            | 199.42     | 34.65      | -34.74                | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                       | 22.35           | 9.858       | 1,462.10            | 236.89     | 41.16      | -41.27                | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                       | 22.35           | 9.858       | 1,554.58            | 274.35     | 47.67      | -47.80                | 0.00                  | 0.00                 | 0.00                |
| 1,619.05                       | 22.35           | 9.858       | 1,572.21            | 281.49     | 48.91      | -49.04                | 0.00                  | 0.00                 | 0.00                |
| <b>Fruitland</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,700.00                       | 22.35           | 9.858       | 1,647.07            | 311.81     | 54.18      | -54.32                | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                       | 22.35           | 9.858       | 1,739.56            | 349.28     | 60.69      | -60.85                | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                       | 22.35           | 9.858       | 1,832.05            | 386.74     | 67.20      | -67.38                | 0.00                  | 0.00                 | 0.00                |
| 1,954.33                       | 22.35           | 9.858       | 1,882.30            | 407.09     | 70.74      | -70.92                | 0.00                  | 0.00                 | 0.00                |
| <b>Pictured Cliffs</b>         |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,000.00                       | 22.35           | 9.858       | 1,924.54            | 424.20     | 73.71      | -73.90                | 0.00                  | 0.00                 | 0.00                |
| 2,062.48                       | 22.35           | 9.858       | 1,982.33            | 447.61     | 77.78      | -77.98                | 0.00                  | 0.00                 | 0.00                |
| <b>Lewis</b>                   |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,100.00                       | 22.35           | 9.858       | 2,017.03            | 461.67     | 80.22      | -80.43                | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                       | 22.35           | 9.858       | 2,109.51            | 499.13     | 86.73      | -86.96                | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                       | 22.35           | 9.858       | 2,202.00            | 536.59     | 93.24      | -93.49                | 0.00                  | 0.00                 | 0.00                |
| 2,397.76                       | 22.35           | 9.858       | 2,292.42            | 573.22     | 99.61      | -99.87                | 0.00                  | 0.00                 | 0.00                |
| <b>Chacra_A</b>                |                 |             |                     |            |            |                       |                       |                      |                     |
| 2,400.00                       | 22.35           | 9.858       | 2,294.49            | 574.06     | 99.75      | -100.01               | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                       | 22.35           | 9.858       | 2,386.98            | 611.52     | 106.26     | -106.54               | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                       | 22.35           | 9.858       | 2,479.47            | 648.98     | 112.77     | -113.07               | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                       | 22.35           | 9.858       | 2,571.96            | 686.45     | 119.28     | -119.59               | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                       | 22.35           | 9.858       | 2,664.44            | 723.91     | 125.79     | -126.12               | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                       | 22.35           | 9.858       | 2,756.93            | 761.38     | 132.30     | -132.65               | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                       | 22.35           | 9.858       | 2,849.42            | 798.84     | 138.81     | -139.17               | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                       | 22.35           | 9.858       | 2,941.91            | 836.30     | 145.32     | -145.70               | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                       | 22.35           | 9.858       | 3,034.40            | 873.77     | 151.83     | -152.23               | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                       | 22.35           | 9.858       | 3,126.89            | 911.23     | 158.34     | -158.75               | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                       | 22.35           | 9.858       | 3,219.37            | 948.69     | 164.85     | -165.28               | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                       | 22.35           | 9.858       | 3,311.86            | 986.16     | 171.36     | -171.81               | 0.00                  | 0.00                 | 0.00                |
| 3,582.04                       | 22.35           | 9.858       | 3,387.74            | 1,016.89   | 176.70     | -177.16               | 0.00                  | 0.00                 | 0.00                |
| <b>Cliff House_Basal</b>       |                 |             |                     |            |            |                       |                       |                      |                     |



## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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) |
| 3,587.45                         | 22.35           | 9.858       | 3,392.74            | 1,018.92   | 177.05     | -177.52               | 0.00                  | 0.00                 | 0.00                |
| <b>Menefee</b>                   |                 |             |                     |            |            |                       |                       |                      |                     |
| 3,600.00                         | 22.35           | 9.858       | 3,404.35            | 1,023.62   | 177.87     | -178.33               | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                         | 22.35           | 9.858       | 3,496.84            | 1,061.08   | 184.38     | -184.86               | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                         | 22.35           | 9.858       | 3,589.33            | 1,098.55   | 190.89     | -191.39               | 0.00                  | 0.00                 | 0.00                |
| 3,900.00                         | 22.35           | 9.858       | 3,681.82            | 1,136.01   | 197.40     | -197.92               | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                         | 22.35           | 9.858       | 3,774.31            | 1,173.47   | 203.91     | -204.44               | 0.00                  | 0.00                 | 0.00                |
| 4,100.00                         | 22.35           | 9.858       | 3,866.79            | 1,210.94   | 210.42     | -210.97               | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                         | 22.35           | 9.858       | 3,959.28            | 1,248.40   | 216.93     | -217.50               | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                         | 22.35           | 9.858       | 4,051.77            | 1,285.86   | 223.44     | -224.02               | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                         | 22.35           | 9.858       | 4,144.26            | 1,323.33   | 229.95     | -230.55               | 0.00                  | 0.00                 | 0.00                |
| 4,500.00                         | 22.35           | 9.858       | 4,236.75            | 1,360.79   | 236.46     | -237.08               | 0.00                  | 0.00                 | 0.00                |
| 4,528.39                         | 22.35           | 9.858       | 4,263.00            | 1,371.43   | 238.31     | -238.93               | 0.00                  | 0.00                 | 0.00                |
| <b>Point Lookout</b>             |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,600.00                         | 22.35           | 9.858       | 4,329.24            | 1,398.26   | 242.97     | -243.60               | 0.00                  | 0.00                 | 0.00                |
| 4,700.00                         | 22.35           | 9.858       | 4,421.72            | 1,435.72   | 249.48     | -250.13               | 0.00                  | 0.00                 | 0.00                |
| 4,777.14                         | 22.35           | 9.858       | 4,493.07            | 1,464.62   | 254.50     | -255.16               | 0.00                  | 0.00                 | 0.00                |
| <b>Mancos</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,800.00                         | 22.35           | 9.858       | 4,514.21            | 1,473.18   | 255.99     | -256.66               | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                         | 22.35           | 9.858       | 4,606.70            | 1,510.65   | 262.50     | -263.18               | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                         | 22.35           | 9.858       | 4,699.19            | 1,548.11   | 269.01     | -269.71               | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                         | 22.35           | 9.858       | 4,791.68            | 1,585.57   | 275.52     | -276.24               | 0.00                  | 0.00                 | 0.00                |
| 5,177.31                         | 22.35           | 9.858       | 4,863.18            | 1,614.53   | 280.55     | -281.28               | 0.00                  | 0.00                 | 0.00                |
| <b>MNCS_A</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,200.00                         | 22.35           | 9.858       | 4,884.17            | 1,623.04   | 282.03     | -282.76               | 0.00                  | 0.00                 | 0.00                |
| 5,239.87                         | 22.35           | 9.858       | 4,921.04            | 1,637.97   | 284.62     | -285.37               | 0.00                  | 0.00                 | 0.00                |
| <b>Begin 10°/100' build/turn</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,250.00                         | 22.01           | 7.334       | 4,930.42            | 1,641.75   | 285.20     | -285.94               | 10.00                 | -3.39                | -24.92              |
| 5,274.51                         | 21.34           | 0.943       | 4,953.20            | 1,650.77   | 285.86     | -286.60               | 10.00                 | -2.71                | -26.08              |
| <b>MNCS_B</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,300.00                         | 20.92           | 353.964     | 4,976.98            | 1,659.93   | 285.45     | -286.21               | 10.00                 | -1.65                | -27.38              |
| 5,350.00                         | 20.95           | 339.941     | 5,023.71            | 1,677.22   | 281.45     | -282.21               | 10.00                 | 0.06                 | -28.05              |
| 5,400.00                         | 22.09           | 326.638     | 5,070.25            | 1,693.48   | 273.20     | -273.97               | 10.00                 | 2.28                 | -26.61              |
| 5,403.12                         | 22.19           | 325.858     | 5,073.14            | 1,694.46   | 272.55     | -273.32               | 10.00                 | 3.36                 | -24.99              |
| <b>MNCS_C</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,450.00                         | 24.18           | 315.051     | 5,116.25            | 1,708.59   | 260.79     | -261.57               | 10.00                 | 4.24                 | -23.05              |
| 5,490.68                         | 26.43           | 307.112     | 5,153.04            | 1,719.95   | 247.68     | -248.46               | 10.00                 | 5.54                 | -19.51              |
| <b>MNCS_Cms</b>                  |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,500.00                         | 27.00           | 305.476     | 5,161.36            | 1,722.43   | 244.30     | -245.08               | 10.00                 | 6.14                 | -17.56              |
| 5,550.00                         | 30.36           | 297.727     | 5,205.24            | 1,734.90   | 223.86     | -224.65               | 10.00                 | 6.70                 | -15.50              |
| 5,576.52                         | 32.29           | 294.240     | 5,227.89            | 1,740.93   | 211.47     | -212.26               | 10.00                 | 7.30                 | -13.15              |
| <b>MNCS_D</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,600.00                         | 34.08           | 291.455     | 5,247.54            | 1,745.91   | 199.63     | -200.42               | 10.00                 | 7.61                 | -11.86              |
| 5,650.00                         | 38.06           | 286.317     | 5,287.96            | 1,755.37   | 171.78     | -172.57               | 10.00                 | 7.97                 | -10.28              |
| 5,675.39                         | 40.16           | 284.050     | 5,307.66            | 1,759.56   | 156.32     | -157.12               | 10.00                 | 8.26                 | -8.93               |
| <b>MNCS_E</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,700.00                         | 42.23           | 282.035     | 5,326.18            | 1,763.21   | 140.53     | -141.33               | 10.00                 | 8.42                 | -8.19               |
| 5,750.00                         | 46.54           | 278.399     | 5,361.91            | 1,769.37   | 106.12     | -106.93               | 10.00                 | 8.61                 | -7.27               |
| 5,758.07                         | 47.25           | 277.862     | 5,367.42            | 1,770.20   | 100.29     | -101.09               | 10.00                 | 8.74                 | -6.66               |
| <b>MNCS_F</b>                    |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,800.00                         | 50.95           | 275.253     | 5,394.87            | 1,773.80   | 68.81      | -69.62                | 10.00                 | 8.83                 | -6.22               |
| 5,850.00                         | 55.43           | 272.480     | 5,424.83            | 1,776.47   | 28.89      | -29.70                | 10.00                 | 8.96                 | -5.55               |



## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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) |
| 5,900.39                    | 60.00           | 269.974     | 5,451.74            | 1,777.36   | -13.68     | 12.87                 | 10.00                 | 9.07                 | -4.97               |
| <b>Begin 60.00° tangent</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,900.80                    | 60.00           | 269.974     | 5,451.94            | 1,777.36   | -14.03     | 13.23                 | 0.00                  | 0.00                 | 0.00                |
| <b>MNCS_G</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,960.39                    | 60.00           | 269.974     | 5,481.74            | 1,777.34   | -65.64     | 64.83                 | 0.00                  | 0.00                 | 0.00                |
| <b>Begin 10°/100' build</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 5,985.11                    | 62.47           | 269.974     | 5,493.64            | 1,777.33   | -87.32     | 86.51                 | 10.00                 | 10.00                | 0.00                |
| <b>MNCS_H</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,000.00                    | 63.96           | 269.974     | 5,500.35            | 1,777.32   | -100.60    | 99.80                 | 10.00                 | 10.00                | 0.00                |
| 6,050.00                    | 68.96           | 269.974     | 5,520.31            | 1,777.30   | -146.43    | 145.62                | 10.00                 | 10.00                | 0.00                |
| 6,100.00                    | 73.96           | 269.974     | 5,536.20            | 1,777.28   | -193.82    | 193.01                | 10.00                 | 10.00                | 0.00                |
| 6,131.49                    | 77.11           | 269.974     | 5,544.06            | 1,777.26   | -224.31    | 223.50                | 10.00                 | 10.00                | 0.00                |
| <b>MNCS_I</b>               |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,150.00                    | 78.96           | 269.974     | 5,547.90            | 1,777.26   | -242.42    | 241.61                | 10.00                 | 10.00                | 0.00                |
| 6,200.00                    | 83.96           | 269.974     | 5,555.32            | 1,777.23   | -291.85    | 291.04                | 10.00                 | 10.00                | 0.00                |
| 6,250.00                    | 88.96           | 269.974     | 5,558.41            | 1,777.21   | -341.73    | 340.93                | 10.00                 | 10.00                | 0.00                |
| 6,262.81                    | 90.24           | 269.974     | 5,558.50            | 1,777.21   | -354.54    | 353.74                | 10.00                 | 10.00                | 0.00                |
| <b>Begin 90.24° lateral</b> |                 |             |                     |            |            |                       |                       |                      |                     |
| 6,300.00                    | 90.24           | 269.974     | 5,558.34            | 1,777.19   | -391.73    | 390.93                | 0.00                  | 0.00                 | 0.00                |
| 6,400.00                    | 90.24           | 269.974     | 5,557.92            | 1,777.14   | -491.73    | 490.93                | 0.00                  | 0.00                 | 0.00                |
| 6,500.00                    | 90.24           | 269.974     | 5,557.49            | 1,777.10   | -591.73    | 590.92                | 0.00                  | 0.00                 | 0.00                |
| 6,600.00                    | 90.24           | 269.974     | 5,557.07            | 1,777.05   | -691.73    | 690.92                | 0.00                  | 0.00                 | 0.00                |
| 6,700.00                    | 90.24           | 269.974     | 5,556.65            | 1,777.01   | -791.73    | 790.92                | 0.00                  | 0.00                 | 0.00                |
| 6,800.00                    | 90.24           | 269.974     | 5,556.23            | 1,776.97   | -891.73    | 890.92                | 0.00                  | 0.00                 | 0.00                |
| 6,900.00                    | 90.24           | 269.974     | 5,555.80            | 1,776.92   | -991.73    | 990.92                | 0.00                  | 0.00                 | 0.00                |
| 7,000.00                    | 90.24           | 269.974     | 5,555.38            | 1,776.88   | -1,091.73  | 1,090.92              | 0.00                  | 0.00                 | 0.00                |
| 7,100.00                    | 90.24           | 269.974     | 5,554.96            | 1,776.83   | -1,191.73  | 1,190.92              | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                    | 90.24           | 269.974     | 5,554.53            | 1,776.79   | -1,291.73  | 1,290.92              | 0.00                  | 0.00                 | 0.00                |
| 7,300.00                    | 90.24           | 269.974     | 5,554.11            | 1,776.74   | -1,391.72  | 1,390.92              | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                    | 90.24           | 269.974     | 5,553.69            | 1,776.70   | -1,491.72  | 1,490.92              | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                    | 90.24           | 269.974     | 5,553.27            | 1,776.65   | -1,591.72  | 1,590.92              | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                    | 90.24           | 269.974     | 5,552.84            | 1,776.61   | -1,691.72  | 1,690.92              | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                    | 90.24           | 269.974     | 5,552.42            | 1,776.56   | -1,791.72  | 1,790.91              | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                    | 90.24           | 269.974     | 5,552.00            | 1,776.52   | -1,891.72  | 1,890.91              | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                    | 90.24           | 269.974     | 5,551.58            | 1,776.47   | -1,991.72  | 1,990.91              | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                    | 90.24           | 269.974     | 5,551.15            | 1,776.43   | -2,091.72  | 2,090.91              | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                    | 90.24           | 269.974     | 5,550.73            | 1,776.38   | -2,191.72  | 2,190.91              | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                    | 90.24           | 269.974     | 5,550.31            | 1,776.34   | -2,291.72  | 2,290.91              | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                    | 90.24           | 269.974     | 5,549.88            | 1,776.29   | -2,391.72  | 2,390.91              | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                    | 90.24           | 269.974     | 5,549.46            | 1,776.25   | -2,491.71  | 2,490.91              | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                    | 90.24           | 269.974     | 5,549.04            | 1,776.20   | -2,591.71  | 2,590.91              | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                    | 90.24           | 269.974     | 5,548.62            | 1,776.16   | -2,691.71  | 2,690.91              | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                    | 90.24           | 269.974     | 5,548.19            | 1,776.11   | -2,791.71  | 2,790.91              | 0.00                  | 0.00                 | 0.00                |
| 8,800.00                    | 90.24           | 269.974     | 5,547.77            | 1,776.07   | -2,891.71  | 2,890.90              | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                    | 90.24           | 269.974     | 5,547.35            | 1,776.02   | -2,991.71  | 2,990.90              | 0.00                  | 0.00                 | 0.00                |
| 9,000.00                    | 90.24           | 269.974     | 5,546.92            | 1,775.98   | -3,091.71  | 3,090.90              | 0.00                  | 0.00                 | 0.00                |
| 9,100.00                    | 90.24           | 269.974     | 5,546.50            | 1,775.93   | -3,191.71  | 3,190.90              | 0.00                  | 0.00                 | 0.00                |
| 9,200.00                    | 90.24           | 269.974     | 5,546.08            | 1,775.89   | -3,291.71  | 3,290.90              | 0.00                  | 0.00                 | 0.00                |
| 9,300.00                    | 90.24           | 269.974     | 5,545.66            | 1,775.84   | -3,391.71  | 3,390.90              | 0.00                  | 0.00                 | 0.00                |
| 9,400.00                    | 90.24           | 269.974     | 5,545.23            | 1,775.80   | -3,491.71  | 3,490.90              | 0.00                  | 0.00                 | 0.00                |
| 9,500.00                    | 90.24           | 269.974     | 5,544.81            | 1,775.75   | -3,591.70  | 3,590.90              | 0.00                  | 0.00                 | 0.00                |
| 9,600.00                    | 90.24           | 269.974     | 5,544.39            | 1,775.71   | -3,691.70  | 3,690.90              | 0.00                  | 0.00                 | 0.00                |
| 9,700.00                    | 90.24           | 269.974     | 5,543.97            | 1,775.66   | -3,791.70  | 3,790.90              | 0.00                  | 0.00                 | 0.00                |





## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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) |  |
| 9,800.00                        | 90.24           | 269.974     | 5,543.54            | 1,775.62   | -3,891.70  | 3,890.90              | 0.00                  | 0.00                 | 0.00                |  |
| 9,900.00                        | 90.24           | 269.974     | 5,543.12            | 1,775.57   | -3,991.70  | 3,990.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,000.00                       | 90.24           | 269.974     | 5,542.70            | 1,775.53   | -4,091.70  | 4,090.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,100.00                       | 90.24           | 269.974     | 5,542.27            | 1,775.48   | -4,191.70  | 4,190.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,200.00                       | 90.24           | 269.974     | 5,541.85            | 1,775.44   | -4,291.70  | 4,290.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,300.00                       | 90.24           | 269.974     | 5,541.43            | 1,775.39   | -4,391.70  | 4,390.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,400.00                       | 90.24           | 269.974     | 5,541.01            | 1,775.35   | -4,491.70  | 4,490.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,500.00                       | 90.24           | 269.974     | 5,540.58            | 1,775.31   | -4,591.70  | 4,590.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,600.00                       | 90.24           | 269.974     | 5,540.16            | 1,775.26   | -4,691.69  | 4,690.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,700.00                       | 90.24           | 269.974     | 5,539.74            | 1,775.22   | -4,791.69  | 4,790.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,800.00                       | 90.24           | 269.974     | 5,539.31            | 1,775.17   | -4,891.69  | 4,890.89              | 0.00                  | 0.00                 | 0.00                |  |
| 10,900.00                       | 90.24           | 269.974     | 5,538.89            | 1,775.13   | -4,991.69  | 4,990.89              | 0.00                  | 0.00                 | 0.00                |  |
| 11,000.00                       | 90.24           | 269.974     | 5,538.47            | 1,775.08   | -5,091.69  | 5,090.88              | 0.00                  | 0.00                 | 0.00                |  |
| 11,100.00                       | 90.24           | 269.974     | 5,538.05            | 1,775.04   | -5,191.69  | 5,190.88              | 0.00                  | 0.00                 | 0.00                |  |
| 11,200.00                       | 90.24           | 269.974     | 5,537.62            | 1,774.99   | -5,291.69  | 5,290.88              | 0.00                  | 0.00                 | 0.00                |  |
| 11,300.00                       | 90.24           | 269.974     | 5,537.20            | 1,774.95   | -5,391.69  | 5,390.88              | 0.00                  | 0.00                 | 0.00                |  |
| 11,347.47                       | 90.24           | 269.974     | 5,537.00            | 1,774.92   | -5,439.16  | 5,438.36              | 0.00                  | 0.00                 | 0.00                |  |
| PBHL/TD 11347.47 MD 5537.00 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      |  |
| Lybrook 2408 138H LTP<br>- plan hits target center<br>- Point   | 0.00          | 0.000        | 5,537.00 | 1,774.92   | -5,439.16  | 1,922,599.931   | 2,774,231.493  | 36.283667000 | -107.659816000 |  |
| Lybrook 2408 138H FTP<br>- plan hits target center<br>- Point   | 0.00          | 0.000        | 5,558.50 | 1,777.21   | -354.54    | 1,922,602.216   | 2,779,316.101  | 36.283647000 | -107.642564000 |  |
| Lybrook 2408 138H 0 VS<br>- plan misses target center by 100.20ft at 5943.36ft MD (5473.23 TVD, 1777.34 N, -50.90 E)<br>- Point | 0.00          | 0.000        | 5,560.00 | 1,777.37   | -0.80      | 1,922,602.377   | 2,779,669.843  | 36.283645520 | -107.641363759 |  |

| 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            |
| 3,748.83            | 3,542.00            | 9 5/8" Csg  |  |  | 9-5/8               | 12-1/4            |





## Planning Report

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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 (°) |  |
| 1,240.52            | 1,222.10            | Ojo Alamo         |           | -0.24   | 269.974           |  |
| 1,381.12            | 1,352.14            | Kirtland          |           | -0.24   | 269.974           |  |
| 1,619.05            | 1,572.21            | Fruitland         |           | -0.24   | 269.974           |  |
| 1,954.33            | 1,882.30            | Pictured Cliffs   |           | -0.24   | 269.974           |  |
| 2,062.48            | 1,982.33            | Lewis             |           | -0.24   | 269.974           |  |
| 2,397.76            | 2,292.42            | Chacra_A          |           | -0.24   | 269.974           |  |
| 3,582.04            | 3,387.74            | Cliff House_Basal |           | -0.24   | 269.974           |  |
| 3,587.45            | 3,392.74            | Menefee           |           | -0.24   | 269.974           |  |
| 4,528.39            | 4,263.00            | Point Lookout     |           | -0.24   | 269.974           |  |
| 4,777.14            | 4,493.07            | Mancos            |           | -0.24   | 269.974           |  |
| 5,177.31            | 4,863.18            | MNCS_A            |           | -0.24   | 269.974           |  |
| 5,274.51            | 4,953.20            | MNCS_B            |           | -0.24   | 269.974           |  |
| 5,403.12            | 5,073.14            | MNCS_C            |           | -0.24   | 269.974           |  |
| 5,490.68            | 5,153.04            | MNCS_Cms          |           | -0.24   | 269.974           |  |
| 5,576.52            | 5,227.89            | MNCS_D            |           | -0.24   | 269.974           |  |
| 5,675.39            | 5,307.66            | MNCS_E            |           | -0.24   | 269.974           |  |
| 5,758.07            | 5,367.42            | MNCS_F            |           | -0.24   | 269.974           |  |
| 5,900.80            | 5,451.94            | MNCS_G            |           | -0.24   | 269.974           |  |
| 5,985.11            | 5,493.64            | MNCS_H            |           | -0.24   | 269.974           |  |
| 6,131.49            | 5,544.06            | MNCS_I            |           | -0.24   | 269.974           |  |

| Plan Annotations    |                     |                   |            |                                 |  |
|---------------------|---------------------|-------------------|------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                         |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                 |  |
| 500.00              | 500.00              | 0.00              | 0.00       | KOP Begin 3°/100' build         |  |
| 1,244.97            | 1,226.22            | 141.34            | 24.56      | Begin 22.35° tangent            |  |
| 5,239.87            | 4,921.04            | 1,637.97          | 284.62     | Begin 10°/100' build/turn       |  |
| 5,900.39            | 5,451.74            | 1,777.36          | -13.68     | Begin 60.00° tangent            |  |
| 5,960.39            | 5,481.74            | 1,777.34          | -65.64     | Begin 10°/100' build            |  |
| 6,262.81            | 5,558.50            | 1,777.21          | -354.54    | Begin 90.24° lateral            |  |
| 11,347.47           | 5,537.00            | 1,774.92          | -5,439.16  | PBHL/TD 11347.47 MD 5537.00 TVD |  |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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                  | NW Lybrook (138, 139, 140 & 141) |              |                    |            |                |
| Site Position:        |                                  | Northing:    | 1,920,822.501 usft | Latitude:  | 36.278756000   |
| From:                 | Lat/Long                         | Easting:     | 2,779,690.396 usft | Longitude: | -107.641306000 |
| Position Uncertainty: | 0.00 ft                          | Slot Radius: | 13-3/16 "          |            |                |

|                      |  |         |                     |                    |               |                |
|----------------------|--|---------|---------------------|--------------------|---------------|----------------|
| Well                 | Lybrook 2408-26 Federal COM 138H, Surf loc: 266 FSL 291 FWL Section 25-T24N-R08W |         |                     |                    |               |                |
| Well Position        | +N/-S  | 0.00 ft | Northing:           | 1,920,825.010 usft | Latitude:     | 36.278763000   |
|                      | +E/-W  | 0.00 ft | Easting:            | 2,779,670.643 usft | Longitude:    | -107.641373000 |
| Position Uncertainty |  | 0.00 ft | Wellhead Elevation: | ft                 | Ground Level: | 6,847.00 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> |
|                  | IGRF2020          | 2/20/2023          | 8.59                   | 62.77                | 49,177.53653798            |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <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                 | 269.974              |

|                                 |                      |                                |                  |                |
|---------------------------------|----------------------|--------------------------------|------------------|----------------|
| <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                 | 11,347.47 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                   | 0.000              | 0.00                       | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                      |
| 500.00                     | 0.00                   | 0.000              | 500.00                     | 0.00              | 0.00              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                      |
| 1,244.97                   | 22.35                  | 9.858              | 1,226.22                   | 141.34            | 24.56             | 3.00                         | 3.00                        | 0.00                       | 9.86           |                      |
| 5,239.87                   | 22.35                  | 9.858              | 4,921.04                   | 1,637.97          | 284.62            | 0.00                         | 0.00                        | 0.00                       | 0.00           |                      |
| 5,900.39                   | 60.00                  | 269.974            | 5,451.74                   | 1,777.36          | -13.68            | 10.00                        | 5.70                        | -15.12                     | -111.01        |                      |
| 5,960.39                   | 60.00                  | 269.974            | 5,481.74                   | 1,777.34          | -65.64            | 0.00                         | 0.00                        | 0.00                       | 0.00           |                      |
| 6,262.81                   | 90.24                  | 269.974            | 5,558.50                   | 1,777.21          | -354.54           | 10.00                        | 10.00                       | 0.00                       | 0.00           |                      |
| 11,347.47                  | 90.24                  | 269.974            | 5,537.00                   | 1,774.92          | -5,439.16         | 0.00                         | 0.00                        | 0.00                       | 0.00           | Lybrook 2408 138H L' |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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            | 0.000       | 0.00                | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| 100.00                         | 0.00            | 0.000       | 100.00              | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| 200.00                         | 0.00            | 0.000       | 200.00              | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| 300.00                         | 0.00            | 0.000       | 300.00              | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| 400.00                         | 0.00            | 0.000       | 400.00              | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| 500.00                         | 0.00            | 0.000       | 500.00              | 0.00       | 0.00       | 1,920,825.010       | 2,779,670.643      | 36.278763000 | -107.641373000 |
| <b>KOP Begin 3°/100' build</b> |                 |             |                     |            |            |                     |                    |              |                |
| 600.00                         | 3.00            | 9.858       | 599.95              | 2.58       | 0.45       | 1,920,827.589       | 2,779,671.092      | 36.278770082 | -107.641371463 |
| 700.00                         | 6.00            | 9.858       | 699.63              | 10.31      | 1.79       | 1,920,835.318       | 2,779,672.435      | 36.278791307 | -107.641366854 |
| 800.00                         | 9.00            | 9.858       | 798.77              | 23.17      | 4.03       | 1,920,848.177       | 2,779,674.669      | 36.278826617 | -107.641359187 |
| 900.00                         | 12.00           | 9.858       | 897.08              | 41.12      | 7.15       | 1,920,866.129       | 2,779,677.789      | 36.278875916 | -107.641348482 |
| 1,000.00                       | 15.00           | 9.858       | 994.31              | 64.12      | 11.14      | 1,920,889.126       | 2,779,681.785      | 36.278939069 | -107.641334770 |
| 1,100.00                       | 18.00           | 9.858       | 1,090.18            | 92.10      | 16.00      | 1,920,917.105       | 2,779,686.646      | 36.279015902 | -107.641318086 |
| 1,200.00                       | 21.00           | 9.858       | 1,184.43            | 124.98     | 21.72      | 1,920,949.989       | 2,779,692.361      | 36.279106205 | -107.641298478 |
| 1,240.52                       | 22.22           | 9.858       | 1,222.10            | 139.68     | 24.27      | 1,920,964.689       | 2,779,694.915      | 36.279146573 | -107.641289713 |
| <b>Ojo Alamo</b>               |                 |             |                     |            |            |                     |                    |              |                |
| 1,244.97                       | 22.35           | 9.858       | 1,226.22            | 141.34     | 24.56      | 1,920,966.353       | 2,779,695.204      | 36.279151141 | -107.641288721 |
| <b>Begin 22.35° tangent</b>    |                 |             |                     |            |            |                     |                    |              |                |
| 1,300.00                       | 22.35           | 9.858       | 1,277.12            | 161.96     | 28.14      | 1,920,986.969       | 2,779,698.786      | 36.279207755 | -107.641276428 |
| 1,381.12                       | 22.35           | 9.858       | 1,352.14            | 192.35     | 33.42      | 1,921,017.357       | 2,779,704.067      | 36.279291205 | -107.641258308 |
| <b>Kirtland</b>                |                 |             |                     |            |            |                     |                    |              |                |
| 1,400.00                       | 22.35           | 9.858       | 1,369.61            | 199.42     | 34.65      | 1,921,024.432       | 2,779,705.296      | 36.279310633 | -107.641254090 |
| 1,500.00                       | 22.35           | 9.858       | 1,462.10            | 236.89     | 41.16      | 1,921,061.896       | 2,779,711.806      | 36.279413512 | -107.641231751 |
| 1,600.00                       | 22.35           | 9.858       | 1,554.58            | 274.35     | 47.67      | 1,921,099.359       | 2,779,718.316      | 36.279516391 | -107.641209412 |
| 1,619.05                       | 22.35           | 9.858       | 1,572.21            | 281.49     | 48.91      | 1,921,106.497       | 2,779,719.556      | 36.279535992 | -107.641205156 |
| <b>Fruitland</b>               |                 |             |                     |            |            |                     |                    |              |                |
| 1,700.00                       | 22.35           | 9.858       | 1,647.07            | 311.81     | 54.18      | 1,921,136.822       | 2,779,724.826      | 36.279619269 | -107.641187073 |
| 1,800.00                       | 22.35           | 9.858       | 1,739.56            | 349.28     | 60.69      | 1,921,174.286       | 2,779,731.336      | 36.279722148 | -107.641164734 |
| 1,900.00                       | 22.35           | 9.858       | 1,832.05            | 386.74     | 67.20      | 1,921,211.749       | 2,779,737.845      | 36.279825026 | -107.641142395 |
| 1,954.33                       | 22.35           | 9.858       | 1,882.30            | 407.09     | 70.74      | 1,921,232.103       | 2,779,741.382      | 36.279880919 | -107.641130258 |
| <b>Pictured Cliffs</b>         |                 |             |                     |            |            |                     |                    |              |                |
| 2,000.00                       | 22.35           | 9.858       | 1,924.54            | 424.20     | 73.71      | 1,921,249.213       | 2,779,744.355      | 36.279927905 | -107.641120056 |
| 2,062.48                       | 22.35           | 9.858       | 1,982.33            | 447.61     | 77.78      | 1,921,272.621       | 2,779,748.423      | 36.279992186 | -107.641106098 |
| <b>Lewis</b>                   |                 |             |                     |            |            |                     |                    |              |                |
| 2,100.00                       | 22.35           | 9.858       | 2,017.03            | 461.67     | 80.22      | 1,921,286.676       | 2,779,750.865      | 36.280030783 | -107.641097717 |
| 2,200.00                       | 22.35           | 9.858       | 2,109.51            | 499.13     | 86.73      | 1,921,324.140       | 2,779,757.375      | 36.280133662 | -107.641075378 |
| 2,300.00                       | 22.35           | 9.858       | 2,202.00            | 536.59     | 93.24      | 1,921,361.603       | 2,779,763.885      | 36.280236540 | -107.641053038 |
| 2,397.76                       | 22.35           | 9.858       | 2,292.42            | 573.22     | 99.61      | 1,921,398.227       | 2,779,770.249      | 36.280337113 | -107.641031200 |
| <b>Chacra_A</b>                |                 |             |                     |            |            |                     |                    |              |                |
| 2,400.00                       | 22.35           | 9.858       | 2,294.49            | 574.06     | 99.75      | 1,921,399.067       | 2,779,770.395      | 36.280339419 | -107.641030699 |
| 2,500.00                       | 22.35           | 9.858       | 2,386.98            | 611.52     | 106.26     | 1,921,436.530       | 2,779,776.905      | 36.280442297 | -107.641008360 |
| 2,600.00                       | 22.35           | 9.858       | 2,479.47            | 648.98     | 112.77     | 1,921,473.993       | 2,779,783.415      | 36.280545175 | -107.640986020 |
| 2,700.00                       | 22.35           | 9.858       | 2,571.96            | 686.45     | 119.28     | 1,921,511.457       | 2,779,789.924      | 36.280648054 | -107.640963681 |
| 2,800.00                       | 22.35           | 9.858       | 2,664.44            | 723.91     | 125.79     | 1,921,548.920       | 2,779,796.434      | 36.280750932 | -107.640941341 |
| 2,900.00                       | 22.35           | 9.858       | 2,756.93            | 761.38     | 132.30     | 1,921,586.384       | 2,779,802.944      | 36.280853811 | -107.640919002 |
| 3,000.00                       | 22.35           | 9.858       | 2,849.42            | 798.84     | 138.81     | 1,921,623.847       | 2,779,809.454      | 36.280956689 | -107.640896662 |
| 3,100.00                       | 22.35           | 9.858       | 2,941.91            | 836.30     | 145.32     | 1,921,661.311       | 2,779,815.964      | 36.281059568 | -107.640874322 |
| 3,200.00                       | 22.35           | 9.858       | 3,034.40            | 873.77     | 151.83     | 1,921,698.774       | 2,779,822.474      | 36.281162446 | -107.640851982 |
| 3,300.00                       | 22.35           | 9.858       | 3,126.89            | 911.23     | 158.34     | 1,921,736.238       | 2,779,828.984      | 36.281265325 | -107.640829643 |
| 3,400.00                       | 22.35           | 9.858       | 3,219.37            | 948.69     | 164.85     | 1,921,773.701       | 2,779,835.493      | 36.281368203 | -107.640807303 |
| 3,500.00                       | 22.35           | 9.858       | 3,311.86            | 986.16     | 171.36     | 1,921,811.164       | 2,779,842.003      | 36.281471081 | -107.640784963 |
| 3,582.04                       | 22.35           | 9.858       | 3,387.74            | 1,016.89   | 176.70     | 1,921,841.900       | 2,779,847.344      | 36.281555484 | -107.640766635 |
| <b>Cliff House_Basal</b>       |                 |             |                     |            |            |                     |                    |              |                |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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      |  |
| 3,587.45                  | 22.35              | 9.858          | 3,392.74                  | 1,018.92      | 177.05        | 1,921,843.926             | 2,779,847.696            | 36.281561048 | -107.640765427 |  |
| Menefee                   |                    |                |                           |               |               |                           |                          |              |                |  |
| 3,600.00                  | 22.35              | 9.858          | 3,404.35                  | 1,023.62      | 177.87        | 1,921,848.628             | 2,779,848.513            | 36.281573960 | -107.640762623 |  |
| 3,700.00                  | 22.35              | 9.858          | 3,496.84                  | 1,061.08      | 184.38        | 1,921,886.091             | 2,779,855.023            | 36.281676838 | -107.640740283 |  |
| 3,800.00                  | 22.35              | 9.858          | 3,589.33                  | 1,098.55      | 190.89        | 1,921,923.555             | 2,779,861.533            | 36.281779717 | -107.640717942 |  |
| 3,900.00                  | 22.35              | 9.858          | 3,681.82                  | 1,136.01      | 197.40        | 1,921,961.018             | 2,779,868.043            | 36.281882595 | -107.640695602 |  |
| 4,000.00                  | 22.35              | 9.858          | 3,774.31                  | 1,173.47      | 203.91        | 1,921,998.482             | 2,779,874.553            | 36.281985473 | -107.640673262 |  |
| 4,100.00                  | 22.35              | 9.858          | 3,866.79                  | 1,210.94      | 210.42        | 1,922,035.945             | 2,779,881.062            | 36.282088352 | -107.640650922 |  |
| 4,200.00                  | 22.35              | 9.858          | 3,959.28                  | 1,248.40      | 216.93        | 1,922,073.409             | 2,779,887.572            | 36.282191230 | -107.640628581 |  |
| 4,300.00                  | 22.35              | 9.858          | 4,051.77                  | 1,285.86      | 223.44        | 1,922,110.872             | 2,779,894.082            | 36.282294108 | -107.640606241 |  |
| 4,400.00                  | 22.35              | 9.858          | 4,144.26                  | 1,323.33      | 229.95        | 1,922,148.336             | 2,779,900.592            | 36.282396987 | -107.640583900 |  |
| 4,500.00                  | 22.35              | 9.858          | 4,236.75                  | 1,360.79      | 236.46        | 1,922,185.799             | 2,779,907.102            | 36.282499865 | -107.640561560 |  |
| 4,528.39                  | 22.35              | 9.858          | 4,263.00                  | 1,371.43      | 238.31        | 1,922,196.433             | 2,779,908.950            | 36.282529068 | -107.640555218 |  |
| Point Lookout             |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,600.00                  | 22.35              | 9.858          | 4,329.24                  | 1,398.26      | 242.97        | 1,922,223.262             | 2,779,913.612            | 36.282602744 | -107.640539219 |  |
| 4,700.00                  | 22.35              | 9.858          | 4,421.72                  | 1,435.72      | 249.48        | 1,922,260.726             | 2,779,920.122            | 36.282705622 | -107.640516879 |  |
| 4,777.14                  | 22.35              | 9.858          | 4,493.07                  | 1,464.62      | 254.50        | 1,922,289.625             | 2,779,925.143            | 36.282784981 | -107.640499645 |  |
| Mancos                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 4,800.00                  | 22.35              | 9.858          | 4,514.21                  | 1,473.18      | 255.99        | 1,922,298.189             | 2,779,926.632            | 36.282808500 | -107.640494538 |  |
| 4,900.00                  | 22.35              | 9.858          | 4,606.70                  | 1,510.65      | 262.50        | 1,922,335.653             | 2,779,933.141            | 36.282911379 | -107.640472197 |  |
| 5,000.00                  | 22.35              | 9.858          | 4,699.19                  | 1,548.11      | 269.01        | 1,922,373.116             | 2,779,939.651            | 36.283014257 | -107.640449856 |  |
| 5,100.00                  | 22.35              | 9.858          | 4,791.68                  | 1,585.57      | 275.52        | 1,922,410.580             | 2,779,946.161            | 36.283117135 | -107.640427515 |  |
| 5,177.31                  | 22.35              | 9.858          | 4,863.18                  | 1,614.53      | 280.55        | 1,922,439.542             | 2,779,951.194            | 36.283196668 | -107.640410244 |  |
| MNCS_A                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,200.00                  | 22.35              | 9.858          | 4,884.17                  | 1,623.04      | 282.03        | 1,922,448.043             | 2,779,952.671            | 36.283220013 | -107.640405174 |  |
| 5,239.87                  | 22.35              | 9.858          | 4,921.04                  | 1,637.97      | 284.62        | 1,922,462.981             | 2,779,955.267            | 36.283261034 | -107.640396266 |  |
| Begin 10°/100' build/turn |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,250.00                  | 22.01              | 7.334          | 4,930.42                  | 1,641.75      | 285.20        | 1,922,466.760             | 2,779,955.838            | 36.283271411 | -107.640394300 |  |
| 5,274.51                  | 21.34              | 0.943          | 4,953.20                  | 1,650.77      | 285.86        | 1,922,475.774             | 2,779,956.498            | 36.283296170 | -107.640392002 |  |
| MNCS_B                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,300.00                  | 20.92              | 353.964        | 4,976.98                  | 1,659.93      | 285.45        | 1,922,484.939             | 2,779,956.096            | 36.283321351 | -107.640393305 |  |
| 5,350.00                  | 20.95              | 339.941        | 5,023.71                  | 1,677.22      | 281.45        | 1,922,502.224             | 2,779,952.088            | 36.283368856 | -107.640406784 |  |
| 5,400.00                  | 22.09              | 326.638        | 5,070.25                  | 1,693.48      | 273.20        | 1,922,518.483             | 2,779,943.847            | 36.283413565 | -107.640434637 |  |
| 5,403.12                  | 22.19              | 325.858        | 5,073.14                  | 1,694.46      | 272.55        | 1,922,519.462             | 2,779,943.193            | 36.283416256 | -107.640436849 |  |
| MNCS_C                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,450.00                  | 24.18              | 315.051        | 5,116.25                  | 1,708.59      | 260.79        | 1,922,533.593             | 2,779,931.435            | 36.283455138 | -107.640476650 |  |
| 5,490.68                  | 26.43              | 307.112        | 5,153.04                  | 1,719.95      | 247.68        | 1,922,544.958             | 2,779,918.322            | 36.283486432 | -107.640521065 |  |
| MNCS_Cms                  |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,500.00                  | 27.00              | 305.476        | 5,161.36                  | 1,722.43      | 244.30        | 1,922,547.437             | 2,779,914.945            | 36.283493260 | -107.640532504 |  |
| 5,550.00                  | 30.36              | 297.727        | 5,205.24                  | 1,734.90      | 223.86        | 1,922,559.911             | 2,779,894.505            | 36.283527638 | -107.640601774 |  |
| 5,576.52                  | 32.29              | 294.240        | 5,227.89                  | 1,740.93      | 211.47        | 1,922,565.937             | 2,779,882.114            | 36.283544261 | -107.640643776 |  |
| MNCS_D                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,600.00                  | 34.08              | 291.455        | 5,247.54                  | 1,745.91      | 199.63        | 1,922,570.920             | 2,779,870.269            | 36.283558013 | -107.640683932 |  |
| 5,650.00                  | 38.06              | 286.317        | 5,287.96                  | 1,755.37      | 171.78        | 1,922,580.380             | 2,779,842.421            | 36.283584152 | -107.640778355 |  |
| 5,675.39                  | 40.16              | 284.050        | 5,307.66                  | 1,759.56      | 156.32        | 1,922,584.567             | 2,779,826.966            | 36.283595738 | -107.640830766 |  |
| MNCS_E                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,700.00                  | 42.23              | 282.035        | 5,326.18                  | 1,763.21      | 140.53        | 1,922,588.219             | 2,779,811.174            | 36.283605857 | -107.640884322 |  |
| 5,750.00                  | 46.54              | 278.399        | 5,361.91                  | 1,769.37      | 106.12        | 1,922,594.377             | 2,779,776.766            | 36.283622963 | -107.641001027 |  |
| 5,758.07                  | 47.25              | 277.862        | 5,367.42                  | 1,770.20      | 100.29        | 1,922,595.211             | 2,779,770.930            | 36.283625284 | -107.641020821 |  |
| MNCS_F                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,800.00                  | 50.95              | 275.253        | 5,394.87                  | 1,773.80      | 68.81         | 1,922,598.809             | 2,779,739.458            | 36.283635338 | -107.641127582 |  |
| 5,850.00                  | 55.43              | 272.480        | 5,424.83                  | 1,776.47      | 28.89         | 1,922,601.478             | 2,779,699.534            | 36.283642890 | -107.641263025 |  |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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      |  |
| 5,900.39                  | 60.00              | 269.974        | 5,451.74                  | 1,777.36      | -13.68        | 1,922,602.367             | 2,779,656.964            | 36.283645562 | -107.641407460 |  |
| Begin 60.00° tangent      |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,900.80                  | 60.00              | 269.974        | 5,451.94                  | 1,777.36      | -14.03        | 1,922,602.366             | 2,779,656.609            | 36.283645564 | -107.641408663 |  |
| MNCS_G                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,960.39                  | 60.00              | 269.974        | 5,481.74                  | 1,777.34      | -65.64        | 1,922,602.343             | 2,779,605.002            | 36.283645780 | -107.641583764 |  |
| Begin 10°/100' build      |                    |                |                           |               |               |                           |                          |              |                |  |
| 5,985.11                  | 62.47              | 269.974        | 5,493.64                  | 1,777.33      | -87.32        | 1,922,602.333             | 2,779,583.328            | 36.283645871 | -107.641657305 |  |
| MNCS_H                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 6,000.00                  | 63.96              | 269.974        | 5,500.35                  | 1,777.32      | -100.60       | 1,922,602.327             | 2,779,570.039            | 36.283645927 | -107.641702393 |  |
| 6,050.00                  | 68.96              | 269.974        | 5,520.31                  | 1,777.30      | -146.43       | 1,922,602.306             | 2,779,524.214            | 36.283646119 | -107.641857876 |  |
| 6,100.00                  | 73.96              | 269.974        | 5,536.20                  | 1,777.28      | -193.82       | 1,922,602.285             | 2,779,476.824            | 36.283646317 | -107.642018671 |  |
| 6,131.49                  | 77.11              | 269.974        | 5,544.06                  | 1,777.26      | -224.31       | 1,922,602.271             | 2,779,446.337            | 36.283646445 | -107.642122113 |  |
| MNCS_I                    |                    |                |                           |               |               |                           |                          |              |                |  |
| 6,150.00                  | 78.96              | 269.974        | 5,547.90                  | 1,777.26      | -242.42       | 1,922,602.263             | 2,779,428.229            | 36.283646521 | -107.642183553 |  |
| 6,200.00                  | 83.96              | 269.974        | 5,555.32                  | 1,777.23      | -291.85       | 1,922,602.241             | 2,779,378.799            | 36.283646728 | -107.642351268 |  |
| 6,250.00                  | 88.96              | 269.974        | 5,558.41                  | 1,777.21      | -341.73       | 1,922,602.218             | 2,779,328.910            | 36.283646936 | -107.642520540 |  |
| 6,262.81                  | 90.24              | 269.974        | 5,558.50                  | 1,777.21      | -354.54       | 1,922,602.213             | 2,779,316.102            | 36.283646990 | -107.642563999 |  |
| Begin 90.24° lateral      |                    |                |                           |               |               |                           |                          |              |                |  |
| 6,300.00                  | 90.24              | 269.974        | 5,558.34                  | 1,777.19      | -391.73       | 1,922,602.196             | 2,779,278.911            | 36.283647145 | -107.642690186 |  |
| 6,400.00                  | 90.24              | 269.974        | 5,557.92                  | 1,777.14      | -491.73       | 1,922,602.151             | 2,779,178.912            | 36.283647563 | -107.643029480 |  |
| 6,500.00                  | 90.24              | 269.974        | 5,557.49                  | 1,777.10      | -591.73       | 1,922,602.106             | 2,779,078.913            | 36.283647979 | -107.643368775 |  |
| 6,600.00                  | 90.24              | 269.974        | 5,557.07                  | 1,777.05      | -691.73       | 1,922,602.061             | 2,778,978.914            | 36.283648394 | -107.643708069 |  |
| 6,700.00                  | 90.24              | 269.974        | 5,556.65                  | 1,777.01      | -791.73       | 1,922,602.017             | 2,778,878.916            | 36.283648808 | -107.644047364 |  |
| 6,800.00                  | 90.24              | 269.974        | 5,556.23                  | 1,776.97      | -891.73       | 1,922,601.972             | 2,778,778.917            | 36.283649222 | -107.644386659 |  |
| 6,900.00                  | 90.24              | 269.974        | 5,555.80                  | 1,776.92      | -991.73       | 1,922,601.927             | 2,778,678.918            | 36.283649634 | -107.644725953 |  |
| 7,000.00                  | 90.24              | 269.974        | 5,555.38                  | 1,776.88      | -1,091.73     | 1,922,601.882             | 2,778,578.919            | 36.283650045 | -107.645065248 |  |
| 7,100.00                  | 90.24              | 269.974        | 5,554.96                  | 1,776.83      | -1,191.73     | 1,922,601.837             | 2,778,478.920            | 36.283650456 | -107.645404542 |  |
| 7,200.00                  | 90.24              | 269.974        | 5,554.53                  | 1,776.79      | -1,291.73     | 1,922,601.792             | 2,778,378.921            | 36.283650865 | -107.645743837 |  |
| 7,300.00                  | 90.24              | 269.974        | 5,554.11                  | 1,776.74      | -1,391.72     | 1,922,601.747             | 2,778,278.922            | 36.283651274 | -107.646083132 |  |
| 7,400.00                  | 90.24              | 269.974        | 5,553.69                  | 1,776.70      | -1,491.72     | 1,922,601.702             | 2,778,178.923            | 36.283651681 | -107.646422426 |  |
| 7,500.00                  | 90.24              | 269.974        | 5,553.27                  | 1,776.65      | -1,591.72     | 1,922,601.658             | 2,778,078.924            | 36.283652088 | -107.646761721 |  |
| 7,600.00                  | 90.24              | 269.974        | 5,552.84                  | 1,776.61      | -1,691.72     | 1,922,601.613             | 2,777,978.926            | 36.283652494 | -107.647101016 |  |
| 7,700.00                  | 90.24              | 269.974        | 5,552.42                  | 1,776.56      | -1,791.72     | 1,922,601.568             | 2,777,878.927            | 36.283652898 | -107.647440310 |  |
| 7,800.00                  | 90.24              | 269.974        | 5,552.00                  | 1,776.52      | -1,891.72     | 1,922,601.523             | 2,777,778.928            | 36.283653302 | -107.647779605 |  |
| 7,900.00                  | 90.24              | 269.974        | 5,551.58                  | 1,776.47      | -1,991.72     | 1,922,601.478             | 2,777,678.929            | 36.283653705 | -107.648118900 |  |
| 8,000.00                  | 90.24              | 269.974        | 5,551.15                  | 1,776.43      | -2,091.72     | 1,922,601.433             | 2,777,578.930            | 36.283654106 | -107.648458193 |  |
| 8,100.00                  | 90.24              | 269.974        | 5,550.73                  | 1,776.38      | -2,191.72     | 1,922,601.388             | 2,777,478.931            | 36.283654507 | -107.648797488 |  |
| 8,200.00                  | 90.24              | 269.974        | 5,550.31                  | 1,776.34      | -2,291.72     | 1,922,601.344             | 2,777,378.932            | 36.283654907 | -107.649136783 |  |
| 8,300.00                  | 90.24              | 269.974        | 5,549.88                  | 1,776.29      | -2,391.72     | 1,922,601.299             | 2,777,278.933            | 36.283655306 | -107.649476078 |  |
| 8,400.00                  | 90.24              | 269.974        | 5,549.46                  | 1,776.25      | -2,491.71     | 1,922,601.254             | 2,777,178.934            | 36.283655704 | -107.649815372 |  |
| 8,500.00                  | 90.24              | 269.974        | 5,549.04                  | 1,776.20      | -2,591.71     | 1,922,601.209             | 2,777,078.935            | 36.283656101 | -107.650154667 |  |
| 8,600.00                  | 90.24              | 269.974        | 5,548.62                  | 1,776.16      | -2,691.71     | 1,922,601.164             | 2,776,978.937            | 36.283656497 | -107.650493962 |  |
| 8,700.00                  | 90.24              | 269.974        | 5,548.19                  | 1,776.11      | -2,791.71     | 1,922,601.119             | 2,776,878.938            | 36.283656892 | -107.650833256 |  |
| 8,800.00                  | 90.24              | 269.974        | 5,547.77                  | 1,776.07      | -2,891.71     | 1,922,601.074             | 2,776,778.939            | 36.283657286 | -107.651172551 |  |
| 8,900.00                  | 90.24              | 269.974        | 5,547.35                  | 1,776.02      | -2,991.71     | 1,922,601.029             | 2,776,678.940            | 36.283657679 | -107.651511846 |  |
| 9,000.00                  | 90.24              | 269.974        | 5,546.92                  | 1,775.98      | -3,091.71     | 1,922,600.985             | 2,776,578.941            | 36.283658071 | -107.651851141 |  |
| 9,100.00                  | 90.24              | 269.974        | 5,546.50                  | 1,775.93      | -3,191.71     | 1,922,600.940             | 2,776,478.942            | 36.283658462 | -107.652190436 |  |
| 9,200.00                  | 90.24              | 269.974        | 5,546.08                  | 1,775.89      | -3,291.71     | 1,922,600.895             | 2,776,378.943            | 36.283658853 | -107.652529730 |  |
| 9,300.00                  | 90.24              | 269.974        | 5,545.66                  | 1,775.84      | -3,391.71     | 1,922,600.850             | 2,776,278.944            | 36.283659242 | -107.652869025 |  |
| 9,400.00                  | 90.24              | 269.974        | 5,545.23                  | 1,775.80      | -3,491.71     | 1,922,600.805             | 2,776,178.945            | 36.283659630 | -107.653208320 |  |
| 9,500.00                  | 90.24              | 269.974        | 5,544.81                  | 1,775.75      | -3,591.70     | 1,922,600.760             | 2,776,078.947            | 36.283660018 | -107.653547615 |  |
| 9,600.00                  | 90.24              | 269.974        | 5,544.39                  | 1,775.71      | -3,691.70     | 1,922,600.715             | 2,775,978.948            | 36.283660404 | -107.653886910 |  |
| 9,700.00                  | 90.24              | 269.974        | 5,543.97                  | 1,775.66      | -3,791.70     | 1,922,600.671             | 2,775,878.949            | 36.283660789 | -107.654226204 |  |
| 9,800.00                  | 90.24              | 269.974        | 5,543.54                  | 1,775.62      | -3,891.70     | 1,922,600.626             | 2,775,778.950            | 36.283661174 | -107.654565499 |  |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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      |  |
| 9,900.00                        | 90.24           | 269.974     | 5,543.12            | 1,775.57   | -3,991.70  | 1,922,600.581       | 2,775,678.951      | 36.283661557 | -107.654904794 |  |
| 10,000.00                       | 90.24           | 269.974     | 5,542.70            | 1,775.53   | -4,091.70  | 1,922,600.536       | 2,775,578.952      | 36.283661940 | -107.655244089 |  |
| 10,100.00                       | 90.24           | 269.974     | 5,542.27            | 1,775.48   | -4,191.70  | 1,922,600.491       | 2,775,478.953      | 36.283662321 | -107.655583384 |  |
| 10,200.00                       | 90.24           | 269.974     | 5,541.85            | 1,775.44   | -4,291.70  | 1,922,600.446       | 2,775,378.954      | 36.283662702 | -107.655922679 |  |
| 10,300.00                       | 90.24           | 269.974     | 5,541.43            | 1,775.39   | -4,391.70  | 1,922,600.401       | 2,775,278.955      | 36.283663082 | -107.656261973 |  |
| 10,400.00                       | 90.24           | 269.974     | 5,541.01            | 1,775.35   | -4,491.70  | 1,922,600.356       | 2,775,178.957      | 36.283663460 | -107.656601268 |  |
| 10,500.00                       | 90.24           | 269.974     | 5,540.58            | 1,775.31   | -4,591.70  | 1,922,600.312       | 2,775,078.958      | 36.283663838 | -107.656940563 |  |
| 10,600.00                       | 90.24           | 269.974     | 5,540.16            | 1,775.26   | -4,691.69  | 1,922,600.267       | 2,774,978.959      | 36.283664215 | -107.657279858 |  |
| 10,700.00                       | 90.24           | 269.974     | 5,539.74            | 1,775.22   | -4,791.69  | 1,922,600.222       | 2,774,878.960      | 36.283664590 | -107.657619153 |  |
| 10,800.00                       | 90.24           | 269.974     | 5,539.31            | 1,775.17   | -4,891.69  | 1,922,600.177       | 2,774,778.961      | 36.283664965 | -107.657958448 |  |
| 10,900.00                       | 90.24           | 269.974     | 5,538.89            | 1,775.13   | -4,991.69  | 1,922,600.132       | 2,774,678.962      | 36.283665339 | -107.658297743 |  |
| 11,000.00                       | 90.24           | 269.974     | 5,538.47            | 1,775.08   | -5,091.69  | 1,922,600.087       | 2,774,578.963      | 36.283665712 | -107.658637038 |  |
| 11,100.00                       | 90.24           | 269.974     | 5,538.05            | 1,775.04   | -5,191.69  | 1,922,600.042       | 2,774,478.964      | 36.283666084 | -107.658976333 |  |
| 11,200.00                       | 90.24           | 269.974     | 5,537.62            | 1,774.99   | -5,291.69  | 1,922,599.997       | 2,774,378.965      | 36.283666455 | -107.659315628 |  |
| 11,300.00                       | 90.24           | 269.974     | 5,537.20            | 1,774.95   | -5,391.69  | 1,922,599.953       | 2,774,278.967      | 36.283666825 | -107.659654923 |  |
| 11,347.47                       | 90.24           | 269.974     | 5,537.00            | 1,774.92   | -5,439.16  | 1,922,599.931       | 2,774,231.493      | 36.283667000 | -107.659816000 |  |
| PBHL/TD 11347.47 MD 5537.00 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      |  |
| Lybrook 2408 138H LTP<br>- plan hits target center<br>- Point  | 0.00          | 0.000        | 5,537.00 | 1,774.92   | -5,439.16  | 1,922,599.931   | 2,774,231.493  | 36.283667000 | -107.659816000 |  |
| Lybrook 2408 138H FTP<br>- plan hits target center<br>- Point  | 0.00          | 0.000        | 5,558.50 | 1,777.21   | -354.54    | 1,922,602.216   | 2,779,316.101  | 36.283647000 | -107.642564000 |  |
| Lybrook 2408 138H 0 V<br>- plan misses target center by 100.20ft at 5943.36ft MD (5473.23 TVD, 1777.34 N, -50.90 E)<br>- Point | 0.00          | 0.000        | 5,560.00 | 1,777.37   | -0.80      | 1,922,602.377   | 2,779,669.843  | 36.283645520 | -107.641363759 |  |

| 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            |  |
| 3,748.83            | 3,542.00            | 9 5/8" Csg  | 9-5/8               | 12-1/4            |  |



## Planning Report - Geographic

|                  |  |                                     |                                       |
|------------------|--|-------------------------------------|---------------------------------------|
| <b>Database:</b> | DT_Aug2923v16                          | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Company:</b>  | Enduring Resources LLC                 | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Project:</b>  | San Juan County, New Mexico NAD83 NM W | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site:</b>     | NW Lybrook (138, 139, 140 & 141)       | <b>North Reference:</b>             | Grid                                  |
| <b>Well:</b>     | Lybrook 2408-26 Federal COM 138H       | <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 (°) |  |
| 1,240.52            | 1,222.10            | Ojo Alamo         |           | -0.24   | 269.974           |  |
| 1,381.12            | 1,352.14            | Kirtland          |           | -0.24   | 269.974           |  |
| 1,619.05            | 1,572.21            | Fruitland         |           | -0.24   | 269.974           |  |
| 1,954.33            | 1,882.30            | Pictured Cliffs   |           | -0.24   | 269.974           |  |
| 2,062.48            | 1,982.33            | Lewis             |           | -0.24   | 269.974           |  |
| 2,397.76            | 2,292.42            | Chacra_A          |           | -0.24   | 269.974           |  |
| 3,582.04            | 3,387.74            | Cliff House_Basal |           | -0.24   | 269.974           |  |
| 3,587.45            | 3,392.74            | Menefee           |           | -0.24   | 269.974           |  |
| 4,528.39            | 4,263.00            | Point Lookout     |           | -0.24   | 269.974           |  |
| 4,777.14            | 4,493.07            | Mancos            |           | -0.24   | 269.974           |  |
| 5,177.31            | 4,863.18            | MNCS_A            |           | -0.24   | 269.974           |  |
| 5,274.51            | 4,953.20            | MNCS_B            |           | -0.24   | 269.974           |  |
| 5,403.12            | 5,073.14            | MNCS_C            |           | -0.24   | 269.974           |  |
| 5,490.68            | 5,153.04            | MNCS_Cms          |           | -0.24   | 269.974           |  |
| 5,576.52            | 5,227.89            | MNCS_D            |           | -0.24   | 269.974           |  |
| 5,675.39            | 5,307.66            | MNCS_E            |           | -0.24   | 269.974           |  |
| 5,758.07            | 5,367.42            | MNCS_F            |           | -0.24   | 269.974           |  |
| 5,900.80            | 5,451.94            | MNCS_G            |           | -0.24   | 269.974           |  |
| 5,985.11            | 5,493.64            | MNCS_H            |           | -0.24   | 269.974           |  |
| 6,131.49            | 5,544.06            | MNCS_I            |           | -0.24   | 269.974           |  |

| Plan Annotations    |                     |                   |            |                                 |  |
|---------------------|---------------------|-------------------|------------|---------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                 |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                         |  |
| 500.00              | 500.00              | 0.00              | 0.00       | KOP Begin 3°/100' build         |  |
| 1,244.97            | 1,226.22            | 141.34            | 24.56      | Begin 22.35° tangent            |  |
| 5,239.87            | 4,921.04            | 1,637.97          | 284.62     | Begin 10°/100' build/turn       |  |
| 5,900.39            | 5,451.74            | 1,777.36          | -13.68     | Begin 60.00° tangent            |  |
| 5,960.39            | 5,481.74            | 1,777.34          | -65.64     | Begin 10°/100' build            |  |
| 6,262.81            | 5,558.50            | 1,777.21          | -354.54    | Begin 90.24° lateral            |  |
| 11,347.47           | 5,537.00            | 1,774.92          | -5,439.16  | PBHL/TD 11347.47 MD 5537.00 TVD |  |





## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|                              |   |                |                      |
|------------------------------|---|----------------|----------------------|
| Reference                    | rev0  |                |                      |
| Filter type:                 | GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference |                |                      |
| Interpolation Method:        | MD Interval 100.00ft  | Error Model:   | ISCSWA               |
| Depth Range:                 | Unlimited   | Scan Method:   | Closest Approach 3D  |
| Results Limited by:          | Maximum centre distance of 1,334.75ft                                   | Error Surface: | Ellipsoid Separation |
| Warning Levels Evaluated at: | 2.00 Sigma  | Casing Method: | Not applied          |

| Survey Tool Program |           | Date                 | 10/2/2023 |                     |  |
|---------------------|-----------|----------------------|-----------|---------------------|--|
| From (ft)           | To (ft)   | Survey (Wellbore)    | Tool Name | Description         |  |
| 0.00                | 11,347.47 | rev0 (Original Hole) | MWD       | OWSG MWD - Standard |  |

| Summary  |                               |                            |                               |                                |                   |                  |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|------------------|
| Site Name  | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning          |
| Offset Well - Wellbore - Design                      |                               |                            |                               |                                |                   |                  |
| NW Lybrook (138, 139, 140 & 141)                     |                               |                            |                               |                                |                   |                  |
| Lybrook 2408-25M 237H (Chaco 2408-25M) - Original Ho | 11,347.47                     | 5,514.78                   | 1,094.57                      | 934.18                         | 6.824             | CC, ES, SF       |
| NW Lybrook Unit 139H - Original Hole - rev0          | 558.88                        | 558.87                     | 19.89                         | 16.33                          | 5.590             | CC               |
| NW Lybrook Unit 139H - Original Hole - rev0          | 600.00                        | 599.95                     | 19.96                         | 16.11                          | 5.182             | ES               |
| NW Lybrook Unit 139H - Original Hole - rev0          | 6,044.29                      | 6,283.87                   | 89.04                         | 37.10                          | 1.714             | Level 3<2.00, SF |
| NW Lybrook Unit 140H - Original Hole - rev0          | 632.54                        | 632.43                     | 103.93                        | 99.85                          | 25.434            | CC               |
| NW Lybrook Unit 140H - Original Hole - rev0          | 700.00                        | 699.63                     | 104.10                        | 99.53                          | 22.775            | ES               |
| NW Lybrook Unit 140H - Original Hole - rev0          | 1,000.00                      | 994.31                     | 120.25                        | 113.44                         | 17.653            | SF               |
| NW Lybrook Unit 141H - Original Hole - rev0          | 675.70                        | 676.68                     | 122.89                        | 118.52                         | 28.133            | CC               |
| NW Lybrook Unit 141H - Original Hole - rev0          | 700.00                        | 700.62                     | 122.98                        | 118.44                         | 27.107            | ES               |
| NW Lybrook Unit 141H - Original Hole - rev0          | 900.00                        | 888.65                     | 139.50                        | 133.50                         | 23.252            | SF               |
| NW Lybrook UT 131H - Original Hole - MWD             | 227.13                        | 215.13                     | 61.73                         | 60.51                          | 50.561            | CC               |
| NW Lybrook UT 131H - Original Hole - MWD             | 700.00                        | 688.49                     | 62.35                         | 57.79                          | 13.670            | ES               |
| NW Lybrook UT 131H - Original Hole - MWD             | 800.00                        | 785.77                     | 67.84                         | 62.56                          | 12.847            | SF               |
| NW Lybrook UT 289H - Original Hole - Gyro & MWD      | 1,110.39                      | 1,106.84                   | 65.55                         | 58.90                          | 9.860             | CC, ES           |
| NW Lybrook UT 289H - Original Hole - Gyro & MWD      | 1,200.00                      | 1,195.11                   | 69.97                         | 62.72                          | 9.643             | SF               |
| Ridge Unit (130, 135, 136 & 137)                     |                               |                            |                               |                                |                   |                  |
| Ridge Unit No. 130H - Original Hole - rev1           | 6,300.00                      | 6,350.00                   | 485.97                        | 409.61                         | 6.364             | CC, ES           |
| Ridge Unit No. 130H - Original Hole - rev1           | 6,500.00                      | 6,373.93                   | 530.40                        | 440.75                         | 5.916             | SF               |
| Ridge Unit No. 135H - Original Hole - rev1           | 7,880.16                      | 5,672.76                   | 529.68                        | 451.04                         | 6.735             | CC               |
| Ridge Unit No. 135H - Original Hole - rev1           | 7,900.00                      | 5,677.26                   | 530.02                        | 449.69                         | 6.597             | ES               |
| Ridge Unit No. 135H - Original Hole - rev1           | 8,100.00                      | 5,729.41                   | 569.33                        | 475.69                         | 6.080             | SF               |
| Ridge Unit No. 136H - Original Hole - rev1           | 9,504.42                      | 5,450.00                   | 537.35                        | 433.37                         | 5.168             | CC, ES           |
| Ridge Unit No. 136H - Original Hole - rev1           | 9,600.00                      | 5,477.15                   | 544.66                        | 435.39                         | 4.984             | SF               |
| Ridge Unit No. 137H - Original Hole - rev1           | 11,088.97                     | 5,828.40                   | 599.51                        | 432.64                         | 3.593             | CC               |
| Ridge Unit No. 137H - Original Hole - rev1           | 11,100.00                     | 5,832.42                   | 599.58                        | 432.12                         | 3.580             | ES               |
| Ridge Unit No. 137H - Original Hole - rev1           | 11,200.00                     | 5,870.11                   | 607.04                        | 435.71                         | 3.543             | SF               |

|                            |  |                            |                            |                               |                       |                     |                           |                          |                             |                              |                                |                          |
|----------------------------|--|----------------------------|----------------------------|-------------------------------|-----------------------|---------------------|---------------------------|--------------------------|-----------------------------|------------------------------|--------------------------------|--------------------------|
| <b>Offset Design:</b>      | NW Lybrook (138, 139, 140 & 141) - Lybrook 2408-25M 237H (Chaco 2408-25M) - Original Hole - Gyro & MWD |                            |                            |                               |                       |                     |                           |                          |                             |                              | <b>Offset Site Error:</b>      | 0.00 ft                  |
| <b>Survey Program:</b>     | 364-MWD  |                            |                            |                               |                       |                     |                           |                          |                             |                              | <b>Offset Well Error:</b>      | 0.00 ft                  |
| <b>Reference</b>           | <b>Offset</b>  | <b>Semi Major Axis</b>     | <b>Highside</b>            | <b>Offset Wellbore Centre</b> | <b>Rule Assigned:</b> | <b>Distance</b>     | <b>Minimum Separation</b> | <b>Separation Factor</b> | <b>Warning</b>              |                              |                                |                          |
| <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b>   | <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b>         | <b>Offset (ft)</b>    | <b>Toolface (°)</b> | <b>+N/-S (ft)</b>         | <b>+E/-W (ft)</b>        | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b> |
| 10,800.00                  | 5,539.31   | 5,298.47                   | 5,257.08                   | 130.21                        | 18.11                 | -76.26              | 680.94                    | -5,543.99                | 1,302.25                    | 1,169.17                     | 133.08                         | 9.786                    |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





Anticollision Report

|                    |  |                              |                                       |
|--------------------|--|------------------------------|---------------------------------------|
| Company:           | Enduring Resources LLC                 | Local Co-ordinate Reference: | Well Lybrook 2408-26 Federal COM 138H |
| Project:           | San Juan County, New Mexico NAD83 NM W | TVD Reference:               | RKB=6847+25 @ 6872.00ft               |
| Reference Site:    | NW Lybrook (138, 139, 140 & 141)       | MD Reference:                | RKB=6847+25 @ 6872.00ft               |
| Site Error:        | 0.00 ft                                | North Reference:             | Grid                                  |
| Reference Well:    | Lybrook 2408-26 Federal COM 138H       | Survey Calculation Method:   | Minimum Curvature                     |
| Well Error:        | 0.00 ft                                | Output errors are at         | 2.00 sigma                            |
| Reference Wellbore | Original Hole                          | Database:                    | DT_Aug2923v16                         |
| Reference Design:  | rev0                                   | Offset TVD Reference:        | Offset Datum                          |

|   |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               |                      |         |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|---------|
| Offset Design: NW Lybrook (138, 139, 140 & 141) - Lybrook 2408-25M 237H (Chaco 2408-25M) - Original Hole - Gyro & MWD |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               | Offset Site Error:   | 0.00 ft |
| Survey Program: 364-MWD   |                           |                           |                           |                   |                |                             |                        |               |                            |                             |                               | Offset Well Error:   | 0.00 ft |
| Reference   |                           | Offset                    |                           | Semi Major Axis   |                | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |               | Distance                   |                             | Rule Assigned:                |                      | Warning |
| Measured<br>Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset<br>(ft) |                             | +N/-S<br>(ft)          | +E/-W<br>(ft) | Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor |         |
| 10,900.00   | 5,538.89                  | 5,345.00                  | 5,291.92                  | 132.69            | 18.36          | -77.91                      | 689.48                 | -5,573.62     | 1,253.98                   | 1,115.72                    | 138.26                        | 9.070                |         |
| 11,000.00   | 5,538.47                  | 5,377.00                  | 5,314.69                  | 135.18            | 18.55          | -79.01                      | 695.52                 | -5,595.27     | 1,209.91                   | 1,066.44                    | 143.47                        | 8.433                |         |
| 11,100.00   | 5,538.05                  | 5,419.19                  | 5,343.46                  | 137.67            | 18.83          | -80.43                      | 703.29                 | -5,625.12     | 1,170.40                   | 1,021.80                    | 148.60                        | 7.876                |         |
| 11,200.00   | 5,537.62                  | 5,457.53                  | 5,368.25                  | 140.16            | 19.11          | -81.67                      | 710.03                 | -5,653.58     | 1,135.73                   | 982.15                      | 153.58                        | 7.395                |         |
| 11,300.00   | 5,537.20                  | 5,503.00                  | 5,395.59                  | 142.65            | 19.46          | -83.08                      | 717.03                 | -5,689.21     | 1,106.57                   | 948.26                      | 158.31                        | 6.990                |         |
| 11,347.47   | 5,537.00                  | 5,514.78                  | 5,402.20                  | 143.83            | 19.57          | -83.43                      | 718.71                 | -5,698.83     | 1,094.57                   | 934.18                      | 160.39                        | 6.824 CC, ES, SF     |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

| Offset Design:  |                    | NW Lybrook (138, 139, 140 & 141) - NW Lybrook Unit 139H - Original Hole - rev0 |                 |           |        |                   |                        |                        |                          |                           |                    |                   | Offset Site Error: |                    | 0.00 ft |         |
|-----------------|--------------------|--|-----------------|-----------|--------|-------------------|------------------------|------------------------|--------------------------|---------------------------|--------------------|-------------------|--------------------|--------------------|---------|---------|
| Survey Program: |                    | 0-MWD  |                 |           |        |                   |                        |                        |                          | Rule Assigned:            |                    |                   |                    | Offset Well Error: |         | 0.00 ft |
| Measured Depth  | Vertical Reference | Measured Depth   | Vertical Offset | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Offset Wellbore Centre | Distance Between Centres | Distance Between Ellipses | Minimum Separation | Separation Factor | Warning            |                    |         |         |
| Depth (ft)      | Depth (ft)         | Depth (ft)   | Depth (ft)      | (ft)      | (ft)   | (°)               | +N/-S (ft)             | +E/-W (ft)             | (ft)                     | (ft)                      | (ft)               |                   |                    |                    |         |         |
| 0.00            | 0.00               | 0.00   | 0.00            | 0.00      | 0.00   | 97.24             | -2.51                  | 19.75                  | 19.91                    |                           |                    |                   |                    |                    |         |         |
| 100.00          | 100.00             | 100.00   | 100.00          | 0.13      | 0.13   | 97.24             | -2.51                  | 19.75                  | 19.91                    | 19.64                     | 0.27               | 74.061            |                    |                    |         |         |
| 200.00          | 200.00             | 200.00   | 200.00          | 0.49      | 0.49   | 97.24             | -2.51                  | 19.75                  | 19.91                    | 18.93                     | 0.99               | 20.198            |                    |                    |         |         |
| 300.00          | 300.00             | 300.00   | 300.00          | 0.85      | 0.85   | 97.24             | -2.51                  | 19.75                  | 19.91                    | 18.21                     | 1.70               | 11.694            |                    |                    |         |         |
| 400.00          | 400.00             | 400.00   | 400.00          | 1.21      | 1.21   | 97.24             | -2.51                  | 19.75                  | 19.91                    | 17.49                     | 2.42               | 8.229             |                    |                    |         |         |
| 500.00          | 500.00             | 500.00   | 500.00          | 1.57      | 1.57   | 97.24             | -2.51                  | 19.75                  | 19.91                    | 16.77                     | 3.14               | 6.348             |                    |                    |         |         |
| 558.88          | 558.87             | 558.87   | 558.87          | 1.78      | 1.78   | 89.99             | -2.51                  | 19.75                  | 19.89                    | 16.33                     | 3.56               | 5.590 CC          |                    |                    |         |         |
| 600.00          | 599.95             | 599.95   | 599.95          | 1.93      | 1.93   | 94.90             | -2.51                  | 19.75                  | 19.96                    | 16.11                     | 3.85               | 5.182 ES          |                    |                    |         |         |
| 700.00          | 699.63             | 699.63   | 699.63          | 2.29      | 2.28   | 115.53            | -2.51                  | 19.75                  | 22.07                    | 17.49                     | 4.57               | 4.826             |                    |                    |         |         |
| 800.00          | 798.77             | 800.26   | 800.21          | 2.66      | 2.64   | 138.30            | -0.19                  | 18.51                  | 27.52                    | 22.23                     | 5.30               | 5.197             |                    |                    |         |         |
| 900.00          | 897.08             | 901.03   | 900.66          | 3.06      | 3.01   | 157.65            | 6.81                   | 14.76                  | 35.33                    | 29.32                     | 6.01               | 5.878             |                    |                    |         |         |
| 1,000.00        | 994.31             | 1,001.78   | 1,000.52        | 3.49      | 3.38   | 173.44            | 18.46                  | 8.52                   | 46.15                    | 39.42                     | 6.73               | 6.860             |                    |                    |         |         |
| 1,100.00        | 1,090.18           | 1,102.33   | 1,099.36        | 3.97      | 3.77   | -174.10           | 34.71                  | -0.18                  | 60.33                    | 52.85                     | 7.48               | 8.067             |                    |                    |         |         |
| 1,200.00        | 1,184.43           | 1,202.53   | 1,196.75        | 4.50      | 4.20   | -164.37           | 55.43                  | -11.28                 | 77.96                    | 69.66                     | 8.30               | 9.394             |                    |                    |         |         |
| 1,300.00        | 1,277.12           | 1,302.33   | 1,292.39        | 5.09      | 4.66   | -156.66           | 80.53                  | -24.72                 | 98.28                    | 89.07                     | 9.21               | 10.667            |                    |                    |         |         |
| 1,400.00        | 1,369.61           | 1,402.02   | 1,386.32        | 5.71      | 5.19   | -149.53           | 109.95                 | -40.48                 | 118.02                   | 107.78                    | 10.25              | 11.517            |                    |                    |         |         |
| 1,500.00        | 1,462.10           | 1,500.25   | 1,477.23        | 6.34      | 5.76   | -142.73           | 142.73                 | -58.04                 | 137.61                   | 126.20                    | 11.41              | 12.059            |                    |                    |         |         |
| 1,600.00        | 1,554.58           | 1,597.13   | 1,566.60        | 6.99      | 6.35   | -137.44           | 175.71                 | -75.70                 | 158.42                   | 145.79                    | 12.63              | 12.542            |                    |                    |         |         |
| 1,700.00        | 1,647.07           | 1,694.01   | 1,655.97        | 7.65      | 6.97   | -133.39           | 208.68                 | -93.36                 | 180.24                   | 166.36                    | 13.88              | 12.983            |                    |                    |         |         |
| 1,800.00        | 1,739.56           | 1,790.89   | 1,745.33        | 8.31      | 7.61   | -130.21           | 241.65                 | -111.03                | 202.74                   | 187.59                    | 15.15              | 13.378            |                    |                    |         |         |
| 1,900.00        | 1,832.05           | 1,887.77   | 1,834.70        | 8.98      | 8.26   | -127.67           | 274.62                 | -128.69                | 225.72                   | 209.28                    | 16.44              | 13.729            |                    |                    |         |         |
| 2,000.00        | 1,924.54           | 1,984.65   | 1,924.07        | 9.66      | 8.92   | -125.60           | 307.59                 | -146.35                | 249.05                   | 231.31                    | 17.74              | 14.039            |                    |                    |         |         |
| 2,100.00        | 2,017.03           | 2,081.53   | 2,013.44        | 10.34     | 9.59   | -123.88           | 340.56                 | -164.01                | 272.63                   | 253.58                    | 19.05              | 14.314            |                    |                    |         |         |
| 2,200.00        | 2,109.51           | 2,178.41   | 2,102.81        | 11.02     | 10.26  | -122.44           | 373.53                 | -181.67                | 296.41                   | 276.05                    | 20.36              | 14.559            |                    |                    |         |         |
| 2,300.00        | 2,202.00           | 2,275.29   | 2,192.18        | 11.71     | 10.94  | -121.21           | 406.50                 | -199.33                | 320.34                   | 298.66                    | 21.68              | 14.778            |                    |                    |         |         |
| 2,400.00        | 2,294.49           | 2,372.17   | 2,281.55        | 12.39     | 11.63  | -120.15           | 439.48                 | -216.99                | 344.39                   | 321.39                    | 23.00              | 14.973            |                    |                    |         |         |
| 2,500.00        | 2,386.98           | 2,469.05   | 2,370.92        | 13.08     | 12.31  | -119.23           | 472.45                 | -234.65                | 368.54                   | 344.21                    | 24.33              | 15.150            |                    |                    |         |         |
| 2,600.00        | 2,479.47           | 2,565.93   | 2,460.29        | 13.77     | 13.00  | -118.42           | 505.42                 | -252.31                | 392.76                   | 367.11                    | 25.65              | 15.310            |                    |                    |         |         |
| 2,700.00        | 2,571.96           | 2,662.82   | 2,549.66        | 14.46     | 13.70  | -117.70           | 538.39                 | -269.97                | 417.05                   | 390.07                    | 26.99              | 15.454            |                    |                    |         |         |
| 2,800.00        | 2,664.44           | 2,759.70   | 2,639.03        | 15.15     | 14.39  | -117.07           | 571.36                 | -287.63                | 441.40                   | 413.08                    | 28.32              | 15.586            |                    |                    |         |         |
| 2,900.00        | 2,756.93           | 2,856.58   | 2,728.40        | 15.84     | 15.09  | -116.50           | 604.33                 | -305.29                | 465.79                   | 436.14                    | 29.66              | 15.707            |                    |                    |         |         |
| 3,000.00        | 2,849.42           | 2,953.46   | 2,817.77        | 16.54     | 15.78  | -115.99           | 637.30                 | -322.95                | 490.22                   | 459.23                    | 30.99              | 15.817            |                    |                    |         |         |
| 3,100.00        | 2,941.91           | 3,050.34   | 2,907.14        | 17.23     | 16.48  | -115.52           | 670.27                 | -340.61                | 514.69                   | 482.36                    | 32.33              | 15.919            |                    |                    |         |         |
| 3,200.00        | 3,034.40           | 3,147.22   | 2,996.51        | 17.93     | 17.19  | -115.10           | 703.25                 | -358.27                | 539.18                   | 505.51                    | 33.67              | 16.013            |                    |                    |         |         |
| 3,300.00        | 3,126.89           | 3,244.10   | 3,085.88        | 18.62     | 17.89  | -114.71           | 736.22                 | -375.93                | 563.70                   | 528.69                    | 35.01              | 16.100            |                    |                    |         |         |
| 3,400.00        | 3,219.37           | 3,340.98   | 3,175.24        | 19.32     | 18.59  | -114.36           | 769.19                 | -393.59                | 588.24                   | 551.89                    | 36.35              | 16.181            |                    |                    |         |         |
| 3,500.00        | 3,311.86           | 3,437.86   | 3,264.61        | 20.02     | 19.29  | -114.04           | 802.16                 | -411.25                | 612.80                   | 575.10                    | 37.70              | 16.256            |                    |                    |         |         |
| 3,600.00        | 3,404.35           | 3,534.74   | 3,353.98        | 20.71     | 20.00  | -113.74           | 835.13                 | -428.91                | 637.38                   | 598.34                    | 39.04              | 16.326            |                    |                    |         |         |
| 3,700.00        | 3,496.84           | 3,631.62   | 3,443.35        | 21.41     | 20.70  | -113.46           | 868.10                 | -446.57                | 661.97                   | 621.59                    | 40.38              | 16.392            |                    |                    |         |         |
| 3,800.00        | 3,589.33           | 3,728.50   | 3,532.72        | 22.11     | 21.41  | -113.20           | 901.07                 | -464.23                | 686.58                   | 644.85                    | 41.73              | 16.453            |                    |                    |         |         |
| 3,900.00        | 3,681.82           | 3,825.38   | 3,622.09        | 22.81     | 22.12  | -112.96           | 934.05                 | -481.89                | 711.19                   | 668.12                    | 43.08              | 16.511            |                    |                    |         |         |
| 4,000.00        | 3,774.31           | 3,922.27   | 3,711.46        | 23.50     | 22.82  | -112.74           | 967.02                 | -499.55                | 735.82                   | 691.40                    | 44.42              | 16.565            |                    |                    |         |         |
| 4,100.00        | 3,866.79           | 4,019.15   | 3,800.83        | 24.20     | 23.53  | -112.53           | 999.99                 | -517.22                | 760.46                   | 714.70                    | 45.77              | 16.616            |                    |                    |         |         |
| 4,200.00        | 3,959.28           | 4,116.03   | 3,890.20        | 24.90     | 24.24  | -112.33           | 1,032.96               | -534.88                | 785.11                   | 738.00                    | 47.11              | 16.664            |                    |                    |         |         |
| 4,300.00        | 4,051.77           | 4,212.91   | 3,979.57        | 25.60     | 24.95  | -112.15           | 1,065.93               | -552.54                | 809.77                   | 761.30                    | 48.46              | 16.709            |                    |                    |         |         |
| 4,400.00        | 4,144.26           | 4,309.79   | 4,068.94        | 26.30     | 25.65  | -111.97           | 1,098.90               | -570.20                | 834.43                   | 784.62                    | 49.81              | 16.753            |                    |                    |         |         |
| 4,500.00        | 4,236.75           | 4,406.67   | 4,158.31        | 27.00     | 26.36  | -111.81           | 1,131.87               | -587.86                | 859.10                   | 807.94                    | 51.16              | 16.793            |                    |                    |         |         |
| 4,600.00        | 4,329.24           | 4,503.55   | 4,247.68        | 27.70     | 27.07  | -111.65           | 1,164.84               | -605.52                | 883.78                   | 831.27                    | 52.51              | 16.832            |                    |                    |         |         |
| 4,700.00        | 4,421.72           | 4,600.43   | 4,337.05        | 28.40     | 27.78  | -111.51           | 1,197.82               | -623.18                | 908.46                   | 854.60                    | 53.85              | 16.869            |                    |                    |         |         |
| 4,800.00        | 4,514.21           | 4,697.31   | 4,426.42        | 29.10     | 28.49  | -111.37           | 1,230.79               | -640.84                | 933.15                   | 877.94                    | 55.20              | 16.904            |                    |                    |         |         |
| 4,900.00        | 4,606.70           | 4,794.19   | 4,515.79        | 29.80     | 29.20  | -111.24           | 1,263.76               | -658.50                | 957.84                   | 901.29                    | 56.55              | 16.937            |                    |                    |         |         |
| 5,000.00        | 4,699.19           | 4,891.07   | 4,605.27        | 30.50     | 30.00  | -111.12           | 1,296.73               | -676.16                | 982.52                   | 927.00                    | 57.89              | 16.970            |                    |                    |         |         |
| 5,100.00        | 4,791.68           | 4,982.95   | 4,696.75        | 31.20     | 30.80  | -111.00           | 1,329.70               | -693.82                | 1,007.19                 | 952.51                    | 59.23              | 17.003            |                    |                    |         |         |
| 5,200.00        | 4,884.17           | 5,074.83   | 4,788.23        | 31.90     | 31.60  | -110.88           | 1,362.67               | -711.48                | 1,031.76                 | 977.50                    | 60.57              | 17.036            |                    |                    |         |         |
| 5,300.00        | 4,976.66           | 5,166.71   | 4,879.71        | 32.60     | 32.40  | -110.76           | 1,395.64               | -729.14                | 1,056.33                 | 1,002.49                  | 61.91              | 17.069            |                    |                    |         |         |
| 5,400.00        | 5,069.15           | 5,258.59   | 4,971.20        | 33.30     | 33.20  | -110.64           | 1,428.61               | -746.80                | 1,080.90                 | 1,027.48                  | 63.25              | 17.102            |                    |                    |         |         |
| 5,500.00        | 5,161.64           | 5,350.47   | 5,062.68        | 34.00     | 34.00  | -110.52           | 1,461.58               | -764.46                | 1,105.47                 | 1,052.47                  | 64.59              | 17.135            |                    |                    |         |         |
| 5,600.00        | 5,254.13           | 5,442.35   | 5,154.17        | 34.70     | 34.80  | -110.40           | 1,494.55               | -782.12                | 1,130.04                 | 1,077.46                  | 65.93              | 17.168            |                    |                    |         |         |
| 5,700.00        | 5,346.62           | 5,534.23   | 5,245.66        | 35.40     | 35.60  | -110.28           | 1,527.52               | -800.00                | 1,154.61                 | 1,102.45                  | 67.27              | 17.201            |                    |                    |         |         |
| 5,800.00        | 5,439.11           | 5,626.11   | 5,337.15        | 36.10     | 36.40  | -110.16           | 1,560.49               | -817.88                | 1,179.18                 | 1,127.44                  | 68.61              | 17.234            |                    |                    |         |         |
| 5,900.00        | 5,531.60           | 5,717.99   | 5,428.64        | 36.80     | 37.20  | -110.04           | 1,593.46               | -835.76                | 1,203.75                 | 1,152.43                  | 69.95              | 17.267            |                    |                    |         |         |
| 6,000.00        | 5,624.09           | 5,809.87   | 5,520.13        | 37.50     | 38.00  | -109.92           | 1,626.43               | -853.64                | 1,228.32                 | 1,177.42                  | 71.29              | 17.300            |                    |                    |         |         |
| 6,100.00        | 5,716.58           | 5,901.75   | 5,611.62        | 38.20     | 38.80  | -109.80           | 1,659.40               | -871.52                | 1,252.89                 | 1,202.41                  | 72.63              | 17.333            |                    |                    |         |         |
| 6,200.00        | 5,809.07           | 5,993.63   | 5,703.11        | 38.90     | 39.60  | -109.68           | 1,692.37               | -889.40                | 1,277.46                 | 1,227.40                  | 73.97              | 17.366            |                    |                    |         |         |
| 6,300.00        | 5,901.56           | 6,085.51   | 5,794.60        | 39.60     | 40.40  | -109.56           | 1,725.34               | -907.28                | 1,302.03                 | 1,252.39                  | 75.31              | 17.399            |                    |                    |         |         |
| 6,400.00        | 5,994.05           | 6,177.39   | 5,886.09        | 40.30     | 41.20  | -109.44           | 1,758.31               | -925.16                | 1,326.60                 | 1,277.38                  | 76.65              | 17.432            |                    |                    |         |         |
| 6,500.00        | 6,086.54           | 6,269.27   | 5,977.58        | 41.00     | 42.00  | -109.32           | 1,791.28               | -943.04                |                          |                           |                    |                   |                    |                    |         |         |



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

| Offset Design: NW Lybrook (138, 139, 140 & 141) - NW Lybrook Unit 139H - Original Hole - rev0 |          |                |          |           |        |          |          |                 |                 |                  |                    |                        | Offset Site Error: | 0.00 ft        |  |                    |         |
|---|----------|----------------|----------|-----------|--------|----------|----------|-----------------|-----------------|------------------|--------------------|------------------------|--------------------|----------------|--|--------------------|---------|
| Survey Program:   |          | 0-MWD          |          | Reference |        | Offset   |          | Semi Major Axis |                 | Highside         |                    | Offset Wellbore Centre |                    | Rule Assigned: |  | Offset Well Error: | 0.00 ft |
| Measured Depth  | Vertical | Measured Depth | Vertical | Reference | Offset | Toolface | +N/-S    | +E/-W           | Between Centres | Between Ellipses | Minimum Separation | Separation Factor      | Warning            |                |  |                    |         |
| (ft)  | (ft)     | (ft)           | (ft)     | (ft)      | (ft)   | (°)      | (ft)     | (ft)            | (ft)            | (ft)             | (ft)               |                        |                    |                |  |                    |         |
| 5,100.00  | 4,791.68 | 6,668.44       | 5,563.30 | 31.20     | 34.43  | -160.04  | 1,760.85 | 255.52          | 791.53          | 770.48           | 21.04              | 37.613                 |                    |                |  |                    |         |
| 5,200.00  | 4,884.17 | 6,679.30       | 5,563.36 | 31.90     | 34.47  | -163.72  | 1,761.79 | 266.34          | 693.40          | 671.92           | 21.48              | 32.288                 |                    |                |  |                    |         |
| 5,300.00  | 4,976.98 | 6,686.63       | 5,563.40 | 32.58     | 34.50  | -179.51  | 1,762.40 | 273.65          | 595.42          | 573.42           | 22.00              | 27.066                 |                    |                |  |                    |         |
| 5,400.00  | 5,070.25 | 6,677.50       | 5,563.35 | 33.18     | 34.47  | 166.73   | 1,761.64 | 264.55          | 497.86          | 475.30           | 22.56              | 22.071                 |                    |                |  |                    |         |
| 5,500.00  | 5,161.36 | 6,651.36       | 5,563.20 | 33.66     | 34.38  | 170.50   | 1,759.28 | 238.51          | 403.56          | 380.32           | 23.25              | 17.359                 |                    |                |  |                    |         |
| 5,600.00  | 5,247.54 | 6,609.45       | 5,562.96 | 34.03     | 34.31  | 177.52   | 1,755.01 | 196.83          | 315.56          | 291.27           | 24.29              | 12.993                 |                    |                |  |                    |         |
| 5,700.00  | 5,326.18 | 6,553.34       | 5,562.65 | 34.30     | 34.23  | -174.90  | 1,748.33 | 141.11          | 236.94          | 210.84           | 26.10              | 9.079                  |                    |                |  |                    |         |
| 5,800.00  | 5,394.87 | 6,484.81       | 5,562.26 | 34.47     | 34.20  | -165.63  | 1,738.71 | 73.27           | 171.08          | 141.61           | 29.47              | 5.805                  |                    |                |  |                    |         |
| 5,900.00  | 5,451.55 | 6,405.91       | 5,561.81 | 34.55     | 34.19  | -152.61  | 1,725.61 | -4.53           | 122.12          | 86.34            | 35.78              | 3.413                  |                    |                |  |                    |         |
| 6,000.00  | 5,500.35 | 6,322.35       | 5,561.34 | 34.61     | 34.19  | -131.92  | 1,709.42 | -86.51          | 92.36           | 45.05            | 47.31              | 1.952 Level 3<2.00     |                    |                |  |                    |         |
| 6,044.29  | 5,518.23 | 6,283.87       | 5,561.13 | 34.65     | 34.21  | -121.21  | 1,701.16 | -124.08         | 89.04           | 37.10            | 51.94              | 1.714 Level 3<2.00, SF |                    |                |  |                    |         |
| 6,100.00  | 5,536.20 | 6,232.71       | 5,560.50 | 34.72     | 34.22  | -108.19  | 1,689.46 | -173.88         | 93.27           | 40.70            | 52.57              | 1.774 Level 3<2.00     |                    |                |  |                    |         |
| 6,200.00  | 5,555.32 | 6,138.81       | 5,549.09 | 34.90     | 34.26  | -88.26   | 1,667.87 | -264.45         | 112.92          | 66.10            | 46.82              | 2.412                  |                    |                |  |                    |         |
| 6,300.00  | 5,558.34 | 6,050.00       | 5,524.45 | 35.18     | 34.29  | -75.21   | 1,648.10 | -347.35         | 140.65          | 98.53            | 42.12              | 3.339                  |                    |                |  |                    |         |
| 6,400.00  | 5,557.92 | 5,968.83       | 5,490.66 | 35.60     | 34.32  | -65.19   | 1,631.01 | -419.07         | 176.52          | 137.79           | 38.73              | 4.557                  |                    |                |  |                    |         |
| 6,500.00  | 5,557.49 | 5,888.48       | 5,450.58 | 36.20     | 34.35  | -56.52   | 1,614.84 | -486.80         | 220.84          | 184.28           | 36.56              | 6.041                  |                    |                |  |                    |         |
| 6,600.00  | 5,557.07 | 5,829.80       | 5,418.35 | 36.99     | 34.35  | -51.48   | 1,602.01 | -534.11         | 273.36          | 235.21           | 38.15              | 7.165                  |                    |                |  |                    |         |
| 6,700.00  | 5,556.65 | 5,779.43       | 5,387.18 | 38.01     | 34.33  | -47.71   | 1,589.75 | -571.70         | 334.96          | 294.18           | 40.78              | 8.214                  |                    |                |  |                    |         |
| 6,800.00  | 5,556.23 | 5,736.35       | 5,358.13 | 39.24     | 34.30  | -44.91   | 1,578.42 | -601.42         | 403.66          | 360.06           | 43.61              | 9.257                  |                    |                |  |                    |         |
| 6,900.00  | 5,555.80 | 5,700.00       | 5,332.05 | 40.67     | 34.26  | -42.82   | 1,568.30 | -624.61         | 477.88          | 431.62           | 46.26              | 10.331                 |                    |                |  |                    |         |
| 7,000.00  | 5,555.38 | 5,667.81       | 5,307.83 | 42.25     | 34.22  | -41.17   | 1,558.95 | -643.63         | 556.39          | 507.93           | 48.46              | 11.481                 |                    |                |  |                    |         |
| 7,100.00  | 5,554.96 | 5,650.00       | 5,294.00 | 43.98     | 34.19  | -40.33   | 1,553.63 | -653.52         | 638.42          | 587.52           | 50.90              | 12.542                 |                    |                |  |                    |         |
| 7,200.00  | 5,554.53 | 5,616.75       | 5,267.45 | 45.81     | 34.12  | -38.88   | 1,543.44 | -670.73         | 722.85          | 670.93           | 51.92              | 13.923                 |                    |                |  |                    |         |
| 7,300.00  | 5,554.11 | 5,600.00       | 5,253.72 | 47.73     | 34.09  | -38.21   | 1,538.19 | -678.76         | 809.60          | 756.20           | 53.40              | 15.162                 |                    |                |  |                    |         |
| 7,400.00  | 5,553.69 | 5,577.81       | 5,235.21 | 49.72     | 34.04  | -37.38   | 1,531.12 | -688.74         | 898.06          | 843.75           | 54.31              | 16.535                 |                    |                |  |                    |         |
| 7,500.00  | 5,553.27 | 5,550.00       | 5,211.51 | 51.78     | 33.97  | -36.42   | 1,522.10 | -700.16         | 988.17          | 933.34           | 54.84              | 18.021                 |                    |                |  |                    |         |
| 7,600.00  | 5,552.84 | 5,550.00       | 5,211.51 | 53.88     | 33.97  | -36.42   | 1,522.10 | -700.16         | 1,079.11        | 1,023.03         | 56.09              | 19.240                 |                    |                |  |                    |         |
| 7,700.00  | 5,552.42 | 5,550.00       | 5,211.51 | 56.03     | 33.97  | -36.42   | 1,522.10 | -700.16         | 1,171.53        | 1,114.44         | 57.09              | 20.521                 |                    |                |  |                    |         |
| 7,800.00  | 5,552.00 | 5,523.10       | 5,188.11 | 58.22     | 33.88  | -35.57   | 1,513.22 | -710.01         | 1,264.19        | 1,206.95         | 57.24              | 22.086                 |                    |                |  |                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|  |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                |                           |         |
|--|----------------------------|----------------------------|----------------------------|-----------------------|--------------------|------------------------------|-------------------|-------------------|-----------------------------|------------------------------|--------------------------------|---------------------------|---------|
| <b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - NW Lybrook Unit 140H - Original Hole - rev0 |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                | <b>Offset Site Error:</b> | 0.00 ft |
| <b>Survey Program:</b> 0-MWD   |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>   | <b>Offset</b>              | <b>Semi Major Axis</b>     |                            | <b>Distance</b>       |                    | <b>Rule Assigned:</b>        |                   | <b>Warning</b>    |                             |                              |                                |                           |         |
| <b>Measured Depth (ft)</b>   | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b> | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b>  |         |
| 0.00   | 0.00                       | 0.00                       | 0.00                       | 0.00                  | 0.00               | 97.32                        | -13.26            | 103.19            | 104.04                      |                              |                                |                           |         |
| 100.00   | 100.00                     | 100.00                     | 100.00                     | 0.13                  | 0.13               | 97.32                        | -13.26            | 103.19            | 104.04                      | 103.77                       | 0.27                           | 386.962                   |         |
| 200.00   | 200.00                     | 200.00                     | 200.00                     | 0.49                  | 0.49               | 97.32                        | -13.26            | 103.19            | 104.04                      | 103.05                       | 0.99                           | 105.535                   |         |
| 300.00   | 300.00                     | 300.00                     | 300.00                     | 0.85                  | 0.85               | 97.32                        | -13.26            | 103.19            | 104.04                      | 102.33                       | 1.70                           | 61.099                    |         |
| 400.00   | 400.00                     | 400.00                     | 400.00                     | 1.21                  | 1.21               | 97.32                        | -13.26            | 103.19            | 104.04                      | 101.62                       | 2.42                           | 42.996                    |         |
| 500.00   | 500.00                     | 500.00                     | 500.00                     | 1.57                  | 1.57               | 97.32                        | -13.26            | 103.19            | 104.04                      | 100.90                       | 3.14                           | 33.168                    |         |
| 600.00   | 599.95                     | 599.95                     | 599.95                     | 1.93                  | 1.93               | 88.91                        | -13.26            | 103.19            | 103.95                      | 100.10                       | 3.85                           | 26.982                    |         |
| 632.54   | 632.43                     | 632.43                     | 632.43                     | 2.05                  | 2.04               | 90.00                        | -13.26            | 103.19            | 103.93                      | 99.85                        | 4.09                           | 25.434 CC                 |         |
| 700.00   | 699.63                     | 699.63                     | 699.63                     | 2.29                  | 2.28               | 93.21                        | -13.26            | 103.19            | 104.10                      | 99.53                        | 4.57                           | 22.775 ES                 |         |
| 800.00   | 798.77                     | 798.77                     | 798.77                     | 2.66                  | 2.64               | 100.19                       | -13.26            | 103.19            | 105.64                      | 100.34                       | 5.30                           | 19.933                    |         |
| 900.00   | 897.08                     | 897.08                     | 897.08                     | 3.06                  | 2.99               | 109.27                       | -13.26            | 103.19            | 110.37                      | 104.32                       | 6.05                           | 18.250                    |         |
| 1,000.00   | 994.31                     | 994.31                     | 994.31                     | 3.49                  | 3.34               | 119.34                       | -13.26            | 103.19            | 120.25                      | 113.44                       | 6.81                           | 17.653 SF                 |         |
| 1,100.00   | 1,090.18                   | 1,091.20                   | 1,091.16                   | 3.97                  | 3.68               | 130.12                       | -14.35            | 101.30            | 136.41                      | 128.84                       | 7.57                           | 18.025                    |         |
| 1,200.00   | 1,184.43                   | 1,184.00                   | 1,183.71                   | 4.50                  | 3.99               | 140.82                       | -17.69            | 95.52             | 160.63                      | 152.35                       | 8.29                           | 19.384                    |         |
| 1,300.00   | 1,277.12                   | 1,272.02                   | 1,271.10                   | 5.09                  | 4.30               | 150.42                       | -22.94            | 86.44             | 193.96                      | 185.00                       | 8.96                           | 21.637                    |         |
| 1,400.00   | 1,369.61                   | 1,356.52                   | 1,354.46                   | 5.71                  | 4.61               | 158.27                       | -29.86            | 74.45             | 233.20                      | 223.61                       | 9.59                           | 24.315                    |         |
| 1,500.00   | 1,462.10                   | 1,437.62                   | 1,433.80                   | 6.34                  | 4.92               | 164.52                       | -38.23            | 59.96             | 277.21                      | 267.02                       | 10.19                          | 27.206                    |         |
| 1,600.00   | 1,554.58                   | 1,515.23                   | 1,509.00                   | 6.99                  | 5.25               | 169.58                       | -47.81            | 43.37             | 325.40                      | 314.63                       | 10.76                          | 30.229                    |         |
| 1,700.00   | 1,647.07                   | 1,589.33                   | 1,580.02                   | 7.65                  | 5.58               | 173.74                       | -58.38            | 25.07             | 377.34                      | 366.02                       | 11.32                          | 33.336                    |         |
| 1,800.00   | 1,739.56                   | 1,659.95                   | 1,646.89                   | 8.31                  | 5.93               | 177.21                       | -69.73            | 5.43              | 432.67                      | 420.81                       | 11.86                          | 36.480                    |         |
| 1,900.00   | 1,832.05                   | 1,727.15                   | 1,709.71                   | 8.98                  | 6.28               | -179.85                      | -81.66            | -15.24            | 491.09                      | 478.71                       | 12.38                          | 39.675                    |         |
| 2,000.00   | 1,924.54                   | 1,799.92                   | 1,777.02                   | 9.66                  | 6.69               | -177.07                      | -95.49            | -39.18            | 551.90                      | 538.91                       | 12.98                          | 42.505                    |         |
| 2,100.00   | 2,017.03                   | 1,876.13                   | 1,847.47                   | 10.34                 | 7.15               | -174.69                      | -110.02           | -64.34            | 613.58                      | 599.92                       | 13.66                          | 44.929                    |         |
| 2,200.00   | 2,109.51                   | 1,952.33                   | 1,917.92                   | 11.02                 | 7.62               | -172.72                      | -124.56           | -89.51            | 675.83                      | 661.49                       | 14.34                          | 47.115                    |         |
| 2,300.00   | 2,202.00                   | 2,028.54                   | 1,988.37                   | 11.71                 | 8.11               | -171.07                      | -139.09           | -114.67           | 738.52                      | 723.47                       | 15.04                          | 49.088                    |         |
| 2,400.00   | 2,294.49                   | 2,104.75                   | 2,058.83                   | 12.39                 | 8.61               | -169.67                      | -153.62           | -139.83           | 801.53                      | 785.78                       | 15.76                          | 50.873                    |         |
| 2,500.00   | 2,386.98                   | 2,180.96                   | 2,129.28                   | 13.08                 | 9.11               | -168.46                      | -168.15           | -164.99           | 864.80                      | 848.32                       | 16.48                          | 52.483                    |         |
| 2,600.00   | 2,479.47                   | 2,257.17                   | 2,199.73                   | 13.77                 | 9.63               | -167.42                      | -182.68           | -190.15           | 928.27                      | 911.07                       | 17.21                          | 53.945                    |         |
| 2,700.00   | 2,571.96                   | 2,333.38                   | 2,270.18                   | 14.46                 | 10.15              | -166.51                      | -197.22           | -215.31           | 991.91                      | 973.97                       | 17.94                          | 55.279                    |         |
| 2,800.00   | 2,664.44                   | 2,409.58                   | 2,340.63                   | 15.15                 | 10.68              | -165.70                      | -211.75           | -240.48           | 1,055.68                    | 1,037.00                     | 18.69                          | 56.498                    |         |
| 2,900.00   | 2,756.93                   | 2,485.79                   | 2,411.08                   | 15.84                 | 11.21              | -164.99                      | -226.28           | -265.64           | 1,119.57                    | 1,100.14                     | 19.43                          | 57.613                    |         |
| 3,000.00   | 2,849.42                   | 2,562.00                   | 2,481.54                   | 16.54                 | 11.75              | -164.35                      | -240.81           | -290.80           | 1,183.55                    | 1,163.36                     | 20.18                          | 58.637                    |         |
| 3,100.00   | 2,941.91                   | 2,638.21                   | 2,551.99                   | 17.23                 | 12.29              | -163.77                      | -255.35           | -315.96           | 1,247.60                    | 1,226.66                     | 20.94                          | 59.580                    |         |
| 3,200.00   | 3,034.40                   | 2,714.42                   | 2,622.44                   | 17.93                 | 12.83              | -163.26                      | -269.88           | -341.12           | 1,311.73                    | 1,290.03                     | 21.70                          | 60.452                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

| <b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - NW Lybrook Unit 141H - Original Hole - rev0 |                           |                           |                           |                                      |                |                             |   |               |  |                             |                               |                      | <b>Offset Site Error:</b> | 0.00 ft |
|--|---------------------------|---------------------------|---------------------------|--------------------------------------|----------------|-----------------------------|---|---------------|--|-----------------------------|-------------------------------|----------------------|---------------------------|---------|
| <b>Survey Program:</b> 0-MWD   |                           |                           |                           |                                      |                |                             |   |               |  |                             |                               |                      | <b>Offset Well Error:</b> | 0.00 ft |
| Measured Depth<br>(ft)   | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Semi Major Axis<br>Reference<br>(ft) | Offset<br>(ft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(ft) | +E/-W<br>(ft) | Distance<br>Between<br>Centres<br>(ft) | Between<br>Ellipses<br>(ft) | Minimum<br>Separation<br>(ft) | Separation<br>Factor | Warning                   |         |
| 0.00   | 0.00                      | 0.00                      | 0.00                      | 0.00                                 | 0.00           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 |                             |                               |                      |                           |         |
| 100.00   | 100.00                    | 100.00                    | 100.00                    | 0.13                                 | 0.13           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 | 123.68                      | 0.27                          | 461.023              |                           |         |
| 200.00   | 200.00                    | 200.00                    | 200.00                    | 0.49                                 | 0.49           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 | 122.96                      | 0.99                          | 125.734              |                           |         |
| 300.00   | 300.00                    | 300.00                    | 300.00                    | 0.85                                 | 0.85           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 | 122.25                      | 1.70                          | 72.793               |                           |         |
| 400.00   | 400.00                    | 400.00                    | 400.00                    | 1.21                                 | 1.21           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 | 121.53                      | 2.42                          | 51.225               |                           |         |
| 500.00   | 500.00                    | 500.00                    | 500.00                    | 1.57                                 | 1.57           | 97.31                       | -15.77                                  | 122.94        | 123.95                                 | 120.81                      | 3.14                          | 39.516               |                           |         |
| 600.00   | 599.95                    | 601.14                    | 601.09                    | 1.93                                 | 1.92           | 89.91                       | -18.29                                  | 122.04        | 123.37                                 | 119.53                      | 3.84                          | 32.129               |                           |         |
| 675.70   | 675.45                    | 676.68                    | 676.43                    | 2.21                                 | 2.17           | 94.98                       | -23.46                                  | 120.18        | 122.89                                 | 118.52                      | 4.37                          | 28.133 CC            |                           |         |
| 700.00   | 699.63                    | 700.62                    | 700.25                    | 2.29                                 | 2.26           | 97.15                       | -25.68                                  | 119.38        | 122.98                                 | 118.44                      | 4.54                          | 27.107 ES            |                           |         |
| 800.00   | 798.77                    | 796.90                    | 795.71                    | 2.66                                 | 2.60           | 108.33                      | -37.45                                  | 115.16        | 126.63                                 | 121.37                      | 5.26                          | 24.081               |                           |         |
| 900.00   | 897.08                    | 888.65                    | 885.97                    | 3.06                                 | 2.96           | 121.27                      | -52.87                                  | 109.63        | 139.50                                 | 133.50                      | 6.00                          | 23.252 SF            |                           |         |
| 1,000.00   | 994.31                    | 974.78                    | 969.90                    | 3.49                                 | 3.33           | 133.27                      | -71.03                                  | 103.11        | 165.28                                 | 158.57                      | 6.71                          | 24.618               |                           |         |
| 1,100.00   | 1,090.18                  | 1,054.51                  | 1,046.75                  | 3.97                                 | 3.70           | 142.82                      | -91.01                                  | 95.94         | 204.46                                 | 197.10                      | 7.36                          | 27.777               |                           |         |
| 1,200.00   | 1,184.43                  | 1,127.35                  | 1,116.13                  | 4.50                                 | 4.07           | 149.81                      | -111.88                                 | 88.45         | 255.39                                 | 247.45                      | 7.94                          | 32.171               |                           |         |
| 1,300.00   | 1,277.12                  | 1,193.54                  | 1,178.39                  | 5.09                                 | 4.44           | 155.31                      | -133.00                                 | 80.87         | 315.48                                 | 307.04                      | 8.44                          | 37.371               |                           |         |
| 1,400.00   | 1,369.61                  | 1,255.45                  | 1,235.90                  | 5.71                                 | 4.81           | 159.65                      | -154.58                                 | 73.13         | 380.36                                 | 371.47                      | 8.89                          | 42.800               |                           |         |
| 1,500.00   | 1,462.10                  | 1,313.63                  | 1,289.24                  | 6.34                                 | 5.18           | 162.89                      | -176.45                                 | 65.28         | 448.67                                 | 439.36                      | 9.31                          | 48.196               |                           |         |
| 1,600.00   | 1,554.58                  | 1,368.31                  | 1,338.70                  | 6.99                                 | 5.56           | 165.38                      | -198.38                                 | 57.41         | 519.78                                 | 510.08                      | 9.71                          | 53.549               |                           |         |
| 1,700.00   | 1,647.07                  | 1,419.71                  | 1,384.57                  | 7.65                                 | 5.93           | 167.35                      | -220.21                                 | 49.58         | 593.27                                 | 583.19                      | 10.08                         | 58.838               |                           |         |
| 1,800.00   | 1,739.56                  | 1,468.04                  | 1,427.12                  | 8.31                                 | 6.29           | 168.94                      | -241.79                                 | 41.83         | 668.83                                 | 658.39                      | 10.44                         | 64.058               |                           |         |
| 1,900.00   | 1,832.05                  | 1,513.53                  | 1,466.62                  | 8.98                                 | 6.65           | 170.25                      | -263.01                                 | 34.22         | 746.19                                 | 735.41                      | 10.78                         | 69.220               |                           |         |
| 2,000.00   | 1,924.54                  | 1,556.36                  | 1,503.32                  | 9.66                                 | 7.00           | 171.35                      | -283.81                                 | 26.75         | 825.17                                 | 814.07                      | 11.10                         | 74.312               |                           |         |
| 2,100.00   | 2,017.03                  | 1,600.89                  | 1,540.96                  | 10.34                                | 7.38           | 172.36                      | -306.20                                 | 18.72         | 905.57                                 | 894.11                      | 11.46                         | 79.038               |                           |         |
| 2,200.00   | 2,109.51                  | 1,658.58                  | 1,589.54                  | 11.02                                | 7.88           | 173.50                      | -335.48                                 | 8.21          | 986.47                                 | 974.50                      | 11.97                         | 82.425               |                           |         |
| 2,300.00   | 2,202.00                  | 1,716.27                  | 1,638.13                  | 11.71                                | 8.39           | 174.47                      | -364.76                                 | -2.30         | 1,067.49                               | 1,055.00                    | 12.49                         | 85.499               |                           |         |
| 2,400.00   | 2,294.49                  | 1,773.96                  | 1,686.71                  | 12.39                                | 8.90           | 175.31                      | -394.04                                 | -12.80        | 1,148.60                               | 1,135.59                    | 13.01                         | 88.288               |                           |         |
| 2,500.00   | 2,386.98                  | 1,831.65                  | 1,735.29                  | 13.08                                | 9.42           | 176.04                      | -423.32                                 | -23.31        | 1,229.79                               | 1,216.25                    | 13.54                         | 90.829               |                           |         |
| 2,600.00   | 2,479.47                  | 1,889.34                  | 1,783.88                  | 13.77                                | 9.95           | 176.69                      | -452.60                                 | -33.82        | 1,311.04                               | 1,296.97                    | 14.07                         | 93.153               |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

| <b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - NW Lybrook UT 131H - Original Hole - MWD |                     |                     |                     |                                |             |                       |                                   |            |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|---|---------------------|---------------------|---------------------|--------------------------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| <b>Survey Program:</b> 64-MWD   |                     |                     |                     |                                |             |                       |                                   |            |                      |                       |                         | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Rule Assigned:</b>   |                     |                     |                     |                                |             |                       |                                   |            |                      |                       |                         | <b>Warning</b>            |         |
| Measured Depth (ft)   | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Semi Major Axis Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 0.00  | 0.00                | 0.00                | 0.00                | 0.00                           | 0.00        | 97.29                 | -7.89                             | 61.62      | 63.27                |                       |                         |                           |         |
| 100.00  | 100.00              | 88.19               | 88.19               | 0.13                           | 0.18        | 96.90                 | -7.44                             | 61.44      | 61.89                | 61.58                 | 0.31                    | 199.033                   |         |
| 200.00  | 200.00              | 188.04              | 188.04              | 0.49                           | 0.53        | 96.29                 | -6.77                             | 61.37      | 61.74                | 60.71                 | 1.03                    | 60.130                    |         |
| 227.13  | 227.13              | 215.13              | 215.13              | 0.59                           | 0.63        | 96.17                 | -6.63                             | 61.37      | 61.73                | 60.51                 | 1.22                    | 50.561 CC                 |         |
| 300.00  | 300.00              | 287.82              | 287.82              | 0.85                           | 0.89        | 95.96                 | -6.43                             | 61.55      | 61.89                | 60.15                 | 1.74                    | 35.613                    |         |
| 400.00  | 400.00              | 387.72              | 387.71              | 1.21                           | 1.24        | 95.78                 | -6.27                             | 61.91      | 62.22                | 59.78                 | 2.45                    | 25.439                    |         |
| 500.00  | 500.00              | 487.52              | 487.51              | 1.57                           | 1.58        | 95.89                 | -6.45                             | 62.51      | 62.84                | 59.69                 | 3.15                    | 19.931                    |         |
| 600.00  | 599.95              | 588.65              | 588.62              | 1.93                           | 1.93        | 90.00                 | -8.17                             | 62.49      | 62.97                | 59.11                 | 3.86                    | 16.320                    |         |
| 677.68  | 677.42              | 666.53              | 666.35              | 2.21                           | 2.20        | 99.28                 | -12.22                            | 60.19      | 62.21                | 57.81                 | 4.40                    | 14.125                    |         |
| 700.00  | 699.63              | 688.49              | 688.25              | 2.29                           | 2.28        | 102.76                | -13.68                            | 59.34      | 62.35                | 57.79                 | 4.56                    | 13.670 ES                 |         |
| 800.00  | 798.77              | 785.77              | 785.18              | 2.66                           | 2.62        | 120.25                | -20.97                            | 55.53      | 67.84                | 62.56                 | 5.28                    | 12.847 SF                 |         |
| 900.00  | 897.08              | 879.80              | 878.76              | 3.06                           | 2.96        | 136.32                | -29.46                            | 52.22      | 83.98                | 77.98                 | 6.00                    | 13.992                    |         |
| 1,000.00  | 994.31              | 969.34              | 967.51              | 3.49                           | 3.30        | 148.05                | -41.05                            | 49.76      | 113.00               | 106.31                | 6.69                    | 16.890                    |         |
| 1,100.00  | 1,090.18            | 1,056.51            | 1,053.60            | 3.97                           | 3.65        | 155.09                | -54.72                            | 49.21      | 152.52               | 145.16                | 7.36                    | 20.733                    |         |
| 1,200.00  | 1,184.43            | 1,142.66            | 1,138.53            | 4.50                           | 4.00        | 159.07                | -69.04                            | 50.76      | 199.09               | 191.07                | 8.02                    | 24.819                    |         |
| 1,300.00  | 1,277.12            | 1,224.39            | 1,218.98            | 5.09                           | 4.34        | 161.88                | -83.34                            | 52.66      | 250.80               | 242.14                | 8.66                    | 28.958                    |         |
| 1,400.00  | 1,369.61            | 1,304.09            | 1,297.21            | 5.71                           | 4.68        | 163.98                | -98.50                            | 54.41      | 304.62               | 295.35                | 9.27                    | 32.871                    |         |
| 1,500.00  | 1,462.10            | 1,380.25            | 1,371.72            | 6.34                           | 5.02        | 165.38                | -114.14                           | 56.32      | 359.99               | 350.14                | 9.85                    | 36.545                    |         |
| 1,600.00  | 1,554.58            | 1,452.95            | 1,442.47            | 6.99                           | 5.36        | 166.37                | -130.73                           | 58.32      | 417.40               | 406.99                | 10.41                   | 40.097                    |         |
| 1,700.00  | 1,647.07            | 1,527.51            | 1,514.70            | 7.65                           | 5.72        | 167.15                | -149.07                           | 60.52      | 476.38               | 465.39                | 10.99                   | 43.332                    |         |
| 1,800.00  | 1,739.56            | 1,597.61            | 1,582.38            | 8.31                           | 6.07        | 167.80                | -167.28                           | 62.03      | 536.57               | 525.03                | 11.54                   | 46.489                    |         |
| 1,900.00  | 1,832.05            | 1,661.36            | 1,643.48            | 8.98                           | 6.41        | 168.35                | -185.41                           | 62.94      | 598.79               | 586.76                | 12.03                   | 49.762                    |         |
| 2,000.00  | 1,924.54            | 1,736.52            | 1,715.18            | 9.66                           | 6.81        | 168.87                | -207.94                           | 64.24      | 662.30               | 649.65                | 12.65                   | 52.375                    |         |
| 2,100.00  | 2,017.03            | 1,818.29            | 1,793.29            | 10.34                          | 7.26        | 169.23                | -232.00                           | 66.61      | 725.40               | 712.07                | 13.33                   | 54.423                    |         |
| 2,200.00  | 2,109.51            | 1,893.17            | 1,864.81            | 11.02                          | 7.68        | 169.45                | -253.98                           | 69.41      | 788.43               | 774.48                | 13.95                   | 56.519                    |         |
| 2,300.00  | 2,202.00            | 1,964.18            | 1,932.48            | 11.71                          | 8.08        | 169.66                | -275.40                           | 71.65      | 852.13               | 837.59                | 14.54                   | 58.615                    |         |
| 2,400.00  | 2,294.49            | 2,054.66            | 2,018.92            | 12.39                          | 8.60        | 169.98                | -302.09                           | 73.49      | 915.31               | 900.00                | 15.31                   | 59.773                    |         |
| 2,500.00  | 2,386.98            | 2,140.22            | 2,100.92            | 13.08                          | 9.08        | 170.22                | -326.41                           | 75.47      | 977.64               | 961.59                | 16.04                   | 60.945                    |         |
| 2,600.00  | 2,479.47            | 2,213.25            | 2,170.98            | 13.77                          | 9.49        | 170.42                | -346.99                           | 76.84      | 1,039.78             | 1,023.13              | 16.65                   | 62.432                    |         |
| 2,700.00  | 2,571.96            | 2,278.81            | 2,233.68            | 14.46                          | 9.87        | 170.64                | -366.12                           | 77.24      | 1,102.78             | 1,085.58              | 17.20                   | 64.113                    |         |
| 2,800.00  | 2,664.44            | 2,350.69            | 2,302.28            | 15.15                          | 10.28       | 170.89                | -387.60                           | 77.07      | 1,166.38             | 1,148.57              | 17.81                   | 65.501                    |         |
| 2,900.00  | 2,756.93            | 2,424.27            | 2,372.43            | 15.84                          | 10.72       | 171.11                | -409.80                           | 77.19      | 1,230.23             | 1,211.79              | 18.43                   | 66.742                    |         |
| 3,000.00  | 2,849.42            | 2,509.14            | 2,453.36            | 16.54                          | 11.22       | 171.28                | -435.32                           | 78.22      | 1,293.95             | 1,274.79              | 19.17                   | 67.513                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

| <b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - NW Lybrook UT 289H - Original Hole - Gyro & MWD |                     |                       |                     |                                |                             |                       |                                   |                                   |                      |                       |                         | <b>Offset Site Error:</b> | 0.00 ft |
|--|---------------------|-----------------------|---------------------|--------------------------------|-----------------------------|-----------------------|-----------------------------------|-----------------------------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| <b>Survey Program:</b> 64-GYRO-NS, 464-MWD   |                     |                       |                     |                                |                             |                       |                                   |                                   |                      |                       |                         | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>   | <b>Offset</b>       | <b>Rule Assigned:</b> |                     |                                |                             |                       |                                   |                                   |                      |                       |                         | <b>Warning</b>            |         |
| Measured Depth (ft)  | Vertical Depth (ft) | Measured Depth (ft)   | Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor         |         |
| 0.00   | 0.00                | 0.00                  | 0.00                | 0.00                           | 0.00                        | 97.35                 | -10.76                            | 83.43                             | 84.98                |                       |                         |                           |         |
| 100.00   | 100.00              | 88.11                 | 88.11               | 0.13                           | 0.17                        | 97.20                 | -10.53                            | 83.37                             | 84.03                | 83.73                 | 0.31                    | 274.305                   |         |
| 145.01   | 145.01              | 133.01                | 133.01              | 0.30                           | 0.33                        | 97.08                 | -10.35                            | 83.36                             | 84.00                | 83.37                 | 0.62                    | 134.486                   |         |
| 200.00   | 200.00              | 187.81                | 187.81              | 0.49                           | 0.52                        | 96.85                 | -10.03                            | 83.46                             | 84.06                | 83.05                 | 1.01                    | 82.971                    |         |
| 300.00   | 300.00              | 287.62                | 287.61              | 0.85                           | 0.87                        | 96.60                 | -9.70                             | 83.89                             | 84.46                | 82.73                 | 1.72                    | 49.097                    |         |
| 400.00   | 400.00              | 387.73                | 387.72              | 1.21                           | 1.20                        | 96.65                 | -9.83                             | 84.30                             | 84.87                | 82.46                 | 2.41                    | 35.226                    |         |
| 500.00   | 500.00              | 487.83                | 487.82              | 1.57                           | 1.36                        | 97.01                 | -10.39                            | 84.51                             | 85.14                | 82.22                 | 2.93                    | 29.097                    |         |
| 600.00   | 599.95              | 588.76                | 588.75              | 1.93                           | 1.46                        | 88.89                 | -10.28                            | 84.36                             | 84.89                | 81.51                 | 3.39                    | 25.079                    |         |
| 700.00   | 699.63              | 690.00                | 689.87              | 2.29                           | 1.64                        | 91.47                 | -5.76                             | 83.14                             | 82.96                | 79.03                 | 3.92                    | 21.149                    |         |
| 800.00   | 798.77              | 790.72                | 790.25              | 2.66                           | 1.87                        | 95.49                 | 2.35                              | 81.59                             | 80.39                | 75.86                 | 4.53                    | 17.756                    |         |
| 900.00   | 897.08              | 893.85                | 892.65              | 3.06                           | 2.17                        | 101.95                | 14.02                             | 78.16                             | 76.38                | 71.18                 | 5.20                    | 14.690                    |         |
| 1,000.00   | 994.31              | 996.20                | 993.66              | 3.49                           | 2.51                        | 112.91                | 28.37                             | 70.22                             | 69.98                | 64.08                 | 5.90                    | 11.858                    |         |
| 1,100.00   | 1,090.18            | 1,096.55              | 1,092.08            | 3.97                           | 2.89                        | 130.89                | 43.57                             | 57.90                             | 65.60                | 59.03                 | 6.58                    | 9.977                     |         |
| 1,110.39   | 1,100.05            | 1,106.84              | 1,102.14            | 4.03                           | 2.93                        | 133.14                | 45.17                             | 56.40                             | 65.55                | 58.90                 | 6.65                    | 9.860 CC, ES              |         |
| 1,200.00   | 1,184.43            | 1,195.11              | 1,188.02            | 4.50                           | 3.31                        | 153.04                | 59.99                             | 42.45                             | 69.97                | 62.72                 | 7.26                    | 9.643 SF                  |         |
| 1,300.00   | 1,277.12            | 1,292.25              | 1,281.77            | 5.09                           | 3.77                        | 172.38                | 78.37                             | 24.89                             | 85.30                | 77.23                 | 8.07                    | 10.567                    |         |
| 1,400.00   | 1,369.61            | 1,388.13              | 1,373.38            | 5.71                           | 4.26                        | -173.30               | 98.31                             | 4.82                              | 106.59               | 97.56                 | 9.03                    | 11.800                    |         |
| 1,500.00   | 1,462.10            | 1,483.63              | 1,464.30            | 6.34                           | 4.79                        | -163.54               | 118.90                            | -15.91                            | 131.83               | 121.74                | 10.08                   | 13.072                    |         |
| 1,600.00   | 1,554.58            | 1,578.00              | 1,553.84            | 6.99                           | 5.33                        | -156.70               | 140.10                            | -36.85                            | 159.04               | 147.86                | 11.18                   | 14.229                    |         |
| 1,700.00   | 1,647.07            | 1,668.84              | 1,639.90            | 7.65                           | 5.87                        | -151.84               | 160.07                            | -57.95                            | 188.74               | 176.48                | 12.26                   | 15.399                    |         |
| 1,800.00   | 1,739.56            | 1,757.14              | 1,723.90            | 8.31                           | 6.39                        | -148.62               | 176.91                            | -79.36                            | 222.12               | 208.83                | 13.29                   | 16.718                    |         |
| 1,900.00   | 1,832.05            | 1,851.59              | 1,814.19            | 8.98                           | 6.94                        | -146.42               | 193.31                            | -101.68                           | 256.85               | 242.48                | 14.37                   | 17.872                    |         |
| 2,000.00   | 1,924.54            | 1,946.17              | 1,905.14            | 9.66                           | 7.47                        | -145.13               | 208.90                            | -122.44                           | 291.35               | 275.91                | 15.43                   | 18.878                    |         |
| 2,100.00   | 2,017.03            | 2,049.01              | 2,004.37            | 10.34                          | 8.03                        | -144.25               | 226.19                            | -143.13                           | 324.55               | 307.98                | 16.58                   | 19.578                    |         |
| 2,200.00   | 2,109.51            | 2,147.70              | 2,099.50            | 11.02                          | 8.58                        | -143.49               | 244.78                            | -161.73                           | 355.58               | 337.90                | 17.68                   | 20.113                    |         |
| 2,300.00   | 2,202.00            | 2,248.29              | 2,196.44            | 11.71                          | 9.14                        | -142.84               | 264.10                            | -180.36                           | 386.20               | 367.39                | 18.81                   | 20.537                    |         |
| 2,400.00   | 2,294.49            | 2,350.42              | 2,294.71            | 12.39                          | 9.72                        | -142.22               | 285.87                            | -197.65                           | 414.31               | 394.36                | 19.95                   | 20.763                    |         |
| 2,500.00   | 2,386.98            | 2,443.20              | 2,384.01            | 13.08                          | 10.24                       | -141.74               | 305.41                            | -213.51                           | 442.76               | 421.75                | 21.01                   | 21.075                    |         |
| 2,600.00   | 2,479.47            | 2,538.76              | 2,475.82            | 13.77                          | 10.79                       | -141.22               | 325.85                            | -230.43                           | 471.45               | 449.35                | 22.11                   | 21.326                    |         |
| 2,700.00   | 2,571.96            | 2,630.66              | 2,564.08            | 14.46                          | 11.31                       | -140.76               | 345.33                            | -247.06                           | 500.58               | 477.41                | 23.17                   | 21.605                    |         |
| 2,800.00   | 2,664.44            | 2,723.00              | 2,652.74            | 15.15                          | 11.85                       | -140.34               | 364.49                            | -264.33                           | 530.45               | 506.21                | 24.24                   | 21.882                    |         |
| 2,900.00   | 2,756.93            | 2,817.62              | 2,743.42            | 15.84                          | 12.40                       | -139.89               | 384.37                            | -282.59                           | 560.60               | 535.25                | 25.35                   | 22.113                    |         |
| 3,000.00   | 2,849.42            | 2,910.72              | 2,832.58            | 16.54                          | 12.95                       | -139.47               | 403.89                            | -300.96                           | 591.11               | 564.66                | 26.45                   | 22.347                    |         |
| 3,100.00   | 2,941.91            | 3,004.44              | 2,922.20            | 17.23                          | 13.51                       | -139.04               | 423.79                            | -319.82                           | 621.75               | 594.19                | 27.57                   | 22.555                    |         |
| 3,200.00   | 3,034.40            | 3,095.90              | 3,009.84            | 17.93                          | 14.05                       | -138.73               | 442.38                            | -338.21                           | 652.99               | 624.34                | 28.64                   | 22.796                    |         |
| 3,300.00   | 3,126.89            | 3,188.69              | 3,098.91            | 18.62                          | 14.60                       | -138.48               | 460.64                            | -356.76                           | 684.56               | 654.83                | 29.73                   | 23.027                    |         |
| 3,400.00   | 3,219.37            | 3,282.60              | 3,189.22            | 19.32                          | 15.14                       | -138.31               | 478.49                            | -375.29                           | 716.36               | 685.55                | 30.81                   | 23.248                    |         |
| 3,500.00   | 3,311.86            | 3,397.43              | 3,299.97            | 20.02                          | 15.78                       | -138.21               | 499.86                            | -396.83                           | 747.88               | 715.75                | 32.13                   | 23.280                    |         |
| 3,600.00   | 3,404.35            | 3,508.35              | 3,406.36            | 20.71                          | 16.43                       | -137.95               | 524.85                            | -415.76                           | 775.47               | 742.06                | 33.41                   | 23.208                    |         |
| 3,700.00   | 3,496.84            | 3,600.93              | 3,495.05            | 21.41                          | 16.97                       | -137.73               | 545.99                            | -431.84                           | 803.21               | 768.70                | 34.51                   | 23.272                    |         |
| 3,800.00   | 3,589.33            | 3,693.19              | 3,583.30            | 22.11                          | 17.52                       | -137.48               | 567.23                            | -448.31                           | 831.21               | 795.59                | 35.62                   | 23.337                    |         |
| 3,900.00   | 3,681.82            | 3,785.19              | 3,671.18            | 22.81                          | 18.07                       | -137.22               | 588.37                            | -465.47                           | 859.83               | 823.11                | 36.73                   | 23.411                    |         |
| 4,000.00   | 3,774.31            | 3,884.04              | 3,765.98            | 23.50                          | 18.65                       | -137.05               | 610.21                            | -483.01                           | 888.33               | 850.44                | 37.89                   | 23.443                    |         |
| 4,100.00   | 3,866.79            | 3,981.81              | 3,860.52            | 24.20                          | 19.19                       | -137.08               | 629.82                            | -498.36                           | 916.57               | 877.58                | 38.99                   | 23.510                    |         |
| 4,200.00   | 3,959.28            | 4,069.05              | 3,945.39            | 24.90                          | 19.64                       | -137.24               | 645.58                            | -510.98                           | 945.12               | 905.19                | 39.93                   | 23.670                    |         |
| 4,300.00   | 4,051.77            | 4,140.00              | 4,014.57            | 25.60                          | 20.00                       | -137.40               | 666.94                            | -521.86                           | 975.53               | 934.86                | 40.67                   | 23.986                    |         |
| 4,400.00   | 4,144.26            | 4,225.51              | 4,098.13            | 26.30                          | 20.42                       | -137.66               | 688.78                            | -535.62                           | 1,007.82             | 966.27                | 41.54                   | 24.260                    |         |
| 4,500.00   | 4,236.75            | 4,334.98              | 4,205.82            | 27.00                          | 20.92                       | -138.17               | 681.57                            | -550.52                           | 1,039.73             | 997.12                | 42.61                   | 24.401                    |         |
| 4,600.00   | 4,329.24            | 4,434.93              | 4,304.87            | 27.70                          | 21.31                       | -138.86               | 690.47                            | -560.39                           | 1,070.75             | 1,027.28              | 43.47                   | 24.630                    |         |
| 4,700.00   | 4,421.72            | 4,543.89              | 4,413.45            | 28.40                          | 21.67                       | -139.87               | 696.90                            | -566.66                           | 1,100.89             | 1,056.59              | 44.30                   | 24.849                    |         |
| 4,800.00   | 4,514.21            | 4,637.92              | 4,507.36            | 29.10                          | 21.95                       | -140.85               | 700.70                            | -569.48                           | 1,130.55             | 1,085.60              | 44.96                   | 25.147                    |         |
| 4,900.00   | 4,606.70            | 4,731.97              | 4,601.29            | 29.80                          | 22.22                       | -141.79               | 704.43                            | -572.25                           | 1,160.54             | 1,114.93              | 45.61                   | 25.446                    |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|  |                            |                            |                            |                        |                    |                              |                               |                   |                             |                              |                                |                          |                           |         |
|--|----------------------------|----------------------------|----------------------------|------------------------|--------------------|------------------------------|-------------------------------|-------------------|-----------------------------|------------------------------|--------------------------------|--------------------------|---------------------------|---------|
| <b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - NW Lybrook UT 289H - Original Hole - Gyro & MWD |                            |                            |                            |                        |                    |                              |                               |                   |                             |                              |                                |                          | <b>Offset Site Error:</b> | 0.00 ft |
| <b>Survey Program:</b> 64-GYRO-NS, 464-MWD   |                            |                            |                            |                        |                    |                              |                               |                   |                             |                              |                                |                          | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>   |                            | <b>Offset</b>              |                            | <b>Semi Major Axis</b> |                    |                              | <b>Offset Wellbore Centre</b> |                   | <b>Distance</b>             |                              | <b>Rule Assigned:</b>          |                          | <b>Warning</b>            |         |
| <b>Measured Depth (ft)</b>   | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b>  | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>+N/-S (ft)</b>             | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b> |                           |         |
| 5,000.00   | 4,699.19                   | 4,821.61                   | 4,690.85                   | 30.50                  | 22.48              | -142.66                      | 707.44                        | -574.74           | 1,191.08                    | 1,144.86                     | 46.22                          | 25.772                   |                           |         |
| 5,100.00   | 4,791.68                   | 6,265.57                   | 5,551.11                   | 31.20                  | 27.27              | 170.24                       | 714.05                        | 312.99            | 1,164.50                    | 1,121.05                     | 43.45                          | 26.802                   |                           |         |
| 5,200.00   | 4,884.17                   | 6,273.00                   | 5,551.08                   | 31.90                  | 27.38              | 169.85                       | 714.34                        | 320.41            | 1,134.95                    | 1,089.41                     | 45.54                          | 24.920                   |                           |         |
| 5,300.00   | 4,976.98                   | 6,277.64                   | 5,551.06                   | 32.58                  | 27.45              | -176.85                      | 714.53                        | 325.04            | 1,113.04                    | 1,065.61                     | 47.43                          | 23.467                   |                           |         |
| 5,400.00   | 5,070.25                   | 6,269.00                   | 5,551.09                   | 33.18                  | 27.32              | -152.50                      | 714.18                        | 316.41            | 1,097.17                    | 1,048.36                     | 48.81                          | 22.478                   |                           |         |
| 5,500.00   | 5,161.36                   | 6,242.27                   | 5,551.13                   | 33.66                  | 26.94              | -132.82                      | 713.05                        | 289.71            | 1,087.35                    | 1,037.82                     | 49.53                          | 21.955                   |                           |         |
| 5,600.00   | 5,247.54                   | 6,204.81                   | 5,550.98                   | 34.03                  | 26.43              | -119.36                      | 711.20                        | 252.29            | 1,083.01                    | 1,033.33                     | 49.68                          | 21.801                   |                           |         |
| 5,669.16   | 5,302.88                   | 6,163.59                   | 5,550.72                   | 34.21                  | 25.91              | -112.10                      | 709.08                        | 211.13            | 1,082.38                    | 1,033.02                     | 49.36                          | 21.928                   |                           |         |
| 5,700.00   | 5,326.18                   | 6,141.90                   | 5,550.59                   | 34.30                  | 25.65              | -109.27                      | 708.02                        | 189.46            | 1,082.46                    | 1,033.33                     | 49.13                          | 22.033                   |                           |         |
| 5,800.00   | 5,394.87                   | 6,042.53                   | 5,545.24                   | 34.47                  | 24.65              | -100.72                      | 703.88                        | 90.35             | 1,082.39                    | 1,034.43                     | 47.96                          | 22.567                   |                           |         |
| 5,900.00   | 5,451.55                   | 5,963.23                   | 5,534.23                   | 34.55                  | 24.08              | -95.02                       | 700.73                        | 11.92             | 1,081.08                    | 1,033.98                     | 47.10                          | 22.953                   |                           |         |
| 5,942.68   | 5,472.36                   | 5,937.00                   | 5,528.44                   | 34.57                  | 23.94              | -94.10                       | 699.58                        | -13.63            | 1,080.55                    | 1,033.70                     | 46.85                          | 23.063                   |                           |         |
| 6,000.00   | 5,500.35                   | 5,890.42                   | 5,515.19                   | 34.61                  | 23.73              | -92.25                       | 697.38                        | -58.21            | 1,081.10                    | 1,034.78                     | 46.32                          | 23.340                   |                           |         |
| 6,100.00   | 5,536.20                   | 5,819.68                   | 5,489.77                   | 34.72                  | 23.50              | -89.26                       | 694.04                        | -124.12           | 1,086.03                    | 1,040.36                     | 45.67                          | 23.782                   |                           |         |
| 6,200.00   | 5,555.32                   | 5,756.77                   | 5,461.94                   | 34.90                  | 23.38              | -86.35                       | 691.04                        | -180.44           | 1,094.92                    | 1,049.64                     | 45.28                          | 24.182                   |                           |         |
| 6,300.00   | 5,558.34                   | 5,709.00                   | 5,437.50                   | 35.18                  | 23.31              | -84.26                       | 688.04                        | -221.35           | 1,107.76                    | 1,062.52                     | 45.23                          | 24.490                   |                           |         |
| 6,400.00   | 5,557.92                   | 5,669.83                   | 5,415.32                   | 35.60                  | 23.27              | -83.13                       | 684.69                        | -253.45           | 1,125.74                    | 1,080.37                     | 45.37                          | 24.813                   |                           |         |
| 6,500.00   | 5,557.49                   | 5,634.03                   | 5,393.04                   | 36.20                  | 23.25              | -82.02                       | 680.67                        | -281.17           | 1,149.72                    | 1,104.14                     | 45.58                          | 25.225                   |                           |         |
| 6,600.00   | 5,557.07                   | 5,314.52                   | 5,167.11                   | 36.99                  | 23.21              | -70.98                       | 678.50                        | -503.01           | 1,176.98                    | 1,133.61                     | 43.37                          | 27.137                   |                           |         |
| 6,700.00   | 5,556.65                   | 5,290.21                   | 5,146.95                   | 38.01                  | 23.22              | -69.97                       | 682.96                        | -515.84           | 1,196.34                    | 1,152.76                     | 43.58                          | 27.453                   |                           |         |
| 6,800.00   | 5,556.23                   | 5,270.00                   | 5,129.53                   | 39.24                  | 23.23              | -69.11                       | 686.62                        | -525.40           | 1,222.71                    | 1,178.84                     | 43.87                          | 27.871                   |                           |         |
| 6,900.00   | 5,555.80                   | 5,254.75                   | 5,116.04                   | 40.67                  | 23.23              | -68.45                       | 689.33                        | -531.99           | 1,255.87                    | 1,211.59                     | 44.27                          | 28.368                   |                           |         |
| 7,000.00   | 5,555.38                   | 5,238.00                   | 5,100.96                   | 42.25                  | 23.24              | -67.71                       | 692.22                        | -538.65           | 1,295.42                    | 1,250.75                     | 44.67                          | 28.998                   |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|   |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              |                           |         |
|---|------------------------------------|------------------------------------|------------------------------------|---------------------------|------------------------|--------------------------------------|-------------------------------|-----------------------|-------------------------------------|--------------------------------------|--|------------------------------|---------------------------|---------|
| <b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 130H - Original Hole - rev1 |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              | <b>Offset Site Error:</b> | 0.00 ft |
| <b>Survey Program:</b> 0-MWD  |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>  |                                    | <b>Offset</b>                      |                                    | <b>Semi Major Axis</b>    |                        | <b>Highside<br/>Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                       | <b>Distance</b>                     |                                      | <b>Minimum<br/>Separation<br/>(ft)</b> | <b>Separation<br/>Factor</b> | <b>Warning</b>            |         |
| <b>Measured<br/>Depth<br/>(ft)</b>  | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Measured<br/>Depth<br/>(ft)</b> | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> |                                      | <b>+N/-S<br/>(ft)</b>         | <b>+E/-W<br/>(ft)</b> | <b>Between<br/>Centres<br/>(ft)</b> | <b>Between<br/>Ellipses<br/>(ft)</b> |  |                              |                           |         |
| 4,200.00  | 3,959.28                           | 5,679.25                           | 4,668.24                           | 24.90                     | 62.45                  | -68.63                               | 2,042.14                      | -509.06               | 1,296.61                            | 1,245.56                             | 51.05                                  | 25.397                       |                           |         |
| 4,300.00  | 4,051.77                           | 5,700.00                           | 4,684.96                           | 25.60                     | 62.72                  | -68.84                               | 2,038.09                      | -497.48               | 1,227.08                            | 1,175.06                             | 52.02                                  | 23.588                       |                           |         |
| 4,400.00  | 4,144.26                           | 5,725.67                           | 4,706.17                           | 26.30                     | 63.01                  | -69.09                               | 2,033.83                      | -483.66               | 1,160.55                            | 1,107.58                             | 52.96                                  | 21.912                       |                           |         |
| 4,500.00  | 4,236.75                           | 5,750.00                           | 4,726.75                           | 27.00                     | 63.29                  | -69.33                               | 2,030.55                      | -471.11               | 1,097.39                            | 1,043.49                             | 53.90                                  | 20.361                       |                           |         |
| 4,600.00  | 4,329.24                           | 5,779.74                           | 4,752.50                           | 27.70                     | 63.57                  | -69.62                               | 2,027.56                      | -456.54               | 1,037.98                            | 983.21                               | 54.78                                  | 18.949                       |                           |         |
| 4,700.00  | 4,421.72                           | 5,800.00                           | 4,770.38                           | 28.40                     | 63.77                  | -69.82                               | 2,026.17                      | -447.11               | 982.91                              | 927.33                               | 55.58                                  | 17.684                       |                           |         |
| 4,800.00  | 4,514.21                           | 5,850.00                           | 4,815.51                           | 29.10                     | 64.18                  | -70.28                               | 2,025.00                      | -425.65               | 932.30                              | 875.95                               | 56.35                                  | 16.545                       |                           |         |
| 4,900.00  | 4,606.70                           | 5,876.92                           | 4,840.31                           | 29.80                     | 64.35                  | -70.51                               | 2,025.71                      | -415.21               | 886.78                              | 829.86                               | 56.93                                  | 15.578                       |                           |         |
| 5,000.00  | 4,699.19                           | 5,900.00                           | 4,861.80                           | 30.50                     | 64.50                  | -70.70                               | 2,027.05                      | -406.90               | 847.22                              | 789.99                               | 57.23                                  | 14.804                       |                           |         |
| 5,100.00  | 4,791.68                           | 5,950.00                           | 4,908.89                           | 31.20                     | 64.75                  | -71.08                               | 2,032.30                      | -391.00               | 813.20                              | 755.60                               | 57.60                                  | 14.118                       |                           |         |
| 5,200.00  | 4,884.17                           | 6,000.00                           | 4,956.44                           | 31.90                     | 64.92                  | -71.40                               | 2,040.71                      | -378.07               | 786.00                              | 728.19                               | 57.81                                  | 13.597                       |                           |         |
| 5,300.00  | 4,976.98                           | 6,035.29                           | 4,990.06                           | 32.58                     | 65.00                  | -55.82                               | 2,048.52                      | -370.78               | 763.17                              | 705.68                               | 57.49                                  | 13.274                       |                           |         |
| 5,400.00  | 5,070.25                           | 6,077.47                           | 5,030.14                           | 33.18                     | 65.06                  | -28.17                               | 2,059.83                      | -364.12               | 735.54                              | 678.54                               | 57.00                                  | 12.904                       |                           |         |
| 5,500.00  | 5,161.36                           | 6,118.86                           | 5,069.14                           | 33.66                     | 65.10                  | -5.68                                | 2,072.97                      | -359.78               | 702.68                              | 646.51                               | 56.17                                  | 12.510                       |                           |         |
| 5,600.00  | 5,247.54                           | 6,150.00                           | 5,098.14                           | 34.03                     | 65.10                  | 10.34                                | 2,084.15                      | -357.96               | 665.86                              | 611.16                               | 54.70                                  | 12.173                       |                           |         |
| 5,700.00  | 5,326.18                           | 6,200.00                           | 5,143.87                           | 34.30                     | 65.08                  | 23.60                                | 2,104.33                      | -357.66               | 626.53                              | 572.31                               | 54.22                                  | 11.555                       |                           |         |
| 5,800.00  | 5,394.87                           | 6,229.42                           | 5,170.17                           | 34.47                     | 65.05                  | 33.89                                | 2,117.43                      | -358.99               | 587.43                              | 533.92                               | 53.50                                  | 10.979                       |                           |         |
| 5,900.00  | 5,451.55                           | 6,250.00                           | 5,188.26                           | 34.55                     | 65.03                  | 41.98                                | 2,127.12                      | -360.58               | 551.86                              | 498.08                               | 53.78                                  | 10.262                       |                           |         |
| 6,000.00  | 5,500.35                           | 6,285.89                           | 5,219.11                           | 34.61                     | 64.99                  | 46.01                                | 2,144.99                      | -364.65               | 525.16                              | 468.11                               | 57.05                                  | 9.206                        |                           |         |
| 6,100.00  | 5,536.20                           | 6,300.00                           | 5,230.97                           | 34.72                     | 64.97                  | 48.95                                | 2,152.35                      | -366.70               | 504.78                              | 444.04                               | 60.73                                  | 8.311                        |                           |         |
| 6,200.00  | 5,555.32                           | 6,329.07                           | 5,254.90                           | 34.90                     | 64.92                  | 53.22                                | 2,168.07                      | -371.72               | 490.50                              | 422.54                               | 67.96                                  | 7.218                        |                           |         |
| 6,283.32  | 5,560.29                           | 6,350.00                           | 5,271.68                           | 35.12                     | 64.89                  | 55.80                                | 2,179.83                      | -375.98               | 486.80                              | 411.76                               | 75.04                                  | 6.487                        |                           |         |
| 6,300.00  | 5,558.34                           | 6,350.00                           | 5,271.68                           | 35.18                     | 64.89                  | 55.99                                | 2,179.83                      | -375.98               | 485.97                              | 409.61                               | 76.36                                  | 6.364 CC, ES                 |                           |         |
| 6,400.00  | 5,557.92                           | 6,350.00                           | 5,271.68                           | 35.60                     | 64.89                  | 55.99                                | 2,179.83                      | -375.98               | 499.12                              | 416.08                               | 83.04                                  | 6.010                        |                           |         |
| 6,500.00  | 5,557.49                           | 6,373.93                           | 5,290.37                           | 36.20                     | 64.85                  | 58.72                                | 2,193.72                      | -381.52               | 530.40                              | 440.75                               | 89.65                                  | 5.916 SF                     |                           |         |
| 6,600.00  | 5,557.07                           | 6,394.28                           | 5,305.81                           | 36.99                     | 64.82                  | 61.01                                | 2,205.87                      | -386.78               | 576.80                              | 483.17                               | 93.63                                  | 6.160                        |                           |         |
| 6,700.00  | 5,556.65                           | 6,419.19                           | 5,324.14                           | 38.01                     | 64.78                  | 63.73                                | 2,221.17                      | -393.90               | 634.71                              | 538.83                               | 95.88                                  | 6.620                        |                           |         |
| 6,800.00  | 5,556.23                           | 6,450.28                           | 5,346.07                           | 39.24                     | 64.74                  | 66.96                                | 2,240.86                      | -403.80               | 700.97                              | 603.90                               | 97.07                                  | 7.221                        |                           |         |
| 6,900.00  | 5,555.80                           | 6,489.89                           | 5,372.38                           | 40.67                     | 64.68                  | 70.76                                | 2,266.81                      | -418.02               | 772.98                              | 675.17                               | 97.81                                  | 7.903                        |                           |         |
| 7,000.00  | 5,555.38                           | 6,541.48                           | 5,403.73                           | 42.25                     | 64.63                  | 75.12                                | 2,301.89                      | -439.14               | 848.64                              | 750.05                               | 98.58                                  | 8.608                        |                           |         |
| 7,100.00  | 5,554.96                           | 6,604.80                           | 5,437.42                           | 43.98                     | 64.58                  | 79.49                                | 2,346.52                      | -468.78               | 926.12                              | 826.52                               | 99.61                                  | 9.298                        |                           |         |
| 7,200.00  | 5,554.53                           | 6,653.67                           | 5,461.86                           | 45.81                     | 64.56                  | 82.36                                | 2,381.38                      | -492.79               | 1,004.92                            | 904.87                               | 100.05                                 | 10.044                       |                           |         |
| 7,300.00  | 5,554.11                           | 6,741.24                           | 5,500.03                           | 47.73                     | 64.57                  | 86.34                                | 2,444.84                      | -539.33               | 1,083.72                            | 981.85                               | 101.87                                 | 10.638                       |                           |         |
| 7,400.00  | 5,553.69                           | 6,916.63                           | 5,541.46                           | 49.72                     | 64.81                  | 89.94                                | 2,573.52                      | -649.91               | 1,159.13                            | 1,052.21                             | 106.93                                 | 10.840                       |                           |         |
| 7,500.00  | 5,553.27                           | 7,019.16                           | 5,544.35                           | 51.78                     | 65.06                  | 90.16                                | 2,646.45                      | -721.85               | 1,230.15                            | 1,120.40                             | 109.74                                 | 11.209                       |                           |         |
| 7,600.00  | 5,552.84                           | 7,089.83                           | 5,544.83                           | 53.88                     | 65.28                  | 90.19                                | 2,696.42                      | -771.82               | 1,300.89                            | 1,189.32                             | 111.57                                 | 11.660                       |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|   |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              |                |
|---|------------------------------------|------------------------------------|------------------------------------|---------------------------|------------------------|--------------------------------------|-------------------------------|-----------------------|-------------------------------------|--------------------------------------|--|------------------------------|----------------|
| <b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 135H - Original Hole - rev1 |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  | <b>Offset Site Error:</b>    | 0.00 ft        |
| <b>Survey Program:</b> 0-MWD  |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  | <b>Offset Well Error:</b>    | 0.00 ft        |
| <b>Reference</b>  |                                    | <b>Offset</b>                      |                                    | <b>Semi Major Axis</b>    |                        | <b>Highside<br/>Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                       | <b>Distance</b>                     |                                      | <b>Minimum<br/>Separation<br/>(ft)</b> | <b>Separation<br/>Factor</b> | <b>Warning</b> |
| <b>Measured<br/>Depth<br/>(ft)</b>  | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Measured<br/>Depth<br/>(ft)</b> | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> |                                      | <b>+N/-S<br/>(ft)</b>         | <b>+E/-W<br/>(ft)</b> | <b>Between<br/>Centres<br/>(ft)</b> | <b>Between<br/>Ellipses<br/>(ft)</b> |  |                              |                |
| 6,700.00  | 5,556.65                           | 5,522.82                           | 5,146.31                           | 38.01                     | 35.29                  | 46.05                                | 2,181.66                      | -1,925.47             | 1,267.04                            | 1,216.41                             | 50.63                                  | 25.024                       |                |
| 6,800.00  | 5,556.23                           | 5,530.16                           | 5,153.11                           | 39.24                     | 35.28                  | 46.71                                | 2,183.87                      | -1,927.10             | 1,178.22                            | 1,128.51                             | 49.71                                  | 23.702                       |                |
| 6,900.00  | 5,555.80                           | 5,550.00                           | 5,171.34                           | 40.67                     | 35.26                  | 48.54                                | 2,190.13                      | -1,931.83             | 1,091.35                            | 1,042.40                             | 48.95                                  | 22.294                       |                |
| 7,000.00  | 5,555.38                           | 5,550.00                           | 5,171.34                           | 42.25                     | 35.26                  | 48.54                                | 2,190.13                      | -1,931.83             | 1,006.36                            | 958.34                               | 48.01                                  | 20.960                       |                |
| 7,100.00  | 5,554.96                           | 5,550.00                           | 5,171.34                           | 43.98                     | 35.26                  | 48.54                                | 2,190.13                      | -1,931.83             | 924.37                              | 877.16                               | 47.21                                  | 19.580                       |                |
| 7,200.00  | 5,554.53                           | 5,566.47                           | 5,186.25                           | 45.81                     | 35.25                  | 50.09                                | 2,195.67                      | -1,936.11             | 845.87                              | 798.84                               | 47.03                                  | 17.985                       |                |
| 7,300.00  | 5,554.11                           | 5,577.79                           | 5,196.38                           | 47.73                     | 35.23                  | 51.18                                | 2,199.63                      | -1,939.23             | 772.05                              | 724.68                               | 47.38                                  | 16.296                       |                |
| 7,400.00  | 5,553.69                           | 5,600.00                           | 5,215.96                           | 49.72                     | 35.21                  | 53.36                                | 2,207.82                      | -1,945.77             | 704.40                              | 655.40                               | 49.00                                  | 14.374                       |                |
| 7,500.00  | 5,553.27                           | 5,600.00                           | 5,215.96                           | 51.78                     | 35.21                  | 53.36                                | 2,207.82                      | -1,945.77             | 644.31                              | 592.90                               | 51.41                                  | 12.533                       |                |
| 7,600.00  | 5,552.84                           | 5,619.39                           | 5,232.71                           | 53.88                     | 35.19                  | 55.29                                | 2,215.39                      | -1,951.93             | 594.42                              | 538.13                               | 56.29                                  | 10.560                       |                |
| 7,700.00  | 5,552.42                           | 5,636.49                           | 5,247.22                           | 56.03                     | 35.17                  | 57.01                                | 2,222.38                      | -1,957.70             | 557.25                              | 494.12                               | 63.13                                  | 8.827                        |                |
| 7,800.00  | 5,552.00                           | 5,650.00                           | 5,258.47                           | 58.22                     | 35.15                  | 58.36                                | 2,228.11                      | -1,962.48             | 535.28                              | 463.97                               | 71.31                                  | 7.506                        |                |
| 7,880.16  | 5,551.66                           | 5,672.76                           | 5,277.04                           | 59.99                     | 35.12                  | 60.65                                | 2,238.17                      | -1,970.98             | 529.68                              | 451.04                               | 78.64                                  | 6.735 CC                     |                |
| 7,900.00  | 5,551.58                           | 5,677.26                           | 5,280.64                           | 60.43                     | 35.12                  | 61.10                                | 2,240.22                      | -1,972.73             | 530.02                              | 449.69                               | 80.34                                  | 6.597 ES                     |                |
| 8,000.00  | 5,551.15                           | 5,700.00                           | 5,298.54                           | 62.68                     | 35.09                  | 63.35                                | 2,250.86                      | -1,981.86             | 541.86                              | 453.93                               | 87.93                                  | 6.162                        |                |
| 8,100.00  | 5,550.73                           | 5,729.41                           | 5,320.85                           | 64.95                     | 35.05                  | 66.19                                | 2,265.31                      | -1,994.44             | 569.33                              | 475.69                               | 93.64                                  | 6.080 SF                     |                |
| 8,200.00  | 5,550.31                           | 5,761.01                           | 5,343.70                           | 67.24                     | 35.02                  | 69.11                                | 2,281.67                      | -2,008.89             | 609.98                              | 512.76                               | 97.21                                  | 6.275                        |                |
| 8,300.00  | 5,549.88                           | 5,800.00                           | 5,370.18                           | 69.55                     | 34.98                  | 72.48                                | 2,302.98                      | -2,027.98             | 660.94                              | 561.57                               | 99.37                                  | 6.651                        |                |
| 8,400.00  | 5,549.46                           | 5,838.44                           | 5,394.32                           | 71.87                     | 34.96                  | 75.49                                | 2,325.11                      | -2,048.08             | 719.51                              | 619.11                               | 100.41                                 | 7.166                        |                |
| 8,500.00  | 5,549.04                           | 5,885.62                           | 5,421.15                           | 74.22                     | 34.95                  | 78.72                                | 2,353.64                      | -2,074.38             | 783.47                              | 682.27                               | 101.20                                 | 7.742                        |                |
| 8,600.00  | 5,548.62                           | 5,941.33                           | 5,449.40                           | 76.57                     | 34.96                  | 81.94                                | 2,388.75                      | -2,107.12             | 850.94                              | 748.86                               | 102.09                                 | 8.336                        |                |
| 8,700.00  | 5,548.19                           | 6,000.21                           | 5,478.08                           | 78.94                     | 35.00                  | 84.91                                | 2,426.27                      | -2,142.25             | 920.62                              | 817.66                               | 102.96                                 | 8.941                        |                |
| 8,800.00  | 5,547.77                           | 6,064.95                           | 5,504.02                           | 81.32                     | 35.09                  | 87.38                                | 2,469.26                      | -2,183.08             | 991.71                              | 887.55                               | 104.16                                 | 9.521                        |                |
| 8,900.00  | 5,547.35                           | 6,136.97                           | 5,524.82                           | 83.70                     | 35.26                  | 89.17                                | 2,518.83                      | -2,230.93             | 1,063.29                            | 957.47                               | 105.82                                 | 10.048                       |                |
| 9,000.00  | 5,546.92                           | 6,214.94                           | 5,537.44                           | 86.10                     | 35.50                  | 90.15                                | 2,573.70                      | -2,284.78             | 1,134.69                            | 1,026.76                             | 107.93                                 | 10.513                       |                |
| 9,100.00  | 5,546.50                           | 6,292.17                           | 5,540.17                           | 88.51                     | 35.79                  | 90.34                                | 2,628.34                      | -2,339.24             | 1,205.56                            | 1,095.41                             | 110.16                                 | 10.944                       |                |
| 9,200.00  | 5,546.08                           | 6,362.84                           | 5,540.62                           | 90.92                     | 36.15                  | 90.36                                | 2,678.32                      | -2,389.22             | 1,276.31                            | 1,164.11                             | 112.19                                 | 11.376                       |                |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|   |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                |                          |                           |         |
|---|----------------------------|----------------------------|----------------------------|-----------------------|--------------------|------------------------------|-------------------|-------------------|-----------------------------|------------------------------|--------------------------------|--------------------------|---------------------------|---------|
| <b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 136H - Original Hole - rev1 |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                |                          | <b>Offset Site Error:</b> | 0.00 ft |
| <b>Survey Program:</b> 0-MWD  |                            |                            |                            |                       |                    |                              |                   |                   |                             |                              |                                |                          | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>  | <b>Offset</b>              | <b>Semi Major Axis</b>     |                            | <b>Distance</b>       |                    | <b>Rule Assigned:</b>        |                   | <b>Warning</b>    |                             |                              |                                |                          |                           |         |
| <b>Measured Depth (ft)</b>  | <b>Vertical Depth (ft)</b> | <b>Measured Depth (ft)</b> | <b>Vertical Depth (ft)</b> | <b>Reference (ft)</b> | <b>Offset (ft)</b> | <b>Highside Toolface (°)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b> | <b>Between Centres (ft)</b> | <b>Between Ellipses (ft)</b> | <b>Minimum Separation (ft)</b> | <b>Separation Factor</b> |                           |         |
| 8,300.00  | 5,549.88                   | 5,300.00                   | 5,144.76                   | 69.55                 | 24.77              | 47.58                        | 2,197.46          | -3,543.73         | 1,287.14                    | 1,231.24                     | 55.90                          | 23.027                   |                           |         |
| 8,400.00  | 5,549.46                   | 5,300.00                   | 5,144.76                   | 71.87                 | 24.77              | 47.58                        | 2,197.46          | -3,543.73         | 1,198.34                    | 1,141.91                     | 56.44                          | 21.234                   |                           |         |
| 8,500.00  | 5,549.04                   | 5,300.00                   | 5,144.76                   | 74.22                 | 24.77              | 47.58                        | 2,197.46          | -3,543.73         | 1,111.46                    | 1,054.20                     | 57.25                          | 19.414                   |                           |         |
| 8,600.00  | 5,548.62                   | 5,300.00                   | 5,144.76                   | 76.57                 | 24.77              | 47.58                        | 2,197.46          | -3,543.73         | 1,026.96                    | 968.53                       | 58.43                          | 17.576                   |                           |         |
| 8,700.00  | 5,548.19                   | 5,320.94                   | 5,164.06                   | 78.94                 | 24.78              | 49.43                        | 2,203.18          | -3,549.45         | 944.89                      | 884.50                       | 60.39                          | 15.646                   |                           |         |
| 8,800.00  | 5,547.77                   | 5,332.25                   | 5,174.37                   | 81.32                 | 24.79              | 50.46                        | 2,206.48          | -3,552.75         | 866.41                      | 803.52                       | 62.90                          | 13.775                   |                           |         |
| 8,900.00  | 5,547.35                   | 5,350.00                   | 5,190.35                   | 83.70                 | 24.80              | 52.10                        | 2,211.94          | -3,558.21         | 792.41                      | 726.03                       | 66.38                          | 11.938                   |                           |         |
| 9,000.00  | 5,546.92                   | 5,350.00                   | 5,190.35                   | 86.10                 | 24.80              | 52.10                        | 2,211.94          | -3,558.21         | 724.13                      | 653.80                       | 70.32                          | 10.297                   |                           |         |
| 9,100.00  | 5,546.50                   | 5,373.21                   | 5,210.87                   | 88.51                 | 24.81              | 54.29                        | 2,219.60          | -3,565.87         | 663.06                      | 587.03                       | 76.03                          | 8.721                    |                           |         |
| 9,200.00  | 5,546.08                   | 5,400.00                   | 5,233.99                   | 90.92                 | 24.81              | 56.87                        | 2,229.17          | -3,575.44         | 611.75                      | 528.71                       | 83.04                          | 7.367                    |                           |         |
| 9,300.00  | 5,545.66                   | 5,400.00                   | 5,233.99                   | 93.34                 | 24.81              | 56.87                        | 2,229.17          | -3,575.44         | 572.08                      | 482.82                       | 89.26                          | 6.409                    |                           |         |
| 9,400.00  | 5,545.23                   | 5,428.63                   | 5,257.97                   | 95.77                 | 24.81              | 59.66                        | 2,240.23          | -3,586.51         | 546.64                      | 449.46                       | 97.18                          | 5.625                    |                           |         |
| 9,500.00  | 5,544.81                   | 5,450.00                   | 5,275.34                   | 98.20                 | 24.81              | 61.74                        | 2,249.03          | -3,595.30         | 537.37                      | 433.57                       | 103.79                         | 5.177                    |                           |         |
| 9,504.42  | 5,544.79                   | 5,450.00                   | 5,275.34                   | 98.31                 | 24.81              | 61.74                        | 2,249.03          | -3,595.30         | 537.35                      | 433.37                       | 103.97                         | 5.168 CC, ES             |                           |         |
| 9,600.00  | 5,544.39                   | 5,477.15                   | 5,296.72                   | 100.64                | 24.80              | 64.34                        | 2,260.86          | -3,607.14         | 544.66                      | 435.39                       | 109.27                         | 4.984 SF                 |                           |         |
| 9,700.00  | 5,543.97                   | 5,500.00                   | 5,314.08                   | 103.08                | 24.79              | 66.49                        | 2,271.36          | -3,617.64         | 567.62                      | 455.28                       | 112.34                         | 5.053                    |                           |         |
| 9,800.00  | 5,543.54                   | 5,538.43                   | 5,341.90                   | 105.53                | 24.76              | 69.95                        | 2,290.10          | -3,636.37         | 603.92                      | 489.21                       | 114.70                         | 5.265                    |                           |         |
| 9,900.00  | 5,543.12                   | 5,574.99                   | 5,366.67                   | 107.98                | 24.73              | 73.02                        | 2,309.11          | -3,655.38         | 651.03                      | 535.67                       | 115.36                         | 5.644                    |                           |         |
| 10,000.00   | 5,542.70                   | 5,616.13                   | 5,392.42                   | 110.44                | 24.69              | 76.16                        | 2,331.79          | -3,678.07         | 706.27                      | 590.86                       | 115.41                         | 6.120                    |                           |         |
| 10,100.00   | 5,542.27                   | 5,662.27                   | 5,418.47                   | 112.90                | 24.64              | 79.23                        | 2,358.70          | -3,704.98         | 767.38                      | 652.02                       | 115.37                         | 6.652                    |                           |         |
| 10,200.00   | 5,541.85                   | 5,718.59                   | 5,446.96                   | 115.36                | 24.57              | 82.41                        | 2,393.06          | -3,739.33         | 832.43                      | 716.53                       | 115.90                         | 7.182                    |                           |         |
| 10,300.00   | 5,541.43                   | 5,776.28                   | 5,474.97                   | 117.83                | 24.50              | 85.27                        | 2,428.71          | -3,774.99         | 899.89                      | 783.41                       | 116.48                         | 7.726                    |                           |         |
| 10,400.00   | 5,541.01                   | 5,836.34                   | 5,499.08                   | 120.30                | 24.43              | 87.53                        | 2,467.58          | -3,813.86         | 969.21                      | 851.85                       | 117.37                         | 8.258                    |                           |         |
| 10,500.00   | 5,540.58                   | 5,901.64                   | 5,518.62                   | 122.77                | 24.34              | 89.22                        | 2,511.61          | -3,857.89         | 1,039.55                    | 920.71                       | 118.84                         | 8.748                    |                           |         |
| 10,600.00   | 5,540.16                   | 5,971.00                   | 5,531.47                   | 125.25                | 24.25              | 90.22                        | 2,559.79          | -3,906.07         | 1,110.28                    | 989.45                       | 120.83                         | 9.189                    |                           |         |
| 10,700.00   | 5,539.74                   | 6,042.62                   | 5,536.01                   | 127.73                | 24.17              | 90.53                        | 2,610.29          | -3,956.57         | 1,181.06                    | 1,057.92                     | 123.14                         | 9.591                    |                           |         |
| 10,800.00   | 5,539.31                   | 6,113.30                   | 5,536.35                   | 130.21                | 24.11              | 90.54                        | 2,660.26          | -4,006.55         | 1,251.80                    | 1,126.25                     | 125.55                         | 9.970                    |                           |         |
| 10,900.00   | 5,538.89                   | 6,183.97                   | 5,536.70                   | 132.69                | 24.36              | 90.54                        | 2,710.24          | -4,056.52         | 1,322.55                    | 1,194.53                     | 128.02                         | 10.331                   |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

|   |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              |                           |         |
|---|------------------------------------|------------------------------------|------------------------------------|---------------------------|------------------------|--------------------------------------|-------------------------------|-----------------------|-------------------------------------|--------------------------------------|--|------------------------------|---------------------------|---------|
| <b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1 |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              | <b>Offset Site Error:</b> | 0.00 ft |
| <b>Survey Program:</b> 0-MWD  |                                    |                                    |                                    |                           |                        |                                      |                               |                       |                                     |                                      |  |                              | <b>Offset Well Error:</b> | 0.00 ft |
| <b>Reference</b>  |                                    | <b>Offset</b>                      |                                    | <b>Semi Major Axis</b>    |                        | <b>Highside<br/>Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                       | <b>Distance</b>                     |                                      | <b>Minimum<br/>Separation<br/>(ft)</b> | <b>Separation<br/>Factor</b> | <b>Warning</b>            |         |
| <b>Measured<br/>Depth<br/>(ft)</b>  | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Measured<br/>Depth<br/>(ft)</b> | <b>Vertical<br/>Depth<br/>(ft)</b> | <b>Reference<br/>(ft)</b> | <b>Offset<br/>(ft)</b> |                                      | <b>+N/-S<br/>(ft)</b>         | <b>+E/-W<br/>(ft)</b> | <b>Between<br/>Centres<br/>(ft)</b> | <b>Between<br/>Ellipses<br/>(ft)</b> |  |                              |                           |         |
| 9,800.00  | 5,543.54                           | 5,525.80                           | 5,085.06                           | 105.53                    | 39.61                  | 51.68                                | 2,330.20                      | -5,004.45             | 1,320.01                            | 1,244.20                             | 75.82                                  | 17.410                       |                           |         |
| 9,900.00  | 5,543.12                           | 5,550.00                           | 5,106.42                           | 107.98                    | 39.83                  | 52.89                                | 2,326.68                      | -5,015.27             | 1,236.63                            | 1,157.86                             | 78.76                                  | 15.700                       |                           |         |
| 10,000.00   | 5,542.70                           | 5,550.00                           | 5,106.42                           | 110.44                    | 39.83                  | 52.89                                | 2,326.68                      | -5,015.27             | 1,155.09                            | 1,072.60                             | 82.49                                  | 14.003                       |                           |         |
| 10,100.00   | 5,542.27                           | 5,572.19                           | 5,125.80                           | 112.90                    | 40.04                  | 54.06                                | 2,324.13                      | -5,025.75             | 1,076.03                            | 989.37                               | 86.66                                  | 12.417                       |                           |         |
| 10,200.00   | 5,541.85                           | 5,600.00                           | 5,149.79                           | 115.36                    | 40.31                  | 55.63                                | 2,321.83                      | -5,039.63             | 1,000.07                            | 908.52                               | 91.55                                  | 10.924                       |                           |         |
| 10,300.00   | 5,541.43                           | 5,600.00                           | 5,149.79                           | 117.83                    | 40.31                  | 55.63                                | 2,321.83                      | -5,039.63             | 927.51                              | 829.94                               | 97.57                                  | 9.506                        |                           |         |
| 10,400.00   | 5,541.01                           | 5,630.53                           | 5,175.66                           | 120.30                    | 40.62                  | 57.46                                | 2,320.49                      | -5,055.78             | 859.13                              | 754.80                               | 104.33                                 | 8.234                        |                           |         |
| 10,500.00   | 5,540.58                           | 5,650.00                           | 5,191.88                           | 122.77                    | 40.81                  | 58.68                                | 2,320.28                      | -5,066.55             | 796.15                              | 683.89                               | 112.26                                 | 7.092                        |                           |         |
| 10,600.00   | 5,540.16                           | 5,677.78                           | 5,214.59                           | 125.25                    | 41.10                  | 60.49                                | 2,320.85                      | -5,082.53             | 739.51                              | 618.26                               | 121.25                                 | 6.099                        |                           |         |
| 10,700.00   | 5,539.74                           | 5,700.00                           | 5,232.36                           | 127.73                    | 41.33                  | 61.98                                | 2,322.04                      | -5,095.82             | 690.64                              | 559.53                               | 131.11                                 | 5.268                        |                           |         |
| 10,800.00   | 5,539.31                           | 5,732.97                           | 5,258.03                           | 130.21                    | 41.69                  | 64.24                                | 2,325.00                      | -5,116.29             | 650.89                              | 509.26                               | 141.63                                 | 4.596                        |                           |         |
| 10,900.00   | 5,538.89                           | 5,763.83                           | 5,281.23                           | 132.69                    | 42.02                  | 66.40                                | 2,329.06                      | -5,136.23             | 621.78                              | 469.94                               | 151.85                                 | 4.095                        |                           |         |
| 11,000.00   | 5,538.47                           | 5,800.00                           | 5,307.30                           | 135.18                    | 42.42                  | 68.93                                | 2,335.38                      | -5,160.47             | 604.48                              | 443.49                               | 160.99                                 | 3.755                        |                           |         |
| 11,088.97   | 5,538.09                           | 5,828.40                           | 5,326.87                           | 137.39                    | 42.73                  | 70.89                                | 2,341.53                      | -5,180.12             | 599.51                              | 432.64                               | 166.87                                 | 3.593 CC                     |                           |         |
| 11,100.00   | 5,538.05                           | 5,832.42                           | 5,329.57                           | 137.67                    | 42.78                  | 71.17                                | 2,342.48                      | -5,182.94             | 599.58                              | 432.12                               | 167.47                                 | 3.580 ES                     |                           |         |
| 11,200.00   | 5,537.62                           | 5,870.11                           | 5,354.05                           | 140.16                    | 43.20                  | 73.69                                | 2,352.38                      | -5,209.81             | 607.04                              | 435.71                               | 171.33                                 | 3.543 SF                     |                           |         |
| 11,300.00   | 5,537.20                           | 5,900.00                           | 5,372.32                           | 142.65                    | 43.53                  | 75.60                                | 2,361.48                      | -5,231.65             | 626.18                              | 454.83                               | 171.35                                 | 3.654                        |                           |         |
| 11,347.47   | 5,537.00                           | 5,929.46                           | 5,389.30                           | 143.83                    | 43.87                  | 77.39                                | 2,371.49                      | -5,253.55             | 638.71                              | 466.28                               | 172.44                                 | 3.704                        |                           |         |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

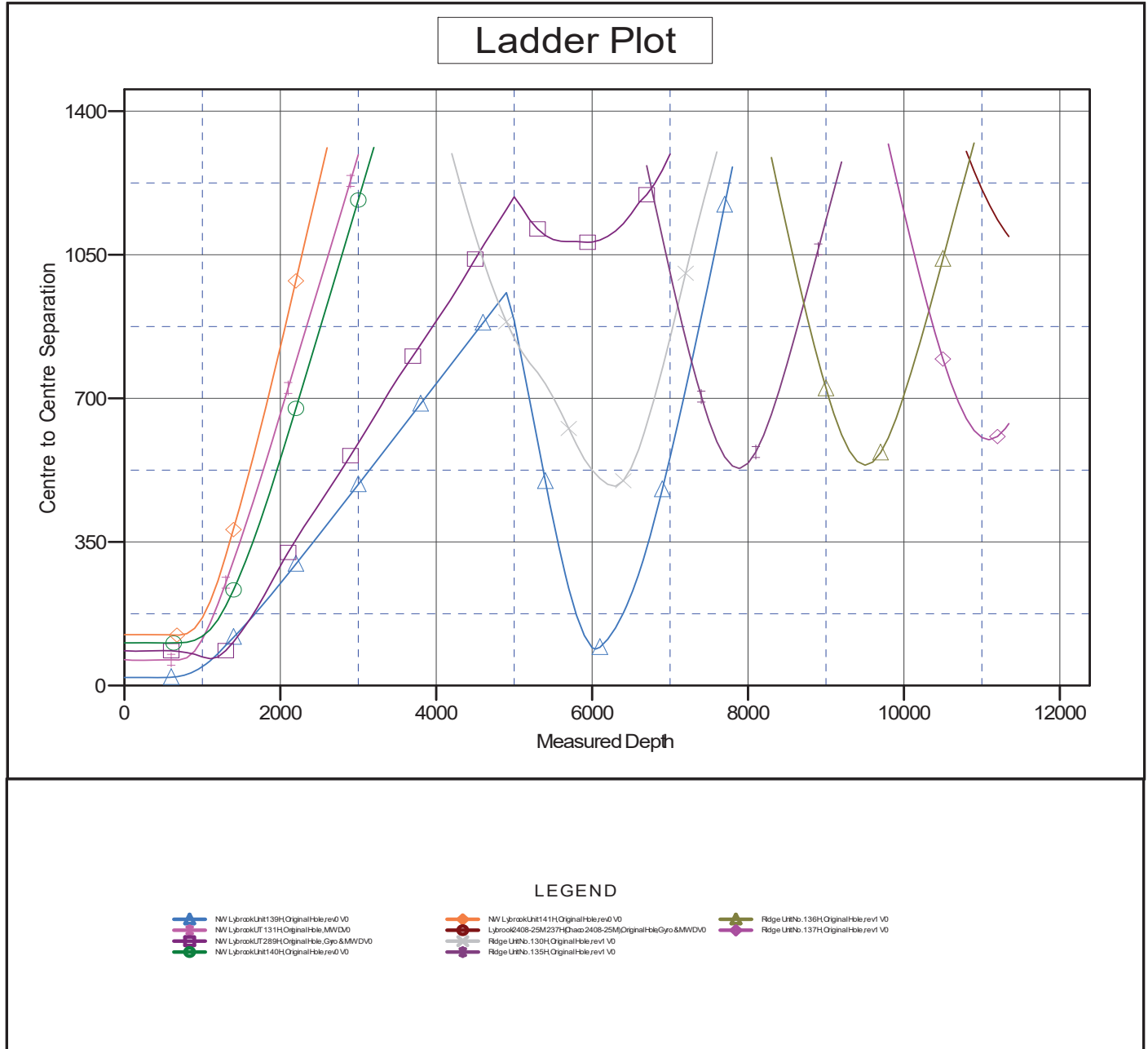


## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

Reference Depths are relative to RKB=6847+25 @ 6872.00ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.833333333

Coordinates are relative to: Lybrook 2408-26 Federal COM 138H  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: 0.11°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report

|                           |  |                                     |                                       |
|---------------------------|--|-------------------------------------|---------------------------------------|
| <b>Company:</b>           | Enduring Resources LLC                 | <b>Local Co-ordinate Reference:</b> | Well Lybrook 2408-26 Federal COM 138H |
| <b>Project:</b>           | San Juan County, New Mexico NAD83 NM W | <b>TVD Reference:</b>               | RKB=6847+25 @ 6872.00ft               |
| <b>Reference Site:</b>    | NW Lybrook (138, 139, 140 & 141)       | <b>MD Reference:</b>                | RKB=6847+25 @ 6872.00ft               |
| <b>Site Error:</b>        | 0.00 ft                                | <b>North Reference:</b>             | Grid                                  |
| <b>Reference Well:</b>    | Lybrook 2408-26 Federal COM 138H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Well Error:</b>        | 0.00 ft                                | <b>Output errors are at</b>         | 2.00 sigma                            |
| <b>Reference Wellbore</b> | Original Hole                          | <b>Database:</b>                    | DT_Aug2923v16                         |
| <b>Reference Design:</b>  | rev0                                   | <b>Offset TVD Reference:</b>        | Offset Datum                          |

Reference Depths are relative to RKB=6847+25 @ 6872.00ft

Offset Depths are relative to Offset Datum

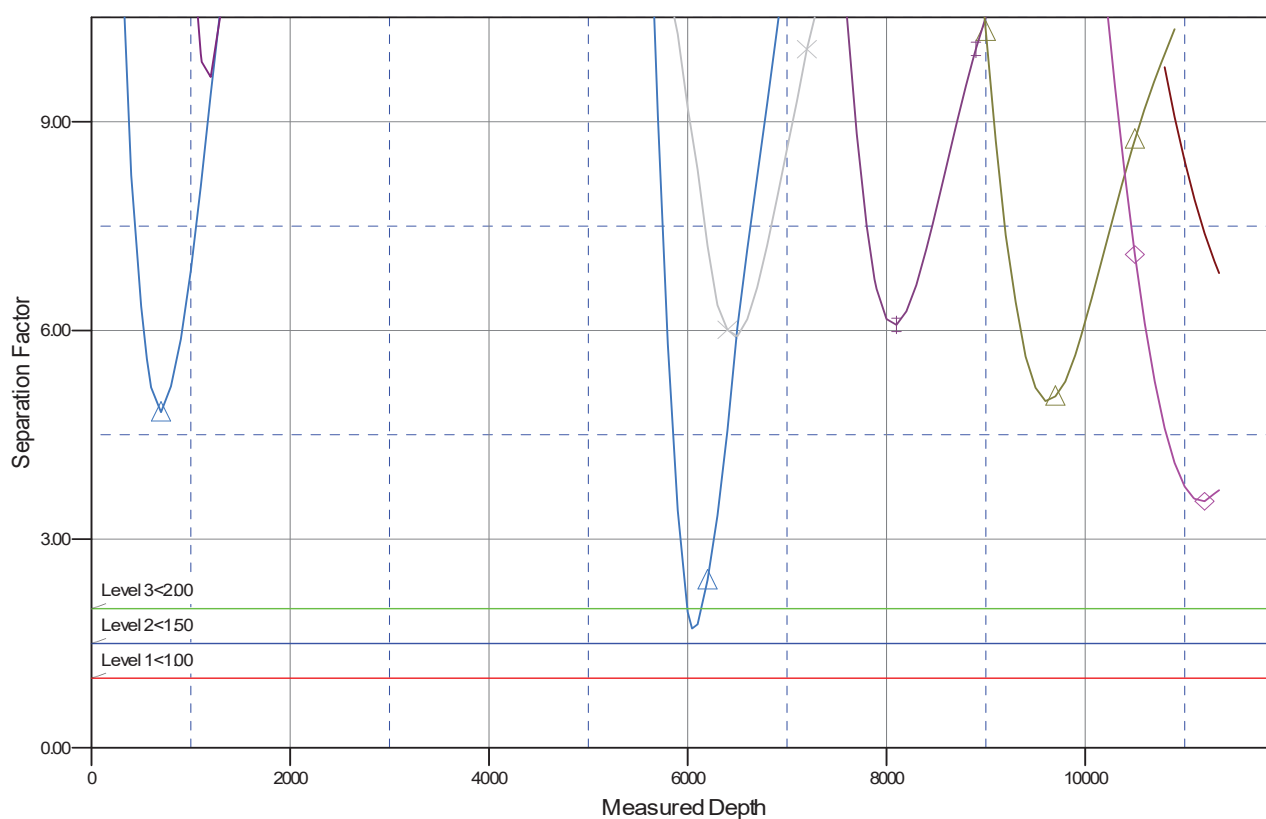
Central Meridian is -107.833333333

Coordinates are relative to: Lybrook 2408-26 Federal COM 138H

Coordinate System is US State Plane 1983, New Mexico Western Zone

Grid Convergence at Surface is: 0.11°

## Separation Factor Plot



## LEGEND

|   |   |                                       |
|---|---|---------------------------------------|
| NW Lybrook Unit 139H Original Hole rev0 V0      | NW Lybrook Unit 141H Original Hole rev0 V0                      | Ridge Unit 136H Original Hole rev0 V0 |
| NW Lybrook Unit 131H Original Hole MWD V0       | Lybrook 2408-26 M237H Chao 2408-26 M Original Hole Gyo & MWD V0 | Ridge Unit 137H Original Hole rev0 V0 |
| NW Lybrook Unit 289H Original Hole Gyo & MWD V0 | Ridge Unit 130H Original Hole rev0 V0                           |                                       |
| NW Lybrook Unit 140H Original Hole rev0 V0      | Ridge Unit 135H Original Hole rev0 V0                           |                                       |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
Farmington District Office  
6251 College Blvd, Suite A  
Farmington, New Mexico 87402



In Reply Refer To:  
3162.3-1(NMF0110)

\* ENDURING RESOURCES LLC  
#138H LYBROOK 2408-26 FEDERAL COM  
Lease: NOG10081774 Agreement:  
SH: SW $\frac{1}{4}$ SW $\frac{1}{4}$  Section 25, T. 24N., R. 8W.  
San Juan County, New Mexico  
BH: NW $\frac{1}{4}$ SW $\frac{1}{4}$  Section 26, T. 24N., R. 8W.  
San Juan County, New Mexico  
**\*Above Data Required on Well Sign**

## GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

- A. ☒ Note all surface/drilling conditions of approval attached.
- B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
- C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.
- D. ☒ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.  
The effective date of the agreement must be **prior** to any sales.
- E. ☐ The use of co-flex hose is authorized contingent upon the following:
  1. From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
  2. From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
  3. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

## **I. GENERAL**

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**
- K. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

- L. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- M. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- N. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office. (See 43 CFR 3173.14).

## **II. REPORTING REQUIREMENTS**

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed.
  - 1. Provide complete information concerning.
    - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
    - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
    - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
  - 2. Well Completion Report will be submitted with 30 days after well has been completed.
    - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
  - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5<sup>th</sup> business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

### **III. DRILLER'S LOG**

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results, 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results, and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

### **IV. GAS FLARING**

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of \*  Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever occurs first, without the prior written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*\*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.*

### **V. SAFETY**

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

### **VI. CHANGE OF PLANS OR ABANDONMENT**

- A. Any changes of plans required to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.F.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.F. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 412583

CONDITIONS

|   |   |
|---|---|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way<br>Centennial, CO 80111 | OGRID:<br>372286  |
|   | Action Number:<br>412583  |
|   | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By  | Condition   | Condition Date |
|-------------|---|----------------|
| sford       | Cement is required to circulate on both surface and intermediate1 strings of casing.  | 12/16/2024     |
| sford       | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.  | 12/16/2024     |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement.   | 1/12/2025      |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet.  | 1/12/2025      |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. | 1/12/2025      |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.                  | 1/12/2025      |