Form 3160-3 FORM APPROVED OMB No. 1004-0137 (October 2024) Expires: October 31, 2027 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13. State 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 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 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 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 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 APPROVED WITH CONDITIONS

(Continued on page 2)

\*(Instructions on page 2)

## **Additional Operator Remarks**

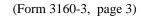
## **Location of Well**

0. SHL: NENW / 196 FNL / 1853 FWL / TWSP: 23N / RANGE: 9W / SECTION: 28 / LAT: 36.204619 / LONG: -107.796783 ( TVD: 0 feet, MD: 0 feet )
PPP: NENW / 295 FNL / 1844 FWL / TWSP: 23N / RANGE: 9W / SECTION: 28 / LAT: 36.204348 / LONG: -107.796812 ( TVD: 4314 feet, MD: 4420 feet )
PPP: NWSW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.204348 / LONG: -107.796812 ( TVD: 4415 feet, MD: 13551 feet )
PPP: NWNE / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 28 / LAT: 36.204348 / LONG: -107.796812 ( TVD: 4415 feet, MD: 13551 feet )
PPP: NENW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 34 / LAT: 36.204348 / LONG: -107.796812 ( TVD: 4415 feet, MD: 13551 feet )
BHL: SWNE / 1387 FNL / 2355 FEL / TWSP: 23N / RANGE: 9W / SECTION: 34 / LAT: 36.186903 / LONG: -107.77531 ( TVD: 4415 feet, MD: 13551 feet )

#### **BLM Point of Contact**

Name: CHRISTOPHER P WENMAN Title: Natural Resource Specialist

Phone: (505) 564-7727 Email: cwenman@blm.gov



C - 102Submit Electronically Via OCD Permitting

## State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

|                   | Revised July 9, 2024 |  |  |  |  |
|-------------------|----------------------|--|--|--|--|
| 0 1 11 1          | ⊠ Initial Submittal  |  |  |  |  |
| Submittal<br>Type | ☐ Amended Report     |  |  |  |  |
| . , po            | ☐ As Drilled         |  |  |  |  |

|                                |                  |                      |                     |               | WELL                                      | LOCATION   | INFORM      | ATION                 |            | ·                       |         |                    |
|--------------------------------|------------------|----------------------|---------------------|---------------|---|--|-------------|-----------------------|------------|-------------------------|---------|--------------------|
| API Nu                         |                  | 45-38                | 506                 | P001          | Code 981                                  | 57   |             | Pool Name             |            | LYBROOK MANC            | OS W    |                    |
| Propert                        | ty Code          | 332891               |                     | Prope         | erty Name                                 | GREATER LYE  | BROOK UNI   | IT                    |            | Well Number 036H        |         |                    |
| OGRID No. 372286 Operator Name |                  |                      |                     |               |   | NDURING RES  | OURCES, I   | LLC                   |            | Ground Level Elevatio   | in 65   | 529 '              |
| Surface                        | e Owner:         | ☐ State              | ☐ Fee ☐             | Tribal        | ⊠ Federal                                 |  | Mineral Owr | ner: 🗆 State 🗆 Fee    |            | Tribal ⊠ Federal        |         |                    |
|                                | Surface Location |                      |                     |               |   |  |             |                       |            |                         |         |                    |
| UL<br>C                        | Section<br>28    | Township<br>23N      | Range<br>9W         | Lot           | Feet from N/S Line<br>196' NORTH          | Feet from E/W L<br>1853'   | ine<br>WEST | Latitude<br>36.204619 | °N         | Longitude<br>-107.79678 | 33 °W   | County<br>SAN JUAN |
|                                |                  |                      |                     |               |   | Bottom Hole  | Locatio     | n                     |            |                         |         |                    |
| UL<br>G                        | Section<br>34    | Township<br>23N      | Range<br>9W         | Lot           | Feet from N/S Line<br>1387' NORTH         | Feet from E/W L<br>2355'   | ine<br>EAST | Latitude<br>36.186903 | °N         | Longitude<br>-107.7753: | 10 °W   | County<br>SAN JUAN |
|                                |                  |                      |                     |               |   |  |             |                       |            |                         |         |                    |
| Dedica                         |                  |                      | Penetrated          | Spacing       | Unit                                      | Infill or Defin  | ing Well    | Defining Well API     | Over       | lapping Spacing Unit    | Consoli | dation Code        |
| 640.                           | .00 W/<br>.N     | E/2 NW,<br>'2 SE/4   | /4, W/2<br>. SE/4 S | NE/4,<br>SE/4 | - Section 27<br>SE/4 NE/4<br>- Section 28 |  |             |                       |            | Yes □ No                | ι       | JNIT               |
| ١                              | N/2 NW,          | /4, SÉ/4             | 4 NW/4,             | E/2 N         | NE/4 – Section 34                         | Order Numbers R−22081 Well setbacks are under Common Ownership ▼ Y |             |                       | X Yes 🗌 No |                         |         |                    |
|                                |                  |                      |                     |               |   | Kick Off Po  | int (KOF    | P)                    |            |                         |         |                    |
| UL                             | Section          | Township             | _                   | .ot           | Feet from N/S Line                        | Feet from E/W L  |             | Latitude              |            | Longitude               |         | County             |
| С                              | 28               | 23N                  | 9W                  |               | 196' NORTH                                | 1853 '   | WEST        | 36.204619             | *N         | -107.79678              | 33 W    | SAN JUAN           |
|                                |                  |                      |                     |               | F   | irst Take P  | oint (F1    | P)                    |            |                         |         |                    |
| UL                             | Section          | Township             | Range L             | .ot           | Feet from N/S Line                        | Feet from E/W L  | .ine        | Latitude              |            | Longitude               |         | County             |
| C                              | 28               | 23N                  | 9W                  |               | 295' NORTH                                | 1844 '   | WEST        | 36.204348             | °N         | -107.79681              | 12 °W   | SAN JUAN           |
|                                |                  |                      |                     |               | L   | .ast Take Po   | oint (LT    | P)                    |            |                         |         |                    |
| UL                             | Section          | 24N                  | Range (             | _ot           | Feet from N/S Line                        | Feet from E/W L  | .ine        | Latitude              |            | Longitude               |         | County             |
| G                              | 34               | 23N                  | 9W                  |               | 1387' NORTH                               | 2355 '   | EAST        | 36.186903             | °N         | -107.7753:              | 10 °W   | SAN JUAN           |
|                                |                  |                      |                     |               |   |  | ,           |                       |            |                         |         |                    |
|                                |                  | Area of Un<br>LYBROC | iform Intere        | st .          | Spacing Unit Type                         | rizontal   |             |                       |            |                         |         |                    |
|                                |                  |                      |                     |               |   |  |             |                       |            |                         |         |                    |
|                                |                  |                      |                     |               |   |  |             |                       |            |                         |         |                    |

#### OPERATOR CERTIFICATION

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.

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.

Shaw-Marie Ford 10/23/2025

Shaw-Marie Ford

sford@enduringresources.com

E-mail Address

## SURVEYOR CERTIFICATION

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



JASON LDWARDS

Signature and Seal of Professional Surveyor

Certificate Number

15269

Date of Survey

APRIL 30, 2024

SURFACE LOCATION (SHL) 196' FNL 1853' FWL SEC 28, T23N, R9W

LAT 36.204619 °N LONG -107.796783 °W DATUM: NAD1983 KICK OFF POINT (KOP) 196' FNL 1853' FWL SEC 28, T23N, R9W

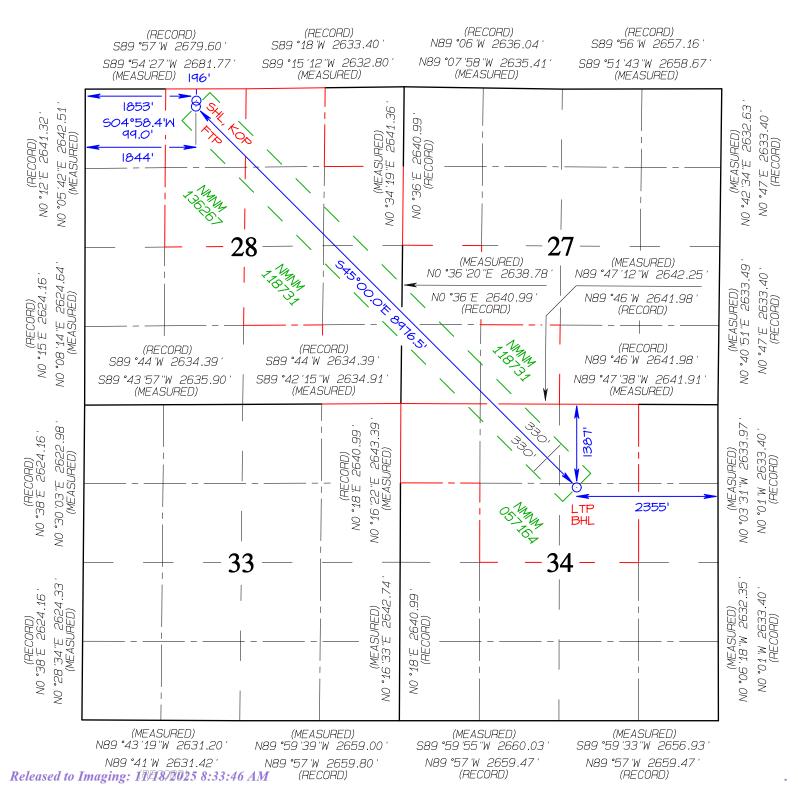
LAT 36.204619 °N LONG -107.796783 °W DATUM: NAD1983

FIRST TAKE POINT(FTP) 295' FNL 1844' FWL SEC 28, T23N, R9W

LAT 36.204348°N LONG -107.796812°W DATUM: NAD1983 LAST TAKE POINT(LTP) 1387' FNL 2355' FEL SEC 34, T23N, R9W

LAT 36.186903 °N LONG -107.775310 °W DATUM: NAD1983 BOTTOM HOLE LOCATION (BHL) 1387' FNL 2355' FEL SEC 34, T23N, R9W

> LAT 36.186903 °N LONG -107.775310 °W DATUM: NAD1983



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 <u>Effective May 25, 2021</u>

| <b>I. Operator:</b> Enduring Res                                      | ources, l | LLC              | OGRID:372286          |                          | <b>Date:</b> _07_        | /_19_/_2025_                     |
|---|-----------|------------------|-----------------------|--------------------------|--------------------------|----------------------------------|
| II. Type: ⊠ Original □ Amo  | endment   | due to □ 19.15.2 | 7.9.D(6)(a) NMAC □ 19 | .15.27.9.D(6)(b) N       | MAC □ Other.             |                                  |
| If Other, please describe:  |           |                  |                       |                          |                          |                                  |
| <b>III.</b> Well(s): Provide the follo be recompleted from a single v |           |                  |                       | l or set of wells pr     | roposed to be dril       | led or proposed to               |
| Well Name   | API       | ULSTR            | Footages              | Anticipated<br>Oil BBL/D | Anticipated<br>Gas MCF/D | Anticipated Produced Water BBL/D |
| Greater Lybrook Unit 036H   | TBD       | C-28-23N-9W      | 196 FNL x 1853 FWL    | 294                      | 294                      | 118                              |
| Greater Lybrook Unit 037H   | TBD       | C-28-23N-9W      | 196 FNL x 1873 FWL    | 336                      | 336                      | 135                              |
| Greater Lybrook Unit 038H   | TBD       | C-28-23N-9W      | 196 FNL x 1893 FWL    | 252                      | 252                      | 101                              |
| Greater Lybrook Unit 039H   | TBD       | C-28-23N-9W      | 196 FNL x 1913 FWL    | 378                      | 378                      | 151                              |
|   |           |                  |                       | 3-year Decline           | 3-year Decline           | 3-year Decline                   |
| Greater Lybrook Unit 036H   | TBD       | C-28-23N-9W      | 196 FNL x 1853 FWL    | 112                      | 112                      | 45                               |
| Greater Lybrook Unit 037H   | TBD       | C-28-23N-9W      | 196 FNL x 1873 FWL    | 128                      | 128                      | 51                               |
| Greater Lybrook Unit 038H   | TBD       | C-28-23N-9W      | 196 FNL x 1893 FWL    | 96                       | 96                       | 38                               |
| Greater Lybrook Unit 039H   | TBD       | C-28-23N-9W      | 196 FNL x 1913 FWL    | 144                      | 144                      | 58                               |
|   |           |                  |                       |                          |                          |                                  |

**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.

IV. Central Delivery Point Name: Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]

| Well Name                 | API | Spud Date | TD Reached | Completion        | Initial Flow | First Production |
|---------------------------|-----|-----------|------------|-------------------|--------------|------------------|
|                           |     |           | Date       | Commencement Date | Back Date    | Date             |
|                           |     |           |            |                   |              |                  |
| Greater Lybrook Unit 059H | TBD | Q4 2025   | Q4 2025    | Q4 2025           | Q4 2025      | Q4 2025          |
| Greater Lybrook Unit 061H | TBD | Q4 2025   | Q4 2025    | Q4 2025           | Q4 2025      | Q4 2025          |
| Greater Lybrook Unit 063H | TBD | Q4 2025   | Q4 2025    | Q4 2025           | Q4 2025      | Q4 2025          |
| Greater Lybrook Unit 071H | TBD | Q4 2025   | Q4 2025    | Q4 2025           | Q4 2025      | Q4 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.

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## 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

**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

into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**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;

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

- **(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: 7/19/2025                                       |
| Phone: 505-716-3297                                   |
| OIL CONSERVATION DIVISION                             |
| (Only applicable when submitted as a standalone form) |
| Approved By:  |
| Title:  |
| Approval Date:  |
| Conditions of Approval:                               |
|   |
|   |
|   |
|   |



## 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:

- o Individual 3 phase separator will be set for the individual well.
- o 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.
- o The 3 phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

## Heater treaters will be set as follows:

- o Individual heater treaters will be set for the individual well.
- o 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.
- o The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

## Vapor Recovery Equipment will be set as follows:

- o 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.



#### **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:

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



#### **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

- o 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.
- o 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:

- o Enduring facilities are built and ready from day 1 of Flowback.
- o 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.
- O 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 tall 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-bours
  - 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.



#### 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, COLORADO 80211

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

**WELL INFORMATION:** 

Name: Greater Lybrook Unit 036H

API Number: TBD
AFE Number: TBD
ER Well Number: TBD

State: New Mexico
County: San Juan

Surface Elevation: 6,529 ft ASL (GL) 6,553 ft ASL (KB)

Surface Location: 28-23-9 Sec-Twn-Rng 196 ft FNL 1,853 ft FWL

36.204619 ° N latitude 107.796783 ° W longitude (NAD 83) **BH Location:** 34-23-9 Sec-Twn-Rng 1,387 ft FNL 2,355 ft FEL

36.186903 ° N latitude 107.77531 ° W longitude (NAD 83)

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

South on US Hwy 550 for 38.3 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way; Left (Southeast) remaining on CR #7890 for 0.6 miles to T; Right (SouthWest) on CR #7890 for 0.6 miles to fork; Right (West) on access road for 0.6 miles to fork; Left/Straight (West) for 3.1 miles to Greater Lybrook Unit 772H PAD. There are 5 existing wells on this location and 4 new wells staked on the

west side of the pad, from West to East: Greater Lybrook Unit 036H, 037H, 038H, 039H

#### **GEOLOGIC AND RESERVOIR INFORMATION:**

#### Prognosis:

| Formation Tops  | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O/G/W | Pressure    |
|-----------------|--------------|-------------|------------|-------|-------------|
| Ojo Alamo       | 6,478        | 75          | 75         | W     | normal      |
| Kirtland        | 6,395        | 158         | 158        | W     | normal      |
| Fruitland       | 6,160        | 393         | 393        | G, W  | sub         |
| Pictured Cliffs | 5,770        | 783         | 783        | G, W  | sub         |
| Lewis           | 5,605        | 948         | 948        | G, W  | normal      |
| Chacra          | 5,415        | 1,138       | 1,138      | G, W  | normal      |
| Cliff House     | 4,409        | 2,144       | 2,158      | G, W  | sub         |
| Menefee         | 4,394        | 2,159       | 2,173      | G, W  | normal      |
| Point Lookout   | 3,369        | 3,184       | 3,210      | G, W  | normal      |
| Mancos          | 3,204        | 3,349       | 3,375      | O,G   | sub (~0.38) |
| Gallup (MNCS_A) | 2,872        | 3,681       | 3,707      | O,G   | sub (~0.38) |
| MNCS_B          | 2,773        | 3,780       | 3,806      | O,G   | sub (~0.38) |
| MNCS_C          | 2,682        | 3,871       | 3,897      | O,G   | sub (~0.38) |
| MNCS_Cms        | 2,642        | 3,911       | 3,937      | O,G   | sub (~0.38) |
| MNCS_D          | 2,513        | 4,040       | 4,070      | O,G   | sub (~0.38) |
| MNCS_E          | 2,362        | 4,191       | 4,242      | O,G   | sub (~0.38) |
| MNCS_F          | 2,311        | 4,242       | 4,310      | O,G   | sub (~0.38) |
| MNCS_G          | 2,239        | 4,314       | 4,420      | O,G   | sub (~0.38) |
| MNCS_H          | 2,200        | 4,353       | 4,497      | O,G   | sub (~0.38) |
| MNCS_I          | 2,157        | 4,396       | 4,615      | O,G   | sub (~0.38) |
| FTP TARGET      | 2,239        | 4,314       | 4,420      | O,G   | sub (~0.38) |
| PROJECTED TD    | 2,208        | 4,345       | 13,551     | O,G   | sub (~0.38) |

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/ftEvacuated hole gradient:0.22 psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:1,870 psiMaximum anticipated surface pressure, assuming partially evacuated hole:920 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 7" casing to TD; gas detection from drillout of 9-5/8" casing to

TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" casing to TD

Open Hole Logs: None planned Testing: None planned Coring: None planned

Cased Hole Logs: CBL on 7" casing from deepest free-fall depth to surface

#### **DRILLING RIG INFORMATION:**

Contractor: Ensign Rig No.: 140

Draw Works: Pacific Rim 1500AC (1,500 hp)

Mast: Process MFG Corp Swing Up Triple (136 ft, 750,000 lbs)

**Top Drive:** Tesco 400-EXI-600 (400 ton) **Prime Movers:** 3 - CAT 3512C (1,350 hp)

Pumps: 2 - Gardner Denver PZ-11 (7,500 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (11", 5,000 psi)

BOPE 2: T3 annular(11", 5,000 psi)

**Choke** 3", 5,000 psi **KB-GL (ft):** 23.5

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

#### **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 the 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 minimimize 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 and attached Newpark mud program for additional details.

#### **DETAILED DRILLING PLAN:**

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

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

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

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

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor MWD / Survey: No MWD, deviation survey

Logging: None

Tens. Body Tens. Conn Collapse (psi) Casing Specs: Wt (lb/ft) Grade Conn. Burst (psi) (lbs) (lbs) 9.625 36.0 K-55 STC 2,020 3,520 564,000 423,000 Specs Loading 153 947 110,988 110,988 Min. S.F. 13.21 3.72 5.08 3.81

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

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

intermediate hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): 3,400 Optimum: 4,530 Maximum: 5,660 Minumum:

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

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

|          |           |              | Yield     | Water    | Hole Cap. |          | Planned TOC | Total Cmt | Total Cmt (cu |
|----------|-----------|--------------|-----------|----------|-----------|----------|-------------|-----------|---------------|
| Cement:  | Type      | Weight (ppg) | (cuft/sk) | (gal/sk) | (cuft/ft) | % Excess | (ft MD)     | (sx)      | ft)           |
| Redi-Mix | TYPE I-II | 14.5         | 1.61      | 7.41     | 0.3132    | 50%      | 0           | 114       | 184           |

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

Csg ID

8.921

Mesa Ready Mix or first available

Shoe Track L

44

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

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

| 350 ft (MD)  | to | 4,720 ft (MD)  | Hole Section Length: | 4,370 ft |
|--------------|----|----------------|----------------------|----------|
| 350 ft (TVD) | to | 4,415 ft (TVD) | Casing Required:     | 4,720 ft |

|        |            |           | FL          |         | ΥP            |             |          |
|--------|------------|-----------|-------------|---------|---------------|-------------|----------|
| Fluid: | Type       | MW (ppg)  | (mL/30 min) | PV (cp) | (lb/100 sqft) | рН          | Comments |
|        | LSND (KCI) | 8.8 - 9.2 | 15          | 8 - 14  | 6 - 12        | 10.8 - 11.2 | No OBM   |

Hole Size (inches): 8.75

Bit / Motor: 8-3/4" PDC bit w/mud motor

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

Logging: None

**Pressure Test:** NU BOPE and test (as noted above); pressure test 13-3/8" casing to 1,500 psi for 30 minutes.

| Casing Specs: |   | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body<br>(lbs) | Tens. Conn<br>(lbs) |
|---------------|---|------------|-------|-------|----------------|-------------|---------------------|---------------------|
| Specs         | 7 | 26.0       | K-55  | LTC   | 4,320          | 4,980       | 415,000             | 367,000             |
| Loading       |   |            |       |       | 1,928          | 1,173       | 207,018             | 207,018             |
| Min. S.F.     |   |            |       |       | 2.24           | 4.25        | 2.00                | 1.77                |

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

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

hole and 8.4 ppg equivalent external pressure gradient

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

MU Torque (ft lbs): Minumum: 3,400 Optimum: 4,530 Maximum: 5,660

Centralizers: 1 per joint in non-vertical hole; 1 per 2-joints in vertical hole

|         |               |              | Yield     | Water    |          | Planned TOC | Total Cmt | Total Cmt (cu |
|---------|---------------|--------------|-----------|----------|----------|-------------|-----------|---------------|
| Cement: | Type          | Weight (ppg) | (cuft/sk) | (gal/sk) | % Excess | (ft MD)     | (sx)      | ft)           |
| Lead    | III:POZ Blend | 12.5         | 2.150     | 12.06    | 80%      | 0           | 395       | 850           |
| Tail    | Type III      | 13.5         | 1.710     | 8.88     | 30%      | 3,275       | 171       | 292           |

Annular Capacity

 Type III
 15.3
 1.710
 6.88
 50%
 5,273
 171
 292

 0.16681
 cuft/ft
 7" casing x 9-5/8" casing annulus
 Shoe Track L
 44

 0.1503
 cuft/ft
 9-5/8" casing x 12-1/4" hole annulus
 Casing ID
 6.276

0.2148 cuft/ft 7" casing casing volume

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

Drake Intermediate Cementing Program

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.

| 4,720 | ft (MD)     | to                 | 13,551            | ft (MD)   | Hole Se   | ection Length:  | 8,831 ft  |
|-------|-------------|--------------------|-------------------|---|---|---|---|
| 4,415 | ft (TVD)    | to                 | 4,345             | ft (TVD)  | Cas   | sing Required:  | 8,981 ft  |
|       |             | Estimated KOP:     | 3,897             | ft (MD)   | 3,871   | ft (TVD)  | _   |
|       | Esti        | imated Liner Top:  | 4,570             | ft (MD)   | 4,382   | ft (TVD)  |   |
| Est   | timated Lar | nding Point (FTP): | 4,420             | ft (MD)   | 4,314   | ft (TVD)  |   |
|       | Estimate    | ed Lateral Length: | 9,131             | ft (MD)   |   |   |   |
|       | 4,415       | Estimated Lai      | 4,415 ft (TVD) to | 4,415 ft (TVD) to 4,345  Estimated KOP: 3,897  Estimated Liner Top: 4,570  Estimated Landing Point (FTP): 4,420 | 4,415 ft (TVD)       to       4,345 ft (TVD)         Estimated KOP:       3,897 ft (MD)         Estimated Liner Top:       4,570 ft (MD)         Estimated Landing Point (FTP):       4,420 ft (MD) | 4,415 ft (TVD)       to       4,345 ft (TVD)       Castinated KOP:         Estimated KOP:       3,897 ft (MD)       3,871         Estimated Liner Top:       4,570 ft (MD)       4,382         Estimated Landing Point (FTP):       4,420 ft (MD)       4,314 | 4,415         ft (TVD)         to         4,345         ft (TVD)         Casing Required:           Estimated KOP:         3,897         ft (MD)         3,871         ft (TVD)           Estimated Liner Top:         4,570         ft (MD)         4,382         ft (TVD)           Estimated Landing Point (FTP):         4,420         ft (MD)         4,314         ft (TVD) |

| Fluid: | Туре | MW (ppg)  | FL (mL/30') | PV (cp) | YP<br>(lb/100 sqft) | рН    | Comments   | Comments    |
|--------|------|-----------|-------------|---------|---------------------|-------|------------|-------------|
|        |      |           |             |         |                     |       |            | OBM as      |
|        | WBM  | 8.7 - 9.0 | NC          | +20     | ±2                  | 9-9.5 | prod water | contingency |

**Hole Size:** 6.125

Bit / Motor: 6-1/8" PDC bit w/mud motor

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100'

minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

**Pressure Test:** NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

|                     |           |            |       |       |                |             | Tens. Body | Tens. Conn |
|---------------------|-----------|------------|-------|-------|----------------|-------------|------------|------------|
| Liner/Casing Specs: | Size (in) | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | (lbs)      | (lbs)      |
| Specs               | 4.500     | 11.6       | P-110 | BTC   | 7,560          | 10,690      | 367,000    | 385,000    |
| Loading             |           |            |       |       | 2,146          | 8,749       | 235,642    | 235,642    |
| Min. S.F.           |           |            |       |       | 3.52           | 1.22        | 1.56       | 1.63       |

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. Tension calculations assume vertical hole to approximate drag in lateral.

MU Torque (ft lbs): Minumum: BTC Optimum: BTC Maximum: BTC

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

Weight (ppg) Yield Water % Excess Planned TOC Total Cmt (cu Cement: Type **Total Cmt** Spacer 11 31.6 40 bbls IntegraGuard Star 0 G:POZ blend 4,570 728 1,107 Tail 13.3 7.50 1.520 25%

Displacement 185 est bbls

Annular Capacities 0.1044 cuft/ft 4-1/2" casing x 7" casing annulus

0.09417 cuft/ft 4-1/2'' casing x 6-1/8'' hole annulus

0.0873 cuft/ft 4-1/2" casing volume est shoe jt ft 100

0.0102 bbls/ft 4" DP capacity

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

American Cementing Liner & Production Blend

S-8 Silica Flour Avis 616 viscosifier FP24 Defoamer .5 Plus 3K LCM 15 SS201 Surfactant 1

Spacer 163.7 lbs/bbl 11.6 lb/bbl lb/bbl lb/bbl gal/bbl

Bentonite IntegraGuard FP24 Defoamer
BA90 Bonding Viscosifier 8% FL24 Fluid Loss .5% GW86 Viscosifier R7C Retarder .2% 0.3% BW0B, Anti-

Lead/Tail ASTM Type I/II Agent 5.0 lb/sx BWOB BWOB BWOB BWOB Static .01 lb/sx

FP24 Defoamer Bentonite IntegraGuard .3% BWOB. Pozzolan Fly Ash **BA90 Bonding** Viscosifier 4% FL24 Fluid Loss .4% GW86 Viscosifier R3 Retarder .5% IntegraSeal 0.25 Type G 50% Extender 50% Agent 3.0 lb/sx **BWOB BWOB** lb/sx

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

**Note:** This well will not be considered an unorthodox well location as definted by NMAC19.15.16.15.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.

#### **COMPLETION AND PRODUCTION PLAN:**

Est Lateral Length: 9,031

Est Frac Inform: 38 Frac Stages 145,000 bbls slick water 11,750,000 lbs proppant

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow

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

## **ESTIMATED START DATES:**

 Drilling:
 12/16/2024

 Completion:
 2/14/2025

 Production:
 3/31/2025

Prepared by: Greg Olson 7/18/2024

Updated:

WELL NAME: Greater Lybrook Unit 036H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: TBD
AFE Number: TBD
ER Well Number: TBD

State: New Mexico

County: San Juan

Surface Elev.: 6,529 ft ASL (GL) 6,553 ft ASL (KB)

 Surface Location:
 28-23-9
 Sec-Twn- Rng
 196
 ft FNL
 1,853
 ft FWL

 BH Location:
 34-23-9
 Sec-Twn- Rng
 1387
 ft FNL
 2355
 ft FEL

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

South on US Hwy 550 for 38.3 miles to MM 113.4; Right (Southwest) on CR #7890 for 0.8 miles to fork; Left (South) remaining on CR #7890 for 1.3 miles to 4-way; Left (Southeast) remaining on CR #7890 for 0.6 miles to T; Right (SouthWest) on CR #7890 for 0.6 miles to fork; Right (West) on access road for 0.6 mi to fork; Left/Straight (West) for 3.1 miles to Greater Lybrook Unit 772H PAD. There are 5 existing wells on this location and 4 new wells staked on the west side of the pad, from West to East: Greater Lybrook Unit 036H, 037H, 038H, 039H

#### WELL CONSTRUCTION SUMMARY:

|              | Hole (in) | TD MD (ft) | Csg (in) | Csg (lb/ft) | Csg (grade) | Csg (conn) | Csg Top (ft) | Csg Bot (ft) |
|--------------|-----------|------------|----------|-------------|-------------|------------|--------------|--------------|
| Surface      | 12.250    | 350        | 9.625    | 36          | K-55        | STC        | 0            | 350          |
| Intermediate | 8.750     | 4,720      | 7        | 26.0        | K-55        | LTC        | 0            | 4,720        |
| Production   | 6.125     | 13,551     | 4.500    | 11.6        | P-110       | BTC        | 4,570        | 13,551       |

#### **CEMENT PROPERTIES SUMMARY:**

|               |               |          |              |              | Hole Cap. |          | тос     |            |
|---------------|---------------|----------|--------------|--------------|-----------|----------|---------|------------|
|               | Туре          | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | (cuft/ft) | % Excess | (ft MD) | Total (sx) |
| Surface       | TYPE I-II     | 14.5     | 1.61         | 7.41         | 0.3132    | 50%      | 0       | 114        |
| Inter. (Lead) | III:POZ Blend | 12.5     | 2.15         | 12.06        | 0.1668    | 80%      | 0       | 395        |
| Inter. (Tail) | Type III      | 13.5     | 1.71         | 8.88         | 0.1503    | 30%      | 3,275   | 171        |
| Prod. (Lead)  | 0             | 0        | 0.000        | 0            | 0.1044    | 0%       | 0       | 0          |
| Prod. (Tail)  | G:POZ blend   | 13.3     | 1.520        | 7.5          | 0.0873    | 25%      | 4,570   | 728        |

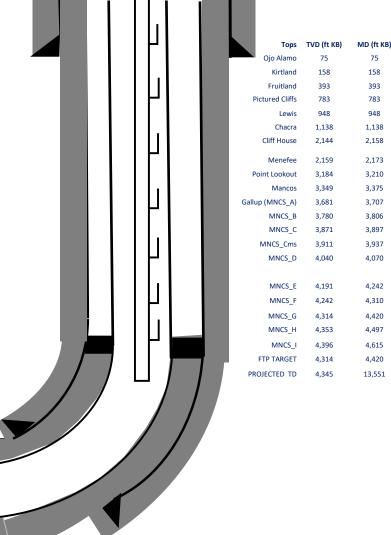
#### **COMPLETION / PRODUCTION SUMMARY:**

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

Flowback: Flow back through production tubing as pressures allow

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

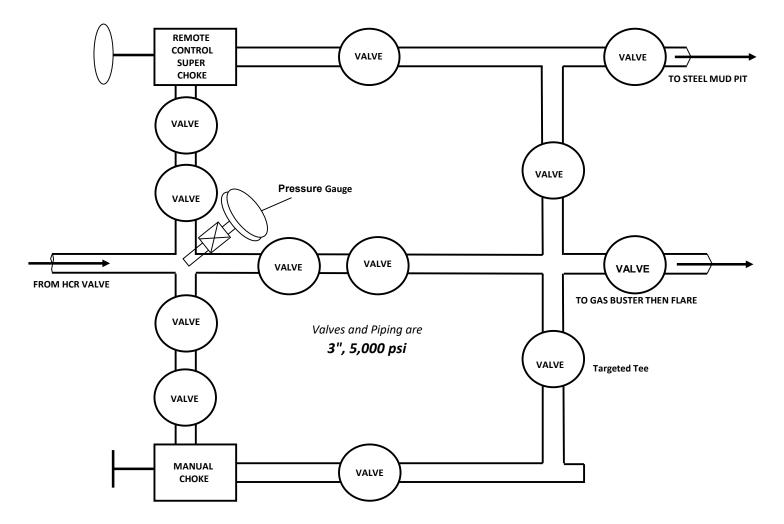
| QUI               | CK REFERENC     | E         |
|-------------------|-----------------|-----------|
| Sur TD (MD)       | 350             | ft        |
| Int TD (MD)       | 4,720           | ft        |
| KOP (MD)          | 3,897           | ft        |
| KOP (TVD)         | 3,871           | ft        |
| Target (TVD)      | 4,314           |           |
| Curve BUR         | 10              | °/100 ft  |
| POE (MD)          | 4,420           | ft        |
| TD (MD)           | 13,551          | ft        |
| Lat Len (ft)      | 9,131           | ft        |
| ork: Left (South) | remaining on CR | #7890 for |



## **Greater Lybrook Unit 036H**

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION 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.

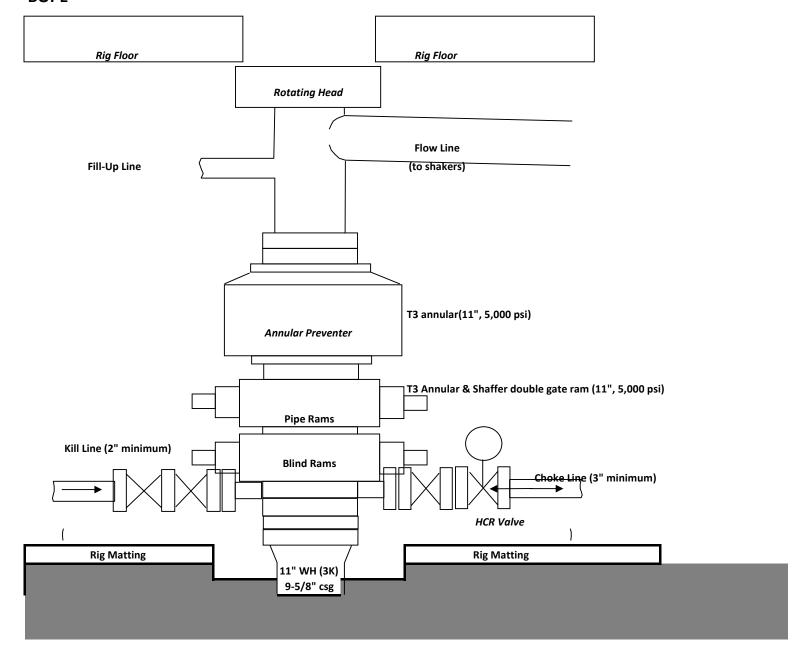
## **CHOKE MANIFOLD**



## **Greater Lybrook Unit 036H**

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION 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**





Site

#### Planning Report



DT Jul1724 v17 Database:

Company: **Enduring Resources LLC** 

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: Map Zone:

New Mexico Western Zone

System Datum: Mean Sea Level

Greater Lybrook (36, 37, 38 & 39)

Northing: 1,893,780.89 usft 36.20461900 Site Position: Latitude: From: Lat/Long Easting: 2,733,874.80 usft Longitude: -107.79678300

**Position Uncertainty:** 0.00 ft Slot Radius: 13-3/16 "

Well Greater Lybrook Unit 36H, Surf loc: 196 FNL 1853 FWL Section 28-T23N-R09W

0.00 ft 1,893,780.89 usft 36.20461900 **Well Position** +N/-S Northing: Latitude: 2,733,874.80 usft -107.79678300 +E/-W 0.00 ft Easting: Longitude:

**Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 6,529.00 ft

**Grid Convergence:** 0.022°

Wellbore Original Hole Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT)

48,965.94828031 IGRF2020 8/20/2024 8.479 62.646

Design rev0

Audit Notes:

**PLAN** Tie On Depth: 0.00 Version: Phase:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 134.999

8/21/2024 Plan Survey Tool Program Date **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 13,550.63 MWD rev0 (Original Hole)

OWSG MWD - Standard





Database: DT\_Jul1724\_v17

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

| n Sections                |                 |                |                           |               |               |                             |                            |                           |            |                     |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|---------------------|
| Measured<br>Depth<br>(ft) | Inclination (°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target              |
| 0.00                      | 0.00            | 0.000          | 0.00                      | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 1,000.00                  | 0.00            | 0.000          | 1,000.00                  | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 1,325.30                  | 9.76            | 301.400        | 1,323.73                  | 14.40         | -23.59        | 3.00                        | 3.00                       | 0.00                      | 301.400    |                     |
| 2,900.64                  | 9.76            | 301.400        | 2,876.27                  | 153.52        | -251.51       | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 3,225.94                  | 0.00            | 0.000          | 3,200.00                  | 167.92        | -275.10       | 3.00                        | -3.00                      | 0.00                      | 180.000    |                     |
| 3,869.84                  | 0.00            | 0.000          | 3,843.90                  | 167.92        | -275.10       | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 4,569.84                  | 70.00           | 134.999        | 4,382.30                  | -98.65        | -8.52         | 10.00                       | 10.00                      | 0.00                      | 134.999    |                     |
| 4,774.53                  | 90.47           | 134.999        | 4,416.84                  | -240.53       | 133.37        | 10.00                       | 10.00                      | 0.00                      | 0.001      |                     |
| 13,550.63                 | 90.47           | 134.999        | 4,345.00                  | -6,445.90     | 6,338.86      | 0.00                        | 0.00                       | 0.00                      | 0.000      | Greater Lybrook 36H |





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

|                           | revu               |                    |                           |                  |                    |                             |                             |                            |                           |
|---------------------------|--------------------|--------------------|---------------------------|------------------|--------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| Survey                    |                    |                    |                           |                  |                    |                             |                             |                            |                           |
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°)     | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft)    | +E/-W<br>(ft)      | Vertical<br>Section<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
| 0.00                      | 0.00               | 0.000              | 0.00                      | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 75.00                     | 0.00               | 0.000              | 75.00                     | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| Ojo Alamo                 | 0.00               | 0.000              | 400.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 100.00<br>158.00          | 0.00<br>0.00       | 0.000<br>0.000     | 100.00<br>158.00          | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00                | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
| Kirtland                  | 0.00               | 0.000              | 130.00                    | 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                      |
| 350.00                    | 0.00               | 0.000              | 350.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 9-5/8" Surf               | •                  |                    |                           |                  |                    |                             |                             |                            |                           |
| 393.00                    | 0.00               | 0.000              | 393.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| Fruitland<br>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                      |
| 600.00                    | 0.00               | 0.000              | 600.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 700.00                    | 0.00               | 0.000              | 700.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 783.00                    | 0.00               | 0.000              | 783.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| Pictured C                |                    |                    |                           |                  |                    |                             |                             |                            |                           |
| 800.00<br>900.00          | 0.00<br>0.00       | 0.000<br>0.000     | 800.00<br>900.00          | 0.00<br>0.00     | 0.00<br>0.00       | 0.00<br>0.00                | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
|                           |                    |                    |                           |                  |                    |                             |                             |                            |                           |
| 948.00                    | 0.00               | 0.000              | 948.00                    | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| Lewis<br>1,000.00         | 0.00               | 0.000              | 1,000.00                  | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
|                           | 3°/100' build      | 0.000              | 1,000.00                  | 0.00             | 0.00               | 0.00                        | 0.00                        | 0.00                       | 0.00                      |
| 1,100.00                  | 3.00               | 301.400            | 1,099.95                  | 1.36             | -2.23              | -2.54                       | 3.00                        | 3.00                       | 0.00                      |
| 1,138.16                  | 4.14               | 301.400            | 1,138.04                  | 2.60             | -4.26              | -4.86                       | 3.00                        | 3.00                       | 0.00                      |
| 1,200.00                  | 6.00               | 301.400            | 1,199.63                  | 5.45             | -8.93              | -10.17                      | 3.00                        | 3.00                       | 0.00                      |
|                           |                    |                    |                           |                  |                    |                             |                             |                            |                           |
| 1,300.00<br>1,325.30      | 9.00<br>9.76       | 301.400<br>301.400 | 1,298.77<br>1,323.73      | 12.25<br>14.40   | -20.07<br>-23.59   | -22.85<br>-26.86            | 3.00<br>3.00                | 3.00<br>3.00               | 0.00<br>0.00              |
| Begin 9.76                |                    | 301.400            | 1,020.70                  | 14.40            | -25.55             | -20.00                      | 3.00                        | 3.00                       | 0.00                      |
| 1,400.00                  | 9.76               | 301.400            | 1,397.35                  | 21.00            | -34.40             | -39.17                      | 0.00                        | 0.00                       | 0.00                      |
| 1,500.00                  | 9.76               | 301.400            | 1,495.90                  | 29.83            | -48.87             | -55.64                      | 0.00                        | 0.00                       | 0.00                      |
| 1,600.00                  | 9.76               | 301.400            | 1,594.45                  | 38.66            | -63.33             | -72.12                      | 0.00                        | 0.00                       | 0.00                      |
| 1,700.00                  | 9.76               | 301.400            | 1,693.01                  | 47.49            | -77.80             | -88.59                      | 0.00                        | 0.00                       | 0.00                      |
| 1,800.00<br>1,900.00      | 9.76<br>9.76       | 301.400<br>301.400 | 1,791.56<br>1,890.11      | 56.32<br>65.15   | -92.27<br>-106.74  | -105.07<br>-121.54          | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
| 2,000.00                  | 9.76               | 301.400            | 1,988.67                  | 73.98            | -121.21            | -138.02                     | 0.00                        | 0.00                       | 0.00                      |
| 2,100.00                  | 9.76               | 301.400            | 2,087.22                  | 82.81            | -135.67            | -154.50                     | 0.00                        | 0.00                       | 0.00                      |
| 2,157.97                  | 9.76               | 301.400            | 2,144.35                  | 87.93            | -144.06            | -164.05                     | 0.00                        | 0.00                       | 0.00                      |
| Cliff House               | _                  |                    |                           |                  |                    |                             |                             |                            |                           |
| 2,173.21                  | 9.76               | 301.400            | 2,159.37                  | 89.28            | -146.27            | -166.56                     | 0.00                        | 0.00                       | 0.00                      |
| <b>Menefee</b> 2,200.00   | 9.76               | 301.400            | 2,185.77                  | 91.65            | -150.14            | -170.97                     | 0.00                        | 0.00                       | 0.00                      |
| 2,300.00                  | 9.76               | 301.400            | 2,183.77                  | 100.48           | -164.61            | -170.97                     | 0.00                        | 0.00                       | 0.00                      |
| 2,400.00                  | 9.76               | 301.400            | 2,382.88                  | 109.31           | -179.08            | -203.92                     | 0.00                        | 0.00                       | 0.00                      |
| 2,500.00                  | 9.76               | 301.400            | 2,481.43                  | 118.14           | -193.55            | -220.40                     | 0.00                        | 0.00                       | 0.00                      |
| 2,600.00                  | 9.76               | 301.400            | 2,579.98                  | 126.97           | -208.01            | -236.87                     | 0.00                        | 0.00                       | 0.00                      |
| 2,700.00                  | 9.76<br>9.76       | 301.400<br>301.400 | 2,678.54<br>2,777.09      | 135.80<br>144.63 | -222.48<br>-236.95 | -253.35<br>-269.82          | 0.00                        | 0.00                       | 0.00                      |
| 2,800.00<br>2,900.64      | 9.76<br>9.76       | 301.400            | 2,777.09                  | 144.63<br>153.52 | -236.95<br>-251.51 | -269.82<br>-286.40          | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
| Begin 3°/10               |                    |                    | ,                         |                  |                    |                             |                             |                            |                           |
| 3,000.00                  | •                  | 301.400            | 2,974.59                  | 160.97           | -263.71            | -300.29                     | 3.00                        | -3.00                      | 0.00                      |





Database: Company: DT\_Jul1724\_v17

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

**Site:** Greater Lybrook (36, 37, 38 & 39)

Well: Wellbore: Greater Lybrook Unit 36H Original Hole

Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

| Design: |                                   | rev0                     |                               |                                  |                         |                               |                               |                             |                            |                           |
|---------|-----------------------------------|--------------------------|-------------------------------|----------------------------------|-------------------------|-------------------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|
| Planne  | d Survey                          |                          |                               |                                  |                         |                               |                               |                             |                            |                           |
|         | Measured<br>Depth<br>(ft)         | Inclination (°)          | Azimuth<br>(°)                | Vertical<br>Depth<br>(ft)        | +N/-S<br>(ft)           | +E/-W<br>(ft)                 | Vertical<br>Section<br>(ft)   | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) |
|         | 3,100.00<br>3,200.00              | 3.78<br>0.78             | 301.400<br>301.400            | 3,074.15<br>3,174.06             | 165.76<br>167.83        | -271.56<br>-274.95            | -309.23<br>-313.09            | 3.00<br>3.00                | -3.00<br>-3.00             | 0.00<br>0.00              |
|         | 3,209.51                          | 0.49                     | 301.400                       | 3,183.57                         | 167.88                  | -275.04                       | -313.20                       | 3.00                        | -3.00                      | 0.00                      |
|         | Point Lookou                      |                          | 0.000                         | 2 200 00                         | 407.00                  | 075.40                        | 242.00                        | 2.00                        | 2.00                       | 0.00                      |
|         | 3,225.94<br>Begin vertica         | 0.00<br><b>I hold</b>    | 0.000                         | 3,200.00                         | 167.92                  | -275.10                       | -313.26                       | 3.00                        | -3.00                      | 0.00                      |
|         | 3,300.00<br>3,374.51              | 0.00<br>0.00             | 0.000<br>0.000                | 3,274.06<br>3,348.57             | 167.92<br>167.92        | -275.10<br>-275.10            | -313.26<br>-313.26            | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
|         | Mancos                            | 0.00                     | 0.000                         | 0,010.01                         |                         | 2.00                          | 0.0.20                        | 0.00                        | 0.00                       | 0.00                      |
|         | 3,400.00                          | 0.00                     | 0.000                         | 3,374.06                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | 3,500.00                          | 0.00                     | 0.000                         | 3,474.06                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | 3,600.00                          | 0.00                     | 0.000                         | 3,574.06                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | 3,700.00<br>3,706.51              | 0.00<br>0.00             | 0.000<br>0.000                | 3,674.06<br>3,680.57             | 167.92<br>167.92        | -275.10<br>-275.10            | -313.26<br>-313.26            | 0.00<br>0.00                | 0.00<br>0.00               | 0.00<br>0.00              |
|         | MNCS_A                            | 0.00                     | 0.000                         | 3,000.37                         | 107.32                  | -275.10                       | -010.20                       | 0.00                        | 0.00                       | 0.00                      |
|         | 3,800.00                          | 0.00                     | 0.000                         | 3,774.06                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | 3,805.51                          | 0.00                     | 0.000                         | 3,779.57                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | MNCS_B<br>3.869.84                | 0.00                     | 0.000                         | 3,843.90                         | 167.92                  | -275.10                       | -313.26                       | 0.00                        | 0.00                       | 0.00                      |
|         | Begin 10°/100                     |                          | 0.000                         | 0,010.00                         | 2                       | 2.00                          | 0.0.20                        | 0.00                        | 0.00                       | 0.00                      |
|         | 3,896.51                          | 2.67                     | 134.999                       | 3,870.56                         | 167.48                  | -274.66                       | -312.64                       | 10.00                       | 10.00                      | 0.00                      |
|         | MNCS_C                            |                          |                               |                                  |                         |                               |                               |                             |                            |                           |
|         | 3,900.00<br>3,936.63              | 3.02<br>6.68             | 134.999<br>134.999            | 3,874.05<br>3,910.54             | 167.36<br>165.17        | -274.54<br>-272.35            | -312.47<br>-309.38            | 10.00<br>10.00              | 10.00<br>10.00             | 0.00<br>0.00              |
|         | MNCS_Cms                          |                          |                               |                                  |                         |                               |                               |                             |                            |                           |
|         | 3,950.00<br>4,000.00              | 8.02<br>13.02            | 134.999<br>134.999            | 3,923.80<br>3,972.95             | 163.96<br>157.51        | -271.14<br>-264.69            | -307.67<br>-298.54            | 10.00<br>10.00              | 10.00<br>10.00             | 0.00<br>0.00              |
|         | 4,050.00                          | 18.02                    | 134.999                       | 4,021.11                         | 148.06                  | -255.23                       | -285.17                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,070.29<br>MNCS_D                | 20.04                    | 134.999                       | 4,040.29                         | 143.38                  | -250.56                       | -278.56                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,100.00                          | 23.02                    | 134.999                       | 4,067.92                         | 135.67                  | -242.85                       | -267.65                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,150.00                          | 28.02                    | 134.999                       | 4,113.03                         | 120.44                  | -227.62                       | -246.12                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,200.00                          | 33.02                    | 134.999                       | 4,156.09                         | 102.50                  | -209.67                       | -220.74<br>106.45             | 10.00                       | 10.00                      | 0.00                      |
|         | 4,242.22<br>MNCS_E                | 37.24                    | 134.999                       | 4,190.61                         | 85.33                   | -192.50                       | -196.45                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,250.00<br>4,300.00<br>4,310.31  | 38.02<br>43.02<br>44.05  | 134.999<br>134.999<br>134.999 | 4,196.78<br>4,234.78<br>4,242.25 | 81.96<br>59.00<br>53.98 | -189.14<br>-166.18<br>-161.16 | -191.70<br>-159.23<br>-152.13 | 10.00<br>10.00<br>10.00     | 10.00<br>10.00<br>10.00    | 0.00<br>0.00<br>0.00      |
|         | MNCS_F<br>4,350.00                | 48.02                    | 134.999                       | 4,269.80                         | 33.79                   | -140.96                       | -123.57                       | 10.00                       | 10.00                      | 0.00                      |
|         | 4,400.00<br>4,420.40              | 53.02<br>55.06           | 134.999<br>134.999            | 4,301.58<br>4,313.56             | 6.51<br>-5.16           | -113.68<br>-102.01            | -84.99<br>-68.48              | 10.00<br>10.00              | 10.00<br>10.00             | 0.00<br>0.00              |
|         | MNCS_G                            |                          |                               | ,                                |                         |                               |                               |                             |                            |                           |
|         | 4,450.00<br>4,496.81              | 58.02<br>62.70           | 134.999<br>134.999            | 4,329.88<br>4,353.03             | -22.62<br>-51.38        | -84.55<br>-55.79              | -43.79<br>-3.12               | 10.00<br>10.00              | 10.00<br>10.00             | 0.00<br>0.00              |
|         | MNCS_H                            | 02.70                    |                               | .,000.00                         | 51.00                   | 30.13                         | 0.12                          | .0.00                       | 70.00                      | 5.50                      |
|         | 4,500.00                          | 63.02                    | 134.999                       | 4,354.48                         | -53.39                  | -53.78                        | -0.28                         | 10.00                       | 10.00                      | 0.00                      |
|         | 4,550.00                          | 68.02                    | 134.999                       | 4,375.20                         | -85.56                  | -21.62                        | 45.21                         | 10.00                       | 10.00                      | 0.00                      |
|         | 4,569.84                          | 70.00                    | 134.999                       | 4,382.30                         | -98.65                  | -8.52                         | 63.73                         | 10.00                       | 10.00                      | 0.00                      |
|         | <b>70° @ 4569.8</b> 4<br>4,600.00 | 4 MD 4382.31 TV<br>73.02 | /D<br>134.999                 | 4,391.87                         | -118.88                 | 11.71                         | 92.33                         | 10.00                       | 10.00                      | 0.00                      |
|         | 4,615.22                          | 74.54                    | 134.999                       | 4,396.12                         | -129.21                 | 22.04                         | 106.95                        | 10.00                       | 10.00                      | 0.00                      |





Database: Company: DT\_Jul1724\_v17

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39) Greater Lybrook Unit 36H

Well:

Original Hole Wellbore:

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

| yıı. |                      |                |                    |                      |                        |                      |                      |                |               |              |
|------|----------------------|----------------|--------------------|----------------------|------------------------|----------------------|----------------------|----------------|---------------|--------------|
| nne  | d Survey             |                |                    |                      |                        |                      |                      |                |               |              |
|      | Measured<br>Depth    | Inclination    | Azimuth            | Vertical<br>Depth    | +N/-S                  | +E/-W                | Vertical<br>Section  | Dogleg<br>Rate | Build<br>Rate | Turn<br>Rate |
|      | (ft)                 | (°)            | (°)                | (ft)                 | (ft)                   | (ft)                 | (ft)                 | (°/100ft)      | (°/100ft)     | (°/100ft)    |
|      | (/                   | ( )            | ( )                | (1-5)                | (11)                   | (11)                 | ()                   | ( / 10011)     | ( / 10011)    | ( / 10011)   |
|      | MNCS_I               |                |                    |                      |                        |                      |                      |                |               |              |
|      | 4,650.00             | 78.02          | 134.999            | 4,404.37             | -153.10                | 45.93                | 140.73               | 10.00          | 10.00         | 0.00         |
|      | 4,700.00             | 83.02          | 134.999            | 4,412.61             | -187.96                | 80.79                | 190.03               | 10.00          | 10.00         | 0.00         |
|      | 4,739.84             | 87.00          | 134.999            | 4,416.07             | -216.01                | 108.85               | 229.71               | 10.00          | 10.00         | 0.00         |
|      | 7" Intermedi         |                | 101.000            | 1,110.01             | 210.01                 | 100.00               | 220.71               | 10.00          | 10.00         | 0.00         |
|      | 4,750.00             | 88.02          | 134.999            | 4,416.51             | -223.19                | 116.02               | 239.86               | 10.00          | 10.00         | 0.00         |
|      | 4,774.53             | 90.47          | 134.999            | 4,416.84             | -240.53                | 133.37               | 264.38               | 10.00          | 10.00         | 0.00         |
|      | Begin 90.47°         |                | 104.000            | 4,410.04             | 240.00                 | 100.07               | 204.00               | 10.00          | 10.00         | 0.00         |
|      | 4,800.00             | 90.47          | 134.999            | 4,416.63             | -258.54                | 151.38               | 289.86               | 0.00           | 0.00          | 0.00         |
|      | 4,000.00             |                | 134.999            | 4,410.03             |                        |                      |                      |                |               |              |
|      | 4,900.00             | 90.47          | 134.999            | 4,415.81             | -329.25                | 222.09               | 389.85               | 0.00           | 0.00          | 0.00         |
|      | 5,000.00             | 90.47          | 134.999            | 4,414.99             | -399.96                | 292.80               | 489.85               | 0.00           | 0.00          | 0.00         |
|      | 5,100.00             | 90.47          | 134.999            | 4,414.17             | -470.67                | 363.50               | 589.85               | 0.00           | 0.00          | 0.00         |
|      | 5,200.00             | 90.47          | 134.999            | 4,413.36             | -541.37                | 434.21               | 689.84               | 0.00           | 0.00          | 0.00         |
|      | 5,300.00             | 90.47          | 134.999            | 4,412.54             | -612.08                | 504.92               | 789.84               | 0.00           | 0.00          | 0.00         |
|      | 5,400.00             | 90.47          | 134.999            | 4,411.72             | -682.79                | 575.63               | 889.84               | 0.00           | 0.00          | 0.00         |
|      | 5,500.00             | 90.47          | 134.999            | 4,410.90             | -753.50                | 646.34               | 989.83               | 0.00           | 0.00          | 0.00         |
|      | 5,600.00             | 90.47          | 134.999            | 4,410.08             | -824.20                | 717.05               | 1,089.83             | 0.00           | 0.00          | 0.00         |
|      | 5,700.00             | 90.47          | 134.999            | 4,409.26             | -894.91                | 787.76               | 1,189.83             | 0.00           | 0.00          | 0.00         |
|      | 5,800.00             | 90.47          | 134.999            | 4,408.44             | -965.62                | 858.47               | 1,289.82             | 0.00           | 0.00          | 0.00         |
|      | 5,900.00             | 90.47          | 134.999            | 4,407.63             | -1,036.33              | 929.18               | 1,389.82             | 0.00           | 0.00          | 0.00         |
|      | 6,000.00             | 90.47          | 134.999            | 4,406.81             | -1,107.03              | 999.89               | 1,489.82             | 0.00           | 0.00          | 0.00         |
|      | 6,100.00             | 90.47          | 134.999            | 4,405.99             | -1,177.74              | 1,070.59             | 1,589.81             | 0.00           | 0.00          | 0.00         |
|      | 6,200.00             | 90.47          | 134.999            | 4,405.17             | -1,248.45              | 1,141.30             | 1,689.81             | 0.00           | 0.00          | 0.00         |
|      | 6,300.00             | 90.47          | 134.999            | 4,404.35             | -1,319.16              | 1,212.01             | 1,789.81             | 0.00           | 0.00          | 0.00         |
|      | 6,400.00             | 90.47          | 134.999            | 4,403.53             | -1,389.86              | 1,282.72             | 1,889.80             | 0.00           | 0.00          | 0.00         |
|      | 6,500.00             | 90.47          | 134.999            | 4,402.71             | -1,460.57              | 1,353.43             | 1,989.80             | 0.00           | 0.00          | 0.00         |
|      | 6,600.00             | 90.47          | 134.999            | 4,401.90             | -1,531.28              | 1,424.14             | 2,089.80             | 0.00           | 0.00          | 0.00         |
|      | 6,700.00             | 90.47          | 134.999            | 4,401.08             | -1,601.99              | 1,494.85             | 2,189.79             | 0.00           | 0.00          | 0.00         |
|      | 6,800.00             | 90.47          | 134.999            | 4,400.26             | -1,672.69              | 1,565.56             | 2,289.79             | 0.00           | 0.00          | 0.00         |
|      |                      |                |                    |                      |                        |                      |                      |                |               |              |
|      | 6,900.00             | 90.47          | 134.999            | 4,399.44             | -1,743.40              | 1,636.27             | 2,389.79             | 0.00           | 0.00          | 0.00         |
|      | 7,000.00             | 90.47          | 134.999            | 4,398.62             | -1,814.11<br>-1,884.82 | 1,706.98             | 2,489.78             | 0.00           | 0.00<br>0.00  | 0.00         |
|      | 7,100.00             | 90.47          | 134.999            | 4,397.80             |                        | 1,777.69             | 2,589.78             | 0.00           |               | 0.00         |
|      | 7,200.00<br>7,300.00 | 90.47<br>90.47 | 134.999<br>134.999 | 4,396.98<br>4,396.17 | -1,955.52<br>-2,026.23 | 1,848.39<br>1,919.10 | 2,689.78<br>2,789.77 | 0.00<br>0.00   | 0.00<br>0.00  | 0.00<br>0.00 |
|      |                      |                |                    |                      |                        | *                    |                      |                |               |              |
|      | 7,400.00             | 90.47          | 134.999            | 4,395.35             | -2,096.94              | 1,989.81             | 2,889.77             | 0.00           | 0.00          | 0.00         |
|      | 7,500.00             | 90.47          | 134.999            | 4,394.53             | -2,167.65              | 2,060.52             | 2,989.77             | 0.00           | 0.00          | 0.00         |
|      | 7,600.00             | 90.47          | 134.999            | 4,393.71             | -2,238.35              | 2,131.23             | 3,089.76             | 0.00           | 0.00          | 0.00         |
|      | 7,700.00             | 90.47          | 134.999            | 4,392.89             | -2,309.06              | 2,201.94             | 3,189.76             | 0.00           | 0.00          | 0.00         |
|      | 7,800.00             | 90.47          | 134.999            | 4,392.07             | -2,379.77              | 2,272.65             | 3,289.76             | 0.00           | 0.00          | 0.00         |
|      | 7,900.00             | 90.47          | 134.999            | 4,391.25             | -2,450.48              | 2,343.36             | 3,389.75             | 0.00           | 0.00          | 0.00         |
|      | 8,000.00             | 90.47          | 134.999            | 4,390.44             | -2,521.18              | 2,414.07             | 3,489.75             | 0.00           | 0.00          | 0.00         |
|      | 8,100.00             | 90.47          | 134.999            | 4,389.62             | -2,591.89              | 2,484.78             | 3,589.75             | 0.00           | 0.00          | 0.00         |
|      | 8,200.00             | 90.47          | 134.999            | 4,388.80             | -2,662.60              | 2,555.49             | 3,689.74             | 0.00           | 0.00          | 0.00         |
|      | 8,300.00             | 90.47          | 134.999            | 4,387.98             | -2,733.31              | 2,626.19             | 3,789.74             | 0.00           | 0.00          | 0.00         |
|      | 8,400.00             | 90.47          | 134.999            | 4,387.16             | -2.804.01              | 2,696.90             | 3,889.74             | 0.00           | 0.00          | 0.00         |
|      | 8,500.00             | 90.47          | 134.999            | 4,386.34             | -2,874.72              | 2,767.61             | 3,989.73             | 0.00           | 0.00          | 0.00         |
|      | 8,600.00             | 90.47          | 134.999            | 4,385.52             | -2,945.43              | 2,838.32             | 4,089.73             | 0.00           | 0.00          | 0.00         |
|      | 8,700.00             | 90.47          | 134.999            | 4,384.71             | -3,016.14              | 2,909.03             | 4,189.73             | 0.00           | 0.00          | 0.00         |
|      | 8,800.00             | 90.47          | 134.999            | 4,383.89             | -3,086.84              | 2,979.74             | 4,289.72             | 0.00           | 0.00          | 0.00         |
|      |                      |                |                    |                      |                        |                      |                      |                |               |              |
|      | 8,900.00             | 90.47          | 134.999            | 4,383.07             | -3,157.55              | 3,050.45             | 4,389.72             | 0.00           | 0.00          | 0.00         |
|      | 9,000.00             | 90.47          | 134.999            | 4,382.25             | -3,228.26              | 3,121.16             | 4,489.72             | 0.00           | 0.00          | 0.00         |
|      | 9,100.00             | 90.47          | 134.999            | 4,381.43             | -3,298.97              | 3,191.87             | 4,589.71             | 0.00           | 0.00          | 0.00         |
|      | 9,200.00             | 90.47          | 134.999            | 4,380.61             | -3,369.68              | 3,262.58             | 4,689.71             | 0.00           | 0.00          | 0.00         |





Database: DT\_Jul1724\_v17
Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

| ed Survey     |                    |                |               |               |               |                 |                   |                   |                   |
|---------------|--------------------|----------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|-------------------|
| Measured      |                    |                | Vertical      |               |               | Vertical        | Dogleg            | Build             | Turn              |
| Depth<br>(ft) | Inclination<br>(°) | Azimuth<br>(°) | Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Section<br>(ft) | Rate<br>(°/100ft) | Rate<br>(°/100ft) | Rate<br>(°/100ft) |
| 9,300.00      | 90.47              | 134.999        | 4,379.79      | -3,440.38     | 3,333.29      | 4,789.71        | 0.00              | 0.00              | 0.00              |
| 9,400.00      | 90.47              | 134.999        | 4,378.98      | -3,511.09     | 3,403.99      | 4,889.70        | 0.00              | 0.00              | 0.00              |
| 9,500.00      | 90.47              | 134.999        | 4,378.16      | -3,581.80     | 3,474.70      | 4,989.70        | 0.00              | 0.00              | 0.00              |
| 9,600.00      | 90.47              | 134.999        | 4,377.34      | -3,652.51     | 3,545.41      | 5,089.70        | 0.00              | 0.00              | 0.00              |
| 9,700.00      | 90.47              | 134.999        | 4,376.52      | -3,723.21     | 3,616.12      | 5,189.69        | 0.00              | 0.00              | 0.00              |
| 9,800.00      | 90.47              | 134.999        | 4,375.70      | -3,793.92     | 3,686.83      | 5,289.69        | 0.00              | 0.00              | 0.00              |
| 9,900.00      | 90.47              | 134.999        | 4,374.88      | -3,864.63     | 3,757.54      | 5,389.69        | 0.00              | 0.00              | 0.00              |
| 10,000.00     | 90.47              | 134.999        | 4,374.06      | -3,935.34     | 3,828.25      | 5,489.68        | 0.00              | 0.00              | 0.00              |
| 10,100.00     | 90.47              | 134.999        | 4,373.25      | -4,006.04     | 3,898.96      | 5,589.68        | 0.00              | 0.00              | 0.00              |
| 10,200.00     | 90.47              | 134.999        | 4,372.43      | -4,076.75     | 3,969.67      | 5,689.68        | 0.00              | 0.00              | 0.00              |
| 10,300.00     | 90.47              | 134.999        | 4,371.61      | -4,147.46     | 4,040.38      | 5,789.67        | 0.00              | 0.00              | 0.00              |
| 10,400.00     | 90.47              | 134.999        | 4,370.79      | -4,218.17     | 4,111.09      | 5,889.67        | 0.00              | 0.00              | 0.00              |
| 10,500.00     | 90.47              | 134.999        | 4,369.97      | -4,288.87     | 4,181.79      | 5,989.67        | 0.00              | 0.00              | 0.00              |
| 10,600.00     | 90.47              | 134.999        | 4,369.15      | -4,359.58     | 4,252.50      | 6,089.66        | 0.00              | 0.00              | 0.00              |
| 10,700.00     | 90.47              | 134.999        | 4,368.33      | -4,430.29     | 4,323.21      | 6,189.66        | 0.00              | 0.00              | 0.00              |
| 10,800.00     | 90.47              | 134.999        | 4,367.52      | -4,501.00     | 4,393.92      | 6,289.66        | 0.00              | 0.00              | 0.00              |
| 10,900.00     | 90.47              | 134.999        | 4,366.70      | -4,571.70     | 4,464.63      | 6,389.65        | 0.00              | 0.00              | 0.00              |
| 11,000.00     | 90.47              | 134.999        | 4,365.88      | -4,642.41     | 4,535.34      | 6,489.65        | 0.00              | 0.00              | 0.00              |
| 11,100.00     | 90.47              | 134.999        | 4,365.06      | -4,713.12     | 4,606.05      | 6,589.64        | 0.00              | 0.00              | 0.00              |
| 11,200.00     | 90.47              | 134.999        | 4,364.24      | -4,783.83     | 4,676.76      | 6,689.64        | 0.00              | 0.00              | 0.00              |
| 11,300.00     | 90.47              | 134.999        | 4,363.42      | -4,854.53     | 4,747.47      | 6,789.64        | 0.00              | 0.00              | 0.00              |
| 11,400.00     | 90.47              | 134.999        | 4,362.60      | -4,925.24     | 4,818.18      | 6,889.63        | 0.00              | 0.00              | 0.00              |
| 11,500.00     | 90.47              | 134.999        | 4,361.79      | -4,995.95     | 4,888.89      | 6,989.63        | 0.00              | 0.00              | 0.00              |
| 11,600.00     | 90.47              | 134.999        | 4,360.97      | -5,066.66     | 4,959.59      | 7,089.63        | 0.00              | 0.00              | 0.00              |
| 11,700.00     | 90.47              | 134.999        | 4,360.15      | -5,137.36     | 5,030.30      | 7,189.62        | 0.00              | 0.00              | 0.00              |
| 11,800.00     | 90.47              | 134.999        | 4,359.33      | -5,208.07     | 5,101.01      | 7,289.62        | 0.00              | 0.00              | 0.00              |
| 11,900.00     | 90.47              | 134.999        | 4,358.51      | -5,278.78     | 5,171.72      | 7,389.62        | 0.00              | 0.00              | 0.00              |
| 12,000.00     | 90.47              | 134.999        | 4,357.69      | -5,349.49     | 5,242.43      | 7,489.61        | 0.00              | 0.00              | 0.00              |
| 12,100.00     | 90.47              | 134.999        | 4,356.87      | -5,420.19     | 5,313.14      | 7,589.61        | 0.00              | 0.00              | 0.00              |
| 12,200.00     | 90.47              | 134.999        | 4,356.06      | -5,490.90     | 5,383.85      | 7,689.61        | 0.00              | 0.00              | 0.00              |
| 12,300.00     | 90.47              | 134.999        | 4,355.24      | -5,561.61     | 5,454.56      | 7,789.60        | 0.00              | 0.00              | 0.00              |
| 12,400.00     | 90.47              | 134.999        | 4,354.42      | -5,632.32     | 5,525.27      | 7,889.60        | 0.00              | 0.00              | 0.00              |
| 12,500.00     | 90.47              | 134.999        | 4,353.60      | -5,703.02     | 5,595.98      | 7,989.60        | 0.00              | 0.00              | 0.00              |
| 12,600.00     | 90.47              | 134.999        | 4,352.78      | -5,773.73     | 5,666.68      | 8,089.59        | 0.00              | 0.00              | 0.00              |
| 12,700.00     | 90.47              | 134.999        | 4,351.96      | -5,844.44     | 5,737.39      | 8,189.59        | 0.00              | 0.00              | 0.00              |
| 12,800.00     | 90.47              | 134.999        | 4,351.14      | -5,915.15     | 5,808.10      | 8,289.59        | 0.00              | 0.00              | 0.00              |
| 12,900.00     | 90.47              | 134.999        | 4,350.33      | -5,985.85     | 5,878.81      | 8,389.58        | 0.00              | 0.00              | 0.00              |
| 13,000.00     | 90.47              | 134.999        | 4,349.51      | -6,056.56     | 5,949.52      | 8,489.58        | 0.00              | 0.00              | 0.00              |
| 13,100.00     | 90.47              | 134.999        | 4,348.69      | -6,127.27     | 6,020.23      | 8,589.58        | 0.00              | 0.00              | 0.00              |
| 13,200.00     | 90.47              | 134.999        | 4,347.87      | -6,197.98     | 6,090.94      | 8,689.57        | 0.00              | 0.00              | 0.00              |
| 13,300.00     | 90.47              | 134.999        | 4,347.05      | -6,268.68     | 6,161.65      | 8,789.57        | 0.00              | 0.00              | 0.00              |
| 13,400.00     | 90.47              | 134.999        | 4,346.23      | -6,339.39     | 6,232.36      | 8,889.57        | 0.00              | 0.00              | 0.00              |
| 13,500.00     | 90.47              | 134.999        | 4,345.41      | -6,410.10     | 6,303.07      | 8,989.56        | 0.00              | 0.00              | 0.00              |
| 13,550.63     | 90.47              | 134.999        | 4,345.00      | -6,445.90     | 6,338.86      | 9,040.19        | 0.00              | 0.00              | 0.00              |





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

4,739.84

4,416.07 7" Intermediate Casing

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

7

8-3/4

Grid

| Casing Points |          |          |                       |          |          |  |
|---------------|----------|----------|-----------------------|----------|----------|--|
|               | Measured | Vertical |                       | Casing   | Hole     |  |
|               | Depth    | Depth    |                       | Diameter | Diameter |  |
|               | (ft)     | (ft)     | Name                  | (")      | (")      |  |
|               | 350.00   | 350.00   | 9-5/8" Surface Casing | 9-5/8    | 12-1/4   |  |

| Formations |                           |                           |                   |           |            |                         |
|------------|---------------------------|---------------------------|-------------------|-----------|------------|-------------------------|
|            | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Name              | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|            | 75.00                     | 75.00                     | Ojo Alamo         |           | -0.470     | 134.999                 |
|            | 158.00                    | 158.00                    | Kirtland          |           | -0.470     | 134.999                 |
|            | 393.00                    | 393.00                    | Fruitland         |           | -0.470     | 134.999                 |
|            | 783.00                    | 783.00                    | Pictured Cliffs   |           | -0.470     | 134.999                 |
|            | 948.00                    | 948.00                    | Lewis             |           | -0.470     | 134.999                 |
|            | 1,138.16                  | 1,138.04                  | Chacra_A          |           | -0.470     | 134.999                 |
|            | 2,157.97                  | 2,144.35                  | Cliff House_Basal |           | -0.470     | 134.999                 |
|            | 2,173.21                  | 2,159.37                  | Menefee           |           | -0.470     | 134.999                 |
|            | 3,209.51                  | 3,183.57                  | Point Lookout     |           | -0.470     | 134.999                 |
|            | 3,374.51                  | 3,348.57                  | Mancos            |           | -0.470     | 134.999                 |
|            | 3,706.51                  | 3,680.57                  | MNCS_A            |           | -0.470     | 134.999                 |
|            | 3,805.51                  | 3,779.57                  | MNCS_B            |           | -0.470     | 134.999                 |
|            | 3,896.51                  | 3,870.56                  | MNCS_C            |           | -0.470     | 134.999                 |
|            | 3,936.63                  | 3,910.54                  | MNCS_Cms          |           | -0.470     | 134.999                 |
|            | 4,070.29                  | 4,040.29                  | MNCS_D            |           | -0.470     | 134.999                 |
|            | 4,242.22                  | 4,190.61                  | MNCS_E            |           | -0.470     | 134.999                 |
|            | 4,310.31                  | 4,242.25                  | MNCS_F            |           | -0.470     | 134.999                 |
|            | 4,420.40                  | 4,313.56                  | MNCS_G            |           | -0.470     | 134.999                 |
|            | 4,496.81                  | 4,353.03                  | MNCS_H            |           | -0.470     | 134.999                 |
|            | 4,615.22                  | 4,396.12                  | MNCS_I            |           | -0.470     | 134.999                 |

| Plan Annotations |               |               |               |                                   |  |  |  |  |  |  |
|------------------|---------------|---------------|---------------|-----------------------------------|--|--|--|--|--|--|
| Measured         | Vertical      | Local Coor    | dinates       |                                   |  |  |  |  |  |  |
| Depth<br>(ft)    | Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Comment                           |  |  |  |  |  |  |
| 1,000.00         | 1,000.00      | 0.00          | 0.00          | KOP Begin 3°/100' build           |  |  |  |  |  |  |
| 1,325.30         | 1,323.73      | 14.40         | -23.59        | Begin 9.76° tangent               |  |  |  |  |  |  |
| 2,900.64         | 2,876.27      | 153.52        | -251.51       | Begin 3°/100' drop                |  |  |  |  |  |  |
| 3,225.94         | 3,200.00      | 167.92        | -275.10       | Begin vertical hold               |  |  |  |  |  |  |
| 3,869.84         | 3,843.90      | 167.92        | -275.10       | Begin 10°/100' build              |  |  |  |  |  |  |
| 4,569.84         | 4,382.30      | -98.65        | -8.52         | 70° @ 4569.84 MD 4382.31 TVD      |  |  |  |  |  |  |
| 4,774.53         | 4,416.84      | -240.53       | 133.37        | Begin 90.47° lateral              |  |  |  |  |  |  |
| 13,550.63        | 4,345.00      | -6,445.90     | 6,338.86      | PBHL/TD @ 13550.63 MD 4345.00 TVD |  |  |  |  |  |  |





DT Jul1724 v17 Database:

Company: **Enduring Resources LLC** 

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H Wellbore: Original Hole

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

US State Plane 1983 Map System: North American Datum 1983

Geo Datum: Map Zone: New Mexico Western Zone System Datum:

Mean Sea Level

Site Greater Lybrook (36, 37, 38 & 39)

Northing: 1,893,780.89 usft 36.20461900 Site Position: Latitude: 2,733,874.80 usft Lat/Long Easting: -107.79678300 From: Longitude:

**Position Uncertainty:** 0.00 ft Slot Radius: 13-3/16 "

Well Greater Lybrook Unit 36H, Surf loc: 196 FNL 1853 FWL Section 28-T23N-R09W

**Well Position** +N/-S 0.00 ft Northing: 1,893,780.89 usft Latitude: 36.20461900

+E/-W 0.00 ft Easting: 2,733,874.80 usft Longitude: -107.79678300

0.00 ft ft 6,529.00 ft **Position Uncertainty** Wellhead Elevation: Ground Level:

0.022 ° **Grid Convergence:** 

Wellbore Original Hole

Field Strength Model Name Declination Sample Date Dip Angle Magnetics (°) (°) (nT) IGRF2020 8/20/2024 8.479 62.646 48,965.94828031

Design rev0

Audit Notes:

Version: Phase: PI AN Tie On Depth: 0.00

Depth From (TVD) +N/-S Vertical Section: +E/-W Direction (ft) (ft) (ft) (°)

0.00 0.00 0.00 134.999

Plan Survey Tool Program 8/21/2024

Depth From Depth To

Survey (Wellbore) **Tool Name** (ft) (ft) Remarks

13,550.63 rev0 (Original Hole) 0.00 MWD

OWSG MWD - Standard





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39) Well:

Original Hole Wellbore: Design:

Greater Lybrook Unit 36H

rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

| Plan Sections             |                 |                |                           |               |               |                             |                            |                           |            |                     |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|---------------------|
| Measured<br>Depth<br>(ft) | Inclination (°) | Azimuth<br>(°) | Vertical<br>Depth<br>(ft) | +N/-S<br>(ft) | +E/-W<br>(ft) | Dogleg<br>Rate<br>(°/100ft) | Build<br>Rate<br>(°/100ft) | Turn<br>Rate<br>(°/100ft) | TFO<br>(°) | Target              |
| 0.00                      | 0.00            | 0.000          | 0.00                      | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 1,000.00                  | 0.00            | 0.000          | 1,000.00                  | 0.00          | 0.00          | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 1,325.30                  | 9.76            | 301.400        | 1,323.73                  | 14.40         | -23.59        | 3.00                        | 3.00                       | 0.00                      | 301.400    |                     |
| 2,900.64                  | 9.76            | 301.400        | 2,876.27                  | 153.52        | -251.51       | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 3,225.94                  | 0.00            | 0.000          | 3,200.00                  | 167.92        | -275.10       | 3.00                        | -3.00                      | 0.00                      | 180.000    |                     |
| 3,869.84                  | 0.00            | 0.000          | 3,843.90                  | 167.92        | -275.10       | 0.00                        | 0.00                       | 0.00                      | 0.000      |                     |
| 4,569.84                  | 70.00           | 134.999        | 4,382.30                  | -98.65        | -8.52         | 10.00                       | 10.00                      | 0.00                      | 134.999    |                     |
| 4,774.53                  | 90.47           | 134.999        | 4,416.84                  | -240.53       | 133.37        | 10.00                       | 10.00                      | 0.00                      | 0.001      |                     |
| 13,550.63                 | 90.47           | 134.999        | 4,345.00                  | -6,445.90     | 6,338.86      | 0.00                        | 0.00                       | 0.00                      | 0.000      | Greater Lybrook 36H |





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H Original Hole Wellbore:

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

| Design.                   | 1640                           |                    |                           |                |                    |                              |   |                            |                                |
|---------------------------|--------------------------------|--------------------|---------------------------|----------------|--------------------|------------------------------|---|----------------------------|--------------------------------|
| Planned Survey            | ,                              |                    |                           |                |                    |                              |   |                            |                                |
| Measured<br>Depth<br>(ft) | Inclination (°)                | 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                      |
| 0.00                      | 0.00                           | 0.000              | 0.00                      | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 75.00                     | 0.00                           | 0.000              | 75.00                     | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
|                           |                                | 0.000              | 73.00                     | 0.00           | 0.00               | 1,093,700.09                 | 2,733,074.00                            | 30.20401900                | -107.79070300                  |
| <b>Ojo Alan</b><br>100.00 | 0.00                           | 0.000              | 100.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 158.00                    | 0.00                           | 0.000              | 158.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| Kirtland                  | 0.00                           | 0.000              | 100.00                    | 0.00           | 0.00               | 1,000,100.00                 | 2,700,071.00                            | 00.20101000                | 107.70070000                   |
| 200.00                    | 0.00                           | 0.000              | 200.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 300.00                    | 0.00                           | 0.000              | 300.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 350.00                    | 0.00                           | 0.000              | 350.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 9-5/8" Si                 | urface Casing                  |                    |                           |                |                    |                              |   |                            |                                |
| 393.00                    | 0.00                           | 0.000              | 393.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| Fruitland                 | d                              |                    |                           |                |                    |                              |   |                            |                                |
| 400.00                    | 0.00                           | 0.000              | 400.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 500.00                    | 0.00                           | 0.000              | 500.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 600.00                    | 0.00                           | 0.000              | 600.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 700.00                    | 0.00                           | 0.000              | 700.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 783.00                    | 0.00                           | 0.000              | 783.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| Pictured                  |                                |                    |                           |                |                    |                              |   |                            |                                |
| 800.00                    | 0.00                           | 0.000              | 800.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 900.00                    | 0.00                           | 0.000              | 900.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| 948.00                    | 0.00                           | 0.000              | 948.00                    | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
| Lewis<br>1,000.00         | 0.00                           | 0.000              | 1,000.00                  | 0.00           | 0.00               | 1,893,780.89                 | 2,733,874.80                            | 36.20461900                | -107.79678300                  |
|                           |                                |                    | 1,000.00                  | 0.00           | 0.00               | 1,093,760.09                 | 2,733,674.60                            | 30.20401900                | -107.79070300                  |
| 1,100.00                  | gin <b>3°/100' bui</b><br>3.00 | 301.400            | 1,099.95                  | 1.36           | -2.23              | 1,893,782.25                 | 2,733,872.56                            | 36.20462275                | -107.79679057                  |
| 1,138.16                  | 4.14                           | 301.400            | 1,138.04                  | 2.60           | -4.26              | 1,893,783.49                 | 2,733,870.53                            | 36.20462615                | -107.79679744                  |
| Chacra_                   |                                |                    | .,                        |                |                    | .,,.                         | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                            |                                |
| 1,200.00                  | 6.00                           | 301.400            | 1,199.63                  | 5.45           | -8.93              | 1,893,786.34                 | 2,733,865.87                            | 36.20463398                | -107.79681326                  |
| 1,300.00                  | 9.00                           | 301.400            | 1,298.77                  | 12.25          | -20.07             | 1,893,793.14                 | 2,733,854.73                            | 36.20465267                | -107.79685101                  |
| 1,325.30                  | 9.76                           | 301.400            | 1,323.73                  | 14.40          | -23.59             | 1,893,795.29                 | 2,733,851.21                            | 36.20465858                | -107.79686293                  |
| Begin 9.                  | 76° tangent                    |                    |                           |                |                    |                              |   |                            |                                |
| 1,400.00                  | 9.76                           | 301.400            | 1,397.35                  | 21.00          | -34.40             | 1,893,801.88                 | 2,733,840.40                            | 36.20467671                | -107.79689956                  |
| 1,500.00                  | 9.76                           | 301.400            | 1,495.90                  | 29.83          | -48.87             | 1,893,810.71                 | 2,733,825.93                            | 36.20470099                | -107.79694859                  |
| 1,600.00                  | 9.76                           | 301.400            | 1,594.45                  | 38.66          | -63.33             | 1,893,819.55                 | 2,733,811.46                            | 36.20472526                | -107.79699762                  |
| 1,700.00                  | 9.76                           | 301.400            | 1,693.01                  | 47.49          | -77.80             | 1,893,828.38                 | 2,733,797.00                            | 36.20474954                | -107.79704665                  |
| 1,800.00                  | 9.76                           | 301.400            | 1,791.56                  | 56.32          | -92.27             | 1,893,837.21                 | 2,733,782.53                            | 36.20477381                | -107.79709568                  |
| 1,900.00                  | 9.76<br>9.76                   | 301.400<br>301.400 | 1,890.11                  | 65.15          | -106.74            | 1,893,846.04                 | 2,733,768.06                            | 36.20479809<br>36.20482236 | -107.79714471<br>-107.79719374 |
| 2,000.00<br>2,100.00      | 9.76                           | 301.400            | 1,988.67<br>2,087.22      | 73.98<br>82.81 | -121.21<br>-135.67 | 1,893,854.87<br>1,893,863.70 | 2,733,753.59<br>2,733,739.12            | 36.20484664                | -107.79719374                  |
| 2,157.97                  | 9.76                           | 301.400            | 2,144.35                  | 87.93          | -144.06            | 1,893,868.82                 | 2,733,739.12                            | 36.20486071                | -107.797272119                 |
|                           | ıse_Basal                      | 001.100            | 2,111.00                  | 07.00          | 111.00             | 1,000,000.02                 | 2,700,700.71                            | 00.20100011                | 101.110121110                  |
| 2,173.21                  | 9.76                           | 301.400            | 2,159.37                  | 89.28          | -146.27            | 1,893,870.17                 | 2,733,728.53                            | 36.20486441                | -107.79727866                  |
| Menefee                   |                                |                    | ,                         |                |                    | ,,-                          | ,,                                      |                            |                                |
| 2,200.00                  |                                | 301.400            | 2,185.77                  | 91.65          | -150.14            | 1,893,872.53                 | 2,733,724.66                            | 36.20487091                | -107.79729180                  |
| 2,300.00                  |                                | 301.400            | 2,284.33                  | 100.48         | -164.61            | 1,893,881.36                 | 2,733,710.19                            | 36.20489519                | -107.79734083                  |
| 2,400.00                  | 9.76                           | 301.400            | 2,382.88                  | 109.31         | -179.08            | 1,893,890.20                 | 2,733,695.72                            | 36.20491946                | -107.79738986                  |
| 2,500.00                  | 9.76                           | 301.400            | 2,481.43                  | 118.14         | -193.55            | 1,893,899.03                 | 2,733,681.25                            | 36.20494374                | -107.79743889                  |
| 2,600.00                  |                                | 301.400            | 2,579.98                  | 126.97         | -208.01            | 1,893,907.86                 | 2,733,666.78                            | 36.20496801                | -107.79748792                  |
| 2,700.00                  | 9.76                           | 301.400            | 2,678.54                  | 135.80         | -222.48            | 1,893,916.69                 | 2,733,652.32                            | 36.20499229                | -107.79753695                  |
| 2,800.00                  | 9.76                           | 301.400            | 2,777.09                  | 144.63         | -236.95            | 1,893,925.52                 | 2,733,637.85                            | 36.20501656                | -107.79758598                  |
| 2,900.64                  | 9.76                           | 301.400            | 2,876.27                  | 153.52         | -251.51            | 1,893,934.41                 | 2,733,623.29                            | 36.20504099                | -107.79763532                  |
| _                         | '/100' drop                    | 204 400            | 2.074.50                  | 160.07         | 060.74             | 1 002 044 05                 | 0.700.044.00                            | 26 20500440                | 107 70707005                   |
| 3,000.00                  | 6.78                           | 301.400            | 2,974.59                  | 160.97         | -263.71            | 1,893,941.85                 | 2,733,611.09                            | 36.20506146                | -107.79767665                  |





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

| Planned Survey            | ,                  |         |                           |               |               |                           |                          |               |               |
|---------------------------|--------------------|---------|---------------------------|---------------|---------------|---------------------------|--------------------------|---------------|---------------|
| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Azimuth | 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     |
| 2 400 00                  | 2.70               | 204 400 | 2.074.45                  | 405.70        |               | 4 000 040 04              | 0.700.000.04             | 20.00507402   |               |
| 3,100.00                  | 3.78               | 301.400 | 3,074.15                  | 165.76        | -271.56       | 1,893,946.64              | 2,733,603.24             | 36.20507463   | -107.79770325 |
| 3,200.00                  | 0.78               | 301.400 | 3,174.06                  | 167.83        | -274.95       | 1,893,948.72              | 2,733,599.85             | 36.20508032   | -107.79771475 |
| 3,209.51                  | 0.49               | 301.400 | 3,183.57                  | 167.88        | -275.04       | 1,893,948.77              | 2,733,599.76             | 36.20508047   | -107.79771505 |
| Point Lo                  | okout              |         |                           |               |               |                           |                          |               |               |
| 3,225.94                  | 0.00               | 0.000   | 3,200.00                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| Begin ve                  | rtical hold        |         |                           |               |               |                           |                          |               |               |
| 3,300.00                  | 0.00               | 0.000   | 3,274.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,374.51                  | 0.00               | 0.000   | 3,348.57                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| Mancos                    |                    |         |                           |               |               |                           |                          |               |               |
| 3,400.00                  | 0.00               | 0.000   | 3,374.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,500.00                  | 0.00               | 0.000   | 3,474.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,600.00                  | 0.00               | 0.000   | 3,574.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,700.00                  | 0.00               | 0.000   | 3,674.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,706.51                  | 0.00               | 0.000   | 3,680.57                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
|                           |                    | 0.000   | 3,000.37                  | 107.92        | -275.10       | 1,090,940.01              | 2,700,000.70             | 30.20300031   | -107.79771320 |
| MNCS_A                    | 0.00               | 0.000   | 2 774 06                  | 167.00        | 275 10        | 1 002 040 04              | 2 722 500 70             | 26 20500057   | 107 70771506  |
| 3,800.00                  |                    |         | 3,774.06                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| 3,805.51                  | 0.00               | 0.000   | 3,779.57                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| MNCS_E                    |                    |         |                           |               |               |                           |                          |               |               |
| 3,869.84                  | 0.00               | 0.000   | 3,843.90                  | 167.92        | -275.10       | 1,893,948.81              | 2,733,599.70             | 36.20508057   | -107.79771526 |
| Begin 10                  | °/100' build       |         |                           |               |               |                           |                          |               |               |
| 3,896.51                  | 2.67               | 134.999 | 3,870.56                  | 167.48        | -274.66       | 1,893,948.37              | 2,733,600.14             | 36.20507937   | -107.79771377 |
| MNCS_C                    | ;                  |         |                           |               |               |                           |                          |               |               |
| 3,900.00                  | 3.02               | 134.999 | 3,874.05                  | 167.36        | -274.54       | 1,893,948.25              | 2,733,600.26             | 36.20507903   | -107.79771336 |
| 3,936.63                  | 6.68               | 134.999 | 3,910.54                  | 165.17        | -272.35       | 1,893,946.06              | 2,733,602.45             | 36.20507302   | -107.79770594 |
| MNCS_C                    | ms                 |         |                           |               |               |                           |                          |               |               |
| 3,950.00                  | 8.02               | 134.999 | 3,923.80                  | 163.96        | -271.14       | 1,893,944.85              | 2,733,603.66             | 36.20506969   | -107.79770184 |
| 4,000.00                  | 13.02              | 134.999 | 3,972.95                  | 157.51        | -264.69       | 1,893,938.40              | 2,733,610.11             | 36.20505197   | -107.79767999 |
| 4,050.00                  | 18.02              | 134.999 | 4,021.11                  | 148.06        | -255.23       | 1,893,928.94              | 2,733,619.56             | 36.20502598   | -107.79764795 |
| 4,070.29                  | 20.04              | 134.999 | 4,040.29                  | 143.38        | -250.56       | 1,893,924.27              | 2,733,624.24             | 36.20501313   | -107.79763210 |
| MNCS I                    |                    |         | .,                        |               |               | .,,                       | _,, ,                    |               |               |
| 4,100.00                  | 23.02              | 134.999 | 4,067.92                  | 135.67        | -242.85       | 1,893,916.56              | 2,733,631.95             | 36.20499194   | -107.79760598 |
| 4,150.00                  | 28.02              | 134.999 | 4,113.03                  | 120.44        | -227.62       | 1,893,901.33              | 2,733,647.18             | 36.20495010   | -107.79755439 |
| 4,200.00                  | 33.02              | 134.999 | 4,1156.09                 | 102.50        | -209.67       | 1,893,883.38              | 2,733,665.12             | 36.20490078   | -107.79749358 |
| 4,242.22                  | 37.24              | 134.999 | 4,190.61                  | 85.33         | -192.50       | 1,893,866.21              | 2,733,682.30             | 36.20485359   | -107.79743539 |
|                           |                    | 134.999 | 4,190.01                  | 65.55         | -192.50       | 1,093,000.21              | 2,733,002.30             | 30.20403339   | -107.79743339 |
| MNCS_E                    |                    | 404.000 | 4 400 70                  | 04.00         | 400.44        | 4 000 000 05              | 0.700.005.00             | 00 00 40 4400 | 407 70740400  |
| 4,250.00                  | 38.02              | 134.999 | 4,196.78                  | 81.96         | -189.14       | 1,893,862.85              | 2,733,685.66             | 36.20484436   | -107.79742400 |
| 4,300.00                  | 43.02              | 134.999 | 4,234.78                  | 59.00         | -166.18       | 1,893,839.89              | 2,733,708.62             | 36.20478126   | -107.79734620 |
| 4,310.31                  | 44.05              | 134.999 | 4,242.25                  | 53.98         | -161.16       | 1,893,834.87              | 2,733,713.64             | 36.20476746   | -107.79732919 |
| MNCS_F                    |                    |         |                           |               |               |                           |                          |               |               |
| 4,350.00                  | 48.02              | 134.999 | 4,269.80                  | 33.79         | -140.96       | 1,893,814.67              | 2,733,733.84             | 36.20471196   | -107.79726076 |
| 4,400.00                  | 53.02              | 134.999 | 4,301.58                  | 6.51          | -113.68       | 1,893,787.40              | 2,733,761.11             | 36.20463700   | -107.79716833 |
| 4,420.40                  | 55.06              | 134.999 | 4,313.56                  | -5.16         | -102.01       | 1,893,775.72              | 2,733,772.79             | 36.20460492   | -107.79712877 |
| MNCS_C                    | 3                  |         |                           |               |               |                           |                          |               |               |
| 4,450.00                  | 58.02              | 134.999 | 4,329.88                  | -22.62        | -84.55        | 1,893,758.26              | 2,733,790.25             | 36.20455694   | -107.79706961 |
| 4,496.81                  | 62.70              | 134.999 | 4,353.03                  | -51.38        | -55.79        | 1,893,729.51              | 2,733,819.01             | 36.20447791   | -107.79697217 |
| MNCS H                    | ı                  |         |                           |               |               |                           |                          |               |               |
| 4,500.00                  | 63.02              | 134.999 | 4,354.48                  | -53.39        | -53.78        | 1,893,727.50              | 2,733,821.02             | 36.20447239   | -107.79696536 |
| 4,550.00                  | 68.02              | 134.999 | 4,375.20                  | -85.56        | -21.62        | 1,893,695.33              | 2,733,853.18             | 36.20438399   | -107.79685637 |
| 4,569.84                  | 70.00              | 134.999 | 4,382.30                  | -98.65        | -8.52         | 1,893,682.24              | 2,733,866.28             | 36.20434801   | -107.79681200 |
| ,                         | 69.84 MD 438       |         | ,                         |               |               | , ,                       | ,,                       |               |               |
| 4,600.00                  | 73.02              | 134.999 | 4,391.87                  | -118.88       | 11.71         | 1,893,662.01              | 2,733,886.50             | 36.20429243   | -107.79674347 |
| 4,615.22                  | 74.54              | 134.999 | 4,391.07                  | -129.21       | 22.04         | 1,893,651.68              | 2,733,896.84             | 36.20426402   | -107.79670845 |
|                           | 14.04              | 104.555 | 7,030.12                  | -123.21       | ZZ.U4         | 1,000,001.00              | 2,700,000.04             | JU.2U42U4U2   | -107.73070043 |
| MNCS_I                    |                    |         |                           |               |               |                           |                          |               |               |





DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39) Well: Greater Lybrook Unit 36H

Original Hole Wellbore:

Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

| Map  | Design.        | 1640  |         |          |           |          |              |              |             |               |
|--|----------------|-------|---------|----------|-----------|----------|--------------|--------------|-------------|---------------|
| Depth   Inclination   Azimuth   Depth   Inclination   Azimuth   Depth   Inclination    | Planned Survey |       |         |          |           |          |              |              |             |               |
| 4,650.00 78.02 134.999 4,404.37 -153.10 45.93 1,893,627.79 2,733,920.72 36.20419838 -10.77.9662752 4,700.00 83.02 134.999 4,416.51 -167.96 80.79 1,893,562.93 2,733,950.59 36.20419838 -10.77.9660403 7° Intermediate Casing 4,750.00 88.02 134.999 4,416.51 -223.19 116.02 1,893,567.70 2,733,990.82 36.20402547 -10.77.9663403 4,774.53 90.47 134.999 4,416.84 -240.53 133.37 1,893,640.36 2,734,008.16 36.20395810 -10.77.9633125 860.00 90.47 134.999 4,416.81 -322.5 25.20.9 1,893,451.84 2,734,068.87 36.20395860 -10.77.9633125 860.00 90.47 134.999 4,416.81 -322.5 25.20.9 1,893,451.84 2,734,068.87 36.20395860 -10.77.9637055 5.00.00 90.47 134.999 4,416.81 -322.5 25.20.9 1,893,451.84 2,734,068.87 36.20395860 -10.77.9637055 5.00.00 90.47 134.999 4,416.81 -322.5 25.20.9 1,893,451.84 2,734,068.87 36.20395860 -10.77.9697073 5.00.00 90.47 134.999 4,416.31 -322.5 25.20.9 1,893,451.84 2,734,068.87 36.20395860 -10.77.9697073 5.00.00 90.47 134.999 4,416.34 99. 369.96 292.80 1,893,369.93 2,734,167.5 9 36.2031997 -10.77.99579107 5.00.00 90.47 134.999 4,413.36 541.37 434.21 1,893,235.52 2,734.390.01 36.20313134 -10.77.9697107 5.00.00 90.47 134.999 4,411.54 50.00 5.00 5.00 5.00 5.00 5.00 5.00  | Depth          |       |         | Depth    |           |          | Northing     | Easting      | Latituda    | Longitude     |
| 4,700.00 83.02 134.999 4,416.07 2-(16.11) 108.85 189.564.87 2,733.996.59 32.20402574 7107.79641302 7107.79641302 7107.79641302 86.02 134.999 4,416.91 -223.19 116.02 1,893.564.97 2,733.996.80 36.20402575 -107.79650900 4,714.53 90.47 134.999 4,416.81 -223.19 116.02 1,893.567.70 2,733.996.82 36.20402575 -107.79650900 4,774.53 90.47 134.999 4,416.81 -223.19 116.02 1,893.540.36 2,734.008.16 36.20395810 -107.79633125 86.00 9.04.7 134.999 4,416.81 -329.25 222.09 1,893.540.36 2,734.008.16 36.20395810 -107.79633125 86.00 9.04.7 134.999 4,416.81 -329.25 222.09 1,893.361.92 2,734.008.18 36.2039580 -107.79630005 5.00 9.04.7 134.999 4,416.81 -329.25 222.09 1,893.361.92 2,734.4068.89 36.20371428 9.00 9.04.7 134.999 4,414.99 -399.96 22.20 1,893.361.92 2,734.4068.89 36.20371428 9.00 9.04.7 134.999 4,441.91 -470.67 36.350 1.883.310.22 2,734.208.30 36.20339555 -107.78556149 5.200.00 9.04.7 134.999 4,416.38 -441.71 -470.67 36.350 1.883.310.22 2,734.308.30 36.20339555 -107.78556149 5.200.00 9.04.7 134.999 4,417.2 -482.79 36.00 5.00 4.7 134.999 4,417.2 -482.79 36.500.00 9.04.7 134.999 4,417.2 -482.79 36.500.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 66.34 1.883.302.2 2,734.90.72 36.20259102 -107.78453527 5.500.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,417.2 -482.79 37.555.00 5.00 9.04.7 134.999 4,410.00 -422.20 7.77 5.00 5.00 9.04.7 134.999 4,410.90 -422.20 7.77 5.00 5.00 9.04 7.00 9.04 7.00 9.04 7.00 9.00 9.04 7.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00   |                |       |         |          |           |          |              |              |             | -             |
| Timbermedital Casing 4779.04 # 870.0 134.999   | · ·            |       |         |          |           |          |              |              |             |               |
| Tintermediate Casing   4.75 0.0  |                |       |         |          |           |          |              |              |             |               |
| 4,750,00 8 80.02 134,999 4,416,51 -223.19 116,02 1,893,557,70 2,733,990.02 36,209,000,75 1177,983,7125    Bogin 90,47* interial  |                |       |         | 4,416.07 | -216.01   | 108.85   | 1,893,564.87 | 2,733,983.64 | 36.20402547 | -107.79641433 |
| A774-55   Poglin 90 A7*   134-999   4,416-84   -240.53   133.37   1,893.540.36   2,734.008.16   38.20398810   +107.79633125  |                |       | •       | 4 440 54 | 222.40    | 440.00   | 4 000 557 70 | 0.700.000.00 | 20.00400575 | 407 7000004   |
| Regin 90.47* Interior  | · ·            |       |         |          |           |          |              |              |             |               |
| 4,800.00 90.47 134,999 4,416,63 225 222 09 1838,345146 2,734,026.17 36,20390860 -107.79627025 5,000.00 90.47 134,999 4,414,91 36,000 90.47 134,999 4,413,36 -541,37 434,21 1838,329,52 2,734,383 30 36,20351967 -107.7955149 5,200.00 90.47 134,999 4,413,36 -541,37 434,21 1838,239,52 2,734,379,72 36,20313134 -107.7955149 1,340,00 90.47 134,999 4,412,54 -612,08 504,92 1,893,316,831 2,734,379,72 36,20313134 -107.7955149 1,340,00 90.47 134,999 4,410,90 -753,550 646,34 1893,310,34 2,734,379,72 36,20233702 -107.79450723 1,340,00 90.47 134,999 4,410,90 -753,550 646,34 1893,00,739 2,734,521,14 36,2023407 -107.79453362 5,500,00 90.47 134,999 4,400,26 -894,91 797.76 18,892,966 99 2,734,591,83 36,20235407 -107.79443362 5,500,00 90.47 134,999 4,400,26 -894,91 797.76 18,892,966 99 2,734,591,83 36,20235407 -107.79443582 5,500,00 90.47 134,999 4,400,26 -894,91 797.76 18,892,966 99 2,734,591,83 36,20235407 -107.79443582 5,500,00 90.47 134,999 4,400,26 -894,91 797.76 18,892,966 99 2,734,591,83 36,20235407 -107.79443582 5,500,00 90.47 134,999 4,400,26 -894,91 797.76 18,892,866 99 2,734,591,83 36,20235407 -107.79344369 5,500,00 90.47 134,999 4,407,63 -10,36,33 99,18 18,92,641,56 2,734,662,56 36,200,00 90.47 134,999 4,405,59 -1,177.74 1,000,59 18,92,641,56 2,734,803,97 36,20177111 -107.79339635 6,000,00 90.47 134,999 4,405,51 -1,184,44 5,114,13 18,92,24 2,735,166,10 36,2018815 1-107.79315458 6,200,00 90.47 134,999 4,405,51 -1,184,44 5,114,13 18,92,24 2,735,161,10 36,2018815 1-107.79315568 6,200,00 90.47 134,999 4,405,51 -1,184,44 5,114,13 18,92,24 2,735,161,10 36,2018815 1-107.79315678 6,200,00 90.47 134,999 4,405,53 -1,319,16 12,120 1 18,92,24 2,735,161,10 36,2018815 1-107.79315678 6,200,00 90.47 134,999 4,405,53 -1,319,16 12,120 1 18,92,300,30 2,735,510,10 36,2018815 1-107.79315786 6,200,00 90.47 134,999 4,405,53 -1,319,16 12,120 1 18,92,300,30 2,735,510,10 36,2018815 1-107.79315786 6,200,00 90.47 134,999 4,405,53 -1,319,16 12,120 1 18,92,300,30 2,735,540,35 36,2009693 1-107.79315786 6,200,00 90.47 134,999 4,300,40 2,300,40 2,300,40 |                |       | 134.999 | 4,410.04 | -240.53   | 133.37   | 1,093,340.30 | 2,734,000.10 | 30.20393610 | -107.79033125 |
| 4,900.00   | _              |       | 13/ 000 | 4 416 63 | 258 54    | 151 30   | 1 803 522 34 | 2 734 026 17 | 36 30300860 | 107 70627023  |
| 5,000,00   |                |       |         |          |           |          |              | , ,          |             |               |
| 5,000,00         90,47         134,999         4,414,17         470,67         363,50         1,893,310,22         2,734,238,30         362,033,2565         -107,7955149           5,200,00         90,47         134,999         4,413,36         -541,37         434,21         1,893,295         2,734,379,72         38,2023,702         -107,79519234           5,400,00         90,47         134,999         4,410,50         -753,50         646,34         1,893,081,0         2,734,450,43         38,20274070         -107,79483297           5,500,00         90,47         134,999         4,410,00         -824,20         717,05         1,892,996,69         2,734,591,85         36,20254639         -107,79485392           5,500,00         90,47         134,999         4,400,26         -894,91         787,76         1,892,996,69         2,734,591,85         36,20215975         -107,79414506           5,500,00         90,47         134,999         4,406,81         -1,107,03         39,88         2,734,840,93         36,20196543         -107,79333746           6,000,00         90,47         134,999         4,406,81         -1,107,03         39,98         2,734,844,56         2,734,840,39         36,2015779         -107,79333555           6,200,00         90,47   |                |       |         |          |           |          |              |              |             |               |
| 5,200,00         90,47         134,999         4,413,36         -541,37         434,21         1,893,239,52         2,734,309,01         38,20313134         -107,79531192           5,200,00         90,47         134,999         4,411,72         -682,79         575,63         1,893,098,10         2,734,450,43         38,20234270         -107,79483277           5,500,00         90,47         134,999         4,410,08         -753,50         646,54         1,893,027,39         2,734,521,14         38,20254079         -107,794183267           5,500,00         90,47         134,999         4,400,86         -894,21         787,76         1,892,895,69         2,734,662,56         36,20215975         -107,794183626           5,500,00         90,47         134,999         4,406,84         -896,62         884,71         1,892,815,127         2,734,803,36         36,20196643         -107,793141405           5,500,00         90,47         134,999         4,406,81         -1,107,39394244         1,892,813,88         2,734,803,37         36,20177111         -107,793315578           6,200,00         90,47         134,999         4,405,17         -1,248,45         1,141,30         1,892,533,36         2,735,088         36,20118815         -107,793315578           6,200,00  |                |       |         |          |           |          |              |              |             |               |
| 5,300 00         90,47         134,999         4,412,54         -612,08         504,92         1,883,168,81         2,734,379,72         36,20273270         -107,79852247           5,500,00         90,47         134,999         4,410,90         -753,50         646,34         1,893,027,39         2,734,591,18         36,20254839         -107,79459319           5,000,00         90,47         134,999         4,410,90         -824,20         717,05         1,892,956,69         2,734,591,85         36,20235407         -107,79459319           5,000,00         90,47         134,999         4,409,26         -804,91         787,76         1,892,865,98         2,734,591,85         36,20215975         -107,794154160         5,900,00         90,47         134,999         4,407,63         -1,036,33         291,81         1,892,744,56         2,734,803,97         36,2017711         -107,79315878         6,000,00         90,47         134,999         4,405,99         -1,177,74         1,070,59         1,892,603,15         2,734,944,88         36,2015679         -107,79315878         6,000,00         90,47         134,999         4,405,17         -1,248,45         -1,413,00         1,892,603,15         2,734,945,39         36,2018815         -107,79315878         6,200,00         90,47         134,999   |                |       |         |          |           |          |              |              |             |               |
| 5,500.00         90.47         134.999         4.410.90         -753.50         646.34         1,893.027.39         2,734.521.14         36.2025439         -107.794533182           5,600.00         90.47         134.999         4,409.26         -894.91         787.76         1,892.865.98         2,734.682.56         36.20215975         -107.794174145           5,900.00         90.47         134.999         4,408.24         -965.62         858.47         1,892.815.27         2,734.802.36         36.2015975         -107.7931746           6,000.00         90.47         134.999         4,406.81         -1,107.03         999.89         1,892.673.56         2,734.874.68         36.20157679         -107.79339525           6,200.00         90.47         134.999         4,405.85         -1,177.74         1,070.59         1,892.603.15         2,734.874.68         36.20158247         -107.79339525           6,200.00         90.47         134.999         4,403.55         -1,319.16         1,212.01         1,892.2461.73         2,735.157.52         36.20018815         -107.79243710           6,500.00         90.47         134.999         4,403.55         -1,389.4         1,222.72         1,892.391.03         2,735.598.94         36.20006018         -107.79243710  |                |       |         |          |           |          |              |              |             |               |
| 5,600.00         90.47         134.999         4.410.08         -824.20         717.05         1,892.966.69         2,734.591.85         38.20235407         -107.79413626           5,700.00         90.47         134.999         4,409.26         -894.91         787.76         1,892.815.27         2,734.733.26         36.20196543         -107.7931741405           5,900.00         90.47         134.999         4,406.84         -865.62         858.47         1,892.815.27         2,734.733.26         36.20196543         -107.79387484           6,000.00         90.47         134.999         4,406.81         1,107.03         399.89         1,892.815.27         2,734.873.26         36.201767679         107.79339578           6,100.00         90.47         134.999         4,405.17         -1,248.45         1,141.30         1,892.630.15         2,734.945.39         36.20138247         -107.792197626           6,500.00         90.47         134.999         4,404.35         -1,319.16         1,212.01         1,892.461.73         2,735.068.81         36.20099383         -107.79248766           6,500.00         90.47         134.999         4,402.71         -1,660.79         36.201664         -107.79248764           6,600.00         90.47         134.999         4,400   |                | 90.47 |         |          |           |          |              |              |             |               |
| 5,700.00         90.47         134.999         4,409.26         .894.91         787.76         1,892,815.27         2,734,682.56         36.20196543         -107.79411405         5,900.00         90.47         134.999         4,408.43         -1,036.33         929.18         1,882,815.27         2,734,803.97         36.20177711         -107.79387448         6,000.00         90.47         134.999         4,406.81         -1,107.03         999.89         1,882,673.66         2,734,874.88         36.20157679         -107.79339535         6,100.00         90.47         134.999         4,405.91         -1,107.03         999.89         1,882,673.66         2,734,845.39         36.20157679         -107.79339535         6,200.00         90.47         134.999         4,405.17         -1,248.45         1,141.30         1,892,632.44         2,735,016.10         36.20118815         -107.792971622         6,300.00         90.47         134.999         4,404.35         -1,319.16         1,221.20         1,882,391.33         2,735,167.52         36.200079950         -107.79297162         6,500.00         90.47         134.999         4,401.71         -1,460.57         1,383.43         1,882,274.61.73         2,735,686.81         36.2006188         -107.79291791         6,500.00         90.47         134.999         4,401.08         -1,601.99   | 5,500.00       | 90.47 | 134.999 | 4,410.90 | -753.50   | 646.34   | 1,893,027.39 | 2,734,521.14 | 36.20254839 | -107.79459319 |
| 5,800.00         90.47         134.999         4,408.44         -966.62         858.47         1,892,744.56         2,734,733.26         36.20196543         -107.79387448           5,900.00         90.47         134.999         4,406.81         -1,107.03         999.89         1,892,744.56         2,734,874.68         36.20157679         -107.79338558           6,000.00         90.47         134.999         4,405.99         -1,177.74         1,070.59         1,892,603.65         2,734,845.39         36.20138247         -107.793185578           6,200.00         90.47         134.999         4,405.51         -1,248.45         -1,413.01         1,892,603.16         2,734,945.39         36.20138247         -107.793185578           6,300.00         90.47         134.999         4,403.5         -1,319.16         1,212.01         1,892,391.03         2,735,157.52         36.20099383         -107.7926766           6,500.00         90.47         134.999         4,401.90         -1,531.28         1,424.14         1,892,320.32         2,735,288.23         36.20060518         -107.79219754           6,500.00         90.47         134.999         4,401.90         -1,601.99         1,948.45         1,892,189.00         2,735,289.94         36.20041086         -107.791971842   | 5,600.00       | 90.47 | 134.999 | 4,410.08 | -824.20   |          | 1,892,956.69 | 2,734,591.85 | 36.20235407 | -107.79435362 |
| 6,000.00 90.47 134.999 4,407.63 -1,036.33 999.89 1,892,673.86 2,734,803.97 36,20177111 -107,79363492 6,000.00 90.47 134.999 4,406.81 -1,107.07 999.89 1,892,673.86 2,734,874.68 36,20156767 -107,79335578 6,200.00 90.47 134.999 4,405.17 -1,248.45 1,141.30 1,892,532.44 2,735,016.10 36,20118815 -107,792916526 6,300.00 90.47 134.999 4,404.53 1,319.16 1,212.01 1,892,461.73 2,735,016.10 36,20118815 -107,79291666 6,400.00 90.47 134.999 4,403.53 -1,389.86 1,282.72 1,892,391.03 2,735,167.52 36,2009383 -107,79267666 6,500.00 90.47 134.999 4,403.53 -1,389.86 1,282.72 1,892,391.03 2,735,167.52 36,2009350 -107,79243710 6,500.00 90.47 134.999 4,401.08 1,601.99 1,494.85 1,892,403.20 2,735,228.23 36,20060518 -107,79216766 6,600.00 90.47 134.999 4,401.08 -1,651.69 1,494.85 1,892,178.90 2,735,369.64 36,20021654 -107,79117842 6,800.00 90.47 134.999 4,400.26 -1,672.69 1,565.56 1,892,108.20 2,735,540.35 36,20002221 -107,79147866 6,900.00 90.47 134.999 4,399.84 2,194.40 1,743.40 1,636.27 1,892,374.99 2,735,511.06 36,19982769 -107,79123950 7,000.00 90.47 134.999 4,397.80 1,884.85 1,892,178.90 2,735,581.77 36,19963356 -107,79099757 7,100.00 90.47 134.999 4,397.80 1,884.85 1,777.69 1,881,196.78 2,735,581.77 36,19963356 -107,79099759 7,100.00 90.47 134.999 4,397.80 1,884.85 1,777.69 1,881,196.78 2,735,581.77 36,19963356 -107,79099750 7,000.00 90.47 134.999 4,397.80 1,884.85 1,777.69 1,881,196.78 2,735,581.77 36,19963356 -107,79090154 7,200.00 90.47 134.999 4,398.62 -1,844.41 1,706.88 1,881,186.32 2,735,581.77 36,19963356 -107,79090154 7,200.00 90.47 134.999 4,398.62 -1,844.89 1,891.85 2,735,581.77 36,19963356 -107,79090154 7,500.00 90.47 134.999 4,398.85 2,2167.65 2,060.62 1,881,181.32 2,735,783.90 36,19963956 -107,79096102 7,700.00 90.47 134.999 4,398.85 2,2167.65 2,060.62 1,881,181.32 2,735,783.90 36,19963956 -107,78966199 7,600.00 90.47 134.999 4,398.89 2,239.90 2,201.94 1,881,181.29 2,735,886.61 36,1998396 -107,78986194 7,700.00 90.47 134.999 4,398.80 2,238.35 2,118.15 1,881,189.10 2,2736,895.53 36,19730162 -107,78896394 7,700.00 90.4 | · ·            |       |         |          |           |          | , ,          |              |             |               |
| 6,000.00 90.47 134.999 4,406.81 -1,107.03 999.89 1,892.673.86 2,734,874.68 36.20157679 -107.79339535 6,100.00 90.47 134.999 4,405.99 -1,177.74 1,070.59 1,892.603.15 2,734,945.39 36.20138247 -107.79315578 6,200.00 90.47 134.999 4,404.55 -1,319.16 1,212.01 1,892.522.44 2,735,016.10 36.20138247 -107.79216728 6,300.00 90.47 134.999 4,404.55 -1,319.16 1,212.01 1,892.461.73 2,735,086.81 36.20093333 -107.79267666 6,400.00 90.47 134.999 4,405.53 -1,389.86 1,282.72 1,892.391.03 2,735,157.52 36.20079950 -107.792476740 6,500.00 90.47 134.999 4,401.90 -1,531.28 1,424.14 1,892.249.61 2,735.298.94 36.20041086 -107.7915794 6,600.00 90.47 134.999 4,401.90 -1,531.28 1,424.14 1,892.249.61 2,735.298.94 36.20041086 -107.79117842 6,800.00 90.47 134.999 4,400.26 -1,672.69 1,565.56 1,892.108.20 2,735.406.84 36.20021654 -107.79117842 6,800.00 90.47 134.999 4,398.62 -1,814.31 1,706.98 1,892.108.20 2,735.406.35 36.20072221 -107.79117842 6,800.00 90.47 134.999 4,398.62 -1,814.31 1,706.98 1,891.896.80 2,735.581.07 36.19962789 -107.79123975 7,100.00 90.47 134.999 4,398.62 -1,814.31 1,706.98 1,891.896.07 2,735.652.48 36.19943924 -107.79012930 7,000.00 90.47 134.999 4,398.63 -1,895.52 1,848.89 1,891.825.37 2,735.723.19 36.19962399 -107.7902810 7,200.00 90.47 134.999 4,396.59 1,896.89 1,891.806.07 2,735.652.48 36.19943924 -107.7905206 7,200.00 90.47 134.999 4,396.59 1,955.52 1,848.39 1,891.825.37 2,735.723.19 36.19962491 -107.7905208 7,300.00 90.47 134.999 4,396.59 1,955.52 1,848.89 1,891.825.37 2,735.723.19 36.1996366 -107.7909975 7,000.00 90.47 134.999 4,396.59 1,955.52 1,848.39 1,891.825.37 2,735.723.19 36.1996366 -107.7905208 7,000.00 90.47 134.999 4,396.59 1,955.52 1,848.39 1,891.825.37 2,735.935.32 36.19866193 -107.7905208 7,000.00 90.47 134.999 4,396.59 1,955.52 1,848.39 1,891.825.37 2,735.935.32 36.19866193 -107.78980139 7,000.00 90.47 134.999 4,396.59 1,956.50 2,000.52 1,891.819.147.83 2,735.935.32 36.19866193 -107.78980139 7,000.00 90.47 134.999 4,398.62 1,22.286.50 2,100.52 1,891.819.147.83 2,736.505.03 36.19866193 -107.78980230 7, |                |       |         | ,        |           |          |              |              |             |               |
| 6,100.00 90.47 134.999 4,405.99 -1,177.74 1,070.59 1,892.633.15 2,734.945.39 36.20138247 -107.79216526 6,200.00 90.47 134.999 4,405.17 -1,248.45 1,141.30 1,892.632.44 2,735.086.81 36.20099383 -107.79267666 6,400.00 90.47 134.999 4,403.53 -1,319.16 1,212.01 1,892.461.73 2,735.086.81 36.20099383 -107.79267666 6,400.00 90.47 134.999 4,403.53 -1,319.16 1,227.2 1,892.391.03 2,735.167.52 36.20079950 -107.79243710 6,500.00 90.47 134.999 4,403.53 -1,319.16 1,227.2 1,892.391.03 2,735.167.52 36.20079950 -107.79243710 6,600.00 90.47 134.999 4,401.08 -1,651.28 1,424.14 1,892.249.61 2,735.298.94 36.20041086 -107.79197598 6,700.00 90.47 134.999 4,401.08 -1,601.99 1,494.85 1,892.178.90 2,735.369.40 36.2001654 -107.79171842 6,800.00 90.47 134.999 4,309.44 -1,743.40 1,636.27 1,892.037.49 2,735.511.06 36.19982789 -107.79123830 7,000.00 90.47 134.999 4,398.62 -1,841.11 1,706.98 1,891.986.78 2,735.562.48 36.19943924 -107.79076020 7,200.00 90.47 134.999 4,398.62 -1,881.80 1,891.806.78 2,735.562.48 36.19943924 -107.79076020 7,200.00 90.47 134.999 4,396.89 -1,895.52 1,884.39 1,891.863.95 2,735.793.90 36.1994491 -107.79052064 7,300.00 90.47 134.999 4,396.17 -2,026.23 1,919.10 1,891.764.66 2,735.793.90 36.1994491 -107.79052064 7,500.00 90.47 134.999 4,396.17 -2,026.23 1,919.10 1,891.764.66 2,735.793.90 36.1994491 -107.79052064 7,500.00 90.47 134.999 4,396.17 -2,026.23 1,919.10 1,891.764.66 2,735.793.90 36.1996508 -107.7906154 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,989.81 1,891.863.95 2,735.783.90 36.19866193 -107.78906108 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,989.81 1,891.863.95 2,735.786.61 36.1986366 -107.7906154 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,899.81 1,891.863.95 2,735.786.61 36.1986786 -107.78962109 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,899.81 1,891.801.324 2,735.935.32 36.19866193 -107.78960180 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,899.81 1,891.801.324 2,735.635.52 36.19866193 -107.789602108 7,500.00 90.47 134.999 4,395.35 -2,086.94 1,899.81 1,891.801.90 2,736.586.61 36.19867860 -107.789602108 7, | ,              |       |         |          | ,         |          |              |              |             |               |
| 6,200.00 90.47 134.999 4,404.35 1,319.16 1,212.01 1,892.461.73 2,735.086.81 36.20099383 -107.79287666 6,400.00 90.47 134.999 4,404.35 1,319.16 1,212.01 1,892.461.73 2,735.086.81 36.20099950 -107.79243710 6,500.00 90.47 134.999 4,402.71 -1,460.57 1,353.43 1,892.320.32 2,735.282.82 36.20079950 -107.79243710 6,500.00 90.47 134.999 4,401.90 -1,531.28 1,424.14 1,892.249.61 2,735.288.94 36.20041086 -107.79195788 6,700.00 90.47 134.999 4,401.09 -1,531.28 1,424.14 1,892.249.61 2,735.288.94 36.20041086 -107.79195788 6,800.00 90.47 134.999 4,400.26 -1,672.69 1,565.56 1,892.178.90 2,735.369.64 36.20021654 -107.79147886 6,900.00 90.47 134.999 4,399.44 -1,743.40 1,636.27 1,892.037.49 2,735.511.06 36.19982789 -107.79123930 7,000.00 90.47 134.999 4,399.62 -1,814.11 1,706.98 1,891.966.78 2,735.561.77 36.19963356 -107.79096975 7,100.00 90.47 134.999 4,396.89 -1,955.52 1,848.39 1,891.851.85 2,735.562.48 36.19943924 -107.790762026 7,200.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891.853.77 2,735.673.19 36.19982789 -107.79022064 7,300.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891.851.85 37 2,735.673.19 36.19982491 -107.79025064 7,500.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891.855.37 2,735.673.19 36.19982491 -107.79025064 7,500.00 90.47 134.999 4,395.35 -2,066.94 1,999.81 1,891.863.95 2,735.864.61 36.19885626 -107.7902419 7,400.00 90.47 134.999 4,395.35 -2,066.94 1,999.81 1,891.863.95 2,735.864.61 36.19885626 -107.7902419 7,400.00 90.47 134.999 4,395.35 -2,166.50 2,060.52 1,891.61 1,291.754.66 2,735.793.90 36.19905058 -107.7902419 7,400.00 90.47 134.999 4,394.53 -2,167.65 2,060.52 1,891.61 1,291.754.66 2,735.793.90 36.1996058 -107.78980199 7,400.00 90.47 134.999 4,394.53 -2,167.65 2,060.52 1,891.61 1,991.01 2,736.764.14 36.1986506 -107.78980199 7,400.00 90.47 134.999 4,394.53 -2,167.65 2,060.52 1,891.61 1,991.01 2,736.764.14 36.1986506 -107.78980199 7,400.00 90.47 134.999 4,394.53 -2,167.65 2,060.62 1,891.61 1,991.01 2,736.764.14 36.1986506 -107.78980199 7,400.00 90.47 134.999 4,394.53 -2,166.69 2,1691.14 1,1891.65 |                |       |         |          |           |          |              |              |             |               |
| 6,300.00 90.47 134.999 4,404.35 -1,319.16 1,212.01 1,892,461.73 2,735,086.81 36.20099383 -107.79267666 6,400.00 90.47 134.999 4,403.55 -1,389.86 1,282.72 1,892,391.03 2,735,157.52 36.20079550 -107.79243710 6,500.00 90.47 134.999 4,401.09 -1,531.28 1,424.14 1,892,249.61 2,735,298.94 36.20041086 -107.79195798 6,700.00 90.47 134.999 4,401.09 -1,601.99 1,494.85 1,892,178.90 2,735,369.64 36.20021654 -107.7917917842 6,800.00 90.47 134.999 4,401.08 -1,601.99 1,494.85 1,892,178.90 2,735,369.64 36.20021624 -107.79171842 6,800.00 90.47 134.999 4,401.08 -1,672.69 1,565.55 1,892,108.20 2,735,404.35 36.20002221 -107.79171842 6,800.00 90.47 134.999 4,398.62 -1,814.11 1,706.98 1,891,966.78 2,735,581.77 36.19963356 -107.79099975 7,100.00 90.47 134.999 4,398.62 -1,814.11 1,706.98 1,891,966.78 2,735,581.77 36.19963356 -107.790990975 7,200.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,825.37 2,735,723.19 36.19924491 -107.79052064 7,300.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,825.37 2,735,723.19 36.19924491 -107.79052064 7,300.00 90.47 134.999 4,395.35 2,096.94 1,999.81 1,891,683.95 2,735,884.61 36.19885626 -107.79002109 7,400.00 90.47 134.999 4,395.35 2,096.94 1,999.81 1,891,683.95 2,735,884.61 36.19885626 -107.79004154 7,500.00 90.47 134.999 4,395.35 2,096.94 1,999.81 1,891,683.95 2,735,884.61 36.19885626 -107.79004154 7,500.00 90.47 134.999 4,395.35 2,206.29 1,199.10 1,891,754.65 2,736,006.02 36.19866193 -107.7908109 7,600.00 90.47 134.999 4,395.39 2,2309.06 2,201.94 1,891,414.32 2,736,006.02 36.19846760 -107.78980199 7,800.00 90.47 134.999 4,395.39 2,2309.06 2,201.94 1,891,414.32 2,736,006.02 36.19846760 -107.78980199 7,800.00 90.47 134.999 4,395.39 2,239.06 2,201.94 1,891,414.32 2,736,006.02 36.19846760 -107.78980386 7,900.00 90.47 134.999 4,395.49 4,395 |                |       |         |          |           |          |              | , ,          |             |               |
| 6,400.00         90.47         134.999         4,403.53         -1,389.86         1,282.72         1,892.391.03         2,735,157.52         36.20079950         -107.79243710           6,500.00         90.47         134.999         4,401.01         -1,531.28         1,424.14         1,892,249.61         2,735,289.94         36.20041086         -107.799195798           6,700.00         90.47         134.999         4,401.08         -1,601.99         1,494.85         1,892,178.90         2,735,369.64         36.20021654         -107.79171842           6,800.00         90.47         134.999         4,400.26         -1,672.69         1,565.56         1,892,178.90         2,735,369.64         36.20022221         -107.79147846           6,900.00         90.47         134.999         4,399.44         -1,743.40         1,662.27         1,892,037.49         2,735,581.05         36.20002221         -107.7917886           7,000.00         90.47         134.999         4,398.62         -1,814.11         1,706.98         1,891,966.78         2,735,581.73         36.19963356         -107.79099975           7,100.00         90.47         134.999         4,396.81         1,977.69         1,891,896.07         2,735,782.19         36.19963356         -107.79090975           7,500.  | ,              |       |         |          |           | ,        | , ,          |              |             |               |
| 6,500.00 90.47 134.999 4,402.71 -1,460.57 1,353.43 1,892,320.32 2,735,228.23 36.20060518 -107.79219754 6,600.00 90.47 134.999 4,401.90 -1,531.28 1,424.14 1,892,249.61 2,735,298.94 36.20041086 -107.79197548  | · ·            |       |         |          | ,         |          | , ,          | , ,          |             |               |
| 6,600.00 90.47 134.999 4,401.90 -1,531.28 1,424.14 1,892,249.61 2,735,298.94 36.20041086 -107.79195798 6,700.00 90.47 134.999 4,401.08 -1,601.99 1,494.85 1,892,178.90 2,735,369.64 36.200212654 -107.79171842 6,800.00 90.47 134.999 4,399.44 -1,743.40 1,636.27 1,892,108.20 2,735,540.35 36.2002221 -107.79147886 6,900.00 90.47 134.999 4,398.62 -1,814.11 1,706.98 1,891,966.78 2,735,561.70 36.19982789 -107.7912393   | · ·            |       |         |          |           |          |              |              |             |               |
| 6,700.00 90.47 134.999 4,401.08 -1,601.99 1,494.85 1,892,178.90 2,735,369.64 36.20021654 -107.79171842 6,800.00 90.47 134.999 4,400.26 -1,672.69 1,565.56 1,892,178.90 2,735,340.35 36.20002221 -107.79147866 6,900.00 90.47 134.999 4,399.44 -1,743.40 1,636.27 1,892,037.49 2,735,511.06 36.19862789 -107.79123930 7,000.00 90.47 134.999 4,398.62 -1,814.11 1,706.98 1,891,966.78 2,735,581.77 36.19963356 -107.79099975 7,100.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,825.37 2,735,652.48 36.19943924 -107.79076020 7,200.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,825.37 2,735,723.19 36.1992491 -107.79052064 7,300.00 90.47 134.999 4,396.17 -2,026.23 1,919.10 1,891,754.66 2,735,793.90 36.19905058 -107.79028109 7,400.00 90.47 134.999 4,395.35 -2,086.94 1,889.81 1,891,883.95 2,735,864.61 36.19868626 -107.79004154 7,500.00 90.47 134.999 4,393.37 1 -2,238.35 2,131.23 1,891,542.54 2,735,006.02 36.19866760 -107.78980199 7,600.00 90.47 134.999 4,393.37 1 -2,238.35 2,131.23 1,891,542.54 2,735,006.02 36.19866760 -107.78980199 7,800.00 90.47 134.999 4,392.07 -2,379.77 2,272.65 1,891,401.12 2,736,147.44 36.19807894 -107.78980336 7,900.00 90.47 134.999 4,392.07 -2,379.77 2,272.65 1,891,401.12 2,736,147.44 36.19807894 -107.78980336 8,000.00 90.47 134.999 4,392.07 -2,379.77 2,272.65 1,891,401.12 2,736,147.44 36.19807894 -107.78980348 8,000.00 90.47 134.999 4,389.62 -2,591.89 2,484.78 1,891,189.00 2,736,359.57 36.19749595 -107.78860427 8,100.00 90.47 134.999 4,389.62 -2,591.89 2,484.78 1,891,189.00 2,736,359.57 36.19749595 -107.78860427 8,000.00 90.47 134.999 4,387.86 -2,626.60 2,555.49 1,891,148.29 2,736,630.09 36.19710729 -107.78860427 8,000.00 90.47 134.999 4,385.52 -2,591.89 2,484.78 1,891,189.00 2,736,359.57 36.19749595 -107.78860427 8,000.00 90.47 134.999 4,385.52 -2,591.89 2,484.78 1,891,189.00 2,736,350.09 36.19710729 -107.78860427 8,000.00 90.47 134.999 4,385.52 -2,591.89 2,484.78 1,891,189.00 2,736,350.09 36.19710729 -107.78860427 8,000.00 90.47 134.999 4,385.52 -2,591.89 3,000.00 90.47 134.999 4,385.52 -2,591.89 3, | · ·            |       |         |          |           |          |              |              |             |               |
| 6,800.00 90.47 134.999 4,400.26 -1,672.69 1,565.56 1,892,108.20 2,735,140.35 36.20002221 -107.79147886 6,900.00 90.47 134.999 4,399.44 -1,743.40 1,636.27 1,892,037.49 2,735,511.06 36.19982789 -107.79123930 7,000.00 90.47 134.999 4,398.62 -1,814.11 1,706.98 1,891,966.78 2,735,581.77 36.19963356 -107.7909975 7,100.00 90.47 134.999 4,397.80 -1,884.82 1,777.69 1,891,966.78 2,735,5652.48 36.19943924 -107.79076020 7,200.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,825.37 2,735,723.19 36.19924491 -107.79052064 7,300.00 90.47 134.999 4,396.51 -2,026.23 1,919.10 1,891,754.66 2,735,793.90 36.19905058 -107.79028109 7,400.00 90.47 134.999 4,395.35 -2,066.94 1,989.81 1,891,633.95 2,735,864.61 36.1988626 -107.78908199 7,600.00 90.47 134.999 4,393.71 -2,238.35 2,131.23 1,891,613.24 2,735,935.32 36.19866193 -107.78980199 7,600.00 90.47 134.999 4,393.71 -2,238.35 2,131.23 1,891,642.54 2,736,006.02 36.19846760 -107.78936290 7,800.00 90.47 134.999 4,392.07 -2,379.77 2,272.65 1,891,401.12 2,736,1076.73 36.19827327 -107.78932290 7,800.00 90.47 134.999 4,392.07 -2,379.77 2,272.65 1,891,401.12 2,736,147.44 36.19807894 -107.78908336 7,900.00 90.47 134.999 4,390.44 -2,521.18 2,414.07 1,891,259.71 2,736,288.86 36.19769029 -107.78836427 8,000.00 90.47 134.999 4,380.62 -2,591.89 2,484.78 1,891,118.29 2,736,430.28 36.19769029 -107.78836427 8,000.00 90.47 134.999 4,388.80 -2,662.60 2,555.49 1,891,118.29 2,736,430.28 36.19730162 -107.78836427 8,000.00 90.47 134.999 4,387.98 -2,733.31 2,626.19 1,891,047.59 2,736,500.99 36.19710729 -107.78788565 8,000.00 90.47 134.999 4,387.98 -2,733.31 2,626.19 1,890,061.7 2,736,676.73 36.19691296 -107.78836451 8,000.00 90.47 134.999 4,385.52 -2,945.43 2,888.80 -2,662.60 2,555.49 1,891,118.29 2,736,430.28 36.19730162 -107.78836451 8,000.00 90.47 134.999 4,385.36 -2,291.89 2,484.78 1,891,118.29 2,736,430.28 36.19730162 -107.78866427 8,000.00 90.47 134.999 4,385.36 -2,294.54 2,896.80 1,890,835.46 2,736,571.70 36.19691296 -107.7866611 8,500.00 90.47 134.999 4,385.39 -3,886.84 2,979.74 1,890,633.34 2,736,57 | · ·            |       |         |          |           |          |              |              |             |               |
| 6,900.00 90.47 134.999 4,399.44 -1,743.40 1,636.27 1,892,037.49 2,735,511.06 36.19982789 -107.79123930 7,000.00 90.47 134.999 4,396.62 -1,814.11 1,706.98 1,891,966.78 2,735,581.77 36.19963356 -107.79099975 7,100.00 90.47 134.999 4,396.98 -1,955.52 1,848.39 1,891,896.07 2,735,581.73 36.19943924 -107.79076020 7,200.00 90.47 134.999 4,396.91 -2,026.23 1,919.10 1,891,754.66 2,735,793.90 36.19905058 -107.79028109 7,400.00 90.47 134.999 4,396.35 -2,096.94 1,989.81 1,891,683.95 2,735,864.61 36.1984566 -107.79082109 7,600.00 90.47 134.999 4,394.53 -2,167.65 2,060.52 1,891,613.24 2,735,935.32 36.19866193 -107.78980199 7,600.00 90.47 134.999 4,394.53 -2,167.65 2,060.52 1,891,613.24 2,735,935.32 36.19866193 -107.78980199 7,600.00 90.47 134.999 4,392.89 -2,309.06 2,201.94 1,891,471.83 2,736,076.73 36.19846760 -107.78932290 7,800.00 90.47 134.999 4,392.89 -2,309.06 2,201.94 1,891,471.83 2,736,076.73 36.19846760 -107.78932290 7,800.00 90.47 134.999 4,392.89 -2,309.06 2,201.94 1,891,471.83 2,736,076.73 36.19868193 -107.78980368 7,900.00 90.47 134.999 4,392.89 -2,309.06 2,201.94 1,891,471.83 2,736,147.44 36.19807884 -107.78980368 7,900.00 90.47 134.999 4,392.89 -2,309.86 2,201.94 1,891,401.12 2,736,147.44 36.198078844 -107.78988336 7,900.00 90.47 134.999 4,391.25 -2,450.48 2,343.36 1,891,330.42 2,736,218.15 36.19788461 -107.78884381 8,000.00 90.47 134.999 4,389.62 -2,591.89 2,484.78 1,891,189.00 2,736,359.57 36.19749595 -107.78836473 8,200.00 90.47 134.999 4,389.62 -2,591.89 2,484.78 1,891,189.00 2,736,359.57 36.19749595 -107.78836473 8,200.00 90.47 134.999 4,387.98 -2,733.31 2,626.19 1,891,047.59 2,736,500.99 36.19710729 -107.78786605 8,000.00 90.47 134.999 4,386.34 -2,874.77 2,767.61 1,890,976.88 2,736,571.70 36.19691296 -107.78764611 8,500.00 90.47 134.999 4,386.34 -2,874.77 2,767.61 1,890,976.88 2,736,571.70 36.19691296 -107.78764611 8,500.00 90.47 134.999 4,386.34 -2,874.77 2,767.61 1,890,976.88 2,736,571.70 36.19691296 -107.78764611 8,500.00 90.47 134.999 4,386.34 -2,874.77 2,767.61 1,890,976.88 2,736,571.70 36.19691296  | · ·            |       |         |          |           |          |              |              |             |               |
| 7,000.00         90.47         134.999         4,398.62         -1,814.11         1,706.98         1,891,966.78         2,735,581.77         36.19963356         -107.79099975           7,100.00         90.47         134.999         4,396.86         -1,884.82         1,777.69         1,881,866.07         2,735,652.48         36.19943924         -107.7907602064           7,200.00         90.47         134.999         4,396.98         -1,955.52         1,848.39         1,891,853.77         2,735,723.19         36.19924491         -107.79022064           7,300.00         90.47         134.999         4,396.17         -2,026.23         1,919.10         1,881,754.66         2,735,793.90         36.19905058         -107.79028109           7,400.00         90.47         134.999         4,395.35         -2,066.94         1,989.81         1,891,683.95         2,735,864.61         36.19866193         -107.78908109           7,500.00         90.47         134.999         4,393.71         -2,238.35         2,131.23         1,891,542.54         2,736,006.02         36.19846760         -107.789626245           7,700.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19846760         -107.78932290 <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   | · ·            |       |         |          |           |          |              |              |             |               |
| 7,100.00         90.47         134.999         4,397.80         -1,884.82         1,777.69         1,891,896.07         2,735,652.48         36.19943924         -107.79076020           7,200.00         90.47         134.999         4,396.98         -1,955.52         1,848.39         1,891,856.37         2,735,733.19         36.19924491         -107.79028064           7,300.00         90.47         134.999         4,396.17         -2,026.23         1,919.10         1,891,678.66         2,735,793.90         36.19905058         -107.79028109           7,400.00         90.47         134.999         4,395.35         -2,096.94         1,989.81         1,891,683.95         2,735,864.61         36.19866193         -107.79004154           7,500.00         90.47         134.999         4,394.53         -2,167.65         2,060.52         1,881,613.24         2,736,006.02         36.19866193         -107.78956245           7,700.00         90.47         134.999         4,392.89         -2,309.06         2,201.94         1,891,471.83         2,736,076.73         36.19827327         -107.789062264           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.7890836   | · ·            |       |         |          |           |          |              |              |             |               |
| 7,200.00         90.47         134.999         4,396.98         -1,955.52         1,848.39         1,891,825.37         2,735,723.19         36.19924491         -107.79052064           7,300.00         90.47         134.999         4,396.17         -2,026.23         1,919.10         1,891,754.66         2,735,793.90         36.19905058         -107.79028109           7,400.00         90.47         134.999         4,395.35         -2,086.94         1,988.81         1,891,683.95         2,735,864.61         36.19885626         -107.7904154           7,500.00         90.47         134.999         4,394.53         -2,167.65         2,060.52         1,891,613.24         2,735,935.32         36.19866193         -107.78980199           7,600.00         90.47         134.999         4,393.71         -2,238.35         2,131.23         1,891,542.54         2,736,006.02         36.19866760         -107.78952290           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19867894         -107.78982290           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,301.42         2,736,218.15         36.19867894         -107.78884381  | · ·            |       |         |          |           |          |              |              |             |               |
| 7,400.00         90.47         134.999         4,395.35         -2,096.94         1,989.81         1,891,683.95         2,735,864.61         36.19885626         -107.79004154           7,500.00         90.47         134.999         4,394.53         -2,167.65         2,060.52         1,891,613.24         2,735,935.32         36.19866193         -107.78980199           7,600.00         90.47         134.999         4,393.71         -2,238.35         2,131.23         1,891,542.54         2,736,006.02         36.19827327         -107.78956245           7,700.00         90.47         134.999         4,392.07         -2,390.06         2,201.94         1,891,471.83         2,736,076.73         36.19827327         -107.78932290           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.78908336           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,330.42         2,736,218.15         36.19788461         -107.78848431           8,000.00         90.47         134.999         4,389.62         -2,591.89         2,444.78         1,891,189.00         2,736,359.57         36.19749595         -107.78836473   | · ·            |       |         |          |           |          |              |              |             |               |
| 7,500.00         90.47         134.999         4,394.53         -2,167.65         2,060.52         1,891,613.24         2,735,935.32         36.19866193         -107.78980199           7,600.00         90.47         134.999         4,393.71         -2,238.35         2,131.23         1,891,542.54         2,736,006.02         36.19846760         -107.78956245           7,700.00         90.47         134.999         4,392.89         -2,309.06         2,201.94         1,891,471.83         2,736,076.73         36.19827327         -107.78932290           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.78908336           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,300.42         2,736,218.15         36.19788461         -107.78884381           8,000.00         90.47         134.999         4,389.62         -2,591.89         2,484.78         1,891,189.00         2,736,288.86         36.19769029         -107.78864427           8,200.00         90.47         134.999         4,388.80         -2,666.60         2,555.49         1,891,118.29         2,736,430.28         36.19749595         -107.78812519   | 7,300.00       | 90.47 | 134.999 | 4,396.17 | -2,026.23 | 1,919.10 | 1,891,754.66 | 2,735,793.90 | 36.19905058 | -107.79028109 |
| 7,600.00         90.47         134.999         4,393.71         -2,238.35         2,131.23         1,891,542.54         2,736,006.02         36.19846760         -107.78956245           7,700.00         90.47         134.999         4,392.89         -2,309.06         2,201.94         1,891,471.83         2,736,076.73         36.19827327         -107.78932290           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.78908336           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,330.42         2,736,218.15         36.19788461         -107.78860427           8,000.00         90.47         134.999         4,380.62         -2,521.18         2,414.07         1,891,259.71         2,736,288.86         36.19789029         -107.78860427           8,100.00         90.47         134.999         4,388.80         -2,662.60         2,555.49         1,891,118.29         2,736,430.28         36.19749595         -107.78788565           8,400.00         90.47         134.999         4,387.98         -2,733.31         2,626.19         1,891,418.29         2,736,530.99         36.19769129         -107.78788565   | 7,400.00       | 90.47 | 134.999 | 4,395.35 | -2,096.94 | 1,989.81 | 1,891,683.95 | 2,735,864.61 | 36.19885626 | -107.79004154 |
| 7,700.00         90.47         134.999         4,392.89         -2,309.06         2,201.94         1,891,471.83         2,736,076.73         36.19827327         -107.78932290           7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.78908336           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,330.42         2,736,218.15         36.19788461         -107.78884381           8,000.00         90.47         134.999         4,390.44         -2,521.18         2,414.07         1,891,259.71         2,736,288.86         36.19769029         -107.78860427           8,100.00         90.47         134.999         4,388.80         -2,662.60         2,555.49         1,891,118.29         2,736,430.28         36.19749595         -107.78812519           8,300.00         90.47         134.999         4,387.98         -2,733.31         2,626.19         1,891,047.59         2,736,500.99         36.19710729         -107.78788555           8,400.00         90.47         134.999         4,387.16         -2,804.01         2,696.90         1,890,976.88         2,736,500.99         36.19710729         -107.78740657   | 7,500.00       | 90.47 | 134.999 | 4,394.53 | -2,167.65 | 2,060.52 | 1,891,613.24 | 2,735,935.32 | 36.19866193 | -107.78980199 |
| 7,800.00         90.47         134.999         4,392.07         -2,379.77         2,272.65         1,891,401.12         2,736,147.44         36.19807894         -107.78908336           7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,330.42         2,736,218.15         36.19788461         -107.78884381           8,000.00         90.47         134.999         4,390.44         -2,521.18         2,414.07         1,891,259.71         2,736,288.86         36.19769029         -107.78860427           8,100.00         90.47         134.999         4,389.62         -2,591.89         2,484.78         1,891,189.00         2,736,359.57         36.19749595         -107.78836473           8,200.00         90.47         134.999         4,388.80         -2,662.60         2,555.49         1,891,118.29         2,736,430.28         36.19730162         -107.78788565           8,400.00         90.47         134.999         4,387.98         -2,733.31         2,626.19         1,891,047.59         2,736,500.99         36.19710729         -107.78764611           8,500.00         90.47         134.999         4,386.34         -2,874.72         2,767.61         1,890,976.88         2,736,571.70         36.19671863         -107.78740657   | 7,600.00       | 90.47 | 134.999 | 4,393.71 |           | 2,131.23 | 1,891,542.54 | 2,736,006.02 | 36.19846760 | -107.78956245 |
| 7,900.00         90.47         134.999         4,391.25         -2,450.48         2,343.36         1,891,330.42         2,736,218.15         36.19788461         -107.78884381           8,000.00         90.47         134.999         4,390.44         -2,521.18         2,414.07         1,891,259.71         2,736,288.86         36.19769029         -107.78860427           8,100.00         90.47         134.999         4,388.62         -2,591.89         2,484.78         1,891,189.00         2,736,359.57         36.19749595         -107.78836473           8,200.00         90.47         134.999         4,388.80         -2,662.60         2,555.49         1,891,118.29         2,736,430.28         36.19730162         -107.78812519           8,300.00         90.47         134.999         4,387.98         -2,733.31         2,626.19         1,891,047.59         2,736,500.99         36.19710729         -107.78788565           8,400.00         90.47         134.999         4,387.16         -2,804.01         2,696.90         1,890,976.88         2,736,571.70         36.19691296         -107.78764611           8,500.00         90.47         134.999         4,385.52         -2,945.43         2,838.32         1,890,835.46         2,736,713.11         36.19652430         -107.78716704   |                |       |         |          |           | ,        |              |              |             |               |
| 8,000.00       90.47       134.999       4,390.44       -2,521.18       2,414.07       1,891,259.71       2,736,288.86       36.19769029       -107.78860427         8,100.00       90.47       134.999       4,389.62       -2,591.89       2,484.78       1,891,189.00       2,736,359.57       36.19749595       -107.78836473         8,200.00       90.47       134.999       4,388.80       -2,662.60       2,555.49       1,891,118.29       2,736,430.28       36.19730162       -107.78812519         8,300.00       90.47       134.999       4,387.98       -2,733.31       2,626.19       1,891,047.59       2,736,500.99       36.19710729       -107.78788565         8,400.00       90.47       134.999       4,387.16       -2,804.01       2,696.90       1,890,976.88       2,736,571.70       36.19691296       -107.78764611         8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,835.46       2,736,713.11       36.19652430       -107.78668797         8,800.00       90.47       134.999       4,383.89       -3,086.84   |                |       |         |          |           |          |              | , ,          |             |               |
| 8,100.00       90.47       134.999       4,389.62       -2,591.89       2,484.78       1,891,189.00       2,736,359.57       36.19749595       -107.78836473         8,200.00       90.47       134.999       4,388.80       -2,662.60       2,555.49       1,891,118.29       2,736,430.28       36.19730162       -107.78812519         8,300.00       90.47       134.999       4,387.98       -2,733.31       2,626.19       1,891,047.59       2,736,500.99       36.19710729       -107.78788565         8,400.00       90.47       134.999       4,387.16       -2,804.01       2,696.90       1,890,976.88       2,736,571.70       36.19691296       -107.78764611         8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78668797         8,800.00       90.47       134.999       4,383.89       -3,086.84   |                |       |         |          |           |          |              |              |             |               |
| 8,200.00       90.47       134.999       4,388.80       -2,662.60       2,555.49       1,891,118.29       2,736,430.28       36.19730162       -107.78812519         8,300.00       90.47       134.999       4,387.98       -2,733.31       2,626.19       1,891,047.59       2,736,500.99       36.19710729       -107.78788565         8,400.00       90.47       134.999       4,387.16       -2,804.01       2,696.90       1,890,976.88       2,736,571.70       36.19691296       -107.78764611         8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78668797         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55   |                |       |         |          |           |          |              |              |             |               |
| 8,300.00       90.47       134.999       4,387.98       -2,733.31       2,626.19       1,891,047.59       2,736,500.99       36.19710729       -107.78788565         8,400.00       90.47       134.999       4,387.16       -2,804.01       2,696.90       1,890,976.88       2,736,571.70       36.19691296       -107.78764611         8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78692750         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,995.95       36.19574696       -107.78620890   |                |       |         |          |           |          |              |              |             |               |
| 8,400.00       90.47       134.999       4,387.16       -2,804.01       2,696.90       1,890,976.88       2,736,571.70       36.19691296       -107.78764611         8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.786692750         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78644844         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890  |                |       |         |          |           |          |              |              |             |               |
| 8,500.00       90.47       134.999       4,386.34       -2,874.72       2,767.61       1,890,906.17       2,736,642.41       36.19671863       -107.78740657         8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78692750         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78644844         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890  |                |       |         |          |           |          |              |              |             |               |
| 8,600.00       90.47       134.999       4,385.52       -2,945.43       2,838.32       1,890,835.46       2,736,713.11       36.19652430       -107.78716704         8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78692750         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78648484         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890   |                |       |         |          |           |          |              |              |             |               |
| 8,700.00       90.47       134.999       4,384.71       -3,016.14       2,909.03       1,890,764.76       2,736,783.82       36.19632996       -107.78692750         8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78644844         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890  |                |       |         |          |           | ,        | , ,          |              |             |               |
| 8,800.00       90.47       134.999       4,383.89       -3,086.84       2,979.74       1,890,694.05       2,736,854.53       36.19613563       -107.78668797         8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78644844         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890   |                |       |         |          |           |          |              |              |             |               |
| 8,900.00       90.47       134.999       4,383.07       -3,157.55       3,050.45       1,890,623.34       2,736,925.24       36.19594129       -107.78644844         9,000.00       90.47       134.999       4,382.25       -3,228.26       3,121.16       1,890,552.63       2,736,995.95       36.19574696       -107.78620890  |                |       |         |          |           |          |              |              |             |               |
| 9,000.00 90.47 134.999 4,382.25 -3,228.26 3,121.16 1,890,552.63 2,736,995.95 36.19574696 -107.78620890   |                |       |         |          |           |          |              |              |             |               |
|  |                |       |         |          |           |          |              |              |             |               |
| 9,100.00 90.47 134.999 4,381.43 -3,298.97 3,191.87 1,890,481.93 2,737,066.66 36.19555262 -107.78596938   | 9,100.00       | 90.47 | 134.999 | 4,381.43 | -3,298.97 | 3,191.87 | 1,890,481.93 | 2,737,066.66 | 36.19555262 | -107.78596938 |
| 9,200.00 90.47 134.999 4,380.61 -3,369.68 3,262.58 1,890,411.22 2,737,137.37 36.19535829 -107.78572985   |                |       |         |          |           |          |              |              |             |               |
| 9,300.00 90.47 134.999 4,379.79 -3,440.38 3,333.29 1,890,340.51 2,737,208.08 36.19516395 -107.78549032   |                |       |         |          |           |          |              |              |             |               |
|  |                | 90.47 | 134.999 | 4,378.98 |           |          |              |              |             | -107.78525079 |



# Planning Report - Geographic



DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H Original Hole Wellbore:

Design: rev0 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Minimum Curvature

| Design.           |             |         |                   |           |          |                 |                |             |                |
|-------------------|-------------|---------|-------------------|-----------|----------|-----------------|----------------|-------------|----------------|
| Planned Survey    |             |         |                   |           |          |                 |                |             |                |
| Measured<br>Depth | Inclination | Azimuth | Vertical<br>Depth | +N/-S     | +E/-W    | Map<br>Northing | Map<br>Easting |             |                |
| (ft)              | (°)         | (°)     | (ft)              | (ft)      | (ft)     | (usft)          | (usft)         | Latitude    | Longitude      |
| 9,500.00          | 90.47       | 134.999 | 4,378.16          | -3,581.80 | 3,474.70 | 1,890,199.10    | 2,737,349.49   | 36.19477528 | -107.78501127  |
| 9,600.00          | 90.47       | 134.999 | 4,377.34          | -3,652.51 | 3,545.41 | 1,890,128.39    | 2,737,420.20   | 36.19458094 | -107.78477174  |
| 9,700.00          | 90.47       | 134.999 | 4,376.52          | -3,723.21 | 3,616.12 | 1,890,057.68    | 2,737,490.91   | 36.19438660 | -107.78453222  |
| 9,800.00          | 90.47       | 134.999 | 4,375.70          | -3,793.92 | 3,686.83 | 1,889,986.97    | 2,737,561.62   | 36.19419226 | -107.78429270  |
| 9,900.00          | 90.47       | 134.999 | 4,374.88          | -3,864.63 | 3,757.54 | 1,889,916.27    | 2,737,632.33   | 36.19399793 | -107.78405318  |
| 10,000.00         | 90.47       | 134.999 | 4,374.06          | -3,935.34 | 3,828.25 | 1,889,845.56    | 2,737,703.04   | 36.19380359 | -107.78381366  |
| 10,100.00         | 90.47       | 134.999 | 4,373.25          | -4,006.04 | 3,898.96 | 1,889,774.85    | 2,737,773.75   | 36.19360925 | -107.78357414  |
| 10,200.00         | 90.47       | 134.999 | 4,372.43          | -4,076.75 | 3,969.67 | 1,889,704.14    | 2,737,844.46   | 36.19341491 | -107.78333463  |
| 10,300.00         | 90.47       | 134.999 | 4,371.61          | -4,147.46 | 4,040.38 | 1,889,633.44    | 2,737,915.17   | 36.19322056 | -107.78309511  |
| 10,400.00         | 90.47       | 134.999 | 4,370.79          | -4,218.17 | 4,111.09 | 1,889,562.73    | 2,737,985.88   | 36.19302622 | -107.78285560  |
| 10,500.00         | 90.47       | 134.999 | 4,369.97          | -4,288.87 | 4,181.79 | 1,889,492.02    | 2,738,056.58   | 36.19283188 | -107.78261608  |
| 10,600.00         | 90.47       | 134.999 | 4,369.15          | -4,359.58 | 4,252.50 | 1,889,421.32    | 2,738,127.29   | 36.19263754 | -107.78237657  |
| 10,700.00         | 90.47       | 134.999 | 4,368.33          | -4,430.29 | 4,323.21 | 1,889,350.61    | 2,738,198.00   | 36.19244320 | -107.78213706  |
| 10,800.00         | 90.47       | 134.999 | 4,367.52          | -4,501.00 | 4,393.92 | 1,889,279.90    | 2,738,268.71   | 36.19224885 | -107.78189755  |
| 10,900.00         | 90.47       | 134.999 | 4,366.70          | -4,571.70 | 4,464.63 | 1,889,209.19    | 2,738,339.42   | 36.19205451 | -107.78165804  |
| 11,000.00         | 90.47       | 134.999 | 4,365.88          | -4,642.41 | 4,535.34 | 1,889,138.49    | 2,738,410.13   | 36.19186016 | -107.78141853  |
| 11,100.00         | 90.47       | 134.999 | 4,365.06          | -4,713.12 | 4,606.05 | 1,889,067.78    | 2,738,480.84   | 36.19166582 | -107.78117903  |
| 11,200.00         | 90.47       | 134.999 | 4,364.24          | -4,783.83 | 4,676.76 | 1,888,997.07    | 2,738,551.55   | 36.19147147 | -107.78093952  |
| 11,300.00         | 90.47       | 134.999 | 4,363.42          | -4,854.53 | 4,747.47 | 1,888,926.36    | 2,738,622.26   | 36.19127713 | -107.78070002  |
| 11,400.00         | 90.47       | 134.999 | 4,362.60          | -4,925.24 | 4,818.18 | 1,888,855.66    | 2,738,692.96   | 36.19108278 | -107.78046052  |
| 11,500.00         | 90.47       | 134.999 | 4,361.79          | -4,995.95 | 4,888.89 | 1,888,784.95    | 2,738,763.67   | 36.19088843 | -107.78022101  |
| 11,600.00         | 90.47       | 134.999 | 4,360.97          | -5,066.66 | 4,959.59 | 1,888,714.24    | 2,738,834.38   | 36.19069409 | -107.77998151  |
| 11,700.00         | 90.47       | 134.999 | 4,360.15          | -5,137.36 | 5,030.30 | 1,888,643.53    | 2,738,905.09   | 36.19049974 | -107.77974202  |
| 11,800.00         | 90.47       | 134.999 | 4,359.33          | -5,208.07 | 5,101.01 | 1,888,572.83    | 2,738,975.80   | 36.19030539 | -107.77950252  |
| 11,900.00         | 90.47       | 134.999 | 4,358.51          | -5,278.78 | 5,171.72 | 1,888,502.12    | 2,739,046.51   | 36.19011104 | -107.77926302  |
| 12,000.00         | 90.47       | 134.999 | 4,357.69          | -5,349.49 | 5,242.43 | 1,888,431.41    | 2,739,117.22   | 36.18991669 | -107.77902353  |
| 12,100.00         | 90.47       | 134.999 | 4,356.87          | -5,420.19 | 5,313.14 | 1,888,360.70    | 2,739,187.93   | 36.18972234 | -107.77878403  |
| 12,200.00         | 90.47       | 134.999 | 4,356.06          | -5,490.90 | 5,383.85 | 1,888,290.00    | 2,739,258.64   | 36.18952799 | -107.77854454  |
| 12,300.00         | 90.47       | 134.999 | 4,355.24          | -5,561.61 | 5,454.56 | 1,888,219.29    | 2,739,329.34   | 36.18933364 | -107.77830505  |
| 12,400.00         | 90.47       | 134.999 | 4,354.42          | -5,632.32 | 5,525.27 | 1,888,148.58    | 2,739,400.05   | 36.18913929 | -107.77806556  |
| 12,500.00         | 90.47       | 134.999 | 4,353.60          | -5,703.02 | 5,595.98 | 1,888,077.87    | 2,739,470.76   | 36.18894494 | -107.77782607  |
| 12,600.00         | 90.47       | 134.999 | 4,352.78          | -5,773.73 | 5,666.68 | 1,888,007.17    | 2,739,541.47   | 36.18875059 | -107.77758658  |
| 12,700.00         | 90.47       | 134.999 | 4,351.96          | -5,844.44 | 5,737.39 | 1,887,936.46    | 2,739,612.18   | 36.18855624 | -107.77734709  |
| 12,800.00         | 90.47       | 134.999 | 4,351.14          | -5,915.15 | 5,808.10 | 1,887,865.75    | 2,739,682.89   | 36.18836188 | -107.77710760  |
| 12,900.00         | 90.47       | 134.999 | 4,350.33          | -5,985.85 | 5,878.81 | 1,887,795.05    | 2,739,753.60   | 36.18816753 | -107.777686812 |
| 13,000.00         | 90.47       | 134.999 | 4,349.51          | -6,056.56 | 5,949.52 | 1,887,724.34    | 2,739,824.31   | 36.18797317 | -107.77662864  |
| 13,100.00         | 90.47       | 134.999 | 4,348.69          | -6,127.27 | 6,020.23 | 1,887,653.63    | 2,739,895.02   | 36.18777882 | -107.77638915  |
| 13,200.00         | 90.47       | 134.999 | 4,347.87          | -6,197.98 | 6,090.94 | 1,887,582.92    | 2,739,965.73   | 36.18758447 | -107.77614967  |
| 13,300.00         | 90.47       | 134.999 | 4,347.05          | -6,268.68 | 6,161.65 | 1,887,512.22    | 2,740,036.43   | 36.18739011 | -107.77591019  |
| 13,400.00         | 90.47       | 134.999 | 4,346.23          | -6,339.39 | 6,232.36 | 1,887,441.51    | 2,740,107.14   | 36.18719575 | -107.77567071  |
| 13,500.00         | 90.47       | 134.999 | 4,345.41          | -6,410.10 | 6,303.07 | 1,887,370.80    | 2,740,107.14   | 36.18700140 | -107.77543123  |
| 13,550.63         | 90.47       | 134.999 | 4,345.00          | -6,445.90 | 6,338.86 | 1,887,335.00    | 2,740,213.65   | 36.18690300 | -107.77531000  |
| ,                 | @ 13550.63  |         |                   | -0,10.00  | 0,000.00 | 1,007,000.00    | 2,170,210.00   | 00.10030000 | -107.77301000  |
| PDRL/ID           | w 1335U.63  | 4345.UU | טע                |           |          |                 |                |             |                |



# Planning Report - Geographic



Database: DT\_Jul1724\_v17

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Grid

Minimum Curvature

| Design Targets  |                        |                         |                          |                         |                         |                    |                   |             |               |
|---|------------------------|-------------------------|--------------------------|-------------------------|-------------------------|--------------------|-------------------|-------------|---------------|
| Target Name - hit/miss target - Shape                         | Dip Angle<br>(°)       | Dip Dir.<br>(°)         | TVD<br>(ft)              | +N/-S<br>(ft)           | +E/-W<br>(ft)           | Northing<br>(usft) | Easting<br>(usft) | Latitude    | Longitude     |
| Greater Lybrook 36H LTI<br>- plan hits target cent<br>- Point | 0.00<br>er             | 0.000                   | 4,345.00                 | -6,445.90               | 6,338.86                | 1,887,335.00       | 2,740,213.65      | 36.18690300 | -107.77531000 |
| Greater Lybrook 36H FT - plan misses target o - Point         | 0.00<br>center by 34.1 | 0.000<br>2ft at 4581.3  | 4,418.48<br>31ft MD (438 | -98.65<br>6.12 TVD, -10 | -8.52<br>06.30 N, -0.87 | 1,893,682.23<br>E) | 2,733,866.28      | 36.20434800 | -107.79681200 |
| Greater Lybrook 36H vs: - plan misses target o - Point        | 0.00<br>center by 34.6 | 0.000<br>31ft at 4581.4 | 4,419.00<br>48ft MD (438 | -98.65<br>6.17 TVD, -10 | -8.52<br>06.41 N, -0.76 | 1,893,682.23<br>E) | 2,733,866.28      | 36.20434800 | -107.79681200 |

| Casing Points |                           |                           |   |      |                           |                         |  |
|---------------|---------------------------|---------------------------|---|------|---------------------------|-------------------------|--|
|               | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) |   | Name | Casing<br>Diameter<br>(") | Hole<br>Diameter<br>(") |  |
|               | 350.00<br>4,739.84        |                           | 9-5/8" Surface Casing<br>7" Intermediate Casing |      | 9-5/8<br>7                | 12-1/4<br>8-3/4         |  |

| ormations |                          |                           |                   |           |            |                         |
|-----------|--------------------------|---------------------------|-------------------|-----------|------------|-------------------------|
|           | easured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Name              | Lithology | Dip<br>(°) | Dip<br>Direction<br>(°) |
|           | 75.00                    | 75.00                     | Ojo Alamo         |           | -0.470     | 134.999                 |
|           | 158.00                   | 158.00                    | Kirtland          |           | -0.470     | 134.999                 |
|           | 393.00                   | 393.00                    | Fruitland         |           | -0.470     | 134.999                 |
|           | 783.00                   | 783.00                    | Pictured Cliffs   |           | -0.470     | 134.999                 |
|           | 948.00                   | 948.00                    | Lewis             |           | -0.470     | 134.999                 |
|           | 1,138.16                 | 1,138.04                  | Chacra_A          |           | -0.470     | 134.999                 |
|           | 2,157.97                 | 2,144.35                  | Cliff House_Basal |           | -0.470     | 134.999                 |
|           | 2,173.21                 | 2,159.37                  | Menefee           |           | -0.470     | 134.999                 |
|           | 3,209.51                 | 3,183.57                  | Point Lookout     |           | -0.470     | 134.999                 |
|           | 3,374.51                 | 3,348.57                  | Mancos            |           | -0.470     | 134.999                 |
|           | 3,706.51                 | 3,680.57                  | MNCS_A            |           | -0.470     | 134.999                 |
|           | 3,805.51                 | 3,779.57                  | MNCS_B            |           | -0.470     | 134.999                 |
|           | 3,896.51                 | 3,870.56                  | MNCS_C            |           | -0.470     | 134.999                 |
|           | 3,936.63                 | 3,910.54                  | MNCS_Cms          |           | -0.470     | 134.999                 |
|           | 4,070.29                 | 4,040.29                  | MNCS_D            |           | -0.470     | 134.999                 |
|           | 4,242.22                 | 4,190.61                  | MNCS_E            |           | -0.470     | 134.999                 |
|           | 4,310.31                 | 4,242.25                  | MNCS_F            |           | -0.470     | 134.999                 |
|           | 4,420.40                 | 4,313.56                  | MNCS_G            |           | -0.470     | 134.999                 |
|           | 4,496.81                 | 4,353.03                  | MNCS_H            |           | -0.470     | 134.999                 |
|           | 4,615.22                 | 4,396.12                  | MNCS_I            |           | -0.470     | 134.999                 |



# Planning Report - Geographic



DT\_Jul1724\_v17 Database: Company:

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Greater Lybrook (36, 37, 38 & 39)

Well: Greater Lybrook Unit 36H

Wellbore: Design: rev0

Original Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft RKB=6529+23.5 @ 6552.50ft

Minimum Curvature

| Plan Annotations |           |               |            |                                   |  |
|------------------|-----------|---------------|------------|-----------------------------------|--|
| Measure          | d Vertica | Local C       | oordinates |                                   |  |
| Depth            | Depth     | +N/-S         | +E/-W      |                                   |  |
| (ft)             | (ft)      | (ft)          | (ft)       | Comment                           |  |
| 1,000.0          | 00 1,000  | 0.00          | 0.00       | KOP Begin 3°/100' build           |  |
| 1,325.           | 30 1,323  | .73 14.40     | -23.59     | Begin 9.76° tangent               |  |
| 2,900.0          | 34 2,876  | .27 153.52    | -251.51    | Begin 3°/100' drop                |  |
| 3,225.9          | 94 3,200  | .00 167.92    | -275.10    | Begin vertical hold               |  |
| 3,869.           | 3,843     | .90 167.92    | -275.10    | Begin 10°/100' build              |  |
| 4,569.           | 34 4,382  | .30 -98.65    | -8.52      | 70° @ 4569.84 MD 4382.31 TVD      |  |
| 4,774.           | 53 4,416  | .84 -240.53   | 133.37     | Begin 90.47° lateral              |  |
| 13,550.0         | 63 4,345  | .00 -6,445.90 | 6,338.86   | PBHL/TD @ 13550.63 MD 4345.00 TVD |  |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Greater Lybrook (36, 37, 38 & 39)

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma DT\_Jul1724\_v17 Database: Offset Datum Offset TVD Reference:

Reference rev0

Filter type: GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference

Interpolation Method: MD Interval 100.00ft Error Model: **ISCWSA** 

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum centre distance of 1,555.06ft Results Limited by: Error Surface: Ellipsoid Separation

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Survey Tool Program 8/21/2024 Date From То Survey (Wellbore) **Tool Name** Description (ft) (ft) 13,550.63 rev0 (Original Hole) MWD OWSG MWD - Standard 0.00

| Summary  |  |                                     |                                     |                                    |                      |                          |
|--|--|-------------------------------------|-------------------------------------|------------------------------------|----------------------|--------------------------|
| Site Name<br>Offset Well - Wellbore - Design   | Reference<br>Measured<br>Depth<br>(ft) | Offset<br>Measured<br>Depth<br>(ft) | Dista<br>Between<br>Centres<br>(ft) | nce<br>Between<br>Ellipses<br>(ft) | Separation<br>Factor | Warning                  |
| Greater Lybrook (36, 37, 38 & 39)  |  |                                     |                                     |                                    |                      |                          |
| Greater Lybrook Unit 37H - Original Hole - rev0  | 1,000.00                               | 1,000.00                            | 20.06                               | 13.06                              | 2.866                | CC, ES                   |
| Greater Lybrook Unit 37H - Original Hole - rev0  | 13,550.63                              | 12,717.84                           | 729.46                              | 416.98                             | 2.334                | SF                       |
| Greater Lybrook Unit 38H - Original Hole - rev0  | 1,000.00                               | 1,000.00                            | 40.12                               | 33.12                              | 5.731                | CC, ES                   |
| Greater Lybrook Unit 38H - Original Hole - rev0  | 13,550.63                              | 13,080.58                           | 1,205.01                            | 793.17                             | 2.926                | SF                       |
| Greater Lybrook Unit 39H - Original Hole - rev0  | 500.00                                 | 500.00                              | 59.89                               | 56.47                              | 17.531               | CC, ES                   |
| Greater Lybrook Unit 39H - Original Hole - rev0  | 700.00                                 | 695.14                              | 67.27                               | 62.44                              | 13.943               | SF                       |
| Kimbeto Wash 772 Pad (772, 774, 793, 794 & 795)  |  |                                     |                                     |                                    |                      |                          |
| Kimbeto Wash Unit 774H - Original Hole - Surveys Or<br>Kimbeto Wash Unit 793H - Original Hole - Surveys Or | ,                                      | 4,605.14<br>4,352.78                | 326.67<br>274.77                    | 295.95<br>242.33                   |                      | CC, ES, SF<br>CC, ES, SF |

| Offset De                 | sign: Gre                 | ater Lybro                | ok (36, 37                | , 38 & 39) -      | Greater        | Lybrook Uni                 | it 37H - Original | Hole - rev    | 0                          |                             |                               |                      | Offset Site Error: | 0.00 ft |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
|                           | rence                     | MWD<br>Off:               |                           |                   | lajor Axis     |                             | Offset Wellbo     | re Centre     |                            | Rule Assig                  | _                             |                      | Offset Well Error: | 0.00 ft |
| 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) | Highside<br>Toolface<br>(°) | +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 | Warning            |         |
| 0.00                      | 0.00                      | 0.00                      | 0.00                      | 0.00              | 0.00           | 89.978                      | 0.01              | 20.06         | 20.06                      |                             |                               |                      |                    |         |
| 100.00                    | 100.00                    | 100.00                    | 100.00                    | 0.27              | 0.27           | 89.978                      | 0.01              | 20.06         | 20.06                      | 19.51                       | 0.55                          | 36.578               |                    |         |
| 200.00                    | 200.00                    | 200.00                    | 200.00                    | 0.63              | 0.63           | 89.978                      | 0.01              | 20.06         | 20.06                      | 18.80                       | 1.27                          | 15.854               |                    |         |
| 300.00                    | 300.00                    | 300.00                    | 300.00                    | 0.99              | 0.99           | 89.978                      | 0.01              | 20.06         | 20.06                      | 18.08                       | 1.98                          | 10.120               |                    |         |
| 400.00                    | 400.00                    | 400.00                    | 400.00                    | 1.35              | 1.35           | 89.978                      | 0.01              | 20.06         | 20.06                      | 17.36                       | 2.70                          | 7.432                |                    |         |
| 500.00                    | 500.00                    | 500.00                    | 500.00                    | 1.71              | 1.71           | 89.978                      | 0.01              | 20.06         | 20.06                      | 16.65                       | 3.42                          | 5.872                |                    |         |
| 600.00                    | 600.00                    | 600.00                    | 600.00                    | 2.07              | 2.07           | 89.978                      | 0.01              | 20.06         | 20.06                      | 15.93                       | 4.13                          | 4.854                |                    |         |
| 700.00                    | 700.00                    | 700.00                    | 700.00                    | 2.43              | 2.43           | 89.978                      | 0.01              | 20.06         | 20.06                      | 15.21                       | 4.85                          | 4.136                |                    |         |
| 800.00                    | 800.00                    | 800.00                    | 800.00                    | 2.78              | 2.78           | 89.978                      | 0.01              | 20.06         | 20.06                      | 14.49                       | 5.57                          | 3.604                |                    |         |
| 900.00                    | 900.00                    | 900.00                    | 900.00                    | 3.14              | 3.14           | 89.978                      | 0.01              | 20.06         | 20.06                      | 13.78                       | 6.28                          | 3.192                |                    |         |
| 1,000.00                  | 1,000.00                  | 1,000.00                  | 1,000.00                  | 3.50              | 3.50           | 89.978                      | 0.01              | 20.06         | 20.06                      | 13.06                       | 7.00                          | 2.866 CC, E          | S                  |         |
| 1,100.00                  | 1,099.95                  | 1,099.95                  | 1,099.95                  | 3.86              | 3.86           | 152.048                     | 0.01              | 20.06         | 22.34                      | 14.62                       | 7.71                          | 2.896                |                    |         |
| 1,200.00                  | 1,199.63                  | 1,199.63                  | 1,199.63                  | 4.21              | 4.22           | 159.130                     | 0.01              | 20.06         | 29.50                      | 21.07                       | 8.42                          | 3.501                |                    |         |
| 1,300.00                  | 1,298.77                  | 1,297.18                  | 1,297.14                  | 4.58              | 4.56           | 162.970                     | 1.18              | 22.24         | 43.76                      | 34.64                       | 9.12                          | 4.797                |                    |         |
| 1,400.00                  | 1,397.35                  | 1,392.84                  | 1,392.51                  | 4.95              | 4.90           | 162.718                     | 4.62              | 28.63         | 65.30                      | 55.50                       | 9.80                          | 6.663                |                    |         |
| 1,500.00                  | 1,495.90                  | 1,486.69                  | 1,485.61                  | 5.35              | 5.24           | 160.575                     | 10.18             | 38.97         | 90.60                      | 80.15                       | 10.45                         | 8.672                |                    |         |
| 1,600.00                  | 1,594.45                  | 1,578.36                  | 1,575.89                  | 5.75              | 5.58           | 157.950                     | 17.71             | 52.96         | 119.61                     | 108.54                      | 11.07                         | 10.804               |                    |         |
| 1,700.00                  | 1,693.01                  | 1,667.53                  | 1,662.88                  | 6.15              | 5.93           | 155.353                     | 26.99             | 70.20         | 152.43                     | 140.75                      | 11.67                         | 13.058               |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

|                      |                           |                           |                           |                   |                |                             |                        |                      |                            |                             |                               |                      | Offset Site Error: | 0.001  |
|----------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|----------------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--------|
| rvey Progr           | ram: 0-N                  | MWD<br>Offs               | set                       | Semi M            | ajor Axis      |                             | Offset Wellbo          | ore Centre           | Dist                       | Rule Assi<br>tance          | gned:                         |                      | Offset Well Error: | 0.00 1 |
| leasured Depth (ft)  | Vertical<br>Depth<br>(ft) | Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Reference<br>(ft) | Offset (ft)    | Highside<br>Toolface<br>(°) | +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 | Warning            |        |
| 1,800.00             | 1,791.56                  | 1,753.93                  | 1,746.19                  | 6.57              | 6.30           | 152.960                     | 37.80                  | 90.31                | 189.04                     | 176.79                      | 12.24                         | 15.441               |                    |        |
| 1,900.00             | 1,890.11                  | 1,837.34                  | 1,825.58                  | 6.99              | 6.68           | 150.818                     | 49.93                  | 112.84               | 229.37                     | 216.59                      | 12.79                         | 17.935               |                    |        |
| 2,000.00             | 1,988.67                  | 1,917.62                  | 1,900.86                  | 7.41              | 7.08           | 148.925                     | 63.14                  | 137.40               | 273.32                     | 260.01                      | 13.31                         | 20.541               |                    |        |
| 2,100.00             | 2,087.22                  | 1,999.36                  | 1,976.36                  | 7.84              | 7.52           | 147.195                     | 77.97                  | 164.96               | 320.46                     | 306.58                      | 13.88                         | 23.093               |                    |        |
| 2,200.00             | 2,185.77                  | 2,086.82                  | 2,056.92                  | 8.26              | 8.02           | 145.755                     | 94.10                  | 194.93               | 368.35                     | 353.78                      | 14.57                         | 25.284               |                    |        |
| 2,300.00             | 2,284.33                  | 2,174.27                  | 2,137.49                  | 8.70              | 8.55           | 144.645                     | 110.22                 | 224.90               | 416.38                     | 401.11                      | 15.27                         | 27.264               |                    |        |
| 2,400.00             | 2,382.88                  | 2,261.73                  | 2,218.05                  | 9.13              | 9.10           | 143.764                     | 126.35                 | 254.86               | 464.50                     | 448.52                      | 15.99                         | 29.058               |                    |        |
| 2,500.00             | 2,481.43                  | 2,349.19                  | 2,298.62                  | 9.56              | 9.66           | 143.048                     | 142.47                 | 284.83               | 512.70                     | 495.99                      | 16.71                         | 30.690               |                    |        |
| 2,600.00             | 2,579.98                  | 2,436.64                  | 2,379.18                  | 10.00             | 10.23          | 142.454                     | 158.60                 | 314.80               | 560.94                     | 543.51                      | 17.43                         | 32.176               |                    |        |
| 2,700.00             | 2,678.54                  | 2,524.10                  | 2,459.74                  | 10.44             | 10.82          | 141.954                     | 174.72                 | 344.77               | 609.23                     | 591.06                      | 18.17                         | 33.535               |                    |        |
| 2,800.00             | 2,777.09                  | 2,636.49                  | 2,563.88                  | 10.88             | 11.56          | 141.477                     | 194.74                 | 381.97               | 656.53                     | 637.32                      | 19.21                         | 34.172               |                    |        |
| 2,900.00             | 2,875.64                  | 2,771.60                  | 2,691.97                  | 11.32             | 12.38          | 141.284                     | 215.07                 | 419.76               | 698.58                     | 678.12                      | 20.46                         | 34.152               |                    |        |
| 3,000.00             | 2,974.59                  | 2,915.68                  | 2,831.53                  | 11.74             | 13.15          | 141.900                     | 231.97                 | 451.16               | 732.49                     | 710.84                      | 21.65                         | 33.828               |                    |        |
| 3,100.00             | 3,074.15                  | 3,067.95                  | 2,981.50                  | 12.13             | 13.83<br>14.40 | 142.237                     | 244.36                 | 474.19               | 755.58                     | 732.82                      | 22.76                         | 33.198               |                    |        |
| 3,200.00<br>3,300.00 | 3,174.06<br>3,274.06      | 3,225.50<br>3,361.26      | 3,138.34<br>3,274.06      | 12.47<br>12.80    | 14.40          | 142.332<br>83.697           | 251.18<br>252.32       | 486.86<br>488.98     | 767.19<br>768.73           | 743.46<br>744.23            | 23.73<br>24.49                | 32.333<br>31.385     |                    |        |
| 3,400.00             | 3,374.06                  | 3,461.26                  | 3,374.06                  | 13.12             | 15.09          | 83.697                      | 252.32                 | 488.98               | 768.73                     | 743.57                      | 25.16                         | 30.559               |                    |        |
| 3,410.00             | 3,384.06                  | 3,471.26                  | 3,384.06                  | 13.15             | 15.12          | 83.697                      | 252.32                 | 488.98               | 768.73                     | 743.51                      | 25.22                         | 30.478               |                    |        |
| 3,500.00             | 3,474.06                  | 3,543.09                  | 3,455.89                  | 13.45             | 15.32          | 83.721                      | 252.03                 | 489.27               | 769.20                     | 743.42                      | 25.77                         | 29.844               |                    |        |
| 3,600.00             | 3,574.06                  | 3,600.00                  | 3,512.56                  | 13.77             | 15.49          | 84.008                      | 248.52                 | 492.78               | 774.55                     | 748.27                      | 26.27                         | 29.479               |                    |        |
| 3,700.00             | 3,674.06                  | 3,650.00                  | 3,561.73                  | 14.10             | 15.65          | 84.522                      | 242.16                 | 499.13               | 785.86                     | 759.20                      | 26.65                         | 29.483               |                    |        |
| 3,800.00             | 3,774.06                  | 3,700.00                  | 3,609.93                  | 14.43             | 15.82          | 85.266                      | 232.81                 | 508.49               | 803.22                     | 776.29                      | 26.94                         | 29.820               |                    |        |
| 3,900.00             | 3,874.05                  | 3,750.00                  | 3,656.79                  | 14.76             | 16.01          | -48.248                     | 220.51                 | 520.79               | 826.18                     | 799.06                      | 27.12                         | 30.465               |                    |        |
| 4,000.00             | 3,972.95                  | 3,800.00                  | 3,701.96                  | 15.01             | 16.21          | -45.987                     | 205.38                 | 535.92               | 846.58                     | 819.44                      | 27.15                         | 31.187               |                    |        |
| 4,100.00             | 4,067.92                  | 3,850.00                  | 3,745.09                  | 15.21             | 16.43          | -44.480                     | 187.52                 | 553.78               | 861.12                     | 834.06                      | 27.06                         | 31.823               |                    |        |
| 4,200.00             | 4,156.09                  | 3,900.00                  | 3,785.86                  | 15.38             | 16.67          | -43.680                     | 167.07                 | 574.23               | 869.34                     | 842.43                      | 26.91                         | 32.300               |                    |        |
| 4,300.00             | 4,234.78                  | 3,950.00                  | 3,823.95                  | 15.59             | 16.93          | -43.561                     | 144.18                 | 597.12               | 871.01                     | 844.23                      | 26.78                         | 32.523               |                    |        |
| 4,400.00             | 4,301.58                  | 3,985.68                  | 3,849.33                  | 15.87             | 17.14          | -44.052                     | 126.45                 | 614.84               | 865.83                     | 839.27                      | 26.56                         | 32.594               |                    |        |
| 4,500.00             | 4,354.48                  | 4,033.19                  | 3,880.62                  | 16.33             | 17.45          | -45.222                     | 101.19                 | 640.11               | 854.36                     | 827.62                      | 26.74                         | 31.956               |                    |        |
| 4,600.00<br>4,700.00 | 4,391.87<br>4,412.61      | 4,080.61<br>4,127.90      | 3,908.79<br>3,933.65      | 17.00<br>17.90    | 17.79<br>18.18 | -47.101<br>-49.735          | 74.22<br>45.79         | 667.08<br>695.51     | 836.76<br>813.59           | 809.50<br>785.32            | 27.26<br>28.26                | 30.698<br>28.786     |                    |        |
| 4,800.00             | 4,416.63                  | 4,175.13                  | 3,955.08                  | 18.99             | 18.60          | -52.533                     | 16.04                  | 725.26               | 785.98                     | 756.28                      | 29.71                         | 26.459               |                    |        |
| 4,900.00             | 4,415.81                  | 4,221.46                  | 3,972.66                  | 20.28             | 19.07          | -53.628                     | -14.26                 | 755.56               | 761.70                     | 730.20                      | 31.59                         | 24.110               |                    |        |
| 5,000.00             | 4,414.99                  | 4,278.20                  | 3,989.40                  | 21.74             | 19.71          | -54.707                     | -52.58                 | 793.88               | 743.56                     | 709.71                      | 33.85                         | 21.967               |                    |        |
| 5,100.00             | 4,414.17                  | 4,334.17                  | 4,000.58                  | 23.33             | 20.40          | -55.453                     | -91.34                 | 832.64               | 731.46                     | 695.19                      | 36.27                         | 20.168               |                    |        |
| 5,200.00             | 4,413.36                  | 4,400.00                  | 4,006.82                  | 25.03             | 21.27          | -55.894                     | -137.65                | 878.95               | 725.30                     | 686.46                      | 38.84                         | 18.674               |                    |        |
| 5,259.12             | 4,412.87                  | 4,426.79                  | 4,007.19                  | 26.09             | 21.65          | -55.933                     | -156.59                | 897.89               | 724.24                     | 683.98                      | 40.26                         | 17.987               |                    |        |
| 5,300.00             | 4,412.54                  | 4,467.22                  | 4,006.82                  | 26.82             | 22.24          | -55.930                     | -185.18                | 926.48               | 724.27                     | 682.85                      | 41.41                         | 17.488               |                    |        |
| 5,400.00             | 4,411.72                  | 4,567.22                  | 4,005.89                  | 28.68             | 23.79          | -55.923                     | -255.89                | 997.19               | 724.33                     | 679.98                      | 44.36                         | 16.330               |                    |        |
| 5,500.00             | 4,410.90                  | 4,667.22                  | 4,004.96                  | 30.60             | 25.46          | -55.915                     | -326.59                | 1,067.89             | 724.39                     | 676.97                      | 47.42                         | 15.276               |                    |        |
| 5,600.00             | 4,410.08                  | 4,767.22                  | 4,004.02                  | 32.57             | 27.22          | -55.908                     | -397.30                | 1,138.60             | 724.46                     | 673.87                      | 50.58                         | 14.322               |                    |        |
| 5,700.00             | 4,409.26                  | 4,867.22                  | 4,003.09                  | 34.58             | 29.06          | -55.901                     | -468.01                | 1,209.31             | 724.52                     | 670.69                      | 53.83                         | 13.460               |                    |        |
| 5,800.00             | 4,408.44                  | 4,967.22                  | 4,002.16                  | 36.62             | 30.96          | -55.893                     | -538.71                | 1,280.02             | 724.58                     | 667.44                      | 57.14                         | 12.681               |                    |        |
| 5,900.00             | 4,407.63                  | 5,067.22                  | 4,001.23                  | 38.69             | 32.91          | -55.886                     | -609.42                | 1,350.73             | 724.64                     | 664.14                      | 60.50                         | 11.977               |                    |        |
| 6,000.00             | 4,406.81                  | 5,167.22                  | 4,000.30                  | 40.78             | 34.90          | -55.879                     | -680.13                | 1,421.44             | 724.71                     | 660.80                      | 63.91                         | 11.340               |                    |        |
| 6,100.00             | 4,405.99                  | 5,267.22                  | 3,999.37                  | 42.90             | 36.94          | -55.871                     | -750.83                | 1,492.14             | 724.77                     | 657.42                      | 67.35                         | 10.762               |                    |        |
| 6,200.00             | 4,405.17                  | 5,367.22                  | 3,998.44                  | 45.03             | 39.00          | -55.864                     | -821.54                | 1,562.85             | 724.83                     | 654.02                      | 70.82                         | 10.235               |                    |        |
| 6,300.00             | 4,404.35                  | 5,467.22                  | 3,997.51                  | 47.18             | 41.08          | -55.857                     | -892.25                | 1,633.56             | 724.89                     | 650.59                      | 74.31                         | 9.756                |                    |        |
| 6,400.00             | 4,403.53                  | 5,567.22                  | 3,996.58                  | 49.34             | 43.19          | -55.849                     | -962.96                | 1,704.27             | 724.96                     | 647.14                      | 77.81                         | 9.317                |                    |        |
| 6,500.00<br>6,600.00 | 4,402.71<br>4,401.90      | 5,667.22<br>5,767.22      | 3,995.65<br>3,994.72      | 51.51<br>53.69    | 45.32<br>47.46 | -55.842<br>-55.835          | -1,033.66<br>-1,104.37 | 1,774.98<br>1,845.68 | 725.02<br>725.08           | 643.68<br>640.21            | 81.34<br>84.87                | 8.914<br>8.543       |                    |        |
|                      |                           |                           |                           |                   |                |                             |                        |                      |                            |                             |                               |                      |                    |        |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

| ırvey Progi               | ram: 0-l                  | MWD                       |                           |                   |                  |                             |                        |                      |                            | Rule Assi                   | aned.                         |                      | Offset Well Error: | 0.00 f |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|------------------|-----------------------------|------------------------|----------------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--------|
| Refe                      | rence                     | Offs                      |                           |                   | ajor Axis        |                             | Offset Wellbe          | ore Centre           |                            | ance                        | _                             |                      |                    | 0.001  |
| 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)   | Highside<br>Toolface<br>(°) | +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 | Warning            |        |
| 6,800.00                  | 4,400.26                  | 5,967.21                  | 3,992.86                  | 58.08             | 51.78            | -55.820                     | -1,245.78              | 1,987.10             | 725.21                     | 633.25                      | 91.96                         | 7.886                |                    |        |
| 6,900.00                  | 4,399.44                  | 6,067.21                  | 3,991.93                  | 60.29             | 53.96            | -55.813                     | -1,316.49              | 2,057.81             | 725.27                     | 629.76                      | 95.51                         | 7.593                |                    |        |
| 7,000.00                  | 4,398.62                  | 6,167.21                  | 3,991.00                  | 62.50             | 56.15            | -55.805                     | -1,387.20              | 2,128.52             | 725.33                     | 626.26                      | 99.07                         | 7.322                |                    |        |
| 7,100.00                  | 4,397.80                  | 6,267.21                  | 3,990.07                  | 64.72             | 58.34            | -55.798                     | -1,457.91              | 2,199.22             | 725.40                     | 622.77                      | 102.62                        | 7.068                |                    |        |
| 7,200.00                  | 4,396.98                  | 6,367.21                  | 3,989.13                  | 66.94             | 60.55            | -55.791                     | -1,528.61              | 2,269.93             | 725.46                     | 619.28                      | 106.18                        | 6.832                |                    |        |
| 7,300.00                  | 4,396.17                  | 6,467.21                  | 3,988.20                  | 69.17             | 62.76            | -55.783                     | -1,599.32              | 2,340.64             | 725.52                     | 615.79                      | 109.74                        | 6.612                |                    |        |
| 7,400.00                  | 4,395.35                  | 6,567.21                  | 3,987.27                  | 71.40             | 64.97            | -55.776                     | -1,670.03              | 2,411.35             | 725.58                     | 612.29                      | 113.29                        | 6.405                |                    |        |
| 7,500.00                  | 4,394.53                  | 6,667.21                  | 3,986.34                  | 73.64             | 67.19            | -55.769                     | -1,740.73              | 2,482.06             | 725.65                     | 608.81                      | 116.84                        | 6.211                |                    |        |
| 7,600.00                  | 4,393.71                  | 6,767.21                  | 3,985.41                  | 75.88             | 69.42            | -55.761                     | -1,811.44              | 2,552.76             | 725.71                     | 605.32                      | 120.39                        | 6.028                |                    |        |
| 7,700.00                  | 4,392.89                  | 6,867.21                  | 3,984.48                  | 78.12             | 71.65            | -55.754                     | -1,882.15              | 2,623.47             | 725.77                     | 601.84                      | 123.93                        | 5.856                |                    |        |
| 7,800.00                  | 4,392.07                  | 6,967.21                  | 3,983.55                  | 80.37             | 73.88            | -55.747                     | -1,952.85              | 2,694.18             | 725.83                     | 598.37                      | 127.46                        | 5.694                |                    |        |
| 7,900.00                  | 4,391.25                  | 7,067.21                  | 3,982.62                  | 82.61             | 76.12            | -55.739                     | -2,023.56              | 2,764.89             | 725.90                     | 594.90                      | 131.00                        | 5.541                |                    |        |
| 8,000.00                  | 4,390.44                  | 7,167.21                  | 3,981.69                  | 84.86             | 78.36            | -55.732                     | -2,094.27              | 2,835.60             | 725.96                     | 591.44                      | 134.52                        | 5.397                |                    |        |
| 8,100.00                  | 4,389.62                  | 7,267.21                  | 3,980.76                  | 87.12             | 80.61            | -55.725                     | -2,164.98              | 2,906.31             | 726.02                     | 587.98                      | 138.04                        | 5.260                |                    |        |
| 8,200.00                  | 4,388.80                  | 7,367.21                  | 3,979.83                  | 89.37             | 82.85            | -55.717                     | -2,235.68              | 2,977.01             | 726.09                     | 584.54                      | 141.55                        | 5.130                |                    |        |
| 8,300.00                  | 4,387.98                  | 7,467.21                  | 3,978.90                  | 91.63             | 85.10            | -55.710                     | -2,306.39              | 3,047.72             | 726.15                     | 581.10                      | 145.05                        | 5.006                |                    |        |
| 8,400.00                  | 4,387.16                  | 7,567.21                  | 3,977.97                  | 93.89             | 87.35            | -55.703                     | -2,377.10              | 3,118.43             | 726.21                     | 577.67                      | 148.55                        | 4.889                |                    |        |
| 8,500.00                  | 4,386.34                  | 7,667.21                  | 3,977.04                  | 96.15             | 89.61            | -55.695                     | -2,447.80              | 3,189.14             | 726.27                     | 574.24                      | 152.03                        | 4.777                |                    |        |
| 8,600.00                  | 4,385.52                  | 7,767.21                  | 3,976.11                  | 98.41             | 91.86            | -55.688                     | -2,518.51              | 3,259.85             | 726.34                     | 570.83                      | 155.51                        | 4.671                |                    |        |
| 8,700.00                  | 4,384.71                  | 7,867.21                  | 3,975.18                  | 100.67            | 94.12            | -55.681                     | -2,589.22              | 3,330.55             | 726.40                     | 567.42                      | 158.98                        | 4.569                |                    |        |
| 8,800.00                  | 4,383.89                  | 7,967.21                  | 3,974.24                  | 102.94            | 96.38            | -55.673                     | -2,659.93              | 3,401.26             | 726.46                     | 564.02                      | 162.44                        | 4.472                |                    |        |
|                           |                           |                           |                           |                   |                  |                             |                        |                      |                            |                             |                               |                      |                    |        |
| 8,900.00                  | 4,383.07                  | 8,067.21                  | 3,973.31                  | 105.20            | 98.64            | -55.666                     | -2,730.63              | 3,471.97             | 726.53                     | 560.63                      | 165.89                        | 4.380                |                    |        |
| 9,000.00                  | 4,382.25                  | 8,167.21                  | 3,972.38                  | 107.47            | 100.90           | -55.659                     | -2,801.34              | 3,542.68             | 726.59                     | 557.26                      | 169.33                        | 4.291                |                    |        |
| 9,100.00                  | 4,381.43                  | 8,267.21                  | 3,971.45                  | 109.74            | 103.17           | -55.651                     | -2,872.05              | 3,613.39             | 726.65                     | 553.89                      | 172.76                        | 4.206                |                    |        |
| 9,200.00<br>9,300.00      | 4,380.61<br>4,379.79      | 8,367.21<br>8,467.21      | 3,970.52<br>3,969.59      | 112.01<br>114.28  | 105.43<br>107.70 | -55.644<br>-55.637          | -2,942.75<br>-3,013.46 | 3,684.09<br>3,754.80 | 726.71<br>726.78           | 550.54<br>547.19            | 176.18<br>179.59              | 4.125<br>4.047       |                    |        |
| 9,300.00                  | 4,379.79                  | 0,407.21                  | 3,909.59                  | 114.20            | 107.70           | -55.657                     | -3,013.46              | 3,734.00             | 120.10                     | 547.19                      | 179.59                        | 4.047                |                    |        |
| 9,400.00                  | 4,378.98                  | 8,567.21                  | 3,968.66                  | 116.55            | 109.97           | -55.629                     | -3,084.17              | 3,825.51             | 726.84                     | 543.85                      | 182.99                        | 3.972                |                    |        |
| 9,500.00                  | 4,378.16                  | 8,667.21                  | 3,967.73                  | 118.82            | 112.24           | -55.622                     | -3,154.87              | 3,896.22             | 726.90                     | 540.53                      | 186.37                        | 3.900                |                    |        |
| 9,600.00                  | 4,377.34                  | 8,767.21                  | 3,966.80                  | 121.10            | 114.51           | -55.615                     | -3,225.58              | 3,966.93             | 726.97                     | 537.22                      | 189.75                        | 3.831                |                    |        |
| 9,700.00                  | 4,376.52                  | 8,867.21                  | 3,965.87                  | 123.37            | 116.78           | -55.608                     | -3,296.29              | 4,037.63             | 727.03                     | 533.92                      | 193.11                        | 3.765                |                    |        |
| 9,800.00                  | 4,375.70                  | 8,967.21                  | 3,964.94                  | 125.64            | 119.05           | -55.600                     | -3,367.00              | 4,108.34             | 727.09                     | 530.63                      | 196.47                        | 3.701                |                    |        |
| 9,900.00                  | 4,374.88                  | 9,067.21                  | 3,964.01                  | 127.92            | 121.32           | -55.593                     | -3,437.70              | 4,179.05             | 727.16                     | 527.35                      | 199.81                        | 3.639                |                    |        |
| 10,000.00                 | 4,374.06                  | 9,167.21                  | 3,963.08                  | 130.19            | 123.59           | -55.586                     | -3,508.41              | 4,249.76             | 727.10                     | 524.08                      | 203.14                        | 3.580                |                    |        |
| 10,100.00                 | 4,373.25                  | 9,267.21                  | 3,962.15                  | 132.47            | 125.87           | -55.578                     | -3,579.12              | 4,320.47             | 727.28                     | 520.83                      | 206.45                        | 3.523                |                    |        |
| 10,200.00                 | 4,372.43                  | 9,367.21                  | 3,961.22                  | 134.75            | 128.14           | -55.571                     | -3,649.82              | 4,391.18             | 727.34                     | 517.59                      | 209.76                        | 3.468                |                    |        |
| 10,300.00                 | 4,371.61                  | 9,467.21                  | 3,960.29                  | 137.03            | 130.42           | -55.564                     | -3,720.53              | 4,461.88             | 727.41                     | 514.36                      | 213.05                        | 3.414                |                    |        |
|                           |                           |                           |                           |                   |                  |                             |                        |                      |                            | _,                          |                               |                      |                    |        |
| 10,400.00                 | 4,370.79                  | 9,567.21                  | 3,959.35                  | 139.30            | 132.69           | -55.556                     | -3,791.24              | 4,532.59             | 727.47                     | 511.14                      | 216.33                        | 3.363                |                    |        |
| 10,500.00                 | 4,369.97                  | 9,667.21                  | 3,958.42                  | 141.58            | 134.97           | -55.549                     | -3,861.95              | 4,603.30             | 727.53                     | 507.94                      | 219.59                        | 3.313                |                    |        |
| 10,600.00                 | 4,369.15                  | 9,767.21                  | 3,957.49                  | 143.86            | 137.25           | -55.542                     | -3,932.65              | 4,674.01             | 727.60                     | 504.75                      | 222.85                        | 3.265                |                    |        |
| 10,700.00                 | 4,368.33<br>4,367.52      | 9,867.21<br>9,967.21      | 3,956.56<br>3,955.63      | 146.14<br>148.42  | 139.53<br>141.80 | -55.535<br>-55.527          | -4,003.36<br>-4,074.07 | 4,744.72<br>4,815.42 | 727.66<br>727.72           | 501.57<br>498.41            | 226.08<br>229.31              | 3.219<br>3.174       |                    |        |
| . 0,000.00                | 7,001.02                  | 0,001.21                  | 0,000.00                  | 140.42            | 1-1.00           | -00.021                     | -1,014.01              | 7,010.72             | 121.12                     | 730.41                      | 223.31                        | 5.114                |                    |        |
| 10,900.00                 | 4,366.70                  | 10,067.21                 | 3,954.70                  | 150.70            | 144.08           | -55.520                     | -4,144.77              | 4,886.13             | 727.79                     | 495.26                      | 232.52                        | 3.130                |                    |        |
| 11,000.00                 | 4,365.88                  | 10,167.21                 | 3,953.77                  | 152.98            | 146.36           | -55.513                     | -4,215.48              | 4,956.84             | 727.85                     | 492.12                      | 235.72                        | 3.088                |                    |        |
| 11,100.00                 | 4,365.06                  | 10,267.21                 | 3,952.84                  | 155.26            | 148.64           | -55.505                     | -4,286.19              | 5,027.55             | 727.91                     | 489.00                      | 238.91                        | 3.047                |                    |        |
| 11,200.00                 | 4,364.24                  | 10,367.21                 | 3,951.91                  | 157.55            | 150.92           | -55.498                     | -4,356.89              | 5,098.26             | 727.98                     | 485.89                      | 242.08                        | 3.007                |                    |        |
| 11,300.00                 | 4,363.42                  | 10,467.21                 | 3,950.98                  | 159.83            | 153.20           | -55.491                     | -4,427.60              | 5,168.96             | 728.04                     | 482.80                      | 245.24                        | 2.969                |                    |        |
| 11,400.00                 | 4,362.60                  | 10,567.21                 | 3,950.05                  | 162.11            | 155.48           | -55.484                     | -4,498.31              | 5,239.67             | 728.10                     | 479.72                      | 248.39                        | 2.931                |                    |        |
| 11,500.00                 | 4,361.79                  | 10,667.21                 | 3,949.12                  | 164.39            | 157.76           | -55.476                     | -4,569.02              | 5,310.38             | 728.17                     | 476.65                      | 251.52                        | 2.895                |                    |        |
| 11,600.00                 | 4,360.97                  | 10,767.21                 | 3,948.19                  | 166.68            | 160.05           | -55.469                     | -4,639.72              | 5,381.09             | 728.23                     | 473.60                      | 254.63                        | 2.860                |                    |        |
| 11,700.00                 | 4,360.15                  | 10,867.21                 | 3,947.26                  | 168.96            | 162.33           | -55.462                     | -4,710.43              | 5,451.80             | 728.29                     | 470.56                      | 257.73                        | 2.826                |                    |        |
| 11,800.00                 | 4,359.33                  | 10,967.21                 | 3,946.33                  | 171.24            | 164.61           | -55.454                     | -4,781.14              | 5,522.50             | 728.35                     | 467.53                      | 260.82                        | 2.793                |                    |        |
|                           |                           |                           |                           |                   |                  |                             |                        |                      |                            |                             |                               |                      |                    |        |
| 1,900.00                  | 4,358.51                  | 11,067.21                 | 3,945.40                  | 173.53            | 166.89           | -55.447                     | -4,851.84              | 5,593.21             | 728.42                     | 464.52                      | 263.89                        | 2.760                |                    |        |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft TVD Reference: MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17

Database: Offset TVD Reference: Offset Datum

| Offset De                 | sign: (                   | oreater Lybro             | OK (36, 37                | , 38 & 39) -      | Greater        | Lybrook Uni                 | t 37H - Origina | i Hole - revi | U                          |                             |                               |                      | Offset Site Error: | 0.00 ft |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|-----------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
|                           | rence                     | 0-MWD                     |                           |                   | Major Axis     |                             | Offset Wellb    | ore Centre    |                            | Rule Assi                   | -                             |                      | Offset Well Error: | 0.00 ft |
| 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) | Highside<br>Toolface<br>(°) | +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 | Warning            |         |
| 12.000.00                 | 4.357.6                   |                           | 3.944.46                  | 175.81            | 169.18         | -55,440                     | -4.922.55       | 5.663.92      | 728.48                     | 461.53                      | 266.95                        | 2.729                |                    |         |
| ,                         | 4,357.6                   |                           | - / -                     | 178.10            | 171.46         | -55.433                     | **              | .,            |                            |                             | 270.00                        | 2.729                |                    |         |
| 12,100.00                 | ,                         | , -                       | 3,943.53                  |                   |                |                             | -4,993.26       | 5,734.63      | 728.54                     | 458.55                      |                               |                      |                    |         |
| 12,200.00                 | 4,356.0                   | ,                         | 3,942.60                  | 180.38            | 173.74         | -55.425                     | -5,063.97       | 5,805.34      | 728.61                     | 455.58                      | 273.03                        | 2.669                |                    |         |
| 12,300.00                 | 4,355.2                   |                           | 3,941.67                  | 182.67            | 176.03         | -55.418                     | -5,134.67       | 5,876.04      | 728.67                     | 452.63                      | 276.04                        | 2.640                |                    |         |
| 12,400.00                 | 4,354.4                   | ,                         | 3,940.74                  | 184.95            | 178.31         | -55.411                     | -5,205.38       | 5,946.75      | 728.73                     | 449.69                      | 279.04                        | 2.612                |                    |         |
| 12,500.00                 | 4,353.6                   | 0 11,667.21               | 3,939.81                  | 187.24            | 180.60         | -55.404                     | -5,276.09       | 6,017.46      | 728.80                     | 446.77                      | 282.02                        | 2.584                |                    |         |
| 12,600.00                 | 4,352.7                   | 8 11,767.21               | 3,938.88                  | 189.52            | 182.88         | -55.396                     | -5,346.79       | 6,088.17      | 728.86                     | 443.87                      | 285.00                        | 2.557                |                    |         |
| 12,700.00                 | 4,351.9                   | 6 11,867.21               | 3,937.95                  | 191.81            | 185.17         | -55.389                     | -5,417.50       | 6,158.88      | 728.92                     | 440.97                      | 287.95                        | 2.531                |                    |         |
| 12,800.00                 | 4,351.1                   | 4 11,967.21               | 3,937.02                  | 194.09            | 187.45         | -55.382                     | -5,488.21       | 6,229.59      | 728.99                     | 438.10                      | 290.89                        | 2.506                |                    |         |
| 12,900.00                 | 4,350.3                   | 3 12,067.21               | 3,936.09                  | 196.38            | 189.74         | -55.374                     | -5,558.91       | 6,300.29      | 729.05                     | 435.23                      | 293.82                        | 2.481                |                    |         |
| 13,000.00                 | 4,349.5                   | 1 12,167.21               | 3,935.16                  | 198.67            | 192.02         | -55.367                     | -5,629.62       | 6,371.00      | 729.11                     | 432.39                      | 296.73                        | 2.457                |                    |         |
| 13,100.00                 | 4,348.6                   | 9 12,267.21               | 3,934.23                  | 200.95            | 194.31         | -55.360                     | -5,700.33       | 6,441.71      | 729.18                     | 429.56                      | 299.62                        | 2.434                |                    |         |
| 13,200.00                 | 4.347.8                   |                           | 3.933.30                  | 203.24            | 196.59         | -55.353                     | -5.771.04       | 6,512.42      | 729.24                     | 426.74                      | 302.50                        | 2.411                |                    |         |
| 13,300.00                 | 4.347.0                   | ,                         | 3,932.37                  | 205.52            | 198.88         | -55.345                     | -5.841.74       | 6,583.13      | 729.30                     | 423.93                      | 305.37                        | 2.388                |                    |         |
| 13,400.00                 | 4,346.2                   |                           | 3,931.44                  | 207.81            | 201.17         | -55.338                     | -5,912.45       | 6,653.83      | 729.37                     | 421.15                      | 308.22                        | 2.366                |                    |         |
| 13,500.00                 | 4,345.4                   |                           | 3,930.51                  | 210.10            | 203.45         | -55.331                     | -5,983.16       | 6,724.54      | 729.43                     | 418.38                      | 311.06                        | 2.345                |                    |         |
| 13,550.63                 | 4,345.0                   | 0 12,717.84               | 3,930.03                  | 211.26            | 204.61         | -55.327                     | -6,018.95       | 6,760.34      | 729.46                     | 416.98                      | 312.49                        | 2.334 SF             |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database:

Offset TVD Reference: Offset Datum

| Offset Des           | sign:             | Greater Lybro   | ook (36, 37      | , 38 & 39) -        | Greater              | Lybrook Un       | it 38H - Original | Hole - rev     | )               |                  |              |                  | Offset Site Error: | 0.00 ft |
|----------------------|-------------------|-----------------|------------------|---------------------|----------------------|------------------|-------------------|----------------|-----------------|------------------|--------------|------------------|--------------------|---------|
| Survey Progr         |                   | 0-MWD           |                  |                     |                      |                  |                   |                |                 | Rule Ass         | gned:        |                  | Offset Well Error: | 0.00 ft |
| Refer<br>Measured    | rence<br>Vertical | Off<br>Measured | fset<br>Vertical | Semi M<br>Reference | lajor Axis<br>Offset | Highside         | Offset Wellbo     | re Centre      | Dist<br>Between | tance<br>Between | Minimum      | Separation       | Warning            |         |
| Depth                | Depth             | Depth           | Depth            |                     |                      | Toolface         | +N/-S             | +E/-W          | Centres         | Ellipses         | Separation   | Factor           |                    |         |
| (ft)                 | (ft)              | (ft)            | (ft)             | (ft)                | (ft)                 | (°)              | (ft)              | (ft)           | (ft)            | (ft)             | (ft)         |                  |                    |         |
| 0.00                 | 0.0               |                 | 0.00             | 0.00                | 0.00                 | 89.978           | 0.02              | 40.12          | 40.12           | 20.57            | 0.55         | 70.455           |                    |         |
| 100.00               | 100.0             |                 | 100.00           | 0.27                | 0.27                 | 89.978           | 0.02              | 40.12          | 40.12           | 39.57            | 0.55         | 73.155           |                    |         |
| 200.00<br>300.00     | 200.0<br>300.0    |                 | 200.00<br>300.00 | 0.63<br>0.99        | 0.63<br>0.99         | 89.978<br>89.978 | 0.02<br>0.02      | 40.12<br>40.12 | 40.12<br>40.12  | 38.86<br>38.14   | 1.27<br>1.98 | 31.708<br>20.240 |                    |         |
| 400.00               | 400.0             |                 | 400.00           | 1.35                | 1.35                 | 89.978           | 0.02              | 40.12          | 40.12           | 37.42            | 2.70         | 14.864           |                    |         |
| 500.00               | 500.0             |                 | 500.00           | 1.71                | 1.71                 | 89.978           | 0.02              | 40.12          | 40.12           | 36.71            | 3.42         | 11.745           |                    |         |
| 000.00               | 000.0             | 000.00          | 000.00           |                     |                      | 00.070           | 0.02              |                |                 | 00               | 0.12         |                  |                    |         |
| 600.00               | 600.0             | 0 600.00        | 600.00           | 2.07                | 2.07                 | 89.978           | 0.02              | 40.12          | 40.12           | 35.99            | 4.13         | 9.708            |                    |         |
| 700.00               | 700.0             | 0 700.00        | 700.00           | 2.43                | 2.43                 | 89.978           | 0.02              | 40.12          | 40.12           | 35.27            | 4.85         | 8.273            |                    |         |
| 800.00               | 800.0             | 0 800.00        | 800.00           | 2.78                | 2.78                 | 89.978           | 0.02              | 40.12          | 40.12           | 34.56            | 5.57         | 7.207            |                    |         |
| 900.00               | 900.0             |                 | 900.00           | 3.14                | 3.14                 | 89.978           | 0.02              | 40.12          | 40.12           | 33.84            | 6.28         | 6.385            |                    |         |
| 1,000.00             | 1,000.0           | 0 1,000.00      | 1,000.00         | 3.50                | 3.50                 | 89.978           | 0.02              | 40.12          | 40.12           | 33.12            | 7.00         | 5.731 CC,        | ES                 |         |
| 1 100 00             | 1,099.9           | 5 1,097.96      | 1,097.92         | 3.86                | 3.85                 | 148.758          | 1.16              | 42.36          | 44.64           | 36.94            | 7.70         | 5.800            |                    |         |
| 1,100.00<br>1,200.00 | 1,199.6           |                 | 1,194.40         | 4.21                | 4.19                 | 149.094          | 4.53              | 48.96          | 58.13           | 49.75            | 8.37         | 6.941            |                    |         |
| 1,300.00             | 1,298.7           |                 | 1,194.40         | 4.21                | 4.19                 | 149.094          | 9.96              | 59.58          | 80.40           | 71.36            | 9.03         | 8.900            |                    |         |
| 1,400.00             | 1,397.3           |                 | 1,378.23         | 4.95                | 4.88                 | 149.320          | 17.23             | 73.80          | 109.94          | 100.27           | 9.67         | 11.371           |                    |         |
| 1,500.00             | 1,495.9           |                 | 1,464.99         | 5.35                | 5.24                 | 148.602          | 26.18             | 91.29          | 143.57          | 133.30           | 10.27        | 13.978           |                    |         |
|                      |                   |                 |                  |                     |                      |                  |                   |                |                 |                  |              |                  |                    |         |
| 1,600.00             | 1,594.4           |                 | 1,548.07         | 5.75                | 5.61                 | 147.514          | 36.58             | 111.65         | 181.03          | 170.19           | 10.85        | 16.690           |                    |         |
| 1,700.00             | 1,693.0           | 1 1,639.05      | 1,627.19         | 6.15                | 6.00                 | 146.339          | 48.23             | 134.43         | 222.21          | 210.80           | 11.40        | 19.487           |                    |         |
| 1,800.00             | 1,791.5           |                 | 1,702.20         | 6.57                | 6.41                 | 145.185          | 60.91             | 159.23         | 266.95          | 255.01           | 11.93        | 22.373           |                    |         |
| 1,900.00             | 1,890.1           |                 | 1,783.96         | 6.99                | 6.90                 | 144.099          | 75.69             | 188.14         | 313.58          | 300.96           | 12.61        | 24.861           |                    |         |
| 2,000.00             | 1,988.6           | 7 1,895.36      | 1,866.05         | 7.41                | 7.41                 | 143.289          | 90.53             | 217.16         | 360.28          | 346.96           | 13.31        | 27.063           |                    |         |
| 2,100.00             | 2,087.2           | 2 1,983.69      | 1,948.14         | 7.84                | 7.95                 | 142.665          | 105.37            | 246.18         | 407.02          | 393.00           | 14.02        | 29.026           |                    |         |
| 2,200.00             | 2,185.7           |                 | 2,030.23         | 8.26                | 8.50                 | 142.170          | 120.20            | 275.20         | 453.79          | 439.05           | 14.74        | 30.784           |                    |         |
| 2,300.00             | 2,284.3           |                 | 2,112.32         | 8.70                | 9.06                 | 141.767          | 135.04            | 304.23         | 500.59          | 485.12           | 15.47        | 32.366           |                    |         |
| 2,400.00             | 2,382.8           |                 | 2,194.41         | 9.13                | 9.63                 | 141.433          | 149.88            | 333.25         | 547.40          | 531.20           | 16.20        | 33.794           |                    |         |
| 2,500.00             | 2,481.4           |                 | 2,276.50         | 9.56                | 10.21                | 141.151          | 164.72            | 362.27         | 594.22          | 577.29           | 16.93        | 35.089           |                    |         |
|                      |                   |                 |                  |                     |                      |                  |                   |                |                 |                  |              |                  |                    |         |
| 2,600.00             | 2,579.9           | 8 2,425.32      | 2,358.60         | 10.00               | 10.80                | 140.911          | 179.56            | 391.30         | 641.05          | 623.38           | 17.68        | 36.267           |                    |         |
| 2,700.00             | 2,678.5           |                 | 2,440.69         | 10.44               | 11.40                | 140.703          | 194.39            | 420.32         | 687.89          | 669.47           | 18.42        | 37.342           |                    |         |
| 2,800.00             | 2,777.0           |                 | 2,522.78         | 10.88               | 12.00                | 140.522          | 209.23            | 449.34         | 734.74          | 715.57           | 19.17        | 38.327           |                    |         |
| 2,900.00             | 2,875.6           |                 | 2,604.87         | 11.32               | 12.60                | 140.362          | 224.07            | 478.36         | 781.59          | 761.67           | 19.92        | 39.231           |                    |         |
| 3,000.00             | 2,974.5           | 9 2,779.48      | 2,687.76         | 11.74               | 13.21                | 141.046          | 239.05            | 507.67         | 826.67          | 806.00           | 20.67        | 39.994           |                    |         |
| 3,100.00             | 3,074.1           | 5 2,870.24      | 2,772.11         | 12.13               | 13.84                | 141.419          | 254.30            | 537.49         | 868.12          | 846.71           | 21.41        | 40.557           |                    |         |
| 3,200.00             | 3,174.0           |                 | 2,857.70         | 12.47               | 14.48                | 141.520          | 269.77            | 567.75         | 905.88          | 883.75           | 22.13        | 40.936           |                    |         |
| 3,300.00             | 3,274.0           |                 | 2,944.05         | 12.80               | 15.13                | 82.340           | 285.38            | 598.28         | 941.01          | 918.16           | 22.85        | 41.191           |                    |         |
| 3,400.00             | 3,374.0           |                 | 3,030.43         | 13.12               | 15.78                | 81.625           | 300.99            | 628.82         | 976.15          | 952.58           | 23.57        | 41.422           |                    |         |
| 3,500.00             | 3,474.0           |                 | 3,116.81         | 13.45               | 16.44                | 80.959           | 316.61            | 659.36         | 1,011.41        | 987.12           | 24.29        | 41.643           |                    |         |
|                      |                   |                 |                  |                     |                      |                  |                   |                |                 |                  |              |                  |                    |         |
| 3,600.00             | 3,574.0           |                 | 3,203.19         | 13.77               | 17.09                | 80.337           | 332.22            | 689.90         | 1,046.79        | 1,021.78         | 25.01        | 41.854           |                    |         |
| 3,700.00             | 3,674.0           |                 | 3,289.57         | 14.10               | 17.75                | 79.756           | 347.83            | 720.44         | 1,082.27        | 1,056.53         | 25.73        | 42.057           |                    |         |
| 3,800.00             | 3,774.0           |                 | 3,375.96         | 14.43               | 18.41                | 79.211           | 363.45            | 750.98         | 1,117.84        | 1,091.38         | 26.46        | 42.251           |                    |         |
| 3,900.00             | 3,874.0           |                 | 3,462.41         | 14.76               | 19.07                | -55.423          | 379.08            | 781.54         | 1,153.07        | 1,125.90         | 27.17        | 42.434           |                    |         |
| 4,000.00             | 3,972.9           | 5 3,706.46      | 3,549.31         | 15.01               | 19.74                | -54.050          | 394.78            | 812.27         | 1,181.36        | 1,153.55         | 27.81        | 42.481           |                    |         |
| 4,100.00             | 4,067.9           | 2 3,798.24      | 3,634.61         | 15.21               | 20.39                | -54.059          | 410.20            | 842.42         | 1,200.39        | 1,172.02         | 28.38        | 42.302           |                    |         |
| 4,200.00             | 4,156.0           |                 | 3,715.72         | 15.38               | 21.02                | -55.197          | 424.86            | 871.10         | 1,210.75        | 1,181.86         | 28.89        | 41.903           |                    |         |
| 4,300.00             | 4,234.7           |                 | 3,790.18         | 15.59               | 21.59                | -57.217          | 438.32            | 897.43         | 1,213.59        | 1,184.18         | 29.41        | 41.267           |                    |         |
| 4,400.00             | 4,301.5           |                 | 3,855.72         | 15.87               | 22.09                | -59.834          | 450.17            | 920.60         | 1,210.52        | 1,180.53         | 29.99        | 40.359           |                    |         |
| 4,500.00             | 4,354.4           | 8 4,094.94      | 3,910.36         | 16.33               | 22.51                | -62.708          | 460.04            | 939.91         | 1,203.45        | 1,172.71         | 30.74        | 39.147           |                    |         |
|                      |                   |                 |                  |                     |                      |                  |                   |                |                 |                  |              |                  |                    |         |
| 4,600.00             | 4,391.8           |                 | 3,948.75         | 17.00               | 22.81                | -65.272          | 466.60            | 953.77         | 1,194.42        | 1,162.73         | 31.69        | 37.692           |                    |         |
| 4,700.00             | 4,412.6           |                 | 3,980.16         | 17.90               | 23.06                | -67.652          | 470.35            | 966.32         | 1,185.14        | 1,152.15         | 32.98        | 35.932           |                    |         |
| 4,800.00             | 4,416.6           |                 | 4,007.19         | 18.99               | 23.29                | -69.633          | 472.26            | 978.11         | 1,176.94        | 1,142.31         | 34.63        | 33.989           |                    |         |
| 4,879.00             | 4,415.9           |                 | 4,032.80         | 20.01               | 23.50                | -70.959          | 472.90            | 990.14         | 1,174.57        | 1,138.36         | 36.21        | 32.438           |                    |         |
| 4,900.00             | 4,415.8           | 1 4,237.54      | 4,041.20         | 20.28               | 23.58                | -71.394          | 472.86            | 994.28         | 1,174.73        | 1,138.07         | 36.66        | 32.045           |                    |         |
| 5,000.00             | 4,414.9           | 9 4,299.27      | 4,095.48         | 21.74               | 24.06                | -74.192          | 469.40            | 1,023.40       | 1,179.69        | 1,140.57         | 39.12        | 30.155           |                    |         |
| .,                   | .,                | .,200.27        |                  | 24                  |                      |                  |                   | .,0            | .,              | T,140.07         | 302          |                  |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at

DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

| Offset Des        | sign: Gre         | eater Lybro     | ook (36, 37     | 7, 38 & 39) -       | Greater              | Lybrook Uni | t 38H - Origina | l Hole - revi | )               |                  |            |            | Offset Site Error: | 0.00 ft |
|-------------------|-------------------|-----------------|-----------------|---------------------|----------------------|-------------|-----------------|---------------|-----------------|------------------|------------|------------|--------------------|---------|
| Survey Progr      |                   | MWD             |                 |                     |                      |             |                 |               |                 | Rule Assi        | gned:      |            | Offset Well Error: | 0.00 ft |
| Refer<br>Measured | rence<br>Vertical | Off<br>Measured | set<br>Vertical | Semi M<br>Reference | lajor Axis<br>Offset | Highside    | Offset Wellbo   | ore Centre    | Dist<br>Between | tance<br>Between | Minimum    | Separation | Warning            |         |
| Depth             | Depth             | Depth           | Depth           |                     |                      | Toolface    | +N/-S           | +E/-W         | Centres         | Ellipses         | Separation | Factor     | vvarming           |         |
| (ft)              | (ft)              | (ft)            | (ft)            | (ft)                | (ft)                 | (°)         | (ft)            | (ft)          | (ft)            | (ft)             | (ft)       |            |                    |         |
| 5,100.00          | 4,414.17          | 4,389.27        | 4,170.10        | 23.33               | 24.78                | -78.003     | 454.28          | 1,071.20      | 1,189.93        | 1,147.98         | 41.94      | 28.370     |                    |         |
| 5,200.00          | 4,413.36          | 4,659.79        | 4,347.55        | 25.03               | 27.06                | -86.829     | 345.10          | 1,239.65      | 1,199.53        | 1,153.55         | 45.98      | 26.087     |                    |         |
| 5,300.00          | 4,412.54          | 4,830.16        | 4,409.55        | 26.82               | 28.65                | -89.858     | 235.85          | 1,353.84      | 1,199.86        | 1,150.51         | 49.35      | 24.314     |                    |         |
| 5,313.91          | 4,412.42          | 4,843.68        | 4,412.47        | 27.08               | 28.79                | -90.002     | 226.52          | 1,363.17      | 1,199.86        | 1,150.07         | 49.79      | 24.100     |                    |         |
| 5,400.00          | 4,411.72          | 4,929.93        | 4,423.69        | 28.68               | 29.73                | -90.571     | 166.11          | 1,423.59      | 1,199.91        | 1,147.29         | 52.62      | 22.802     |                    |         |
| 5,500.00          | 4,410.90          | 5,030.55        | 4,424.84        | 30.60               | 30.94                | -90.666     | 94.97           | 1,494.72      | 1,199.94        | 1,143.98         | 55.95      | 21.446     |                    |         |
| 5,600.00          | 4,410.08          | 5,130.55        | 4,425.24        | 32.57               | 32.26                | -90.724     | 24.27           | 1,565.43      | 1,199.95        | 1,140.28         | 59.67      | 20.108     |                    |         |
| 5,700.00          | 4,409.26          | 5,230.54        | 4,425.64        | 34.58               | 33.68                | -90.782     | -46.44          | 1,636.13      | 1,199.96        | 1,136.53         | 63.43      | 18.917     |                    |         |
| 5,800.00          | 4,408.44          | 5,330.53        | 4,426.04        | 36.62               | 35.20                | -90.840     | -117.14         | 1,706.84      | 1,199.98        | 1,132.69         | 67.29      | 17.833     |                    |         |
| 5,900.00          | 4,407.63          | 5,430.52        | 4,426.44        | 38.69               | 36.81                | -90.898     | -187.85         | 1,777.54      | 1,200.00        | 1,128.77         | 71.23      | 16.846     |                    |         |
| 6,000.00          | 4,406.81          | 5,530.52        | 4,426.84        | 40.78               | 38.49                | -90.956     | -258.55         | 1,848.25      | 1,200.02        | 1,124.77         | 75.25      | 15.948     |                    |         |
| 6,100.00          | 4,405.99          | 5,630.51        | 4,427.24        | 42.90               | 40.23                | -91.015     | -329.26         | 1,918.95      | 1,200.04        | 1,120.71         | 79.33      | 15.128     |                    |         |
| 6,200.00          | 4,405.17          | 5,730.50        | 4,427.64        | 45.03               | 42.03                | -91.073     | -399.96         | 1,989.66      | 1,200.06        | 1,116.60         | 83.46      | 14.379     |                    |         |
| 6,300.00          | 4,404.35          | 5,830.49        | 4,428.04        | 47.18               | 43.88                | -91.131     | -470.67         | 2,060.36      | 1,200.08        | 1,112.45         | 87.63      | 13.694     |                    |         |
| 6,400.00          | 4,403.53          | 5,930.49        | 4,428.44        | 49.34               | 45.77                | -91.189     | -541.37         | 2,131.07      | 1,200.11        | 1,108.25         | 91.85      | 13.066     |                    |         |
| 6,500.00          | 4,402.71          | 6,030.48        | 4,428.84        | 51.51               | 47.70                | -91.247     | -612.08         | 2,201.77      | 1,200.13        | 1,104.03         | 96.10      | 12.488     |                    |         |
| 6,600.00          | 4,401.90          | 6,130.47        | 4,429.24        | 53.69               | 49.67                | -91.305     | -682.78         | 2,272.48      | 1,200.16        | 1,099.78         | 100.38     | 11.956     |                    |         |
| 6,700.00          | 4,401.08          | 6,230.46        | 4,429.64        | 55.88               | 51.66                | -91.363     | -753.49         | 2,343.18      | 1,200.18        | 1,095.50         | 104.69     | 11.465     |                    |         |
| 6,800.00          | 4,400.26          | 6,330.46        | 4,430.04        | 58.08               | 53.67                | -91.422     | -824.19         | 2,413.89      | 1,200.21        | 1,091.20         | 109.01     | 11.010     |                    |         |
| 6,900.00          | 4,399.44          | 6,430.45        | 4,430.44        | 60.29               | 55.71                | -91.480     | -894.89         | 2,484.59      | 1,200.24        | 1,086.88         | 113.36     | 10.588     |                    |         |
| 7,000.00          | 4,398.62          | 6,530.44        | 4,430.83        | 62.50               | 57.77                | -91.538     | -965.60         | 2,555.30      | 1,200.27        | 1,082.55         | 117.73     | 10.196     |                    |         |
| ,,,,,,,,,,,       | .,                | -,              | .,              |                     |                      |             |                 | _,            | .,              | .,               |            |            |                    |         |
| 7,100.00          | 4,397.80          | 6,630.43        | 4,431.23        | 64.72               | 59.85                | -91.596     | -1,036.30       | 2,626.00      | 1,200.31        | 1,078.20         | 122.11     | 9.830      |                    |         |
| 7,200.00          | 4,396.98          | 6,730.43        | 4,431.63        | 66.94               | 61.95                | -91.654     | -1,107.01       | 2,696.71      | 1,200.34        | 1,073.84         | 126.50     | 9.489      |                    |         |
| 7,300.00          | 4,396.17          | 6,830.42        | 4,432.03        | 69.17               | 64.05                | -91.712     | -1,177.71       | 2,767.41      | 1,200.38        | 1,069.47         | 130.91     | 9.170      |                    |         |
| 7,400.00          | 4,395.35          | 6,930.41        | 4,432.43        | 71.40               | 66.17                | -91.770     | -1,248.42       | 2,838.12      | 1,200.41        | 1,065.09         | 135.32     | 8.871      |                    |         |
| 7,500.00          | 4,394.53          | 7,030.40        | 4,432.83        | 73.64               | 68.31                | -91.828     | -1,319.12       | 2,908.83      | 1,200.45        | 1,060.70         | 139.75     | 8.590      |                    |         |
| 7,600.00          | 4,393.71          | 7,130.40        | 4,433.23        | 75.88               | 70.45                | -91.886     | -1,389.83       | 2,979.53      | 1,200.49        | 1,056.30         | 144.19     | 8.326      |                    |         |
| 7,700.00          | 4,392.89          | 7,230.39        | 4,433.63        | 78.12               | 72.60                | -91.945     | -1,460.53       | 3,050.24      | 1,200.53        | 1,051.90         | 148.63     | 8.077      |                    |         |
| 7,800.00          | 4,392.07          | 7,330.38        | 4,434.03        | 80.37               | 74.76                | -92.003     | -1,531.24       | 3,120.94      | 1,200.57        | 1,047.49         | 153.08     | 7.843      |                    |         |
| 7,900.00          | 4,391.25          | 7,430.37        | 4,434.43        | 82.61               | 76.93                | -92.061     | -1,601.94       | 3,191.65      | 1,200.61        | 1,043.07         | 157.54     | 7.621      |                    |         |
| 8,000.00          | 4,390.44          | 7,530.37        | 4,434.83        | 84.86               | 79.11                | -92.119     | -1,672.65       | 3,262.35      | 1,200.66        | 1,038.65         | 162.01     | 7.411      |                    |         |
| 8,100.00          | 4,389.62          | 7,630.36        | 4,435.23        | 87.12               | 81.29                | -92.177     | -1,743.35       | 3,333.06      | 1,200.70        | 1,034.23         | 166.48     | 7.212      |                    |         |
| 8,200.00          | 4,388.80          | 7,730.35        | 4,435.63        | 89.37               | 83.48                | -92.235     | -1,814.05       | 3,403.76      | 1,200.75        | 1,029.80         | 170.95     | 7.024      |                    |         |
| 8,300.00          | 4,387.98          | 7,830.35        | 4,436.03        | 91.63               | 85.68                | -92.293     | -1,884.76       | 3,474.47      | 1,200.79        | 1,025.36         | 175.43     | 6.845      |                    |         |
| 8,400.00          | 4,387.16          | 7,930.34        | 4,436.43        | 93.89               | 87.88                | -92.351     | -1,955.46       | 3,545.17      | 1,200.73        | 1,020.93         | 179.91     | 6.675      |                    |         |
| 8,500.00          | 4,386.34          | 8,030.33        | 4,436.83        | 96.15               | 90.08                | -92.409     | -2,026.17       | 3,615.88      | 1,200.89        | 1,016.49         | 184.40     | 6.513      |                    |         |
| 8,600.00          | 4,385.52          | 8,130.32        | 4,437.23        | 98.41               | 92.29                | -92.467     | -2,096.87       | 3,686.58      | 1,200.94        | 1,012.06         | 188.89     | 6.358      |                    |         |
| 8,700.00          | 4,384.71          | 8,230.32        | 4,437.62        | 100.67              | 94.51                | -92.525     | -2,167.58       | 3,757.29      | 1,201.00        | 1,007.61         | 193.38     | 6.211      |                    |         |
| 8,800.00          | 4,383.89          | 8,330.31        | 4,438.02        | 102.94              | 96.73                | -92.583     | -2,238.28       | 3,827.99      | 1,201.05        | 1,003.17         | 197.88     | 6.070      |                    |         |
| 8,900.00          | 4,383.07          | 8,430.30        | 4,438.42        | 105.20              | 98.95                | -92.641     | -2,308.99       | 3,898.70      | 1,201.10        | 998.73           | 202.37     | 5.935      |                    |         |
| 9,000.00          | 4,382.25          | 8,530.29        | 4,438.82        | 107.47              | 101.17               | -92.699     | -2,379.69       | 3,969.40      | 1,201.16        | 994.29           | 206.87     | 5.806      |                    |         |
| 9,100.00          | 4,381.43          | 8,630.29        | 4,439.22        | 109.74              | 103.40               | -92.757     | -2,450.40       | 4,040.11      | 1,201.22        | 989.84           | 211.38     | 5.683      |                    |         |
| 9,200.00          | 4,380.61          | 8,730.28        | 4,439.62        | 112.01              | 105.63               | -92.815     | -2,521.10       | 4,110.81      | 1,201.28        | 985.40           | 215.88     | 5.565      |                    |         |
| 9,300.00          | 4,379.79          | 8,830.27        | 4,440.02        | 114.28              | 107.86               | -92.873     | -2,591.81       | 4,181.52      | 1,201.33        | 980.95           | 220.39     | 5.451      |                    |         |
| 9,400.00          | 4,378.98          | 8,930.26        | 4,440.42        | 116.55              | 110.10               | -92.931     | -2,662.51       | 4,252.22      | 1,201.40        | 976.50           | 224.89     | 5.342      |                    |         |
| 9,500.00          | 4,378.16          | 9,030.26        | 4,440.82        | 118.82              | 112.34               | -92.989     | -2,733.22       | 4,322.93      | 1,201.46        | 972.06           | 229.40     | 5.237      |                    |         |
| 9,600.00          | 4,377.34          | 9,130.25        | 4,441.22        | 121.10              | 114.58               | -93.047     | -2,803.92       | 4,393.63      | 1,201.52        | 967.61           | 233.91     | 5.137      |                    |         |
| 9,700.00          | 4,376.52          | 9,230.24        | 4,441.62        | 123.37              | 116.82               | -93.105     | -2,874.62       | 4,464.34      | 1,201.59        | 963.16           | 238.42     | 5.040      |                    |         |
| 9,800.00          | 4,375.70          | 9,330.23        | 4,442.02        | 125.64              | 119.06               | -93.163     | -2,945.33       | 4,535.04      | 1,201.65        | 958.72           | 242.93     | 4.946      |                    |         |
| 9,900.00          | 4,374.88          | 9,430.23        | 4,442.42        | 127.92              | 121.31               | -93.221     | -3,016.03       | 4,605.75      | 1,201.72        | 954.27           | 247.45     | 4.856      |                    |         |
| 10,000.00         | 4,374.06          | 9,530.22        | 4,442.82        | 130.19              | 123.56               | -93.279     | -3,086.74       | 4,676.45      | 1,201.79        | 949.83           | 251.96     | 4.770      |                    |         |
| 10,100.00         | 4,373.25          | 9,630.21        | 4,443.22        | 132.47              | 125.81               | -93.337     | -3,157.44       | 4,747.16      | 1,201.86        | 945.38           | 256.47     | 4.686      |                    |         |
|                   |                   |                 |                 |                     |                      |             |                 |               |                 |                  |            |            |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

| ffset De                  | sign: G                    | neater Lybro              | UK (30, 37               | , 38 & 39) -        | Greater             | Lybrook Unit         | 38H - Origina         | ıı ⊓ole - rev       | U                         |                              |                       |                      | Offset Site Error: | 0.00 f |
|---------------------------|----------------------------|---------------------------|--------------------------|---------------------|---------------------|----------------------|-----------------------|---------------------|---------------------------|------------------------------|-----------------------|----------------------|--------------------|--------|
| urvey Prog                |                            | 0-MWD                     |                          |                     |                     |                      |                       |                     |                           | Rule Assi                    | gned:                 |                      | Offset Well Error: | 0.00 f |
| Refe<br>Measured<br>Depth | rence<br>Vertical<br>Depth | Offs<br>Measured<br>Depth | set<br>Vertical<br>Depth | Semi M<br>Reference | ajor Axis<br>Offset | Highside<br>Toolface | Offset Wellb<br>+N/-S | ore Centre<br>+E/-W | Dis<br>Between<br>Centres | tance<br>Between<br>Ellipses | Minimum<br>Separation | Separation<br>Factor | Warning            |        |
| (ft)                      | (ft)                       | (ft)                      | (ft)                     | (ft)                | (ft)                | (°)                  | (ft)                  | (ft)                | (ft)                      | (ft)                         | (ft)                  | i uctoi              |                    |        |
| 10,200.00                 | 4,372.43                   | 9,730.20                  | 4,443.62                 | 134.75              | 128.06              | -93.395              | -3,228.15             | 4,817.86            | 1,201.93                  | 940.94                       | 260.98                | 4.605                |                    |        |
| 10,300.00                 | 4,371.61                   | 9,830.20                  | 4,444.01                 | 137.03              | 130.31              | -93.453              | -3,298.85             | 4,888.57            | 1,202.00                  | 936.50                       | 265.50                | 4.527                |                    |        |
| 10,400.00                 | 4,370.79                   | 9,930.19                  | 4,444.41                 | 139.30              | 132.57              | -93.511              | -3,369.56             | 4,959.27            | 1,202.07                  | 932.06                       | 270.01                | 4.452                |                    |        |
| 10,500.00                 | 4,369.97                   | 7 10,030.18               | 4,444.81                 | 141.58              | 134.82              | -93.569              | -3,440.26             | 5,029.98            | 1,202.15                  | 927.62                       | 274.53                | 4.379                |                    |        |
| 10,600.00                 | 4,369.15                   | 5 10,130.17               | 4,445.21                 | 143.86              | 137.08              | -93.627              | -3,510.97             | 5,100.68            | 1,202.22                  | 923.18                       | 279.04                | 4.308                |                    |        |
| 10,700.00                 | 4,368.33                   | 3 10,230.17               | 4,445.61                 | 146.14              | 139.34              | -93.685              | -3,581.67             | 5,171.39            | 1,202.30                  | 918.75                       | 283.55                | 4.240                |                    |        |
| 10,800.00                 | 4,367.52                   | 2 10,330.16               | 4,446.01                 | 148.42              | 141.60              | -93.743              | -3,652.38             | 5,242.09            | 1,202.38                  | 914.31                       | 288.07                | 4.174                |                    |        |
| 10,900.00                 | 4,366.70                   | 10,430.15                 | 4,446.41                 | 150.70              | 143.86              | -93.801              | -3,723.08             | 5,312.80            | 1,202.46                  | 909.88                       | 292.58                | 4.110                |                    |        |
| 11,000.00                 | 4,365.88                   | 3 10,530.14               | 4,446.81                 | 152.98              | 146.12              | -93.859              | -3,793.79             | 5,383.50            | 1,202.54                  | 905.45                       | 297.09                | 4.048                |                    |        |
| 11,100.00                 | 4,365.06                   | 10,630.14                 | 4,447.21                 | 155.26              | 148.38              | -93.917              | -3,864.49             | 5,454.21            | 1,202.62                  | 901.01                       | 301.60                | 3.987                |                    |        |
| 11,200.00                 | 4,364.24                   | 10,730.13                 | 4,447.61                 | 157.55              | 150.64              | -93.975              | -3,935.19             | 5,524.91            | 1,202.70                  | 896.59                       | 306.12                | 3.929                |                    |        |
| 1,300.00                  | 4,363.42                   | 2 10,830.12               | 4,448.01                 | 159.83              | 152.91              | -94.032              | -4,005.90             | 5,595.62            | 1,202.79                  | 892.16                       | 310.63                | 3.872                |                    |        |
| 1,400.00                  | 4,362.60                   | 10,930.12                 | 4,448.41                 | 162.11              | 155.17              | -94.090              | -4,076.60             | 5,666.32            | 1,202.87                  | 887.73                       | 315.14                | 3.817                |                    |        |
| 1,500.00                  | 4,361.79                   | 11,030.11                 | 4,448.81                 | 164.39              | 157.44              | -94.148              | -4,147.31             | 5,737.03            | 1,202.96                  | 883.31                       | 319.65                | 3.763                |                    |        |
| 1,600.00                  | 4,360.97                   | 7 11,130.10               | 4,449.21                 | 166.68              | 159.71              | -94.206              | -4,218.01             | 5,807.73            | 1,203.05                  | 878.89                       | 324.15                | 3.711                |                    |        |
| 1,700.00                  | 4,360.15                   | 11,230.09                 | 4,449.61                 | 168.96              | 161.97              | -94.264              | -4,288.72             | 5,878.44            | 1,203.14                  | 874.47                       | 328.66                | 3.661                |                    |        |
| 1,800.00                  | 4,359.33                   | 3 11,330.09               | 4,450.01                 | 171.24              | 164.24              | -94.322              | -4,359.42             | 5,949.14            | 1,203.23                  | 870.06                       | 333.17                | 3.611                |                    |        |
| 1,900.00                  | 4,358.51                   | 1 11,430.08               | 4,450.41                 | 173.53              | 166.51              | -94.379              | -4,430.13             | 6,019.85            | 1,203.32                  | 865.64                       | 337.67                | 3.564                |                    |        |
| 2,000.00                  | 4,357.69                   | 11,530.07                 | 4,450.80                 | 175.81              | 168.78              | -94.437              | -4,500.83             | 6,090.55            | 1,203.41                  | 861.23                       | 342.18                | 3.517                |                    |        |
| 2,100.00                  | 4,356.87                   | 7 11,630.06               | 4,451.20                 | 178.10              | 171.05              | -94.495              | -4,571.54             | 6,161.26            | 1,203.50                  | 856.82                       | 346.68                | 3.471                |                    |        |
| 2,200.00                  | 4,356.06                   | 11,730.06                 | 4,451.60                 | 180.38              | 173.32              | -94.553              | -4,642.24             | 6,231.96            | 1,203.60                  | 852.41                       | 351.19                | 3.427                |                    |        |
| 2,300.00                  | 4,355.24                   | 11,830.05                 | 4,452.00                 | 182.67              | 175.59              | -94.611              | -4,712.95             | 6,302.67            | 1,203.70                  | 848.01                       | 355.69                | 3.384                |                    |        |
| 2,400.00                  | 4,354.42                   | 11,930.04                 | 4,452.40                 | 184.95              | 177.86              | -94.668              | -4,783.65             | 6,373.37            | 1,203.79                  | 843.61                       | 360.18                | 3.342                |                    |        |
| 2,500.00                  | 4,353.60                   | 12,030.03                 | 4,452.80                 | 187.24              | 180.14              | -94.726              | -4,854.36             | 6,444.08            | 1,203.89                  | 839.21                       | 364.68                | 3.301                |                    |        |
| 2,600.00                  | 4,352.78                   | 3 12,130.03               | 4,453.20                 | 189.52              | 182.41              | -94.784              | -4,925.06             | 6,514.78            | 1,203.99                  | 834.81                       | 369.18                | 3.261                |                    |        |
| 2,700.00                  | 4,351.96                   | 12,230.02                 | 4,453.60                 | 191.81              | 184.68              | -94.842              | -4,995.76             | 6,585.49            | 1,204.09                  | 830.42                       | 373.67                | 3.222                |                    |        |
| 2,800.00                  | 4,351.14                   | 12,330.01                 | 4,454.00                 | 194.09              | 186.96              | -94.900              | -5,066.47             | 6,656.19            | 1,204.20                  | 826.03                       | 378.17                | 3.184                |                    |        |
| 2,900.00                  | 4,350.33                   | 3 12,430.00               | 4,454.40                 | 196.38              | 189.23              | -94.957              | -5,137.17             | 6,726.90            | 1,204.30                  | 821.64                       | 382.66                | 3.147                |                    |        |
| 3,000.00                  | 4,349.51                   | 1 12,530.00               | 4,454.80                 | 198.67              | 191.51              | -95.015              | -5,207.88             | 6,797.60            | 1,204.41                  | 817.26                       | 387.15                | 3.111                |                    |        |
| 3,100.00                  | 4,348.69                   | 12,629.99                 | 4,455.20                 | 200.95              | 193.78              | -95.073              | -5,278.58             | 6,868.31            | 1,204.51                  | 812.87                       | 391.64                | 3.076                |                    |        |
| 3,200.00                  | 4,347.87                   | 7 12,729.98               | 4,455.60                 | 203.24              | 196.06              | -95.130              | -5,349.29             | 6,939.01            | 1,204.62                  | 808.50                       | 396.12                | 3.041                |                    |        |
| 3,300.00                  | 4,347.05                   | 5 12,829.97               | 4,456.00                 | 205.52              | 198.34              | -95.188              | -5,419.99             | 7,009.72            | 1,204.73                  | 804.12                       | 400.61                | 3.007                |                    |        |
| 3,400.00                  | 4,346.23                   | 3 12,929.97               | 4,456.40                 | 207.81              | 200.61              | -95.246              | -5,490.70             | 7,080.42            | 1,204.84                  | 799.75                       | 405.09                | 2.974                |                    |        |
| 13,500.00                 | 4,345.41                   | 1 13,029.96               | 4,456.80                 | 210.10              | 202.89              | -95.303              | -5,561.40             | 7,151.13            | 1,204.95                  | 795.38                       | 409.57                | 2.942                |                    |        |
| 13,550.63                 | 4,345.00                   | 13,080.58                 | 4,457.00                 | 211.26              | 204.04              | -95.333              | -5,597.20             | 7,186.93            | 1,205.01                  | 793.17                       | 411.84                | 2.926 SF             |                    |        |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Offset TVD Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database:

Offset Datum

| Offset De     | sign: Or      | eater Lybro   | ok (00, 07    | , 00 0 00) | O. Gato.  | _,              | 3             |               |                 |                  |                    |                  | Offset Site Error: | 0.00 |
|---------------|---------------|---------------|---------------|------------|-----------|-----------------|---------------|---------------|-----------------|------------------|--------------------|------------------|--------------------|------|
| urvey Prog    | ram: 0-N      | /IWD<br>Offs  | 4             | Com: M     | aior Axis |                 | Offset Wellbe | ana Cambra    | Dies            | Rule Assi        | gned:              |                  | Offset Well Error: | 0.00 |
| Measured      | Vertical      | Measured      | Vertical      | Reference  | Offset    | Highside        |               |               | Between         | Between          | Minimum            | Separation       | Warning            |      |
| Depth<br>(ft) | Depth<br>(ft) | Depth<br>(ft) | Depth<br>(ft) | (ft)       | (ft)      | Toolface<br>(°) | +N/-S<br>(ft) | +E/-W<br>(ft) | Centres<br>(ft) | Ellipses<br>(ft) | Separation<br>(ft) | Factor           |                    |      |
| 0.00          | 0.00          | 0.00          | 0.00          | 0.00       | 0.00      | 89.978          | 0.02          | 59.89         | 59.89           | . ,              | , ,                |                  |                    |      |
| 100.00        | 100.00        | 100.00        | 100.00        | 0.27       | 0.27      | 89.978          | 0.02          | 59.89         | 59.89           | 59.34            | 0.55               | 109.195          |                    |      |
| 200.00        | 200.00        | 200.00        | 200.00        | 0.63       | 0.63      | 89.978          | 0.02          | 59.89         | 59.89           | 58.62            | 1.27               | 47.328           |                    |      |
| 300.00        | 300.00        | 300.00        | 300.00        | 0.99       | 0.99      | 89.978          | 0.02          | 59.89         | 59.89           | 57.91            | 1.98               | 30.211           |                    |      |
| 400.00        | 400.00        | 400.00        | 400.00        | 1.35       | 1.35      | 89.978          | 0.02          | 59.89         | 59.89           | 57.19            | 2.70               | 22.187           |                    |      |
| 500.00        | 500.00        | 500.00        | 500.00        | 1.71       | 1.71      | 89.978          | 0.02          | 59.89         | 59.89           | 56.47            | 3.42               | 17.531 CC, I     | ES                 |      |
| 600.00        | 600.00        | 597.83        | 597.78        | 2.07       | 2.06      | 88.271          | 1.86          | 61.59         | 61.66           | 57.54            | 4.12               | 14.956           |                    |      |
| 700.00        | 700.00        | 695.14        | 694.80        | 2.43       | 2.41      | 83.729          | 7.33          | 66.66         | 67.27           | 62.44            | 4.82               | 13.943 SF        |                    |      |
| 800.00        | 800.00        | 791.45        | 790.32        | 2.78       | 2.77      | 77.740          | 16.29         | 74.98         | 77.34           | 71.83            | 5.52               | 14.020           |                    |      |
| 900.00        | 900.00        | 886.29        | 883.66        | 3.14       | 3.14      | 71.699          | 28.57         | 86.37         | 92.42           | 86.23            | 6.19               | 14.922           |                    |      |
| 1,000.00      | 1,000.00      | 979.24        | 974.22        | 3.50       | 3.54      | 66.431          | 43.87         | 100.57        | 112.71          | 105.86           | 6.85               | 16.457           |                    |      |
| 1,100.00      | 1,099.95      | 1,069.74      | 1,061.33      | 3.86       | 3.96      | 120.969         | 61.86         | 117.26        | 139.39          | 131.91           | 7.48               | 18.629           |                    |      |
|               |               |               |               |            |           |                 |               |               |                 |                  |                    |                  |                    |      |
| 1,200.00      | 1,199.63      | 1,157.08      | 1,144.19      | 4.21       | 4.42      | 118.821         | 82.08         | 136.01        | 173.07          | 164.97           | 8.10               | 21.368           |                    |      |
| 1,300.00      | 1,298.77      | 1,240.70      | 1,222.27      | 4.58       | 4.89      | 117.745         | 104.01        | 156.35        | 213.07          | 204.37           | 8.70               | 24.489           |                    |      |
| 1,400.00      | 1,397.35      | 1,320.51      | 1,295.50      | 4.95       | 5.39      | 117.940         | 127.26        | 177.92        | 258.35          | 249.06<br>297.25 | 9.29<br>9.90       | 27.797<br>31.019 |                    |      |
| 1,500.00      | 1,495.90      | 1,400.00      | 1,367.06      | 5.35       | 5.93      | 118.113         | 152.63        | 201.46        | 307.15          | 297.25           | 9.90               | 31.019           |                    |      |
| 1,600.00      | 1,594.45      | 1,470.42      | 1,429.20      | 5.75       | 6.47      | 118.059         | 176.91        | 223.98        | 359.13          | 348.71           | 10.42              | 34.470           |                    |      |
| 1,700.00      | 1,693.01      | 1,541.78      | 1,490.88      | 6.15       | 7.03      | 117.872         | 203.20        | 248.37        | 414.11          | 403.14           | 10.97              | 37.756           |                    |      |
| 1,800.00      | 1,791.56      | 1,624.49      | 1,561.76      | 6.57       | 7.73      | 117.645         | 234.46        | 277.37        | 470.29          | 458.59           | 11.70              | 40.194           |                    |      |
| 1,900.00      | 1,890.11      | 1,707.21      | 1,632.64      | 6.99       | 8.44      | 117.467         | 265.72        | 306.37        | 526.48          | 514.03           | 12.44              | 42.306           |                    |      |
| 2,000.00      | 1,988.67      | 1,789.92      | 1,703.52      | 7.41       | 9.16      | 117.322         | 296.98        | 335.37        | 582.66          | 569.46           | 13.20              | 44.140           |                    |      |
| 2,100.00      | 2,087.22      | 1,872.64      | 1,774.40      | 7.84       | 9.90      | 117.204         | 328.24        | 364.36        | 638.85          | 624.89           | 13.97              | 45.744           |                    |      |
| 2,200.00      | 2,185.77      | 1,955.35      | 1,845.27      | 8.26       | 10.64     | 117.104         | 359.50        | 393.36        | 695.04          | 680.30           | 14.74              | 47.159           |                    |      |
| 2,300.00      | 2,284.33      | 2,038.06      | 1,916.15      | 8.70       | 11.39     | 117.019         | 390.76        | 422.36        | 751.23          | 735.72           | 15.52              | 48.415           |                    |      |
| 2,400.00      | 2,382.88      | 2,120.78      | 1,987.03      | 9.13       | 12.14     | 116.946         | 422.02        | 451.36        | 807.43          | 791.13           | 16.30              | 49.535           |                    |      |
| 2,500.00      | 2,481.43      | 2,203.49      | 2,057.91      | 9.56       | 12.90     | 116.883         | 453.28        | 480.36        | 863.62          | 846.53           | 17.09              | 50.538           |                    |      |
| 2,600.00      | 2,579.98      | 2,286.21      | 2,128.79      | 10.00      | 13.66     | 116.827         | 484.54        | 509.36        | 919.81          | 901.93           | 17.88              | 51.438           |                    |      |
| 2,700.00      | 2,678.54      | 2,368.92      | 2,120.79      | 10.44      | 14.43     | 116.778         | 515.80        | 538.35        | 976.01          | 957.33           | 18.68              | 52.253           |                    |      |
| 2,800.00      | 2,777.09      | 2,451.64      | 2,133.00      | 10.88      | 15.19     | 116.776         | 547.06        | 567.35        | 1,032.20        | 1,012.72         | 19.48              | 52.992           |                    |      |
| 2,900.00      | 2,875.64      | 2,534.35      | 2,341.42      | 11.32      | 15.19     | 116.695         | 578.32        | 596.35        | 1,088.40        | 1,068.12         | 20.28              | 53.666           |                    |      |
| 3,000.00      | 2,974.59      | 2,617.67      | 2,412.81      | 11.74      | 16.74     | 118.272         | 609.81        | 625.56        | 1,143.61        | 1,122.54         | 21.07              | 54.280           |                    |      |
| 0.400.00      | 0.074.45      | 0.700.04      | 0.405.41      | 40.40      | 47.50     | 440 504         | 044.00        | 055.44        | 4 400 77        | 4 474 64         | 04.00              | 54.000           |                    |      |
| 3,100.00      | 3,074.15      | 2,702.04      | 2,485.11      | 12.13      | 17.53     | 119.501         | 641.69        | 655.14        | 1,196.77        | 1,174.94         | 21.82              | 54.836           |                    |      |
| 3,200.00      | 3,174.06      | 2,787.25      | 2,558.12      | 12.47      | 18.33     | 120.420         | 673.89        | 685.01        | 1,247.80        | 1,225.25         | 22.55              | 55.337           |                    |      |
| 3,300.00      | 3,274.06      | 2,872.92      | 2,631.53      | 12.80      | 19.13     | 61.467          | 706.27        | 715.04        | 1,297.33        | 1,274.07         | 23.25              | 55.791           |                    |      |
| 3,400.00      | 3,374.06      | 2,958.61      | 2,704.96      | 13.12      | 19.94     | 60.776          | 738.65        | 745.09        | 1,346.93        | 1,322.97         | 23.96              | 56.210           |                    |      |
| 3,500.00      | 3,474.06      | 3,044.30      | 2,778.39      | 13.45      | 20.74     | 60.132          | 771.04        | 775.13        | 1,396.67        | 1,372.00         | 24.67              | 56.607           |                    |      |
| 3,600.00      | 3,574.06      | 3,129.99      | 2,851.81      | 13.77      | 21.55     | 59.532          | 803.42        | 805.17        | 1,446.54        | 1,421.16         | 25.39              | 56.983           |                    |      |
| 3,700.00      | 3,674.06      | 3,215.68      | 2,925.24      | 14.10      | 22.36     | 58.972          | 835.81        | 835.21        | 1,496.53        | 1,470.43         | 26.10              | 57.339           |                    |      |
| 3,800.00      | 3,774.06      | 3,301.36      | 2,998.67      | 14.43      | 23.16     | 58.447          | 868.19        | 865.25        | 1,546.61        | 1,519.80         | 26.82              | 57.676           |                    |      |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H TVD Reference: RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17 Database:

Offset TVD Reference: Offset Datum

| Offset Des        | sign: Kir<br>Ho   |                  | n 772 Pad       | (772, 774,          | 793, 794             | & 795) - Kir | mbeto Wash Ur | nit 774H - C | riginal Hol     | e - Survey      | s Original |            | Offset Site Error: | 0.00 ft |
|-------------------|-------------------|------------------|-----------------|---------------------|----------------------|--------------|---------------|--------------|-----------------|-----------------|------------|------------|--------------------|---------|
| Survey Progra     |                   | 06-MWD, 3554-    | -MWD, 20066     |                     |                      |              |               |              |                 | Rule Assi       | gned:      |            | Offset Well Error: | 0.00 ft |
| Refer<br>Measured | rence<br>Vertical | Offs<br>Measured | set<br>Vertical | Semi N<br>Reference | lajor Axis<br>Offset | Highside     | Offset Wellbo | ore Centre   | Dist<br>Between | ance<br>Between | Minimum    | Separation | Warning            |         |
| Depth             | Depth             | Depth            | Depth           | Kelelelice          |                      | Toolface     | +N/-S         | +E/-W        | Centres         | Ellipses        | Separation | Factor     | wanning            |         |
| (ft)              | (ft)              | (ft)             | (ft)            | (ft)                | (ft)                 | (°)          | (ft)          | (ft)         | (ft)            | (ft)            | (ft)       |            |                    |         |
| 0.00              | 0.00              | 9.61             | 9.61            | 0.00                | 0.02                 | 88.085       | 16.20         | 484.71       | 484.98          |                 |            |            |                    |         |
| 100.00            | 100.00            | 110.82           | 110.82          | 0.27                | 0.19                 | 88.085       | 16.20         | 484.56       | 484.84          | 484.38          | 0.46       | 1,055.570  |                    |         |
| 200.00            | 200.00            | 212.02           | 212.02          | 0.63                | 0.35                 | 88.085       | 16.19         | 484.16       | 484.44          | 483.45          | 0.99       | 490.962    |                    |         |
| 300.00            | 300.00            | 313.22           | 313.21          | 0.99                | 0.52                 | 88.084       | 16.18         | 483.51       | 483.80          | 482.28          | 1.51       | 319.530    |                    |         |
| 400.00            | 400.00            | 414.45           | 414.45          | 1.35                | 0.71                 | 88.082       | 16.16         | 482.61       | 482.91          | 480.85          | 2.06       | 234.679    |                    |         |
| 500.00            | 500.00            | 515.53           | 515.51          | 1.71                | 1.07                 | 88.079       | 16.15         | 481.41       | 481.72          | 478.94          | 2.78       | 173.369    |                    |         |
| 600.00            | 600.00            | 614.41           | 614.39          | 2.07                | 1.43                 | 88.091       | 16.01         | 480.32       | 480.61          | 477.12          | 3.49       | 137.658    |                    |         |
| 700.00            | 700.00            | 713.35           | 713.33          | 2.43                | 1.78                 | 88.085       | 16.02         | 479.36       | 479.65          | 475.44          | 4.20       | 114.084    |                    |         |
| 800.00            | 800.00            | 811.22           | 811.19          | 2.78                | 2.13                 | 88.083       | 16.03         | 478.83       | 479.10          | 474.18          | 4.91       | 97.506     |                    |         |
| 900.00            | 900.00            | 910.78           | 910.76          | 3.14                | 2.49                 | 88.089       | 15.97         | 478.58       | 478.85          | 473.22          | 5.63       | 85.082     |                    |         |
| 1,000.00          | 1,000.00          | 1,017.00         | 1,016.97        | 3.50                | 2.87                 | 88.170       | 15.27         | 477.86       | 478.16          | 471.80          | 6.36       | 75.129     |                    |         |
| 1,100.00          | 1,099.95          | 1,134.11         | 1,133.94        | 3.86                | 3.29                 | 147.432      | 11.47         | 474.20       | 477.17          | 470.04          | 7.13       | 66.913     |                    |         |
| 1,200.00          | 1,199.63          | 1,260.74         | 1,259.87        | 4.21                | 3.76                 | 149.129      | 2.66          | 464.44       | 476.09          | 468.17          | 7.92       | 60.113     |                    |         |
| 1,300.00          | 1,298.77          | 1,386.87         | 1,384.09        | 4.58                | 4.26                 | 151.769      | -10.39        | 447.06       | 473.78          | 465.08          | 8.70       | 54.428     |                    |         |
| 1,400.00          | 1,397.35          | 1,497.42         | 1,491.61        | 4.95                | 4.74                 | 154.891      | -26.32        | 426.99       | 471.48          | 462.00          | 9.48       | 49.730     |                    |         |
| 1,500.00          | 1,495.90          | 1,601.73         | 1,591.79        | 5.35                | 5.23                 | 158.446      | -45.88        | 405.53       | 468.69          | 458.40          | 10.29      | 45.542     |                    |         |
| 1,600.00          | 1,594.45          | 1,707.89         | 1,691.85        | 5.75                | 5.79                 | 162.809      | -71.17        | 380.75       | 465.83          | 454.65          | 11.18      | 41.670     |                    |         |
| 1,700.00          | 1,693.01          | 1,802.37         | 1,779.63        | 6.15                | 6.34                 | 167.123      | -96.56        | 356.79       | 464.29          | 452.18          | 12.11      | 38.347     |                    |         |
| 1,704.45          | 1,697.39          | 1,806.15         | 1,783.14        | 6.17                | 6.36                 | 167.298      | -97.59        | 355.82       | 464.29          | 452.14          | 12.15      | 38.218     |                    |         |
| 1,800.00          | 1,791.56          | 1,889.00         | 1,860.60        | 6.57                | 6.86                 | 170.948      | -119.04       | 335.75       | 466.37          | 453.34          | 13.03      | 35.781     |                    |         |
| 1,900.00          | 1,890.11          | 1,987.43         | 1,952.94        | 6.99                | 7.45                 | 175.122      | -143.74       | 312.26       | 471.21          | 457.19          | 14.02      | 33.601     |                    |         |
| 2,000.00          | 1,988.67          | 2,081.89         | 2,041.13        | 7.41                | 8.04                 | 179.162      | -168.08       | 288.75       | 478.02          | 463.00          | 15.03      | 31.814     |                    |         |
| 2,100.00          | 2,087.22          | 2,173.00         | 2,126.23        | 7.84                | 8.63                 | -177.066     | -191.58       | 266.24       | 487.54          | 471.53          | 16.02      | 30.442     |                    |         |
| 2,200.00          | 2,185.77          | 2,264.77         | 2,212.47        | 8.26                | 9.20                 | -173.565     | -214.36       | 244.66       | 499.80          | 482.81          | 16.99      | 29.411     |                    |         |
| 2,300.00          | 2,284.33          | 2,362.71         | 2,304.74        | 8.70                | 9.82                 | -170.084     | -237.98       | 221.86       | 513.84          | 495.83          | 18.01      | 28.537     |                    |         |
| 2,400.00          | 2,382.88          | 2,458.96         | 2,394.79        | 9.13                | 10.45                | -166.651     | -262.05       | 197.86       | 529.14          | 510.12          | 19.02      | 27.813     |                    |         |
| 2,500.00          | 2,481.43          | 2,552.36         | 2,481.88        | 9.56                | 11.08                | -163.416     | -285.82       | 173.90       | 546.15          | 526.13          | 20.02      | 27.275     |                    |         |
| 2,600.00          | 2,579.98          | 2,649.72         | 2,573.02        | 10.00               | 11.73                | -160.339     | -309.71       | 149.38       | 564.53          | 543.49          | 21.04      | 26.833     |                    |         |
| 2,700.00          | 2,678.54          | 2,740.59         | 2,658.53        | 10.44               | 12.32                | -157.763     | -331.25       | 127.44       | 584.34          | 562.37          | 21.98      | 26.591     |                    |         |
| 2,800.00          | 2,777.09          | 2,834.00         | 2,746.29        | 10.88               | 12.93                | -155.247     | -353.82       | 104.80       | 605.70          | 582.77          | 22.93      | 26.417     |                    |         |
| 2,900.00          | 2,875.64          | 2,929.28         | 2,835.83        | 11.32               | 13.56                | -152.851     | -376.81       | 81.73        | 628.18          | 604.29          | 23.89      | 26.294     |                    |         |
| 3,000.00          | 2,974.59          | 3,023.83         | 2,924.90        | 11.74               | 14.18                | -150.893     | -399.20       | 59.25        | 649.30          | 624.48          | 24.82      | 26.159     |                    |         |
| 3,100.00          | 3,074.15          | 3,124.78         | 3,020.27        | 12.13               | 14.83                | -148.736     | -422.38       | 35.64        | 666.55          | 640.78          | 25.78      | 25.857     |                    |         |
| 3,200.00          | 3,174.06          | 3,229.01         | 3,119.55        | 12.47               | 15.47                | -146.525     | -444.34       | 12.70        | 679.40          | 652.70          | 26.71      | 25.438     |                    |         |
| 3,300.00          | 3,274.06          | 3,334.40         | 3,221.29        | 12.80               | 16.07                | 156.991      | -463.39       | -7.01        | 688.69          | 661.12          | 27.58      | 24.975     |                    |         |
| 3,400.00          | 3,374.06          | 3,437.11         | 3,321.41        | 13.12               | 16.60                | 158.736      | -479.79       | -23.04       | 697.80          | 669.42          | 28.38      | 24.590     |                    |         |
| 3,500.00          | 3,474.06          | 3,549.27         | 3,431.54        | 13.45               | 16.98                | 160.301      | -494.94       | -37.78       | 705.98          | 676.93          | 29.05      | 24.304     |                    |         |
| 3,600.00          | 3,574.06          | 3,663.35         | 3,544.66        | 13.77               | 17.13                | 161.317      | -506.01       | -47.21       | 712.48          | 682.97          | 29.51      | 24.147     |                    |         |
| 3,700.00          | 3,674.06          | 3,783.12         | 3,664.19        | 14.10               | 17.22                | 161.763      | -512.32       | -50.96       | 716.48          | 686.56          | 29.93      | 23.941     |                    |         |
| 3,800.00          | 3,774.06          | 4,553.15         | 4,311.67        | 14.43               | 18.29                | -178.767     | -283.90       | -284.83      | 695.08          | 673.25          | 21.83      | 31.845     |                    |         |
| 3,900.00          | 3,874.05          | 4,712.63         | 4,380.33        | 14.76               | 19.18                | 66.504       | -182.50       | -386.37      | 617.82          | 597.02          | 20.80      | 29.700     |                    |         |
| 4,000.00          | 3,972.95          | 4,742.61         | 4,389.46        | 15.01               | 19.41                | 84.586       | -162.14       | -406.40      | 536.58          | 514.30          | 22.28      | 24.083     |                    |         |
| 4,100.00          | 4,067.92          | 4,749.71         | 4,391.59        | 15.21               | 19.47                | 97.284       | -157.31       | -411.14      | 461.36          | 437.18          | 24.19      | 19.073     |                    |         |
| 4,200.00          | 4,156.09          | 4,718.42         | 4,382.19        | 15.38               | 19.23                | 100.143      | -178.61       | -390.23      | 398.16          | 371.39          | 26.77      | 14.873     |                    |         |
| 4,300.00          | 4,234.78          | 4,678.75         | 4,368.83        | 15.59               | 18.95                | 98.816       | -205.13       | -363.93      | 352.68          | 323.58          | 29.10      | 12.119     |                    |         |
| 4,400.00          | 4,301.58          | 4,628.83         | 4,348.74        | 15.87               | 18.65                | 93.334       | -237.47       | -331.67      | 329.34          | 298.81          | 30.52      | 10.789     |                    |         |
| 4,447.51          | 4,328.56          | 4,605.14         | 4,337.70        | 16.09               | 18.52                | 89.925       | -252.29       | -316.87      | 326.67          | 295.95          | 30.72      | 10.634 CC, | ES, SF             |         |
| 4,500.00          | 4,354.48          | 4,577.05         | 4,323.73        | 16.33               | 18.39                | 85.389       | -269.45       | -299.56      | 329.71          | 299.14          | 30.58      | 10.784     |                    |         |
| 4,600.00          | 4,391.87          | 4,516.81         | 4,293.30        | 17.00               | 18.15                | 75.330       | -305.85       | -262.42      | 348.97          | 319.11          | 29.86      | 11.686     |                    |         |
| 4,700.00          | 4,412.61          | 4,459.64         | 4,262.37        | 17.90               | 17.95                | 66.002       | -339.62       | -228.23      | 379.49          | 350.13          | 29.36      | 12.924     |                    |         |
| 4,800.00          | 4,416.63          | 4,403.00         | 4,227.71        | 18.99               | 17.80                | 58.491       | -371.37       | -196.68      | 416.23          | 386.79          | 29.44      | 14.136     |                    |         |
| 4,900.00          | 4,415.81          | 4,363.39         | 4,200.27        | 20.28               | 17.71                | 55.154       | -391.65       | -176.59      | 462.04          | 431.92          | 30.12      | 15.339     |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft TVD Reference: MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at DT\_Jul1724\_v17

Database: Offset TVD Reference: Offset Datum

| Offset Des    | sign: Kir<br>Ho                             |               | n 772 Pad                 | (772, 774, | 793, 794             | & 795) - Kim    | nbeto Wash Ur          | nit 774H - C | riginal Hol   | e - Survey       | rs Original        |            | Offset Site Error:            | 0.00 ft |
|---------------|---|---------------|---------------------------|------------|----------------------|-----------------|------------------------|--------------|---|------------------|--------------------|------------|-------------------------------|---------|
| Measured      | Reference Offse<br>asured Vertical Measured |               | Vertical Reference Offset |            | Major Axis<br>Offset | Highside        | Offset Wellbore Centre |              | Rule Assigned:<br>Distance<br>Between Between Minimum |                  | Minimum            | Separation | Offset Well Error:<br>Warning | 0.00 ft |
| Depth<br>(ft) | Depth<br>(ft)                               | Depth<br>(ft) | Depth<br>(ft)             | (ft)       | (ft)                 | Toolface<br>(°) | (ft)                   | (ft)         | Centres<br>(ft)                                       | Ellipses<br>(ft) | Separation<br>(ft) | Factor     |                               |         |
| 5,000.00      | 4,414.99                                    | 4,325.09      | 4,171.39                  | 21.74      | 17.63                | 51.899          | -409.44                | -158.82      | 517.79  | 486.96           | 30.84              | 16.792     |                               |         |
| 5,100.00      | 4,414.17                                    | 4,290.12      | 4,143.58                  | 23.33      | 17.58                | 49.014          | -424.43                | -143.83      | 581.36  | 549.84           | 31.52              | 18.446     |                               |         |
| 5,200.00      | 4,413.36                                    | 4,258.02      | 4,116.98                  | 25.03      | 17.53                | 46.460          | -437.06                | -131.07      | 651.14  | 619.03           | 32.11              | 20.277     |                               |         |
| 5,300.00      | 4,412.54                                    | 4,228.76      | 4,092.05                  | 26.82      | 17.49                | 44.237          | -447.75                | -120.11      | 725.65  | 693.03           | 32.62              | 22.246     |                               |         |
| 5,400.00      | 4,411.72                                    | 4,203.27      | 4,069.87                  | 28.68      | 17.46                | 42.406          | -456.59                | -111.19      | 803.95  | 770.89           | 33.06              | 24.318     |                               |         |
| 5,500.00      | 4,410.90                                    | 4,184.00      | 4,052.80                  | 30.60      | 17.44                | 41.074          | -462.86                | -104.81      | 885.34  | 851.88           | 33.46              | 26.462     |                               |         |
| 5,600.00      | 4,410.08                                    | 4,152.00      | 4,023.96                  | 32.57      | 17.41                | 38.975          | -472.58                | -94.94       | 969.27  | 935.58           | 33.69              | 28.771     |                               |         |
| 5,700.00      | 4,409.26                                    | 4,142.45      | 4,015.24                  | 34.58      | 17.41                | 38.377          | -475.34                | -92.18       | 1,055.07  | 1,021.05         | 34.01              | 31.020     |                               |         |
| 5,800.00      | 4,408.44                                    | 4,121.00      | 3,995.47                  | 36.62      | 17.39                | 37.081          | -481.24                | -86.31       | 1,142.68  | 1,108.46         | 34.22              | 33.396     |                               |         |
| 5,900.00      | 4,407.63                                    | 4,111.20      | 3,986.36                  | 38.69      | 17.38                | 36.509          | -483.80                | -83.76       | 1,231.62  | 1,197.19         | 34.43              | 35.768     |                               |         |
| 6,000.00      | 4,406.81                                    | 4,089.00      | 3,965.57                  | 40.78      | 17.37                | 35.260          | -489.34                | -78.29       | 1,321.81  | 1,287.23         | 34.57              | 38.231     |                               |         |
| 6,100.00      | 4,405.99                                    | 4,089.00      | 3,965.57                  | 42.90      | 17.37                | 35.260          | -489.34                | -78.29       | 1,412.89  | 1,378.14         | 34.75              | 40.653     |                               |         |
| 6,200.00      | 4,405.17                                    | 4,073.73      | 3,951.15                  | 45.03      | 17.36                | 34.438          | -492.91                | -74.80       | 1,504.86  | 1,469.99         | 34.87              | 43.154     |                               |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft TVD Reference: MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at

DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

| Offset De            | 3                    | mbeto Wash<br>ole    | n 772 Pad            | (772, 774,          | 793, 794             | & 795) - Ki       | mbeto Wash Ur    | nit 793H - C     | riginal Hol      | le - Survey      | s Original     |                  | Offset Site Error: | 0.00 ft |
|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|-------------------|------------------|------------------|------------------|------------------|----------------|------------------|--------------------|---------|
| Survey Progr         | ram: 4               | 05-MWD, 3457-        |                      |                     |                      |                   |                  |                  |                  | Rule Assi        | gned:          |                  | Offset Well Error: | 0.00 ft |
| Refe<br>Measured     | rence<br>Vertical    | Offs<br>Measured     | set<br>Vertical      | Semi I<br>Reference | Major Axis<br>Offset | Highside          | Offset Wellbe    | ore Centre       | Dist<br>Between  | tance<br>Between | Minimum        | Separation       | Warning            |         |
| Depth                | Depth                | Depth                | Depth                |                     |                      | Toolface          | +N/-S            | +E/-W            | Centres          | Ellipses         | Separation     | Factor           |                    |         |
| (ft)                 | (ft)                 | (ft)                 | (ft)                 | (ft)                | (ft)<br>0.02         | (°)               | (ft)             | (ft)<br>504.78   | (ft)<br>505.04   | (ft)             | (ft)           |                  |                    |         |
| 0.00<br>100.00       | 0.00<br>100.00       | 9.52<br>109.75       | 9.52<br>109.75       | 0.00<br>0.27        | 0.02                 | 88.161<br>88.161  | 16.21<br>16.20   | 504.76           | 505.04           | 504.55           | 0.46           | 1,104.171        |                    |         |
| 200.00               | 200.00               | 209.99               | 209.99               | 0.63                | 0.16                 | 88.163            | 16.18            | 504.75           | 504.94           | 503.95           | 0.40           | 513.627          |                    |         |
| 300.00               | 300.00               | 310.22               | 310.22               | 0.99                | 0.52                 | 88.167            | 16.15            | 504.56           | 504.82           | 503.31           | 1.51           | 334.583          |                    |         |
| 400.00               | 400.00               | 410.31               | 410.31               | 1.35                | 0.69                 | 88.172            | 16.10            | 504.39           | 504.65           | 502.61           | 2.04           | 246.887          |                    |         |
| 435.03               | 435.03               | 444.53               | 444.53               | 1.48                | 0.09                 | 88.184            | 15.99            | 504.39           | 504.62           | 502.01           | 2.29           | 220.386          |                    |         |
| 400.00               | 400.00               | 444.00               | 444.00               | 1.40                | 0.01                 | 00.104            | 10.55            | 004.07           | 004.02           | 002.00           | 2.20           | 220.000          |                    |         |
| 500.00               | 500.00               | 508.07               | 508.06               | 1.71                | 1.04                 | 88.245            | 15.46            | 504.48           | 504.72           | 501.97           | 2.75           | 183.863          |                    |         |
| 600.00               | 600.00               | 607.53               | 607.52               | 2.07                | 1.38                 | 88.339            | 14.64            | 504.93           | 505.15           | 501.70           | 3.45           | 146.448          |                    |         |
| 700.00               | 700.00               | 709.08               | 709.07               | 2.43                | 1.74                 | 88.397            | 14.13            | 505.01           | 505.21           | 501.04           | 4.17           | 121.296          |                    |         |
| 800.00               | 800.00               | 807.51               | 807.49               | 2.78                | 2.08                 | 88.423            | 13.92            | 505.42           | 505.61           | 500.75           | 4.87           | 103.865          |                    |         |
| 900.00               | 900.00               | 907.85               | 907.84               | 3.14                | 2.44                 | 88.456            | 13.63            | 505.66           | 505.84           | 500.26           | 5.58           | 90.684           |                    |         |
| 1,000.00             | 1,000.00             | 1,005.18             | 1,005.16             | 3.50                | 2.78                 | 88.466            | 13.56            | 506.23           | 506.43           | 500.15           | 6.28           | 80.693           |                    |         |
| 1,100.00             | 1,099.95             | 1,103.77             | 1,103.75             | 3.86                | 3.12                 | 147.193           | 13.40            | 507.26           | 509.67           | 502.69           | 6.98           | 73.065           |                    |         |
| 1,200.00             | 1,199.63             | 1,204.42             | 1,204.40             | 4.21                | 3.48                 | 147.598           | 12.95            | 508.34           | 517.34           | 509.66           | 7.68           | 67.326           |                    |         |
| 1,300.00             | 1,298.77             | 1,303.46             | 1,303.44             | 4.58                | 3.83                 | 148.181           | 12.79            | 509.20           | 529.30           | 520.90           | 8.39           | 63.080           |                    |         |
| 1,400.00             | 1,397.35             | 1,403.00             | 1,402.97             | 4.95                | 4.18                 | 149.102           | 12.40            | 510.04           | 544.52           | 535.41           | 9.10           | 59.812           |                    |         |
|                      |                      |                      |                      |                     |                      |                   |                  |                  |                  |                  |                |                  |                    |         |
| 1,500.00             | 1,495.90             | 1,499.97             | 1,499.93             | 5.35                | 4.53                 | 150.055           | 11.63            | 510.80           | 559.99           | 550.18           | 9.81           | 57.094           |                    |         |
| 1,600.00             | 1,594.45             | 1,620.46             | 1,620.33             | 5.75                | 4.95                 | 151.452           | 7.94             | 509.80           | 574.19           | 563.59           | 10.60          | 54.189           |                    |         |
| 1,700.00             | 1,693.01             | 1,746.26             | 1,745.46             | 6.15                | 5.40                 | 153.513           | -2.51            | 502.51           | 584.04           | 572.65           | 11.39          | 51.269           |                    |         |
| 1,800.00             | 1,791.56             | 1,852.16             | 1,850.49             | 6.57                | 5.78                 | 155.273           | -11.84           | 492.67           | 590.97           | 578.83           | 12.13          | 48.714           |                    |         |
| 1,900.00             | 1,890.11             | 1,946.66             | 1,944.33             | 6.99                | 6.12                 | 156.698           | -19.07           | 484.21           | 598.59           | 585.74           | 12.85          | 46.596           |                    |         |
| 2,000.00             | 1,988.67             | 2,043.01             | 2,040.05             | 7.41                | 6.48                 | 158.131           | -26.70           | 476.12           | 607.19           | 593.62           | 13.57          | 44.750           |                    |         |
| 2,100.00             | 2,087.22             | 2,138.19             | 2,134.60             | 7.84                | 6.84                 | 159.515           | -34.35           | 468.37           | 616.47           | 602.18           | 14.29          | 43.134           |                    |         |
| 2,200.00             | 2,185.77             | 2,233.58             | 2,229.40             | 8.26                | 7.20                 | 160.852           | -42.05           | 461.22           | 626.74           | 611.72           | 15.02          | 41.735           |                    |         |
| 2,300.00             | 2,284.33             | 2,330.96             | 2,326.26             | 8.70                | 7.56                 | 162.116           | -49.33           | 454.32           | 637.63           | 621.88           | 15.75          | 40.484           |                    |         |
| 2,400.00             | 2,382.88             | 2,430.03             | 2,424.81             | 9.13                | 7.94                 | 163.361           | -56.77           | 447.34           | 648.87           | 632.38           | 16.49          | 39.348           |                    |         |
| 2 500 00             | 2,481.43             | 2,526.91             | 2,521.18             | 9.56                | 8.31                 | 164.528           | -63.94           | 440.51           | 660.37           | 643.15           | 17.22          | 38.338           |                    |         |
| 2,500.00             | 2,579.98             | 2,624.13             | 2,617.91             | 10.00               | 8.68                 | 165.653           | -71.13           | 433.94           | 672.43           | 654.47           | 17.22          | 37.438           |                    |         |
| 2,600.00<br>2,700.00 | 2,678.54             | 2,723.40             | 2,716.73             | 10.44               | 9.06                 | 166.717           | -77.98           | 427.41           | 684.75           | 666.05           | 18.71          | 36.607           |                    |         |
| 2,800.00             | 2,777.09             | 2,821.03             | 2,813.91             | 10.44               | 9.43                 | 167.733           | -84.77           | 420.92           | 697.26           | 677.82           | 19.44          | 35.859           |                    |         |
| 2,900.00             | 2,875.64             | 2,916.82             | 2,909.37             | 11.32               | 9.79                 | 168.585           | -90.24           | 415.25           | 710.23           | 690.06           | 20.17          | 35.211           |                    |         |
| 2,300.00             | 2,073.04             | 2,310.02             | 2,303.31             | 11.52               | 5.15                 | 100.505           | -30.24           | 413.23           | 710.23           | 030.00           | 20.17          | 33.211           |                    |         |
| 3,000.00             | 2,974.59             | 3,008.36             | 3,000.80             | 11.74               | 10.12                | 169.143           | -92.67           | 411.53           | 721.50           | 700.64           | 20.86          | 34.586           |                    |         |
| 3,100.00             | 3,074.15             | 3,099.09             | 3,091.51             | 12.13               | 10.44                | 169.411           | -93.35           | 409.63           | 728.84           | 707.31           | 21.53          | 33.854           |                    |         |
| 3,200.00             | 3,174.06             | 3,235.23             | 3,227.56             | 12.47               | 10.91                | 169.439           | -91.27           | 406.02           | 729.93           | 707.56           | 22.37          | 32.634           |                    |         |
| 3,300.00             | 3,274.06             | 3,384.04             | 3,375.47             | 12.80               | 11.37                | 110.367           | -80.55           | 394.20           | 719.83           | 696.71           | 23.12          | 31.137           |                    |         |
| 3,400.00             | 3,374.06             | 4,024.00             | 3,891.03             | 13.12               | 13.28                | 94.553            | 133.95           | 151.53           | 663.84           | 645.74           | 18.10          | 36.674           |                    |         |
| 3 500 00             | 2 474 00             | 4 442 04             | 2 027 02             | 40.45               | 14 17                | 07 040            | 100.00           | 06.07            | E07 40           | E60 00           | 10.00          | 21 540           |                    |         |
| 3,500.00             | 3,474.06             | 4,112.91             | 3,937.93             | 13.45               | 14.17                | 87.213            | 186.03           | 96.87            | 587.48           | 568.86           | 18.62          | 31.548           |                    |         |
| 3,600.00             | 3,574.06             | 4,279.37             | 3,998.49             | 13.77               | 16.39                | 64.222            | 294.36           | -13.29<br>53.41  | 506.65           | 487.31           | 19.34          | 26.195           |                    |         |
| 3,700.00             | 3,674.06<br>3,774.06 | 4,337.14             | 4,008.43             | 14.10               | 17.32<br>17.78       | 53.051            | 334.67<br>354.11 | -53.41<br>-72.64 | 427.19<br>356.67 | 405.18<br>330.94 | 22.01          | 19.408           |                    |         |
| 3,800.00<br>3,900.00 | 3,774.06             | 4,364.58<br>4,370.51 | 4,010.62<br>4,010.85 | 14.43<br>14.76      | 17.78                | 47.398<br>-90.399 | 354.11<br>358.31 | -72.64<br>-76.82 | 356.67<br>302.92 | 273.08           | 25.73<br>29.85 | 13.864<br>10.149 |                    |         |
| 5,500.00             | 5,074.05             | 7,370.31             | 4,010.00             | 14.70               | 17.00                | -50.333           | 300.31           | -10.02           | 502.32           | 213.00           | 23.03          | 10.148           |                    |         |
| 4,000.00             | 3,972.95             | 4,358.46             | 4,010.29             | 15.01               | 17.68                | -90.718           | 349.77           | -68.33           | 276.21           | 243.84           | 32.37          | 8.533            |                    |         |
| 4,028.76             | 4,000.79             | 4,352.78             | 4,009.90             | 15.06               | 17.58                | -89.699           | 345.74           | -64.35           | 274.77           | 242.33           | 32.44          | 8.470 CC,        | ES, SF             |         |
| 4,100.00             | 4,067.92             | 4,338.00             | 4,008.53             | 15.21               | 17.33                | -85.848           | 335.27           | -54.01           | 283.28           | 251.95           | 31.34          | 9.040            |                    |         |
| 4,200.00             | 4,156.09             | 4,307.00             | 4,004.08             | 15.38               | 16.83                | -76.085           | 313.47           | -32.43           | 319.39           | 291.54           | 27.85          | 11.468           |                    |         |
| 4,300.00             | 4,234.78             | 4,276.00             | 3,997.70             | 15.59               | 16.34                | -65.008           | 292.06           | -10.95           | 373.10           | 348.50           | 24.61          | 15.162           |                    |         |
| 4,400.00             | 4,301.58             | 4,245.00             | 3,989.55             | 15.87               | 15.87                | -54.361           | 271.13           | 10.42            | 434.53           | 412.02           | 22.51          | 19.306           |                    |         |
| 4,500.00             | 4,354.48             | 4,245.00             | 3,977.21             | 16.33               | 15.32                | -44.753           | 245.62           | 36.61            | 497.17           | 475.89           | 21.28          | 23.366           |                    |         |
| 4,600.00             | 4,391.87             | 4,164.61             | 3,961.16             | 17.00               | 14.78                | -37.281           | 218.57           | 64.13            | 557.14           | 536.36           | 20.78          | 26.810           |                    |         |
| 4,700.00             | 4,412.61             | 4,118.00             | 3,940.38             | 17.90               | 14.70                | -31.684           | 189.17           | 93.70            | 611.92           | 591.15           | 20.77          | 29.463           |                    |         |
| 4,800.00             | 4,416.63             | 4,116.00             | 3,918.56             | 18.99               | 13.76                | -28.436           | 162.87           | 120.65           | 660.42           | 639.16           | 21.27          | 31.056           |                    |         |
|                      | ,                    |                      |                      |                     |                      |                   |                  |                  |                  |                  |                |                  |                    |         |
| 4,900.00             | 4,415.81             | 4,011.61             | 3,884.19             | 20.28               | 13.17                | -27.065           | 126.91           | 159.09           | 710.54           | 689.06           | 21.48          | 33.078           |                    |         |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Greater Lybrook (36, 37, 38 & 39) Reference Site:

Site Error: 0.00 ft

Reference Well: Greater Lybrook Unit 36H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H RKB=6529+23.5 @ 6552.50ft TVD Reference: MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

**Survey Calculation Method:** Minimum Curvature 2.00 sigma Output errors are at

Database: DT\_Jul1724\_v17 Offset TVD Reference: Offset Datum

| urvey Progr               | ram: 40                   | 405-MWD, 3457-MWD, 18922<br>Offset |                           | -MWD<br>Semi Maior Axis |                |                             | Offset Wellbe | oro Contro    | Rule Assigned:<br>Distance |                             |                               |                      | Offset Well Error: | 0.00 |
|---------------------------|---------------------------|------------------------------------|---------------------------|-------------------------|----------------|-----------------------------|---------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|------|
| 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) | Highside<br>Toolface<br>(°) | +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 | Warning            |      |
| 5,000.00                  | 4,414.99                  | 3,929.00                           | 3,839.08                  | 21.74                   | 12.53          | -25.462                     | 79.61         | 209.61        | 761.32                     | 739.93                      | 21.39                         | 35.590               |                    |      |
| 5,100.00                  | 4,414.17                  | 3,898.00                           | 3,821.17                  | 23.33                   | 12.34          | -24.854                     | 62.14         | 227.90        | 815.65                     | 793.35                      | 22.30                         | 36.573               |                    |      |
| 5,200.00                  | 4,413.36                  | 3,866.00                           | 3,801.23                  | 25.03                   | 12.18          | -24.208                     | 44.89         | 246.02        | 874.95                     | 851.86                      | 23.09                         | 37.887               |                    |      |
| 5,300.00                  | 4,412.54                  | 3,835.00                           | 3,780.43                  | 26.82                   | 12.05          | -23.571                     | 29.12         | 262.73        | 938.86                     | 915.06                      | 23.81                         | 39.440               |                    |      |
| 5,400.00                  | 4,411.72                  | 3,804.00                           | 3,758.45                  | 28.68                   | 11.94          | -22.945                     | 14.28         | 278.78        | 1,006.62                   | 982.19                      | 24.43                         | 41.205               |                    |      |
| 5,500.00                  | 4,410.90                  | 3,783.21                           | 3,743.08                  | 30.60                   | 11.88          | -22.533                     | 4.87          | 289.15        | 1,077.72                   | 1,052.64                    | 25.08                         | 42.972               |                    |      |
| 5,600.00                  | 4,410.08                  | 3,772.00                           | 3,734.57                  | 32.57                   | 11.85          | -22.313                     | -0.01         | 294.58        | 1,151.97                   | 1,126.25                    | 25.72                         | 44.796               |                    |      |
| 5,700.00                  | 4,409.26                  | 3,741.00                           | 3,710.21                  | 34.58                   | 11.78          | -21.700                     | -12.82        | 308.83        | 1,228.62                   | 1,202.50                    | 26.11                         | 47.053               |                    |      |
| 5,800.00                  | 4,408.44                  | 3,726.26                           | 3,698.22                  | 36.62                   | 11.75          | -21.407                     | -18.57        | 315.19        | 1,307.69                   | 1,281.13                    | 26.56                         | 49.227               |                    |      |
| 5,900.00                  | 4,407.63                  | 3,709.00                           | 3,683.87                  | 38.69                   | 11.72          | -21.060                     | -25.04        | 322.26        | 1,388.79                   | 1,361.84                    | 26.94                         | 51.550               |                    |      |
| 6,000.00                  | 4,406.81                  | 3,696.88                           | 3,673.59                  | 40.78                   | 11.70          | -20.817                     | -29.38        | 326.99        | 1.471.65                   | 1.444.36                    | 27.29                         | 53.927               |                    |      |





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Greater Lybrook (36, 37, 38 & 39)

Site Error: 0.00 ft

Greater Lybrook Unit 36H Reference Well:

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Offset TVD Reference:

Well Greater Lybrook Unit 36H **TVD Reference:** RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

Minimum Curvature **Survey Calculation Method:** Output errors are at Database:

2.00 sigma DT\_Jul1724\_v17

Offset Datum

Reference Depths are relative to RKB=6529+23.5 @ 6552.50ft

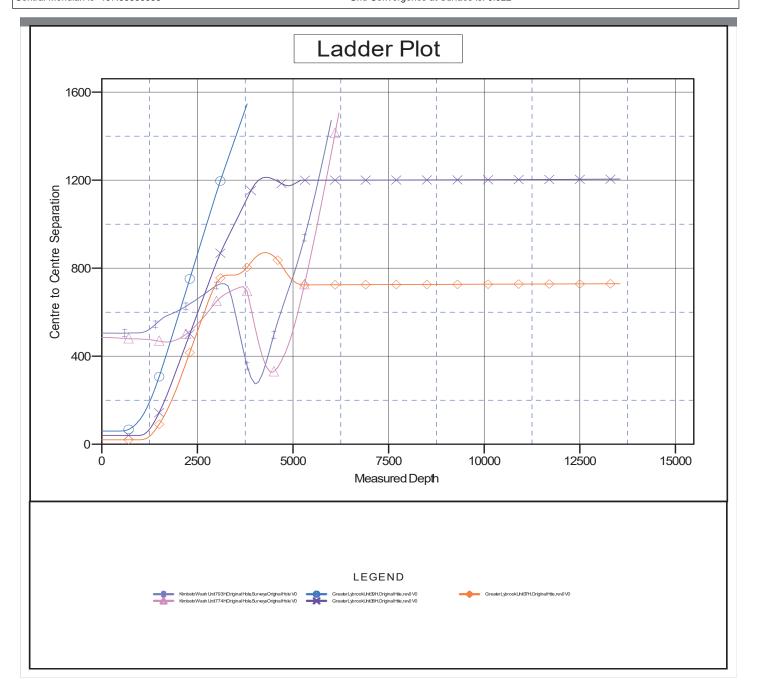
Offset Depths are relative to Offset Datum

Central Meridian is -107.83333333

Coordinates are relative to: Greater Lybrook Unit 36H

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

Grid Convergence at Surface is: 0.022°







Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Greater Lybrook (36, 37, 38 & 39)

Site Error: 0.00 ft

Greater Lybrook Unit 36H Reference Well:

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Greater Lybrook Unit 36H **TVD Reference:** RKB=6529+23.5 @ 6552.50ft MD Reference: RKB=6529+23.5 @ 6552.50ft

North Reference: Grid

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma DT\_Jul1724\_v17 Database: Offset TVD Reference: Offset Datum

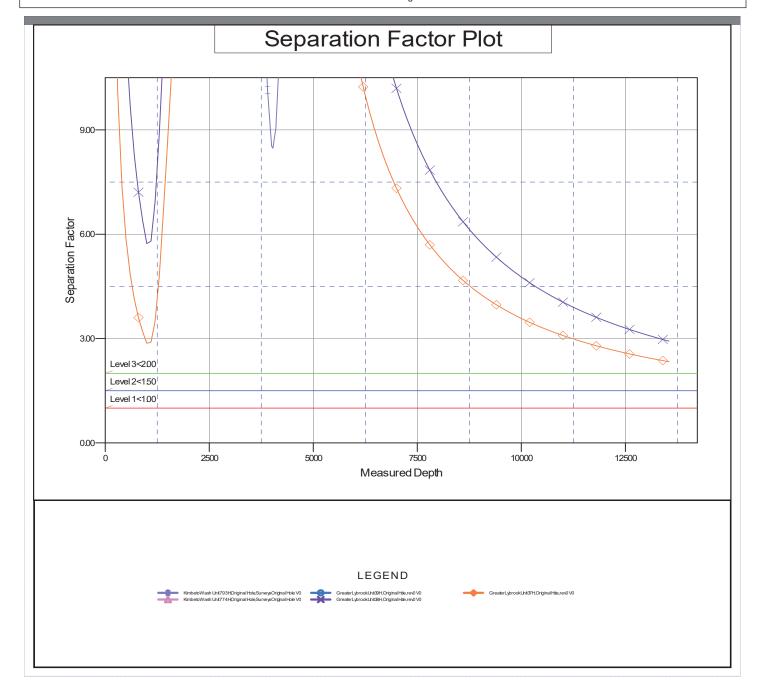
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Coordinates are relative to: Greater Lybrook Unit 36H

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

Grid Convergence at Surface is: 0.022°





# 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 #036H GREATER LYBROOK UNIT

Lease: NMNM136267 Agreement: NMNM144419X

SH: NE½NW½ Section 28, T. 23N., R. 09W. San Juan County, New Mexico
BH: SW½NE½ Section 34, T. 23N., R. 09W. 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**:

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

# I. GENERAL

- A. Full compliance with all applicable laws and regulations, 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. 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.
- L. 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.
- M. **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 online through AFMSS 2 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 first occurs, 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.I.
- 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.I. 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.

# VII. PHONE NUMBERS

A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.

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

ACKNOWLEDGMENTS

Action 524893

# **ACKNOWLEDGMENTS**

| Operator:               | OGRID:  |
|-------------------------|---|
| ENDURING RESOURCES, LLC | 372286  |
| 6300 S Syracuse Way     | Action Number:  |
| Centennial, CO 80111    | 524893  |
|                         | Action Type:  |
|                         | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

## ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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 524893

## **CONDITIONS**

| Operator:               | OGRID:  |
|-------------------------|---|
| ENDURING RESOURCES, LLC | 372286  |
| 6300 S Syracuse Way     | Action Number:  |
| Centennial, CO 80111    | 524893  |
|                         | Action Type:  |
|                         | [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.  | 11/10/2025     |
| sford       | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.  | 11/10/2025     |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement.   | 11/18/2025     |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet.  | 11/18/2025     |
| 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. | 11/18/2025     |
| 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.                  | 11/18/2025     |