Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

2. Name of Operator

9. API Well No.
30-039-31549

| 3a. Address | 3b. Phone No. *(include area code)* | 10. Field and Pool, or Exploratory |
|---|---|---|
| | | |

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

| 14. Distance in miles and direction from nearest town or post office* | 12. County or Parish | 13. State |
|---|---|---|
| | | |

| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
|---|---|---|
| | | |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
| | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |
| | | |

## 24. Attachments

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

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

| 25. Signature | Name *(Printed/Typed)* | Date |
|---|---|---|
| | | |

Title

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

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

**Approval Date: 10/06/2026**

| C-102<br>Submit Electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br>OIL CONSERVATION DIVISION | Revised July 9, 2024<br>Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled |
|---|---|---|

## WELL LOCATION INFORMATION

| API Number | Pool Code | Pool Name |
|---|---|---|
| 30-039-31549 | 42289 | LYBROOK GALLUP |

| Property Code | Property Name | Well Number |
|---|---|---|
| 339202 | BOBBY B | 028H |

| OGRID No. | Operator Name | Ground Level Elevation |
|---|---|---|
| 372286 | ENDURING RESOURCES, LLC | 6715' |

Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☒ Federal

### Surface Location (SHL)

| UL | Section | Township | Range | Lot | Ft from the N/S | Ft from the E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| A | 36 | 24N | 7W | | 601' NORTH | 551' EAST | 36.273799° N | 107.521083° W | RIO ARRIBA |

### Bottom Hole Location (BHL)

| UL | Section | Township | Range | Lot | Ft from the N/S | Ft from the E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 15 | 24N | 7W | | 1081' SOUTH | 228' WEST | 36.309432° N | 107.571108° W | RIO ARRIBA |

| Dedicated Acres | Infill or Defining Well | Defining Well API | Overlapping Spacing Unit (Y/N) | Consolidation Code |
|---|---|---|---|---|
| PENETRATED SPACING UNIT; SEC 36: NE/NE, NW/NE, SW/NE & NE/NW (160 AC.); SEC 25: SW/SE, SW/4 & SW/NW (240 AC.); SEC 26: NE/SE, NE/4 & NE/NW (240 AC.); SEC 23: SE/SW, SW/SW & NW/SW (120 AC.); SEC 22: NE/SE, NW/SE, SE/NE, SW/NE, NW/NE, SE/NW, NE/NW & NW/NW (320 AC.); SEC 15: SE/SW, SW/SW, NW/SW (120 AC.) = 1200 ACRES TOTAL | | | N | |

Order Numbers: Well Setbacks are under Common Ownership: ☐ Yes ☐ No

### Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Ft from the N/S | Ft from the E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| A | 36 | 24N | 7W | | 601' NORTH | 551' EAST | 36.273799° N | 107.521083° W | RIO ARRIBA |

### First Take Point (FTP)

| UL | Section | Township | Range | Lot | Ft from the N/S | Ft from the E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| A | 36 | 24N | 7W | | 1103' NORTH | 1162' EAST | 36.272501° N | 107.523173° W | RIO ARRIBA |

### Last Take Point (LTP)

| UL | Section | Township | Range | Lot | Ft from the N/S | Ft from the E/W | Latitude | Longitude | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 15 | 24N | 7W | | 1081' SOUTH | 228' WEST | 36.309432° N | 107.571108° W | RIO ARRIBA |

| Unitized Area or Area of Uniform Interest | Spacing Unit Type ☒ Horizontal ☐ Vertical | Ground Floor Elevation |
|---|---|---|
| BOBBY B UNIT | | |

### OPERATOR CERTIFICATIONS

*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 — Signature

11/24/2025 — Date

Shaw-Marie Ford — Printed Name

sford@enduringresources.com — E-mail Address

### SURVEYOR CERTIFICATIONS

*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.*

HENRY P. BROADHURST JR. NEW MEXICO 11393 PROFESSIONAL SURVEYOR

11/24/2025

Signature and Seal of Professional Surveyor:

| Certificate Number | Date of Survey |
|---|---|
| 11393 | SEPTEMBER 30, 2025 |

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

FND 3.25" BC
BLM 1965

FND 2.5" BC
GLO 1948

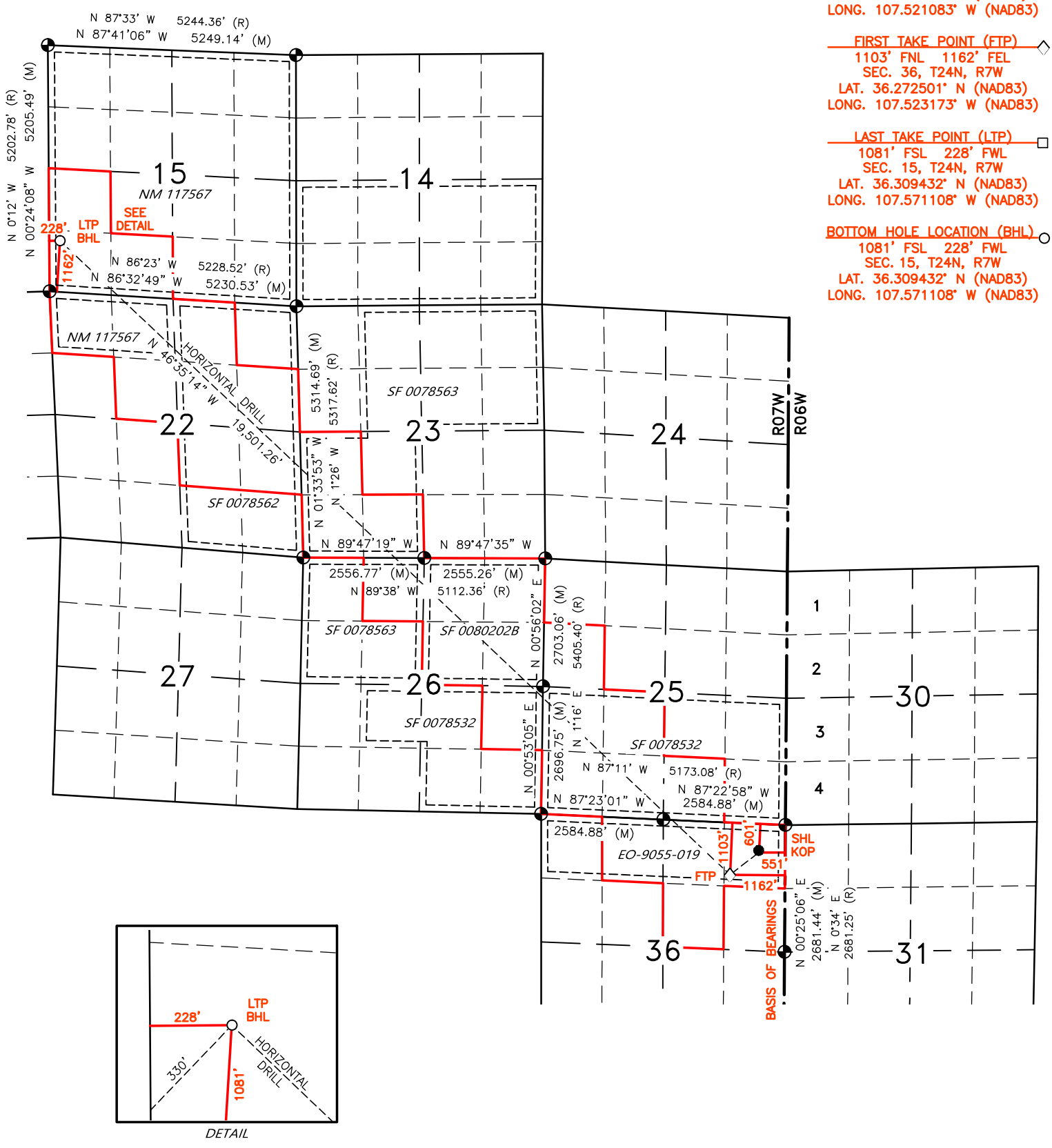
SURFACE LOCATION (SHL)
601' FNL 551' FEL
SEC. 36, T24N, R7W
LAT. 36.273799° N (NAD83)
LONG. 107.521083° W (NAD83)

KICK OFF POINT (KOP)
601' FNL 551' FEL
SEC. 36, T24N, R7W
LAT. 36.273799° N (NAD83)
LONG. 107.521083° W (NAD83)

FIRST TAKE POINT (FTP)
1103' FNL 1162' FEL
SEC. 36, T24N, R7W
LAT. 36.272501° N (NAD83)
LONG. 107.523173° W (NAD83)

LAST TAKE POINT (LTP)
1081' FSL 228' FWL
SEC. 15, T24N, R7W
LAT. 36.309432° N (NAD83)
LONG. 107.571108° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
1081' FSL 228' FWL
SEC. 15, T24N, R7W
LAT. 36.309432° N (NAD83)
LONG. 107.571108° W (NAD83)







DETAIL

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

# NATURAL GAS MANAGEMENT PLAN

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

## Section 1 – Plan Description
**Effective May 25, 2021**

**I. Operator:** Enduring Resources, LLC **OGRID:** 372286 **Date:** 7/13/2026

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

If Other, please describe: _____

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

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|---|---|---|---|---|---|---|
| Bobby B Unit 027H | | A-36-24N-7W | 620 FNL x 547 FEL | 893 | 1806 | 357 |
| Bobby B Unit 028H | | A-36-24N-7W | 601 FNL x 551 FEL | 893 | 1806 | 357 |
| Bobby B Unit 029H | | A-36-24N-7W | 582 FNL x 555 FEL | 893 | 1806 | 357 |
| Bobby B Unit 037H | | A-36-24N-7W | 543 FNL x 563 FEL | 264 | 533 | 105 |
| Bobby B Unit 038H | | A-36-24N-7W | 523 FNL x 567 FEL | 327 | 662 | 131 |
| Bobby B Unit 039H | | A-36-24N-7W | 562 FNL x 559 FEL | 850 | 1720 | 340 |
| 3-year Decline Curve | | | | | | |
| Bobby B Unit 027H | | A-36-24N-7W | 620 FNL x 547 FEL | 217 | 979 | 87 |
| Bobby B Unit 028H | | A-36-24N-7W | 601 FNL x 551 FEL | 219 | 987 | 88 |
| Bobby B Unit 029H | | A-36-24N-7W | 582 FNL x 555 FEL | 227 | 1022 | 91 |
| Bobby B Unit 037H | | A-36-24N-7W | 543 FNL x 563 FEL | 242 | 1090 | 97 |
| Bobby B Unit 038H | | A-36-24N-7W | 523 FNL x 567 FEL | 60 | 268 | 24 |
| Bobby B Unit 039H | | A-36-24N-7W | 562 FNL x 559 FEL | 74 | 333 | 30 |

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

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

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|---|---|---|---|---|---|---|
| Listed Above | | Q1 2027 | Q1 2027 | Q1 2027 | Q1 2027 | Q1 2027 |

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

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

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

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

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

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

**IX. Anticipated Natural Gas Production:**

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

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

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

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

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

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

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

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

## Section 3 - Certifications

**Effective May 25, 2021**

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

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

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

| |
|---|
| Signature: Shaw-Marie Ford |
| Printed Name: Shaw-Marie Valadez |
| Title: Regulatory Specialist |
| E-mail Address: sford@enduringresources.com |
| Date: 7/13/2026 |
| Phone: 505-716-3297 |

| **OIL CONSERVATION DIVISION**<br>**(Only applicable when submitted as a standalone form)** |
|---|
| Approved By: |
| Title: |
| Approval Date: |
| Conditions of Approval: |

Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN
Bobby B 027H, 028H, 029H, 037H, 038H, 039H

## SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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

Enduring Resources, LLC.
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NATURAL GAS MANAGEMENT PLAN
Bobby B 027H, 028H, 029H, 037H, 038H, 039H

## VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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

Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN
Bobby B 027H, 028H, 029H, 037H, 038H, 039H

## OPERATIONAL PRACTICES

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

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

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

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

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

During Completion Operations, Enduring utilizes the following:

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

Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN
Bobby B 027H, 028H, 029H, 037H, 038H, 039H

**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-hours.
    i. When natural gas does not meet the gathering pipeline specifications.
    j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

**19.15.27.8 E. Performance standards**

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





a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts ENDURING of flare malfunction within 18 months after May 25, 2021.
c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.

4. Enduring will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
5. Enduring will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
6. Enduring may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
7. Facilities will be designed to minimize waste.
8. Enduring will resolve emergencies as promptly as possible.

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

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

Enduring Resources, LLC.
OGRID No: 372286
NATURAL GAS MANAGEMENT PLAN
Bobby B 027H, 028H, 029H, 037H, 038H, 039H

## 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:*** **Bobby B Unit 028H**
***API Number:*** Not yet assigned
***AFE Number:*** *DV03253*
***ER Well Number:*** *NM10099.01*
***State:*** New Mexico
***County:*** Rio Arriba
***Surface Elevation:*** 6,715 ft ASL (GL) 6,739 ft ASL (KB)
***Surface Location:*** 36-24-7 Sec-Twn-Rng 601 ft FNL 551 ft FEL
36.273799 ° N latitude 107.521083 ° W longitude (NAD 83)
***BH Location:*** 15-24-7 Sec-Twn-Rng 1,081 ft FSL 228 ft FWL
36.309432 ° N latitude 107.571108 ° 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 49.1 miles to MM 102.9, Left (NorthEast) on County Road 378 (Lybrook Plant) for 1.1 miles to Y (Rocky Berry Pass); Left (NorthWest) staying on Cty Rd 378 for 0.4 miles to T; Right/Straight (North) on Cty Rd 378 for 2.15 miles to T, Left (West) for 0.1 miles to Bobby B40H Pad, There are 6 wells planned and one existing on this location from North (closest to location access) to South; Bobby B Unit 038H, BBU 037H, BBU 039H, BBU 029H, BBU 028H, and BBU 027H). The existing Escrito A36 2407 001H and is 290' East and slightly south of the line of proposed wells.

**GEOLOGIC AND RESERVOIR INFORMATION:**

***Prognosis:***

| Formation Tops | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O / G / W | Pressure |
|---|---|---|---|---|---|
| Ojo Alamo | 5,340 | 1,399 | 1,402 | W | normal |
| Kirtland | 5,250 | 1,489 | 1,494 | W | normal |
| Fruitland | 5,045 | 1,694 | 1,706 | G, W | sub |
| Pictured Cliffs | 4,795 | 1,944 | 1,964 | G, W | sub |
| Lewis | 4,660 | 2,079 | 2,103 | G, W | normal |
| Chacra | 4,361 | 2,378 | 2,413 | G, W | normal |
| Cliff House | 3,256 | 3,483 | 3,554 | G, W | sub |
| Menefee | 3,231 | 3,508 | 3,580 | G, W | normal |
| Point Lookout | 2,552 | 4,187 | 4,282 | G, W | normal |
| Mancos | 2,247 | 4,492 | 4,593 | O,G | sub (~0.38) |
| Gallup (MNCS_A) | 1,897 | 4,842 | 4,943 | O,G | sub (~0.38) |
| MNCS_B | 1,812 | 4,927 | 5,028 | O,G | sub (~0.38) |
| MNCS_C | 1,667 | 5,072 | 5,176 | O,G | sub (~0.38) |
| MNCS_Cms | 1,581 | 5,158 | 5,267 | O,G | sub (~0.38) |
| MNCS_D | 1,551 | 5,188 | 5,300 | O,G | sub (~0.38) |
| MNCS_E | 1,461 | 5,278 | 5,409 | O,G | sub (~0.38) |
| MNCS_F | 1,420 | 5,319 | 5,463 | O,G | sub (~0.38) |
| MNCS_G | 1,340 | 5,399 | 5,591 | O,G | sub (~0.38) |
| MNCS_H | 1,294 | 5,445 | 5,689 | O,G | sub (~0.38) |
| MNCS_I | #VALUE! | NA | NA | O,G | sub (~0.38) |

| | | | | | |
|---|---|---|---|---|---|
| FTP TARGET | 1,340 | 5,399 | 5,591 | O,G | sub (~0.38) |
| PROJECTED TD | 1,075 | 5,664 | 25,187 | 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/ft Evacuated hole gradient: 0.22 psi/ft

**Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,440 psi**

**Maximum anticipated surface pressure, assuming partially evacuated hole: 1,200 psi**

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

## $H_2S$ INFORMATION:

***$H_2S$ 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.:*** 153

***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-800 (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.

**2)** BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.

5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device.The valve will be maintained in the open position and shall only be closed when 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.***

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

***Hole Size:*** 12-1/4"

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

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

***Logging:*** None

| ***Casing Specs:*** | | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---|---|---|---|---|---|---|---|---|
| *Specs* | 9.625 | 36.0 | J-55 | BTC | 2,020 | 3,520 | 564,000 | 639,000 |
| *Loading* | | | | | 153 | 1,173 | 110,988 | 110,988 |

| | | | | | |
|---|---|---|---|---|---|
| Min. S.F. | | 13.21 | 3.00 | 5.08 | 5.76 |

*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):*** *Minumum:* NA *Optimum:* NA *Maximum:* NA

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

| ***Cement:*** | Type | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | Hole Cap. (cuft/ft) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) | Total Cmt (cu 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 | 5,874 ft (MD) | Hole Section Length: | 5,524 ft |
| 350 ft (TVD) | to | 5,490 ft (TVD) | Casing Required: | 5,874 ft |

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

***Hole Size:*** 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 (lbs) | Tens. Conn (lbs) |
|---|---|---|---|---|---|---|---|---|
| *Specs* | 7 | 26.0 | J-55 | BTC | 4,320 | 4,980 | 415,000 | 490,000 |
| *Loading* | | | | | 2,398 | 1,514 | 233,183 | 233,183 |
| *Min. S.F.* | | | | | **1.80** | **3.29** | **1.78** | **2.10** |

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

| ***Cement:*** | Type | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) | Total Cmt (cu ft) |
|---|---|---|---|---|---|---|---|---|
| *Spacer* | ntegraGuard EZ LCM | 10.5 | | 33.2 | | 0 | 40 bls | |
| *Lead* | IntegraCem XTL | 11.5 | 1.850 | 10.8 | 100% | 0 | 375 | 694 |
| *Lead* | IntegraCem XTL | 11.5 | 1.860 | 10.8 | 100% | 2,463 | 328 | 610 |
| *Tail* | Type III | 13.5 | 1.750 | 8.9 | 30% | 4,493 | 160 | 279 |

| | | | | | |
|---|---|---|---|---|---|
| *Annular Capacity* | 0.16681 | cuft/ft | *7" casing x 9-5/8" casing annulus* | Shoe Track L | 44 |
| | 0.1503 | cuft/ft | *7" casing x 8-3/4" 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*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Spacer** | IntegraGuard EZ LCM-1 | *S-8 silica flour 167.626 lb/bbl* | *SS-201 Surfactant 1 gal/bbl* | *Xcem-1205 LCM 10 lb/bbl* | Xcem-311 Defoamer .5 lb/bbl | Xcem 621 Viscosifier 11.6 lb/bbl | | | | |
| **Lead** | *ASTM Type IL 40%* | AEXT-1012 Entender 60% | A-2 Sodium Metasilicate Accelerator 0.1% BWOB | A-5 Salt Accelerator 0.3% BWOW | IntegraGuard GW-86 Viscosifier 0.1% BWOB | *Xcem-1205 LCM 2 lb/sx* | Xcem-311 Defoamer 0.3% BWOB | Xcem 532 Fluid Loss 0.3%BWOB | | |
| **Lead** | *ASTM Type IL 40%* | AEXT-1012 Entender 60% | A-2 Sodium Metasilicate Accelerator 0.1% BWOB | A-5 Salt Accelerator 0.3% BWOW | BA-60 Bonding Agent 0.4%BWOB | IntegraGuard GW-86 Viscosifier 0.1% BWOB | *Xcem-1205 LCM 2 lb/sx* | Xcem-311 Defoamer 0.3% BWOB | Xcem 532 Fluid Loss 0.3%BWOB | |
| **Tail** | *ASTM Type IL 100%* | A-10 Extender Gypsum Accelerator 0.3% BWOB | A-2 Sodium Metasilicate Accelerator 0.1% BWOB | BA-60 Bonding Agent 0.4%BWOB | R-7C Retarder 0.05% BWOB | Xcem-1018 Extender 3 lb/sx | *Xcem-1205 LCM 2 lb/sx* | Xcem-311 Defoamer 0.3% BWOB | Xcem 532 Fluid Loss 0.3%BWOB | |

*American 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.***

| | | | | | | |
|---|---|---|---|---|---|---|
| **5,874** | **ft (MD)** | **to** | **25,187** | **ft (MD)** | **Hole Section Length:** | **19,313 ft** |
| **5,490** | **ft (TVD)** | **to** | **5,664** | **ft (TVD)** | **Casing Required:** | **19,468 ft** |
| | | ***Estimated KOP:*** | **5,019** | **ft (MD)** | **4,918** | **ft (TVD)** |
| | | ***Estimated Liner Top:*** | **5,719** | **ft (MD)** | **5,456** | **ft (TVD)** |
| | | ***Estimated Landing Point (FTP):*** | **5,591** | **ft (MD)** | **5,399** | **ft (TVD)** |
| | | ***Estimated Lateral Length:*** | **19,596** | **ft (MD)** | | |

| ***Fluid:*** | **Type** | **MW (ppg)** | **FL (mL/30')** | **PV (cp)** | **YP (lb/100 sqft)** | **pH** | **Comments** | **Comments** |
|---|---|---|---|---|---|---|---|---|
| | **WBM** | 8.7 - 9.0 | NC | 1 | 1 | 8.5-9.2 | prod water | |

***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.

| ***Liner/Casing Specs:*** | Size (in) | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---|---|---|---|---|---|---|---|---|
| *Specs* | 4.500 | 11.6 | P-110 | BTC | 7,560 | 10,690 | 367,000 | 385,000 |
| *Loading* | | | | | 2,798 | 8,824 | 352,116 | 352,116 |
| *Min. S.F.* | | | | | **2.70** | **1.21** | **1.04** | **1.09** |

*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.*

| ***Cement:*** | **Type** | **Weight (ppg)** | **Yield (cuft/sk)** | **Water (gal/sk)** | **% Excess** | **Planned TOC (ft MD)** | **Total Cmt (sx)** | **Total Cmt (cu ft)** |
|---|---|---|---|---|---|---|---|---|
| *Spacer* | Water | 8.4 | | | | 0 | 10 bbls | |
| *Spacer* | IntegraGuard EZII | 10 | | 35.7 | | 0 | 20 bbls | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *Lead/Tail* | G:POZ blend | 13.0 | 1.620 | 8.30 | 40% | 5,719 | 150 | 244 |
| *Tail* | G:POZ blend | 13.0 | 1.630 | 8.20 | 40% | 7,599 | 1,425 | 2,322 |

*Displacement* *-125* *est bbls*

*Annular Capacities*
0.1044 cuft/ft *4-1/2" casing x 7" casing annulus* Displ Time -31
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* 42

*Calculated cement volumes assume gauge hole and the excess noted in table*
*American Cementing Liner & Production Blend*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| ***Spacer*** | *Pozzolan Fly ash 113.2 lbs/bbl* | ASA-301 viscosifier 4.0 lb/bbl | SS201 Surfactant 0.5 gal/bbl | Xcem-311 Defoamer .8 lb/bbl | | | | | | |
| ***Lead/Tail*** | *Type G 50%* | Pozzolan Fly Ash Extender 50% | Bentonite Viscosifier 4% BWOB | FL24 Fluid Loss .4% BWOB | IntegraGuard GW86 Viscosif. 0.05% BWOB | R3 Retarder 0.3% BWOB | Xcem-311 Defoamer 0.3% BWOB | | | |
| ***Tail*** | *Type G 50%* | Pozzolan Fly Ash Extender 50% | Bentonite Viscosifier 4% BWOB | FL24 Fluid Loss .4% BWOB | IntegraGuard GW86 Viscosif. 0.05% BWOB | R3 Retarder 0.3% BWOB | Xcem-1205 Loss Circulation 2 lb/sx | | Xcem-311 Defoamer BWOB | 0.3% |
| ***Displacement*** | *Produced water plus biocide* | | | | | | | | | |

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

***Note:*** This well will not be considered an unorthodox well location as defined 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:*** 19,496

***Est Frac Inform:*** *81 Frac Stages* *312,000 bbls slick water* *25,350,000 lbs proppant*

***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:*** 12/10/2026
***Completion:*** 2/8/2027
***Production:*** 3/25/2027

***Prepared by:*** **Greg Olson** **6/25/2026**
***Updated:***

**WELL NAME:** **Bobby B Unit 028H**

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

**API Number:** *Not yet assigned*

**AFE Number:** *DV03253*

**ER Well Number:** *NM10099.01*

**State:** New Mexico

**County:** Rio Arriba

| | | | | | | |
|---|---|---|---|---|---|---|
| **Surface Elev.:** | 6,715 | ft ASL (GL) | 6,739 | ft ASL (KB) | | |
| **Surface Location:** | 36-24-7 | Sec-Twn- Rng | 601 | ft FNL | 551 | ft FEL |
| **BH Location:** | 15-24-7 | Sec-Twn- Rng | 1081 | ft FSL | 228 | ft FWL |

| QUICK REFERENCE | |
|---|---|
| Sur TD (MD) | 350 ft |
| Int TD (MD) | 5,874 ft |
| KOP (MD) | 5,019 ft |
| KOP (TVD) | 4,918 ft |
| Target (TVD) | 5,399 ft |
| Curve BUR | 10 °/100 ft |
| POE (MD) | 5,591 ft |
| TD (MD) | 25,187 ft |
| Lat Len (ft) | 19,596 ft |

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

South on US Hwy 550 for 49.1 miles to MM 102.9, Left (NorthEast) on County Road 378 (Lybrook Plant) for 1.1 miles to Y (Rocky Berry Pass); Left (NorthWest) staying on Cty Rd 378 for 0.4 miles to T; Right/Straight (North) on Cty Rd 378 for 2.15 miles to T, Left (West) for 0.1 miles to Bobby B40H Pad, There are 6 wells planned and one existing on this location from North (closest to location access) to South; Bobby B Unit 038H, BBU 037H, BBU 039H, BBU 029H, BBU 028H, and BBU 027H). The existing Escrito A36 2407 001H and is 290' East and slightly south of the line of proposed wells.

**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 | J-55 | BTC | 0 | 350 |
| *Intermediate* | 8.750 | 5,874 | 7 | 26.0 | J-55 | BTC | 0 | 5,874 |
| *Production* | 6.125 | 25,187 | 4.500 | 11.6 | P-110 | BTC | 5,719 | 25,187 |

**CEMENT PROPERTIES SUMMARY:**

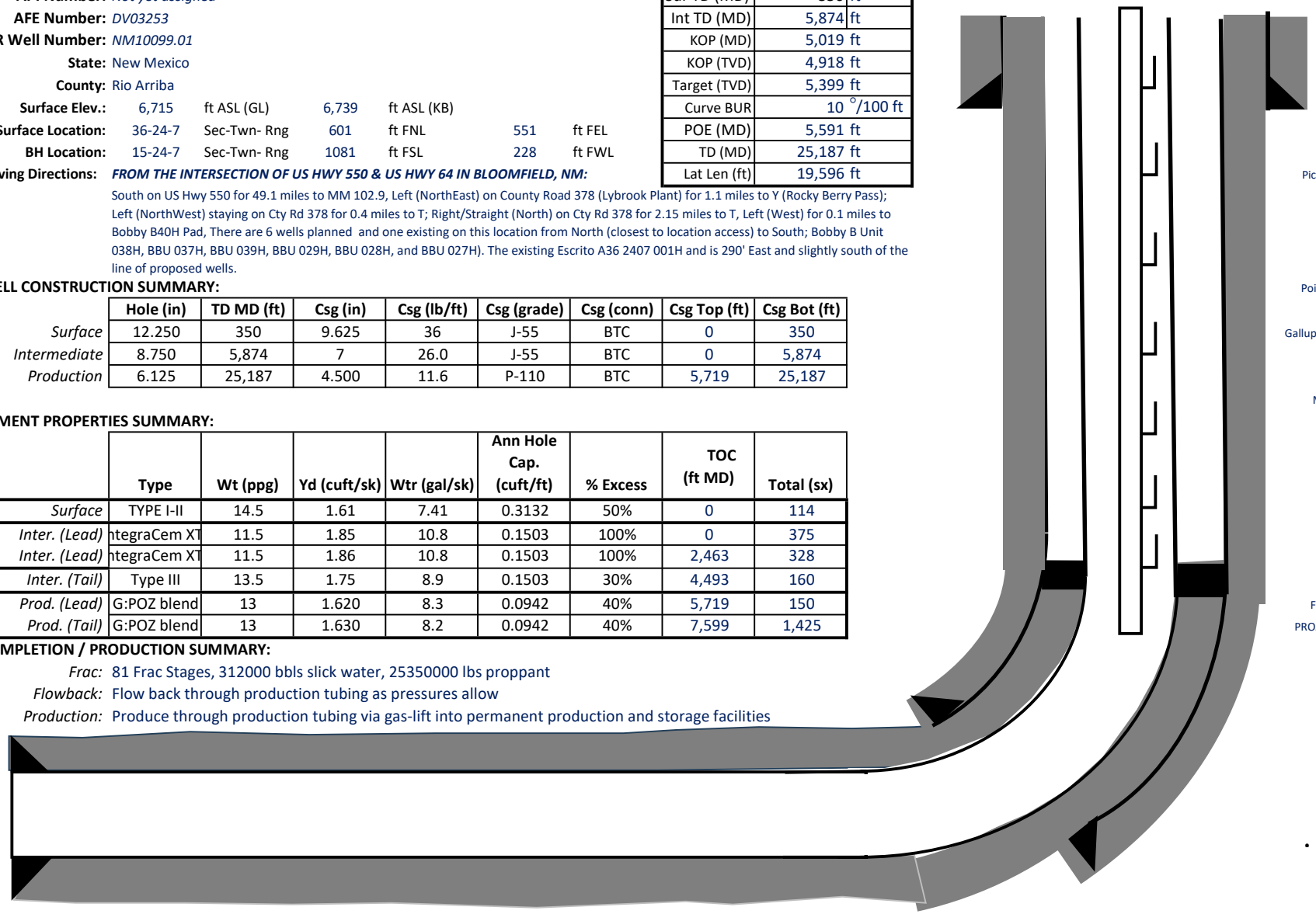
| | Type | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | Ann Hole Cap. (cuft/ft) | % Excess | TOC (ft MD) | Total (sx) |
|---|---|---|---|---|---|---|---|---|
| *Surface* | TYPE I-II | 14.5 | 1.61 | 7.41 | 0.3132 | 50% | 0 | 114 |
| *Inter. (Lead)* | ntegraCem XT | 11.5 | 1.85 | 10.8 | 0.1503 | 100% | 0 | 375 |
| *Inter. (Lead)* | ntegraCem XT | 11.5 | 1.86 | 10.8 | 0.1503 | 100% | 2,463 | 328 |
| *Inter. (Tail)* | Type III | 13.5 | 1.75 | 8.9 | 0.1503 | 30% | 4,493 | 160 |
| *Prod. (Lead)* | G:POZ blend | 13 | 1.620 | 8.3 | 0.0942 | 40% | 5,719 | 150 |
| *Prod. (Tail)* | G:POZ blend | 13 | 1.630 | 8.2 | 0.0942 | 40% | 7,599 | 1,425 |

**COMPLETION / PRODUCTION SUMMARY:**

*Frac:* 81 Frac Stages, 312000 bbls slick water, 25350000 lbs proppant

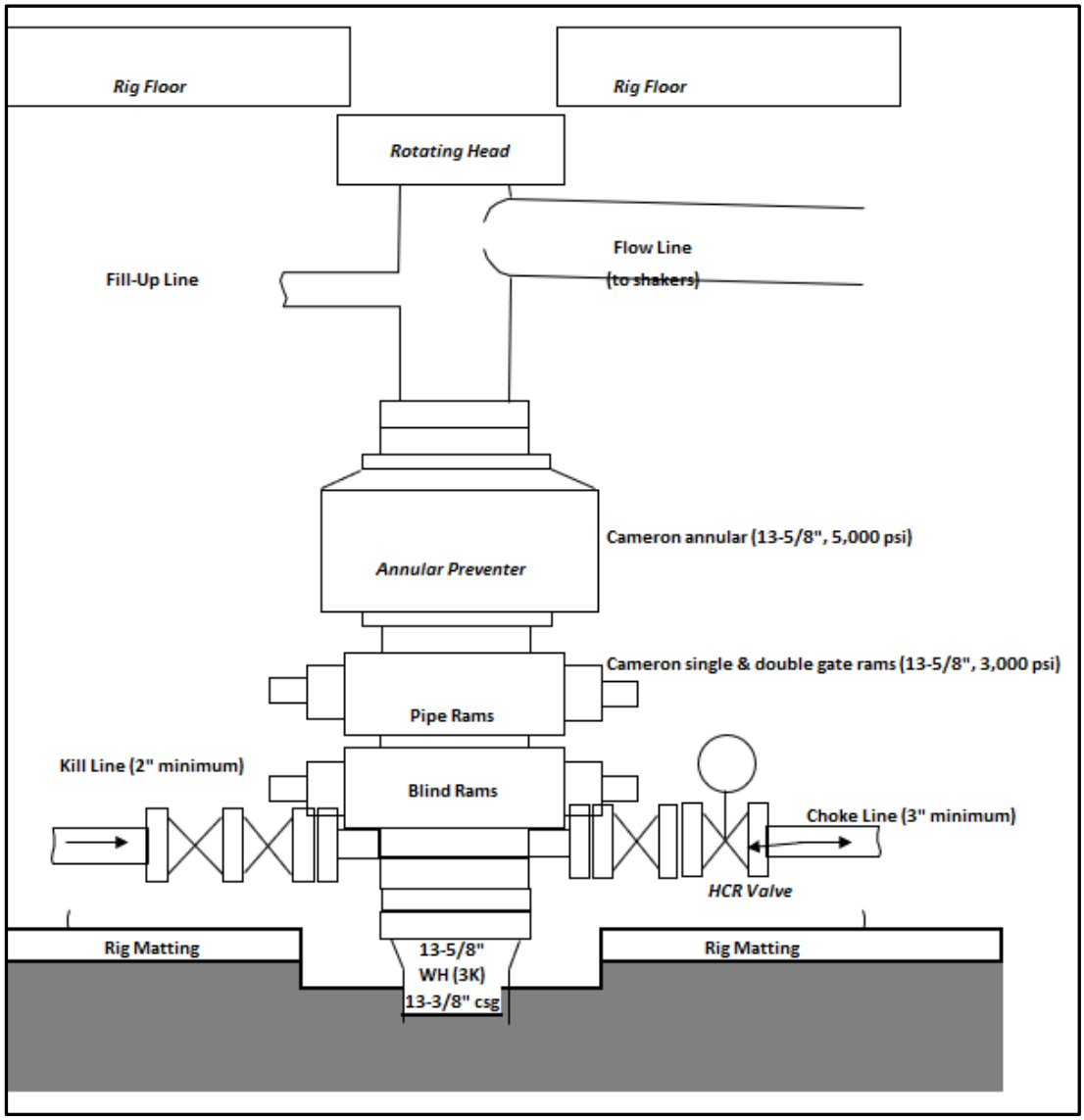
*Flowback:* Flow back through production tubing as pressures allow

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

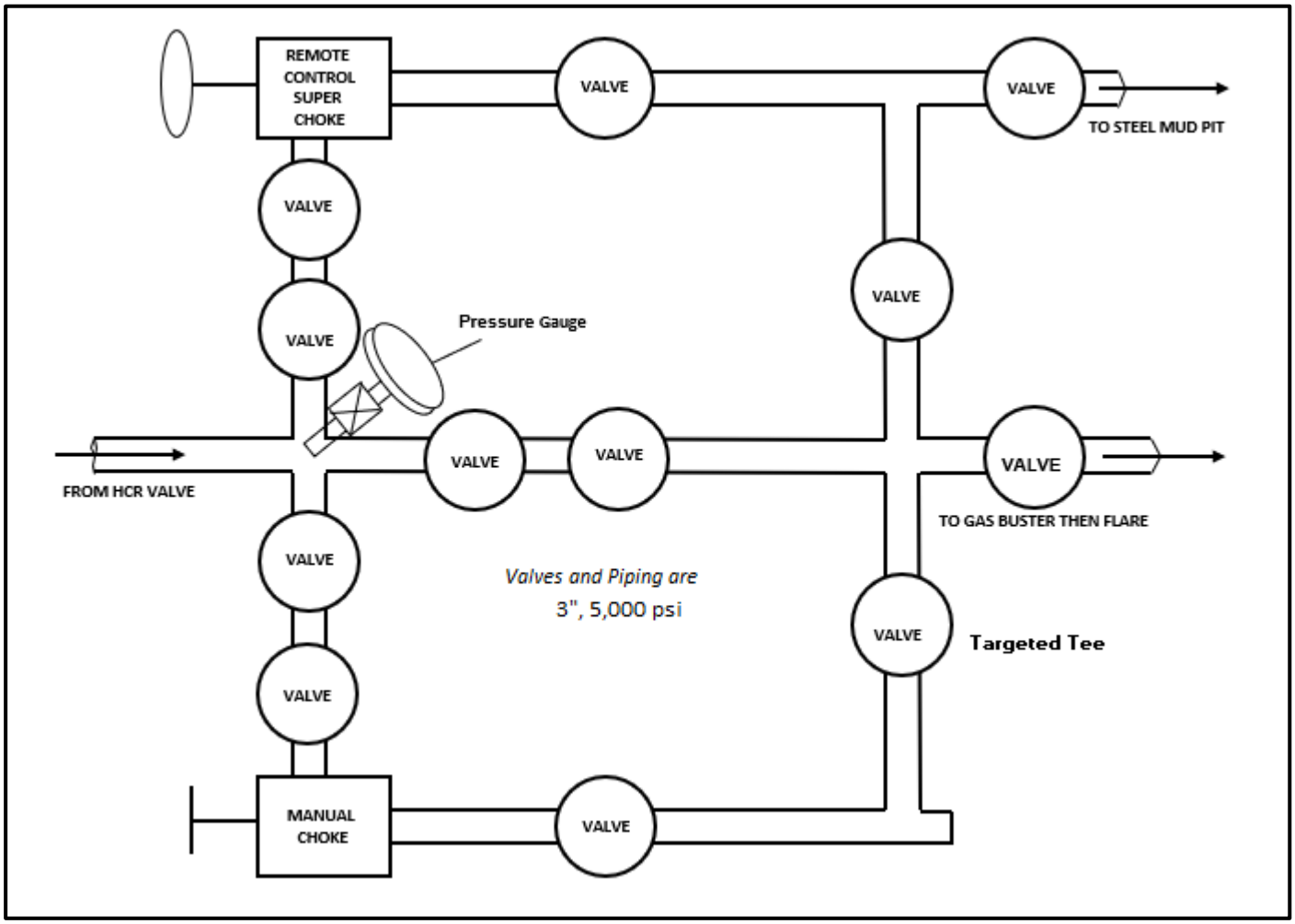


| Tops | TVD (ft KB) | MD (ft KB) |
|---|---|---|
| Ojo Alamo | 1,399 | 1,402 |
| Kirtland | 1,489 | 1,494 |
| Fruitland | 1,694 | 1,706 |
| Pictured Cliffs | 1,944 | 1,964 |
| Lewis | 2,079 | 2,103 |
| Chacra | 2,378 | 2,413 |
| Cliff House | 3,483 | 3,554 |
| Menefee | 3,508 | 3,580 |
| Point Lookout | 4,187 | 4,282 |
| Mancos | 4,492 | 4,593 |
| Gallup (MNCS_A) | 4,842 | 4,943 |
| MNCS_B | 4,927 | 5,028 |
| MNCS_C | 5,072 | 5,176 |
| MNCS_Cms | 5,158 | 5,267 |
| MNCS_D | 5,188 | 5,300 |
| MNCS_E | 5,278 | 5,409 |
| MNCS_F | 5,319 | 5,463 |
| MNCS_G | 5,399 | 5,591 |
| MNCS_H | 5,445 | 5,689 |
| MNCS_I | NA | NA |
| FTP TARGET | 5,399 | 5,591 |
| PROJECTED TD | 5,664 | 25,187 |

# Enduring Resources IV, LLC
# BOPE Diagram



# Enduring Resources IV, LLC
# CHOKE MANIFOLD



Received by OCD: 10/19/2026 1:04:58 PM

Released to Imaging: 10/27/2026 1:33:19 PM

ENDURING RESOURCES, LLC

**Well:** Bobby B unit 028H
**Site:** Sec 36 T24N R07W Bobby B 27-29,37-39
**Project:** Rio Arriba County, New Mexico NAD83 NM C
**Design:** rev0
**Rig:**

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|---|---|
| Bobby B 28H FTP 1103 FNL 1162 FEL | 5484.00 | -464.44 | -622.30 | 1920924.56 | 1265124.90 | 36.27250100 | -107.52317300 |
| Bobby B 28H LTP 1081 FSL 228 FWL 330 ppd | 5664.00 | 13169.56 | -14569.30 | 1934558.54 | 1251177.93 | 36.30943200 | -107.57110800 |
| Bobby B 28H vs=0 | 5484.00 | -548.56 | 536.25 | 1920840.44 | 1266283.45 | 36.27231174 | -107.51923977 |

Section Details

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Annotation |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | |
| 2 | 1000.00 | 0.00 | 0.000 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 | KOP Begin 3°/100' build |
| 3 | 1483.95 | 14.52 | 209.551 | 1478.79 | -53.06 | -30.08 | 3.00 | 209.551 | -15.58 | Begin 14.52° tangent |
| 4 | 4335.43 | 14.52 | 209.551 | 4239.21 | -674.91 | -382.64 | 0.00 | 0.000 | -198.17 | Begin 3°/100' drop |
| 5 | 4819.38 | 0.00 | 0.000 | 4718.00 | -727.97 | -412.72 | 3.00 | 180.000 | -213.75 | Begin vertical hold section |
| 6 | 5019.38 | 0.00 | 0.000 | 4918.00 | -727.97 | -412.72 | 0.00 | 0.000 | -213.75 | Begin 10°/100' build |
| 7 | 5719.38 | 70.00 | 319.430 | 5456.40 | -441.60 | -657.91 | 10.00 | 319.430 | 161.76 | |
| 8 | 5874.24 | 85.00 | 315.475 | 5489.84 | -330.66 | -759.94 | 10.00 | -14.912 | 312.27 | 85° inc @ 5874.24 MD 5489.84 TVD |
| 9 | 5920.51 | 89.49 | 314.350 | 5492.06 | -298.04 | -792.66 | 10.00 | -14.084 | 358.48 | Begin 89.49° lateral |
| 10 | 25187.11 | 89.49 | 314.350 | 5664.00 | 13169.56 | -14569.30 | 0.00 | 0.000 | 19624.30 | PBHL/TD @ 25187.11 MD 5664.00 TVD |

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6715+23.5 @ 6738.50ft

Surface location:

| Northing | Easting | Latitude | Longitude |
|---|---|---|---|
| 1921389.00 | 1265747.20 | 36.27379900 | -107.52108300 |

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 9.079°

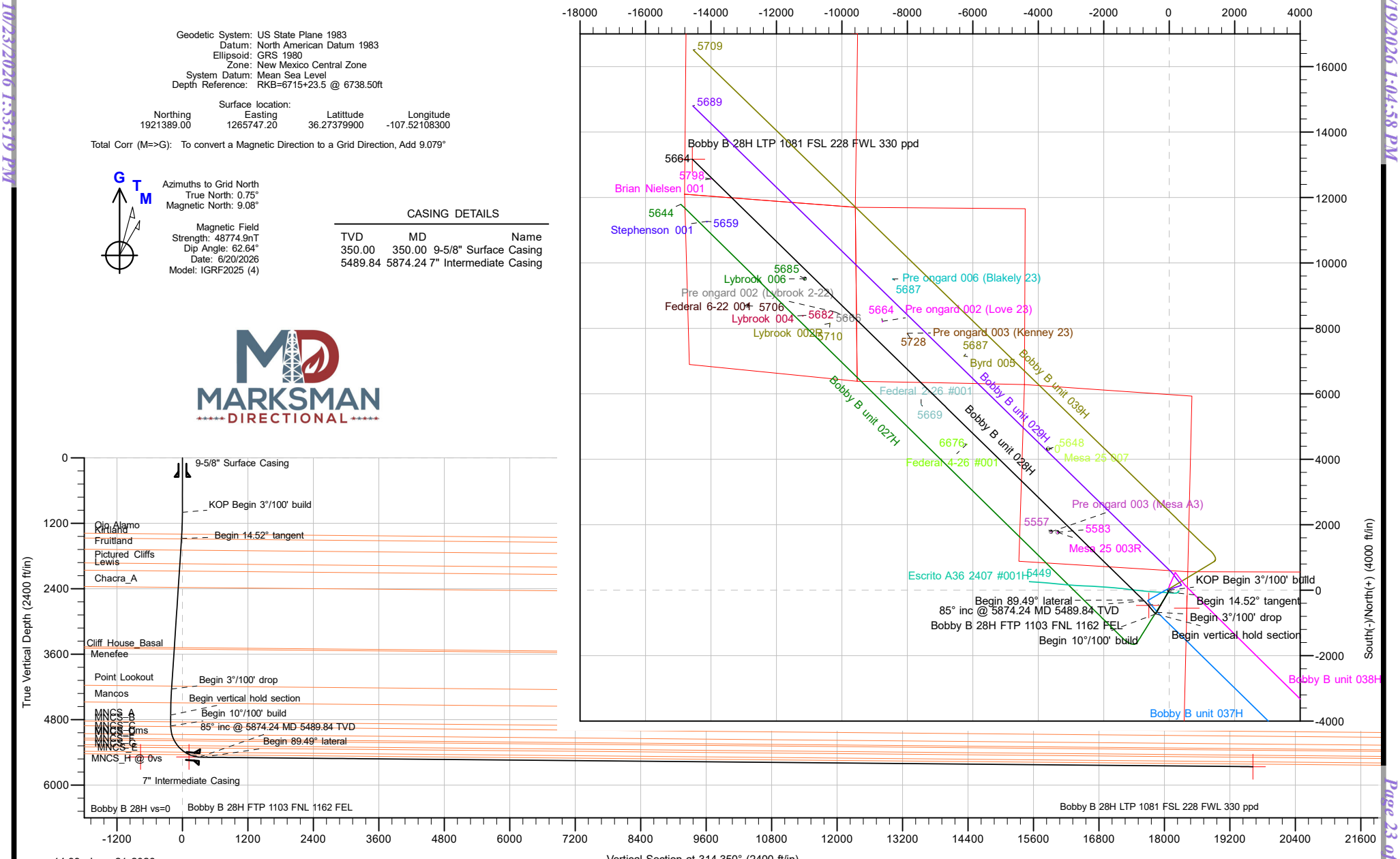
Azimuths to Grid North
True North: 0.75°
Magnetic North: 9.08°

Magnetic Field
Strength: 48774.9nT
Dip Angle: 62.64°
Date: 6/20/2026
Model: IGRF2025 (4)

CASING DETAILS

| TVD | MD | Name |
|---|---|---|
| 350.00 | 350.00 | 9-5/8" Surface Casing |
| 5489.84 | 5874.24 | 7" Intermediate Casing |

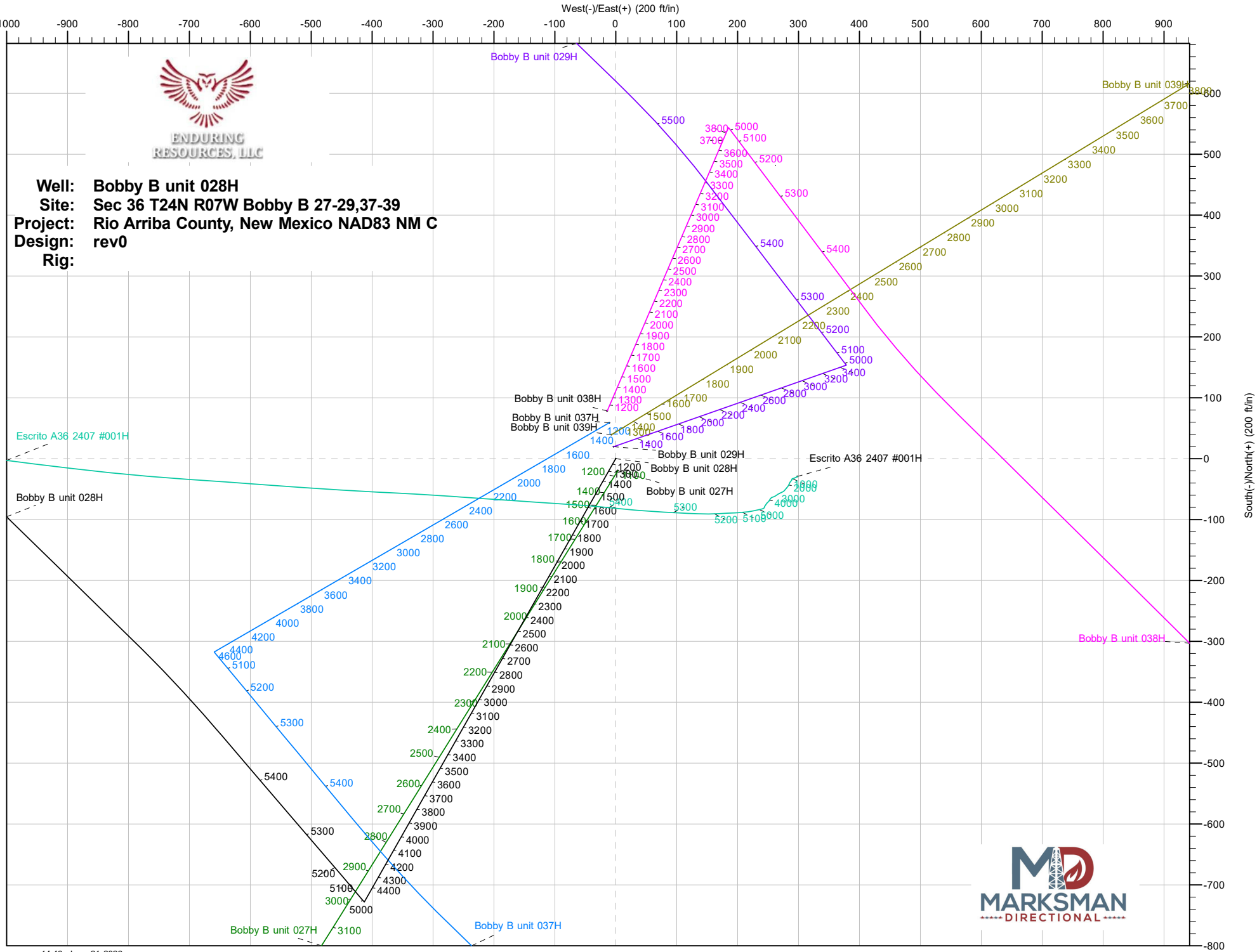
MARKSMAN DIRECTIONAL




14:39, June 21 2026

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Received by OCD: 10/19/2026 1:04:58 PM
Released to Imaging: 10/23/2026 1:33:19 PM



ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Project** Rio Arriba County, New Mexico NAD83 NM C

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Central Zone | | |

**Site** Sec 36 T24N R07W Bobby B 27-29,37-39

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 1,919,392.23 usft | **Latitude:** | 36.26824000 |
| **From:** | Lat/Long | **Easting:** | 1,263,672.66 usft | **Longitude:** | -107.52803000 |
| **Position Uncertainty:** | 0.00 ft | **Slot Radius:** | 13-3/16 " | | |

**Well** Bobby B unit 028H, Surf loc: 601 FNL 551 FEL Sec 36 T24N R07W

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 ft | **Northing:** | 1,921,389.00 usft | **Latitude:** | 36.27379900 |
| | **+E/-W** | 0.00 ft | **Easting:** | 1,265,747.20 usft | **Longitude:** | -107.52108300 |
| **Position Uncertainty** | | 0.00 ft | **Wellhead Elevation:** | 6,715.00 ft | **Ground Level:** | 6,715.00 ft |
| **Grid Convergence:** | | -0.752 ° | | | | |

**Wellbore** Orig hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2025 (4) | 6/20/2026 | 8.327 | 62.644 | 48,774.85257959 |

**Design** rev0

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 314.350 |

**Plan Survey Tool Program** **Date** 6/21/2026

| | Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 25,186.55 | rev0 (Orig hole) | MWD | |
| | | | | OWSG MWD - Standard | |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | 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 | |
| 1,483.95 | 14.52 | 209.551 | 1,478.79 | -53.06 | -30.08 | 3.00 | 3.00 | 0.00 | 209.551 | |
| 4,335.43 | 14.52 | 209.551 | 4,239.21 | -674.91 | -382.64 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 4,819.38 | 0.00 | 0.000 | 4,718.00 | -727.97 | -412.72 | 3.00 | -3.00 | 0.00 | 180.000 | |
| 5,019.38 | 0.00 | 0.000 | 4,918.00 | -727.97 | -412.72 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 5,719.38 | 70.00 | 319.430 | 5,456.40 | -441.60 | -657.91 | 10.00 | 10.00 | 0.00 | 319.430 | |
| 5,874.24 | 85.00 | 315.475 | 5,489.84 | -330.66 | -759.94 | 10.00 | 9.69 | -2.55 | -14.912 | |
| 5,920.51 | 89.49 | 314.350 | 5,492.06 | -298.04 | -792.66 | 10.00 | 9.70 | -2.43 | -14.084 | |
| 25,187.11 | 89.49 | 314.350 | 5,664.00 | 13,169.56 | -14,569.30 | 0.00 | 0.00 | 0.00 | 0.000 | Bobby B 28H LTP 10 |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.000 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.000 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.000 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350.00 | 0.00 | 0.000 | 350.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **9-5/8" Surface Casing** | | | | | | | | | |
| 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 |
| 800.00 | 0.00 | 0.000 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.000 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.000 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **KOP Begin 3°/100' build** | | | | | | | | | |
| 1,100.00 | 3.00 | 209.551 | 1,099.95 | -2.28 | -1.29 | -0.67 | 3.00 | 3.00 | 0.00 |
| 1,200.00 | 6.00 | 209.551 | 1,199.63 | -9.10 | -5.16 | -2.67 | 3.00 | 3.00 | 0.00 |
| 1,300.00 | 9.00 | 209.551 | 1,298.77 | -20.45 | -11.60 | -6.01 | 3.00 | 3.00 | 0.00 |
| 1,400.00 | 12.00 | 209.551 | 1,397.08 | -36.31 | -20.58 | -10.66 | 3.00 | 3.00 | 0.00 |
| 1,401.86 | 12.06 | 209.551 | 1,398.90 | -36.64 | -20.78 | -10.76 | 3.00 | 3.00 | 0.00 |
| **Ojo Alamo** | | | | | | | | | |
| 1,483.95 | 14.52 | 209.551 | 1,478.79 | -53.06 | -30.08 | -15.58 | 3.00 | 3.00 | 0.00 |
| **Begin 14.52° tangent** | | | | | | | | | |
| 1,494.35 | 14.52 | 209.551 | 1,488.86 | -55.32 | -31.36 | -16.24 | 0.00 | 0.00 | 0.00 |
| **Kirtland** | | | | | | | | | |
| 1,500.00 | 14.52 | 209.551 | 1,494.33 | -56.55 | -32.06 | -16.61 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 14.52 | 209.551 | 1,591.13 | -78.36 | -44.43 | -23.01 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 14.52 | 209.551 | 1,687.94 | -100.17 | -56.79 | -29.41 | 0.00 | 0.00 | 0.00 |
| 1,705.99 | 14.52 | 209.551 | 1,693.73 | -101.48 | -57.53 | -29.80 | 0.00 | 0.00 | 0.00 |
| **Fruitland** | | | | | | | | | |
| 1,800.00 | 14.52 | 209.551 | 1,784.74 | -121.98 | -69.16 | -35.82 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 14.52 | 209.551 | 1,881.55 | -143.79 | -81.52 | -42.22 | 0.00 | 0.00 | 0.00 |
| 1,964.08 | 14.52 | 209.551 | 1,943.59 | -157.76 | -89.44 | -46.32 | 0.00 | 0.00 | 0.00 |
| **Pictured Cliffs** | | | | | | | | | |
| 2,000.00 | 14.52 | 209.551 | 1,978.36 | -165.60 | -93.88 | -48.62 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 14.52 | 209.551 | 2,075.16 | -187.40 | -106.25 | -55.03 | 0.00 | 0.00 | 0.00 |
| 2,103.45 | 14.52 | 209.551 | 2,078.51 | -188.16 | -106.68 | -55.25 | 0.00 | 0.00 | 0.00 |
| **Lewis** | | | | | | | | | |
| 2,200.00 | 14.52 | 209.551 | 2,171.97 | -209.21 | -118.61 | -61.43 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 14.52 | 209.551 | 2,268.78 | -231.02 | -130.98 | -67.83 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 14.52 | 209.551 | 2,365.58 | -252.83 | -143.34 | -74.24 | 0.00 | 0.00 | 0.00 |
| 2,413.17 | 14.52 | 209.551 | 2,378.33 | -255.70 | -144.97 | -75.08 | 0.00 | 0.00 | 0.00 |
| **Chacra_A** | | | | | | | | | |
| 2,500.00 | 14.52 | 209.551 | 2,462.39 | -274.64 | -155.71 | -80.64 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 14.52 | 209.551 | 2,559.20 | -296.45 | -168.07 | -87.04 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 14.52 | 209.551 | 2,656.00 | -318.25 | -180.43 | -93.45 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 14.52 | 209.551 | 2,752.81 | -340.06 | -192.80 | -99.85 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 14.52 | 209.551 | 2,849.62 | -361.87 | -205.16 | -106.25 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 14.52 | 209.551 | 2,946.42 | -383.68 | -217.53 | -112.66 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 14.52 | 209.551 | 3,043.23 | -405.49 | -229.89 | -119.06 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 14.52 | 209.551 | 3,140.04 | -427.30 | -242.25 | -125.47 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 14.52 | 209.551 | 3,236.84 | -449.10 | -254.62 | -131.87 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 14.52 | 209.551 | 3,333.65 | -470.91 | -266.98 | -138.27 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 14.52 | 209.551 | 3,430.46 | -492.72 | -279.35 | -144.68 | 0.00 | 0.00 | 0.00 |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 3,553.95 | 14.52 | 209.551 | 3,482.68 | -504.49 | -286.02 | -148.13 | 0.00 | 0.00 | 0.00 |
| **Cliff House_Basal** | | | | | | | | | |
| 3,579.76 | 14.52 | 209.551 | 3,507.67 | -510.11 | -289.21 | -149.78 | 0.00 | 0.00 | 0.00 |
| **Menefee** | | | | | | | | | |
| 3,600.00 | 14.52 | 209.551 | 3,527.26 | -514.53 | -291.71 | -151.08 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 14.52 | 209.551 | 3,624.07 | -536.34 | -304.07 | -157.48 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 14.52 | 209.551 | 3,720.88 | -558.15 | -316.44 | -163.89 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 14.52 | 209.551 | 3,817.68 | -579.95 | -328.80 | -170.29 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 14.52 | 209.551 | 3,914.49 | -601.76 | -341.17 | -176.69 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 14.52 | 209.551 | 4,011.30 | -623.57 | -353.53 | -183.10 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 14.52 | 209.551 | 4,108.10 | -645.38 | -365.90 | -189.50 | 0.00 | 0.00 | 0.00 |
| 4,281.77 | 14.52 | 209.551 | 4,187.27 | -663.21 | -376.01 | -194.74 | 0.00 | 0.00 | 0.00 |
| **Point Lookout** | | | | | | | | | |
| 4,300.00 | 14.52 | 209.551 | 4,204.91 | -667.19 | -378.26 | -195.90 | 0.00 | 0.00 | 0.00 |
| 4,335.43 | 14.52 | 209.551 | 4,239.21 | -674.91 | -382.64 | -198.17 | 0.00 | 0.00 | 0.00 |
| **Begin 3°/100' drop** | | | | | | | | | |
| 4,400.00 | 12.58 | 209.551 | 4,301.98 | -688.07 | -390.10 | -202.04 | 3.00 | -3.00 | 0.00 |
| 4,500.00 | 9.58 | 209.551 | 4,400.10 | -704.79 | -399.58 | -206.95 | 3.00 | -3.00 | 0.00 |
| 4,592.98 | 6.79 | 209.551 | 4,492.13 | -716.31 | -406.11 | -210.33 | 3.00 | -3.00 | 0.00 |
| **Mancos** | | | | | | | | | |
| 4,600.00 | 6.58 | 209.551 | 4,499.10 | -717.02 | -406.51 | -210.54 | 3.00 | -3.00 | 0.00 |
| 4,700.00 | 3.58 | 209.551 | 4,598.69 | -724.73 | -410.88 | -212.80 | 3.00 | -3.00 | 0.00 |
| 4,800.00 | 0.58 | 209.551 | 4,698.62 | -727.88 | -412.67 | -213.73 | 3.00 | -3.00 | 0.00 |
| 4,819.38 | 0.00 | 0.000 | 4,718.00 | -727.97 | -412.72 | -213.75 | 3.00 | -3.00 | 0.00 |
| **Begin vertical hold section** | | | | | | | | | |
| 4,900.00 | 0.00 | 0.000 | 4,798.62 | -727.97 | -412.72 | -213.75 | 0.00 | 0.00 | 0.00 |
| 4,943.48 | 0.00 | 0.000 | 4,842.10 | -727.97 | -412.72 | -213.75 | 0.00 | 0.00 | 0.00 |
| **MNCS_A** | | | | | | | | | |
| 5,000.00 | 0.00 | 0.000 | 4,898.62 | -727.97 | -412.72 | -213.75 | 0.00 | 0.00 | 0.00 |
| 5,019.38 | 0.00 | 0.000 | 4,918.00 | -727.97 | -412.72 | -213.75 | 0.00 | 0.00 | 0.00 |
| **Begin 10°/100' build** | | | | | | | | | |
| 5,028.48 | 0.91 | 319.430 | 4,927.10 | -727.92 | -412.77 | -213.68 | 10.00 | 10.00 | 0.00 |
| **MNCS_B** | | | | | | | | | |
| 5,050.00 | 3.06 | 319.430 | 4,948.60 | -727.35 | -413.25 | -212.94 | 10.00 | 10.00 | 0.00 |
| 5,100.00 | 8.06 | 319.430 | 4,998.35 | -723.67 | -416.40 | -208.11 | 10.00 | 10.00 | 0.00 |
| 5,150.00 | 13.06 | 319.430 | 5,047.49 | -716.71 | -422.36 | -198.99 | 10.00 | 10.00 | 0.00 |
| 5,175.60 | 15.62 | 319.430 | 5,072.29 | -711.89 | -426.48 | -192.67 | 10.00 | 10.00 | 0.00 |
| **MNCS_C** | | | | | | | | | |
| 5,200.00 | 18.06 | 319.430 | 5,095.64 | -706.52 | -431.08 | -185.63 | 10.00 | 10.00 | 0.00 |
| 5,250.00 | 23.06 | 319.430 | 5,142.44 | -693.19 | -442.50 | -168.14 | 10.00 | 10.00 | 0.00 |
| 5,266.54 | 24.72 | 319.430 | 5,157.56 | -688.10 | -446.86 | -161.47 | 10.00 | 10.00 | 0.00 |
| **MNCS_Cms** | | | | | | | | | |
| 5,300.00 | 28.06 | 319.430 | 5,187.53 | -676.81 | -456.53 | -146.66 | 10.00 | 10.00 | 0.00 |
| 5,300.19 | 28.06 | 319.430 | 5,187.70 | -676.74 | -456.58 | -146.57 | 0.00 | 0.00 | 0.00 |
| **MNCS_D** | | | | | | | | | |
| 5,350.00 | 33.06 | 319.430 | 5,230.57 | -657.50 | -473.06 | -121.34 | 10.04 | 10.04 | 0.00 |
| 5,400.00 | 38.06 | 319.430 | 5,271.23 | -635.42 | -491.96 | -92.39 | 10.00 | 10.00 | 0.00 |
| 5,408.94 | 38.96 | 319.430 | 5,278.23 | -631.19 | -495.58 | -86.85 | 10.00 | 10.00 | 0.00 |
| **MNCS_E** | | | | | | | | | |
| 5,450.00 | 43.06 | 319.430 | 5,309.21 | -610.73 | -513.10 | -60.01 | 10.00 | 10.00 | 0.00 |
| 5,462.92 | 44.35 | 319.430 | 5,318.55 | -603.95 | -518.91 | -51.12 | 10.00 | 10.00 | 0.00 |
| **MNCS_F** | | | | | | | | | |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,500.00 | 48.06 | 319.430 | 5,344.20 | -583.62 | -536.31 | -24.46 | 10.00 | 10.00 | 0.00 |
| 5,550.00 | 53.06 | 319.430 | 5,375.96 | -554.30 | -561.42 | 13.99 | 10.00 | 10.00 | 0.00 |
| 5,591.04 | 57.17 | 319.430 | 5,399.42 | -528.73 | -583.31 | 47.51 | 10.00 | 10.00 | 0.00 |
| **MNCS_G** | | | | | | | | | |
| 5,600.00 | 58.06 | 319.430 | 5,404.22 | -522.98 | -588.23 | 55.05 | 10.00 | 10.00 | 0.00 |
| 5,650.00 | 63.06 | 319.430 | 5,428.79 | -489.92 | -616.54 | 98.41 | 10.00 | 10.00 | 0.00 |
| 5,688.81 | 66.94 | 319.430 | 5,445.19 | -463.20 | -639.42 | 133.44 | 10.00 | 10.00 | 0.00 |
| **MNCS_H @ 0vs** | | | | | | | | | |
| 5,700.00 | 68.06 | 319.430 | 5,449.47 | -455.35 | -646.14 | 143.74 | 10.00 | 10.00 | 0.00 |
| 5,719.38 | 70.00 | 319.430 | 5,456.40 | -441.60 | -657.91 | 161.76 | 10.00 | 10.00 | 0.00 |
| 5,750.00 | 72.96 | 318.606 | 5,466.13 | -419.69 | -676.95 | 190.69 | 10.00 | 9.67 | -2.69 |
| 5,800.00 | 77.80 | 317.314 | 5,478.74 | -383.77 | -709.34 | 238.96 | 10.00 | 9.68 | -2.58 |
| 5,850.00 | 82.65 | 316.068 | 5,487.23 | -347.93 | -743.13 | 288.18 | 10.00 | 9.69 | -2.49 |
| 5,874.24 | 85.00 | 315.475 | 5,489.84 | -330.66 | -759.94 | 312.27 | 10.00 | 9.70 | -2.45 |
| **85° inc @ 5874.24 MD 5489.84 TVD - 7" Intermediate Casing** | | | | | | | | | |
| 5,900.00 | 87.50 | 314.848 | 5,491.52 | -312.44 | -778.06 | 337.97 | 10.00 | 9.70 | -2.44 |
| 5,920.51 | 89.49 | 314.350 | 5,492.06 | -298.04 | -792.66 | 358.48 | 10.00 | 9.70 | -2.43 |
| **Begin 89.49° lateral** | | | | | | | | | |
| 6,000.00 | 89.49 | 314.350 | 5,492.77 | -242.48 | -849.50 | 437.96 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 89.49 | 314.350 | 5,493.66 | -172.58 | -921.01 | 537.96 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 89.49 | 314.350 | 5,494.56 | -102.68 | -992.51 | 637.95 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 89.49 | 314.350 | 5,495.45 | -32.77 | -1,064.02 | 737.95 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 89.49 | 314.350 | 5,496.34 | 37.13 | -1,135.52 | 837.95 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 89.49 | 314.350 | 5,497.23 | 107.03 | -1,207.03 | 937.94 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 89.49 | 314.350 | 5,498.13 | 176.93 | -1,278.53 | 1,037.94 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 89.49 | 314.350 | 5,499.02 | 246.83 | -1,350.04 | 1,137.93 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 89.49 | 314.350 | 5,499.91 | 316.73 | -1,421.54 | 1,237.93 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 89.49 | 314.350 | 5,500.80 | 386.63 | -1,493.05 | 1,337.93 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 89.49 | 314.350 | 5,501.70 | 456.53 | -1,564.55 | 1,437.92 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 89.49 | 314.350 | 5,502.59 | 526.44 | -1,636.06 | 1,537.92 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 89.49 | 314.350 | 5,503.48 | 596.34 | -1,707.56 | 1,637.91 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 89.49 | 314.350 | 5,504.37 | 666.24 | -1,779.07 | 1,737.91 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 89.49 | 314.350 | 5,505.27 | 736.14 | -1,850.57 | 1,837.91 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 89.49 | 314.350 | 5,506.16 | 806.04 | -1,922.08 | 1,937.90 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 89.49 | 314.350 | 5,507.05 | 875.94 | -1,993.58 | 2,037.90 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 89.49 | 314.350 | 5,507.94 | 945.84 | -2,065.09 | 2,137.89 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 89.49 | 314.350 | 5,508.84 | 1,015.75 | -2,136.60 | 2,237.89 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 89.49 | 314.350 | 5,509.73 | 1,085.65 | -2,208.10 | 2,337.89 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.49 | 314.350 | 5,510.62 | 1,155.55 | -2,279.61 | 2,437.88 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 89.49 | 314.350 | 5,511.51 | 1,225.45 | -2,351.11 | 2,537.88 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 89.49 | 314.350 | 5,512.41 | 1,295.35 | -2,422.62 | 2,637.87 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 89.49 | 314.350 | 5,513.30 | 1,365.25 | -2,494.12 | 2,737.87 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.49 | 314.350 | 5,514.19 | 1,435.15 | -2,565.63 | 2,837.87 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.49 | 314.350 | 5,515.08 | 1,505.05 | -2,637.13 | 2,937.86 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 89.49 | 314.350 | 5,515.97 | 1,574.96 | -2,708.64 | 3,037.86 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.49 | 314.350 | 5,516.87 | 1,644.86 | -2,780.14 | 3,137.85 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.49 | 314.350 | 5,517.76 | 1,714.76 | -2,851.65 | 3,237.85 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.49 | 314.350 | 5,518.65 | 1,784.66 | -2,923.15 | 3,337.85 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.49 | 314.350 | 5,519.54 | 1,854.56 | -2,994.66 | 3,437.84 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.49 | 314.350 | 5,520.44 | 1,924.46 | -3,066.16 | 3,537.84 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.49 | 314.350 | 5,521.33 | 1,994.36 | -3,137.67 | 3,637.83 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.49 | 314.350 | 5,522.22 | 2,064.27 | -3,209.18 | 3,737.83 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.49 | 314.350 | 5,523.11 | 2,134.17 | -3,280.68 | 3,837.83 | 0.00 | 0.00 | 0.00 |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 9,500.00 | 89.49 | 314.350 | 5,524.01 | 2,204.07 | -3,352.19 | 3,937.82 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.49 | 314.350 | 5,524.90 | 2,273.97 | -3,423.69 | 4,037.82 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.49 | 314.350 | 5,525.79 | 2,343.87 | -3,495.20 | 4,137.81 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.49 | 314.350 | 5,526.68 | 2,413.77 | -3,566.70 | 4,237.81 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.49 | 314.350 | 5,527.58 | 2,483.67 | -3,638.21 | 4,337.81 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.49 | 314.350 | 5,528.47 | 2,553.57 | -3,709.71 | 4,437.80 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.49 | 314.350 | 5,529.36 | 2,623.48 | -3,781.22 | 4,537.80 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.49 | 314.350 | 5,530.25 | 2,693.38 | -3,852.72 | 4,637.79 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.49 | 314.350 | 5,531.15 | 2,763.28 | -3,924.23 | 4,737.79 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.49 | 314.350 | 5,532.04 | 2,833.18 | -3,995.73 | 4,837.79 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.49 | 314.350 | 5,532.93 | 2,903.08 | -4,067.24 | 4,937.78 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.49 | 314.350 | 5,533.82 | 2,972.98 | -4,138.74 | 5,037.78 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.49 | 314.350 | 5,534.72 | 3,042.88 | -4,210.25 | 5,137.77 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.49 | 314.350 | 5,535.61 | 3,112.79 | -4,281.75 | 5,237.77 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.49 | 314.350 | 5,536.50 | 3,182.69 | -4,353.26 | 5,337.77 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.49 | 314.350 | 5,537.39 | 3,252.59 | -4,424.77 | 5,437.76 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.49 | 314.350 | 5,538.29 | 3,322.49 | -4,496.27 | 5,537.76 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.49 | 314.350 | 5,539.18 | 3,392.39 | -4,567.78 | 5,637.75 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.49 | 314.350 | 5,540.07 | 3,462.29 | -4,639.28 | 5,737.75 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.49 | 314.350 | 5,540.96 | 3,532.19 | -4,710.79 | 5,837.75 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.49 | 314.350 | 5,541.85 | 3,602.09 | -4,782.29 | 5,937.74 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.49 | 314.350 | 5,542.75 | 3,672.00 | -4,853.80 | 6,037.74 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.49 | 314.350 | 5,543.64 | 3,741.90 | -4,925.30 | 6,137.73 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.49 | 314.350 | 5,544.53 | 3,811.80 | -4,996.81 | 6,237.73 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.49 | 314.350 | 5,545.42 | 3,881.70 | -5,068.31 | 6,337.73 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.49 | 314.350 | 5,546.32 | 3,951.60 | -5,139.82 | 6,437.72 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.49 | 314.350 | 5,547.21 | 4,021.50 | -5,211.32 | 6,537.72 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.49 | 314.350 | 5,548.10 | 4,091.40 | -5,282.83 | 6,637.71 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.49 | 314.350 | 5,548.99 | 4,161.30 | -5,354.33 | 6,737.71 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 89.49 | 314.350 | 5,549.89 | 4,231.21 | -5,425.84 | 6,837.71 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 89.49 | 314.350 | 5,550.78 | 4,301.11 | -5,497.34 | 6,937.70 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.49 | 314.350 | 5,551.67 | 4,371.01 | -5,568.85 | 7,037.70 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.49 | 314.350 | 5,552.56 | 4,440.91 | -5,640.36 | 7,137.69 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 89.49 | 314.350 | 5,553.46 | 4,510.81 | -5,711.86 | 7,237.69 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 89.49 | 314.350 | 5,554.35 | 4,580.71 | -5,783.37 | 7,337.69 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.49 | 314.350 | 5,555.24 | 4,650.61 | -5,854.87 | 7,437.68 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.49 | 314.350 | 5,556.13 | 4,720.52 | -5,926.38 | 7,537.68 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.49 | 314.350 | 5,557.03 | 4,790.42 | -5,997.88 | 7,637.67 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.49 | 314.350 | 5,557.92 | 4,860.32 | -6,069.39 | 7,737.67 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.49 | 314.350 | 5,558.81 | 4,930.22 | -6,140.89 | 7,837.67 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 89.49 | 314.350 | 5,559.70 | 5,000.12 | -6,212.40 | 7,937.66 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.49 | 314.350 | 5,560.60 | 5,070.02 | -6,283.90 | 8,037.66 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.49 | 314.350 | 5,561.49 | 5,139.92 | -6,355.41 | 8,137.65 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.49 | 314.350 | 5,562.38 | 5,209.82 | -6,426.91 | 8,237.65 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.49 | 314.350 | 5,563.27 | 5,279.73 | -6,498.42 | 8,337.65 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.49 | 314.350 | 5,564.17 | 5,349.63 | -6,569.92 | 8,437.64 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.49 | 314.350 | 5,565.06 | 5,419.53 | -6,641.43 | 8,537.64 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.49 | 314.350 | 5,565.95 | 5,489.43 | -6,712.94 | 8,637.63 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.49 | 314.350 | 5,566.84 | 5,559.33 | -6,784.44 | 8,737.63 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.49 | 314.350 | 5,567.73 | 5,629.23 | -6,855.95 | 8,837.63 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.49 | 314.350 | 5,568.63 | 5,699.13 | -6,927.45 | 8,937.62 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.49 | 314.350 | 5,569.52 | 5,769.04 | -6,998.96 | 9,037.62 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 89.49 | 314.350 | 5,570.41 | 5,838.94 | -7,070.46 | 9,137.61 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 89.49 | 314.350 | 5,571.30 | 5,908.84 | -7,141.97 | 9,237.61 | 0.00 | 0.00 | 0.00 |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 14,900.00 | 89.49 | 314.350 | 5,572.20 | 5,978.74 | -7,213.47 | 9,337.61 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 89.49 | 314.350 | 5,573.09 | 6,048.64 | -7,284.98 | 9,437.60 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.49 | 314.350 | 5,573.98 | 6,118.54 | -7,356.48 | 9,537.60 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 89.49 | 314.350 | 5,574.87 | 6,188.44 | -7,427.99 | 9,637.59 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 89.49 | 314.350 | 5,575.77 | 6,258.34 | -7,499.49 | 9,737.59 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 89.49 | 314.350 | 5,576.66 | 6,328.25 | -7,571.00 | 9,837.59 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 89.49 | 314.350 | 5,577.55 | 6,398.15 | -7,642.50 | 9,937.58 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 89.49 | 314.350 | 5,578.44 | 6,468.05 | -7,714.01 | 10,037.58 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 89.49 | 314.350 | 5,579.34 | 6,537.95 | -7,785.51 | 10,137.57 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 89.49 | 314.350 | 5,580.23 | 6,607.85 | -7,857.02 | 10,237.57 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 89.49 | 314.350 | 5,581.12 | 6,677.75 | -7,928.53 | 10,337.57 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 89.49 | 314.350 | 5,582.01 | 6,747.65 | -8,000.03 | 10,437.56 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 89.49 | 314.350 | 5,582.91 | 6,817.56 | -8,071.54 | 10,537.56 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.49 | 314.350 | 5,583.80 | 6,887.46 | -8,143.04 | 10,637.55 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.49 | 314.350 | 5,584.69 | 6,957.36 | -8,214.55 | 10,737.55 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.49 | 314.350 | 5,585.58 | 7,027.26 | -8,286.05 | 10,837.55 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.49 | 314.350 | 5,586.48 | 7,097.16 | -8,357.56 | 10,937.54 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.49 | 314.350 | 5,587.37 | 7,167.06 | -8,429.06 | 11,037.54 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.49 | 314.350 | 5,588.26 | 7,236.96 | -8,500.57 | 11,137.54 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.49 | 314.350 | 5,589.15 | 7,306.86 | -8,572.07 | 11,237.53 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.49 | 314.350 | 5,590.05 | 7,376.77 | -8,643.58 | 11,337.53 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.49 | 314.350 | 5,590.94 | 7,446.67 | -8,715.08 | 11,437.52 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 89.49 | 314.350 | 5,591.83 | 7,516.57 | -8,786.59 | 11,537.52 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 89.49 | 314.350 | 5,592.72 | 7,586.47 | -8,858.09 | 11,637.52 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.49 | 314.350 | 5,593.61 | 7,656.37 | -8,929.60 | 11,737.51 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.49 | 314.350 | 5,594.51 | 7,726.27 | -9,001.11 | 11,837.51 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 89.49 | 314.350 | 5,595.40 | 7,796.17 | -9,072.61 | 11,937.50 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 89.49 | 314.350 | 5,596.29 | 7,866.08 | -9,144.12 | 12,037.50 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 89.49 | 314.350 | 5,597.18 | 7,935.98 | -9,215.62 | 12,137.50 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 89.49 | 314.350 | 5,598.08 | 8,005.88 | -9,287.13 | 12,237.49 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 89.49 | 314.350 | 5,598.97 | 8,075.78 | -9,358.63 | 12,337.49 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 89.49 | 314.350 | 5,599.86 | 8,145.68 | -9,430.14 | 12,437.48 | 0.00 | 0.00 | 0.00 |
| 18,100.00 | 89.49 | 314.350 | 5,600.75 | 8,215.58 | -9,501.64 | 12,537.48 | 0.00 | 0.00 | 0.00 |
| 18,200.00 | 89.49 | 314.350 | 5,601.65 | 8,285.48 | -9,573.15 | 12,637.48 | 0.00 | 0.00 | 0.00 |
| 18,300.00 | 89.49 | 314.350 | 5,602.54 | 8,355.38 | -9,644.65 | 12,737.47 | 0.00 | 0.00 | 0.00 |
| 18,400.00 | 89.49 | 314.350 | 5,603.43 | 8,425.29 | -9,716.16 | 12,837.47 | 0.00 | 0.00 | 0.00 |
| 18,500.00 | 89.49 | 314.350 | 5,604.32 | 8,495.19 | -9,787.66 | 12,937.46 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 89.49 | 314.350 | 5,605.22 | 8,565.09 | -9,859.17 | 13,037.46 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 89.49 | 314.350 | 5,606.11 | 8,634.99 | -9,930.67 | 13,137.46 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 89.49 | 314.350 | 5,607.00 | 8,704.89 | -10,002.18 | 13,237.45 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 89.49 | 314.350 | 5,607.89 | 8,774.79 | -10,073.68 | 13,337.45 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 89.49 | 314.350 | 5,608.79 | 8,844.69 | -10,145.19 | 13,437.44 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 89.49 | 314.350 | 5,609.68 | 8,914.59 | -10,216.70 | 13,537.44 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 89.49 | 314.350 | 5,610.57 | 8,984.50 | -10,288.20 | 13,637.44 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 89.49 | 314.350 | 5,611.46 | 9,054.40 | -10,359.71 | 13,737.43 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 89.49 | 314.350 | 5,612.36 | 9,124.30 | -10,431.21 | 13,837.43 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 89.49 | 314.350 | 5,613.25 | 9,194.20 | -10,502.72 | 13,937.42 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 89.49 | 314.350 | 5,614.14 | 9,264.10 | -10,574.22 | 14,037.42 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 89.49 | 314.350 | 5,615.03 | 9,334.00 | -10,645.73 | 14,137.42 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 89.49 | 314.350 | 5,615.92 | 9,403.90 | -10,717.23 | 14,237.41 | 0.00 | 0.00 | 0.00 |
| 19,900.00 | 89.49 | 314.350 | 5,616.82 | 9,473.81 | -10,788.74 | 14,337.41 | 0.00 | 0.00 | 0.00 |
| 20,000.00 | 89.49 | 314.350 | 5,617.71 | 9,543.71 | -10,860.24 | 14,437.40 | 0.00 | 0.00 | 0.00 |
| 20,100.00 | 89.49 | 314.350 | 5,618.60 | 9,613.61 | -10,931.75 | 14,537.40 | 0.00 | 0.00 | 0.00 |
| 20,200.00 | 89.49 | 314.350 | 5,619.49 | 9,683.51 | -11,003.25 | 14,637.40 | 0.00 | 0.00 | 0.00 |

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 20,300.00 | 89.49 | 314.350 | 5,620.39 | 9,753.41 | -11,074.76 | 14,737.39 | 0.00 | 0.00 | 0.00 |
| 20,400.00 | 89.49 | 314.350 | 5,621.28 | 9,823.31 | -11,146.26 | 14,837.39 | 0.00 | 0.00 | 0.00 |
| 20,500.00 | 89.49 | 314.350 | 5,622.17 | 9,893.21 | -11,217.77 | 14,937.38 | 0.00 | 0.00 | 0.00 |
| 20,600.00 | 89.49 | 314.350 | 5,623.06 | 9,963.11 | -11,289.27 | 15,037.38 | 0.00 | 0.00 | 0.00 |
| 20,700.00 | 89.49 | 314.350 | 5,623.96 | 10,033.02 | -11,360.78 | 15,137.38 | 0.00 | 0.00 | 0.00 |
| 20,800.00 | 89.49 | 314.350 | 5,624.85 | 10,102.92 | -11,432.29 | 15,237.37 | 0.00 | 0.00 | 0.00 |
| 20,900.00 | 89.49 | 314.350 | 5,625.74 | 10,172.82 | -11,503.79 | 15,337.37 | 0.00 | 0.00 | 0.00 |
| 21,000.00 | 89.49 | 314.350 | 5,626.63 | 10,242.72 | -11,575.30 | 15,437.36 | 0.00 | 0.00 | 0.00 |
| 21,100.00 | 89.49 | 314.350 | 5,627.53 | 10,312.62 | -11,646.80 | 15,537.36 | 0.00 | 0.00 | 0.00 |
| 21,200.00 | 89.49 | 314.350 | 5,628.42 | 10,382.52 | -11,718.31 | 15,637.36 | 0.00 | 0.00 | 0.00 |
| 21,300.00 | 89.49 | 314.350 | 5,629.31 | 10,452.42 | -11,789.81 | 15,737.35 | 0.00 | 0.00 | 0.00 |
| 21,400.00 | 89.49 | 314.350 | 5,630.20 | 10,522.33 | -11,861.32 | 15,837.35 | 0.00 | 0.00 | 0.00 |
| 21,500.00 | 89.49 | 314.350 | 5,631.10 | 10,592.23 | -11,932.82 | 15,937.34 | 0.00 | 0.00 | 0.00 |
| 21,600.00 | 89.49 | 314.350 | 5,631.99 | 10,662.13 | -12,004.33 | 16,037.34 | 0.00 | 0.00 | 0.00 |
| 21,700.00 | 89.49 | 314.350 | 5,632.88 | 10,732.03 | -12,075.83 | 16,137.34 | 0.00 | 0.00 | 0.00 |
| 21,800.00 | 89.49 | 314.350 | 5,633.77 | 10,801.93 | -12,147.34 | 16,237.33 | 0.00 | 0.00 | 0.00 |
| 21,900.00 | 89.49 | 314.350 | 5,634.67 | 10,871.83 | -12,218.84 | 16,337.33 | 0.00 | 0.00 | 0.00 |
| 22,000.00 | 89.49 | 314.350 | 5,635.56 | 10,941.73 | -12,290.35 | 16,437.32 | 0.00 | 0.00 | 0.00 |
| 22,100.00 | 89.49 | 314.350 | 5,636.45 | 11,011.63 | -12,361.85 | 16,537.32 | 0.00 | 0.00 | 0.00 |
| 22,200.00 | 89.49 | 314.350 | 5,637.34 | 11,081.54 | -12,433.36 | 16,637.32 | 0.00 | 0.00 | 0.00 |
| 22,300.00 | 89.49 | 314.350 | 5,638.24 | 11,151.44 | -12,504.87 | 16,737.31 | 0.00 | 0.00 | 0.00 |
| 22,400.00 | 89.49 | 314.350 | 5,639.13 | 11,221.34 | -12,576.37 | 16,837.31 | 0.00 | 0.00 | 0.00 |
| 22,500.00 | 89.49 | 314.350 | 5,640.02 | 11,291.24 | -12,647.88 | 16,937.30 | 0.00 | 0.00 | 0.00 |
| 22,600.00 | 89.49 | 314.350 | 5,640.91 | 11,361.14 | -12,719.38 | 17,037.30 | 0.00 | 0.00 | 0.00 |
| 22,700.00 | 89.49 | 314.350 | 5,641.80 | 11,431.04 | -12,790.89 | 17,137.30 | 0.00 | 0.00 | 0.00 |
| 22,800.00 | 89.49 | 314.350 | 5,642.70 | 11,500.94 | -12,862.39 | 17,237.29 | 0.00 | 0.00 | 0.00 |
| 22,900.00 | 89.49 | 314.350 | 5,643.59 | 11,570.85 | -12,933.90 | 17,337.29 | 0.00 | 0.00 | 0.00 |
| 23,000.00 | 89.49 | 314.350 | 5,644.48 | 11,640.75 | -13,005.40 | 17,437.28 | 0.00 | 0.00 | 0.00 |
| 23,100.00 | 89.49 | 314.350 | 5,645.37 | 11,710.65 | -13,076.91 | 17,537.28 | 0.00 | 0.00 | 0.00 |
| 23,200.00 | 89.49 | 314.350 | 5,646.27 | 11,780.55 | -13,148.41 | 17,637.28 | 0.00 | 0.00 | 0.00 |
| 23,300.00 | 89.49 | 314.350 | 5,647.16 | 11,850.45 | -13,219.92 | 17,737.27 | 0.00 | 0.00 | 0.00 |
| 23,400.00 | 89.49 | 314.350 | 5,648.05 | 11,920.35 | -13,291.42 | 17,837.27 | 0.00 | 0.00 | 0.00 |
| 23,500.00 | 89.49 | 314.350 | 5,648.94 | 11,990.25 | -13,362.93 | 17,937.26 | 0.00 | 0.00 | 0.00 |
| 23,600.00 | 89.49 | 314.350 | 5,649.84 | 12,060.15 | -13,434.43 | 18,037.26 | 0.00 | 0.00 | 0.00 |
| 23,700.00 | 89.49 | 314.350 | 5,650.73 | 12,130.06 | -13,505.94 | 18,137.26 | 0.00 | 0.00 | 0.00 |
| 23,800.00 | 89.49 | 314.350 | 5,651.62 | 12,199.96 | -13,577.44 | 18,237.25 | 0.00 | 0.00 | 0.00 |
| 23,900.00 | 89.49 | 314.350 | 5,652.51 | 12,269.86 | -13,648.95 | 18,337.25 | 0.00 | 0.00 | 0.00 |
| 24,000.00 | 89.49 | 314.350 | 5,653.41 | 12,339.76 | -13,720.46 | 18,437.24 | 0.00 | 0.00 | 0.00 |
| 24,100.00 | 89.49 | 314.350 | 5,654.30 | 12,409.66 | -13,791.96 | 18,537.24 | 0.00 | 0.00 | 0.00 |
| 24,200.00 | 89.49 | 314.350 | 5,655.19 | 12,479.56 | -13,863.47 | 18,637.24 | 0.00 | 0.00 | 0.00 |
| 24,300.00 | 89.49 | 314.350 | 5,656.08 | 12,549.46 | -13,934.97 | 18,737.23 | 0.00 | 0.00 | 0.00 |
| 24,400.00 | 89.49 | 314.350 | 5,656.98 | 12,619.36 | -14,006.48 | 18,837.23 | 0.00 | 0.00 | 0.00 |
| 24,500.00 | 89.49 | 314.350 | 5,657.87 | 12,689.27 | -14,077.98 | 18,937.22 | 0.00 | 0.00 | 0.00 |
| 24,600.00 | 89.49 | 314.350 | 5,658.76 | 12,759.17 | -14,149.49 | 19,037.22 | 0.00 | 0.00 | 0.00 |
| 24,700.00 | 89.49 | 314.350 | 5,659.65 | 12,829.07 | -14,220.99 | 19,137.22 | 0.00 | 0.00 | 0.00 |
| 24,800.00 | 89.49 | 314.350 | 5,660.55 | 12,898.97 | -14,292.50 | 19,237.21 | 0.00 | 0.00 | 0.00 |
| 24,900.00 | 89.49 | 314.350 | 5,661.44 | 12,968.87 | -14,364.00 | 19,337.21 | 0.00 | 0.00 | 0.00 |
| 25,000.00 | 89.49 | 314.350 | 5,662.33 | 13,038.77 | -14,435.51 | 19,437.20 | 0.00 | 0.00 | 0.00 |
| 25,100.00 | 89.49 | 314.350 | 5,663.22 | 13,108.67 | -14,507.01 | 19,537.20 | 0.00 | 0.00 | 0.00 |
| 25,187.11 | 89.49 | 314.350 | 5,664.00 | 13,169.56 | -14,569.30 | 19,624.31 | 0.00 | 0.00 | 0.00 |

**PBHL/TD @ 25187.11 MD 5664.00 TVD**

ENDURING RESOURCES, LLC

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 350.00 | 350.00 | 9-5/8" Surface Casing | 9-5/8 | 12-1/4 |
| 5,874.24 | 5,489.84 | 7" Intermediate Casing | 7 | 8-3/4 |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 1,401.86 | 1,398.90 | Ojo Alamo | | 0.510 | 314.350 |
| 1,494.35 | 1,488.86 | Kirtland | | 0.510 | 314.350 |
| 1,705.99 | 1,693.73 | Fruitland | | 0.510 | 314.350 |
| 1,964.08 | 1,943.59 | Pictured Cliffs | | 0.510 | 314.350 |
| 2,103.45 | 2,078.51 | Lewis | | 0.510 | 314.350 |
| 2,413.17 | 2,378.33 | Chacra_A | | 0.510 | 314.350 |
| 3,553.95 | 3,482.68 | Cliff House_Basal | | 0.510 | 314.350 |
| 3,579.76 | 3,507.67 | Menefee | | 0.510 | 314.350 |
| 4,281.77 | 4,187.27 | Point Lookout | | 0.510 | 314.350 |
| 4,592.98 | 4,492.13 | Mancos | | 0.510 | 314.350 |
| 4,943.48 | 4,842.10 | MNCS_A | | 0.510 | 314.350 |
| 5,028.48 | 4,927.10 | MNCS_B | | 0.510 | 314.350 |
| 5,175.60 | 5,072.29 | MNCS_C | | 0.510 | 314.350 |
| 5,266.54 | 5,157.56 | MNCS_Cms | | 0.510 | 314.350 |
| 5,300.19 | 5,187.70 | MNCS_D | | 0.510 | 314.350 |
| 5,408.94 | 5,278.23 | MNCS_E | | 0.510 | 314.350 |
| 5,462.92 | 5,318.55 | MNCS_F | | 0.510 | 314.350 |
| 5,591.04 | 5,399.42 | MNCS_G | | 0.510 | 314.350 |
| 5,688.81 | 5,445.19 | MNCS_H @ 0vs | | 0.510 | 314.350 |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 1,000.00 | 1,000.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 1,483.95 | 1,478.79 | -53.06 | -30.08 | Begin 14.52° tangent |
| 4,335.43 | 4,239.21 | -674.91 | -382.64 | Begin 3°/100' drop |
| 4,819.38 | 4,718.00 | -727.97 | -412.72 | Begin vertical hold section |
| 5,019.38 | 4,918.00 | -727.97 | -412.72 | Begin 10°/100' build |
| 5,719.38 | 5,456.40 | -441.60 | -657.91 | |
| 5,874.24 | 5,489.84 | -330.66 | -759.94 | 85° inc @ 5874.24 MD 5489.84 TVD |
| 5,920.51 | 5,492.06 | -298.04 | -792.66 | Begin 89.49° lateral |
| 25,187.11 | 5,664.00 | 13,169.56 | -14,569.30 | PBHL/TD @ 25187.11 MD 5664.00 TVD |



Released to Imaging: 10/23/2026 1:53:19 PM

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Project** Rio Arriba County, New Mexico NAD83 NM C

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Central Zone | | |

**Site** Sec 36 T24N R07W Bobby B 27-29,37-39

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 1,919,392.23 usft | **Latitude:** | 36.26824000 |
| **From:** | Lat/Long | **Easting:** | 1,263,672.66 usft | **Longitude:** | -107.52803000 |
| **Position Uncertainty:** | 0.00 ft | **Slot Radius:** | 13-3/16 " | | |

**Well** Bobby B unit 028H, Surf loc: 601 FNL 551 FEL Sec 36 T24N R07W

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 ft | **Northing:** | 1,921,389.00 usft | **Latitude:** | 36.27379900 |
| | **+E/-W** | 0.00 ft | **Easting:** | 1,265,747.20 usft | **Longitude:** | -107.52108300 |
| **Position Uncertainty** | | 0.00 ft | **Wellhead Elevation:** | 6,715.00 ft | **Ground Level:** | 6,715.00 ft |
| **Grid Convergence:** | | -0.752 ° | | | | |

**Wellbore** Orig hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2025 (4) | 6/20/2026 | 8.327 | 62.644 | 48,774.85257959 |

**Design** rev0

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 314.350 |

**Plan Survey Tool Program** **Date** 6/21/2026

| | Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 25,186.55 | rev0 (Orig hole) | MWD<br>OWSG MWD - Standard | |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | 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 | |
| 1,483.95 | 14.52 | 209.551 | 1,478.79 | -53.06 | -30.08 | 3.00 | 3.00 | 0.00 | 209.551 | |
| 4,335.43 | 14.52 | 209.551 | 4,239.21 | -674.91 | -382.64 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 4,819.38 | 0.00 | 0.000 | 4,718.00 | -727.97 | -412.72 | 3.00 | -3.00 | 0.00 | 180.000 | |
| 5,019.38 | 0.00 | 0.000 | 4,918.00 | -727.97 | -412.72 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 5,719.38 | 70.00 | 319.430 | 5,456.40 | -441.60 | -657.91 | 10.00 | 10.00 | 0.00 | 319.430 | |
| 5,874.24 | 85.00 | 315.475 | 5,489.84 | -330.66 | -759.94 | 10.00 | 9.69 | -2.55 | -14.912 | |
| 5,920.51 | 89.49 | 314.350 | 5,492.06 | -298.04 | -792.66 | 10.00 | 9.70 | -2.43 | -14.084 | |
| 25,187.11 | 89.49 | 314.350 | 5,664.00 | 13,169.56 | -14,569.30 | 0.00 | 0.00 | 0.00 | 0.000 | Bobby B 28H LTP 10 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
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| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 100.00 | 0.00 | 0.000 | 100.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 200.00 | 0.00 | 0.000 | 200.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 300.00 | 0.00 | 0.000 | 300.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 350.00 | 0.00 | 0.000 | 350.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| **9-5/8" Surface Casing** | | | | | | | | | |
| 400.00 | 0.00 | 0.000 | 400.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 500.00 | 0.00 | 0.000 | 500.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 600.00 | 0.00 | 0.000 | 600.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 700.00 | 0.00 | 0.000 | 700.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 800.00 | 0.00 | 0.000 | 800.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 900.00 | 0.00 | 0.000 | 900.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| 1,000.00 | 0.00 | 0.000 | 1,000.00 | 0.00 | 0.00 | 1,921,389.00 | 1,265,747.20 | 36.27379900 | -107.52108300 |
| **KOP Begin 3°/100' build** | | | | | | | | | |
| 1,100.00 | 3.00 | 209.551 | 1,099.95 | -2.28 | -1.29 | 1,921,386.73 | 1,265,745.91 | 36.27379270 | -107.52108728 |
| 1,200.00 | 6.00 | 209.551 | 1,199.63 | -9.10 | -5.16 | 1,921,379.90 | 1,265,742.04 | 36.27377382 | -107.52110010 |
| 1,300.00 | 9.00 | 209.551 | 1,298.77 | -20.45 | -11.60 | 1,921,368.55 | 1,265,735.60 | 36.27374240 | -107.52112143 |
| 1,400.00 | 12.00 | 209.551 | 1,397.08 | -36.31 | -20.58 | 1,921,352.70 | 1,265,726.62 | 36.27369855 | -107.52115120 |
| 1,401.86 | 12.06 | 209.551 | 1,398.90 | -36.64 | -20.78 | 1,921,352.36 | 1,265,726.43 | 36.27369761 | -107.52115184 |
| **Ojo Alamo** | | | | | | | | | |
| 1,483.95 | 14.52 | 209.551 | 1,478.79 | -53.06 | -30.08 | 1,921,335.95 | 1,265,717.12 | 36.27365220 | -107.52118266 |
| **Begin 14.52° tangent** | | | | | | | | | |
| 1,494.35 | 14.52 | 209.551 | 1,488.86 | -55.32 | -31.36 | 1,921,333.68 | 1,265,715.84 | 36.27364593 | -107.52118692 |
| **Kirtland** | | | | | | | | | |
| 1,500.00 | 14.52 | 209.551 | 1,494.33 | -56.55 | -32.06 | 1,921,332.45 | 1,265,715.14 | 36.27364252 | -107.52118924 |
| 1,600.00 | 14.52 | 209.551 | 1,591.13 | -78.36 | -44.43 | 1,921,310.64 | 1,265,702.77 | 36.27358218 | -107.52123020 |
| 1,700.00 | 14.52 | 209.551 | 1,687.94 | -100.17 | -56.79 | 1,921,288.83 | 1,265,690.41 | 36.27352184 | -107.52127117 |
| 1,705.99 | 14.52 | 209.551 | 1,693.73 | -101.48 | -57.53 | 1,921,287.53 | 1,265,689.67 | 36.27351823 | -107.52127362 |
| **Fruitland** | | | | | | | | | |
| 1,800.00 | 14.52 | 209.551 | 1,784.74 | -121.98 | -69.16 | 1,921,267.02 | 1,265,678.05 | 36.27346150 | -107.52131213 |
| 1,900.00 | 14.52 | 209.551 | 1,881.55 | -143.79 | -81.52 | 1,921,245.22 | 1,265,665.68 | 36.27340116 | -107.52135310 |
| 1,964.08 | 14.52 | 209.551 | 1,943.59 | -157.76 | -89.44 | 1,921,231.24 | 1,265,657.76 | 36.27336249 | -107.52137935 |
| **Pictured Cliffs** | | | | | | | | | |
| 2,000.00 | 14.52 | 209.551 | 1,978.36 | -165.60 | -93.88 | 1,921,223.41 | 1,265,653.32 | 36.27334082 | -107.52139406 |
| 2,100.00 | 14.52 | 209.551 | 2,075.16 | -187.40 | -106.25 | 1,921,201.60 | 1,265,640.95 | 36.27328047 | -107.52143503 |
| 2,103.45 | 14.52 | 209.551 | 2,078.51 | -188.16 | -106.68 | 1,921,200.85 | 1,265,640.53 | 36.27327839 | -107.52143644 |
| **Lewis** | | | | | | | | | |
| 2,200.00 | 14.52 | 209.551 | 2,171.97 | -209.21 | -118.61 | 1,921,179.79 | 1,265,628.59 | 36.27322013 | -107.52147599 |
| 2,300.00 | 14.52 | 209.551 | 2,268.78 | -231.02 | -130.98 | 1,921,157.98 | 1,265,616.23 | 36.27315979 | -107.52151696 |
| 2,400.00 | 14.52 | 209.551 | 2,365.58 | -252.83 | -143.34 | 1,921,136.17 | 1,265,603.86 | 36.27309945 | -107.52155792 |
| 2,413.17 | 14.52 | 209.551 | 2,378.33 | -255.70 | -144.97 | 1,921,133.30 | 1,265,602.23 | 36.27309151 | -107.52156332 |
| **Chacra_A** | | | | | | | | | |
| 2,500.00 | 14.52 | 209.551 | 2,462.39 | -274.64 | -155.71 | 1,921,114.37 | 1,265,591.50 | 36.27303911 | -107.52159889 |
| 2,600.00 | 14.52 | 209.551 | 2,559.20 | -296.45 | -168.07 | 1,921,092.56 | 1,265,579.13 | 36.27297877 | -107.52163985 |
| 2,700.00 | 14.52 | 209.551 | 2,656.00 | -318.25 | -180.43 | 1,921,070.75 | 1,265,566.77 | 36.27291843 | -107.52168082 |
| 2,800.00 | 14.52 | 209.551 | 2,752.81 | -340.06 | -192.80 | 1,921,048.94 | 1,265,554.40 | 36.27285809 | -107.52172178 |
| 2,900.00 | 14.52 | 209.551 | 2,849.62 | -361.87 | -205.16 | 1,921,027.13 | 1,265,542.04 | 36.27279775 | -107.52176275 |
| 3,000.00 | 14.52 | 209.551 | 2,946.42 | -383.68 | -217.53 | 1,921,005.32 | 1,265,529.68 | 36.27273741 | -107.52180371 |
| 3,100.00 | 14.52 | 209.551 | 3,043.23 | -405.49 | -229.89 | 1,920,983.52 | 1,265,517.31 | 36.27267706 | -107.52184468 |
| 3,200.00 | 14.52 | 209.551 | 3,140.04 | -427.30 | -242.25 | 1,920,961.71 | 1,265,504.95 | 36.27261672 | -107.52188564 |
| 3,300.00 | 14.52 | 209.551 | 3,236.84 | -449.10 | -254.62 | 1,920,939.90 | 1,265,492.58 | 36.27255638 | -107.52192660 |
| 3,400.00 | 14.52 | 209.551 | 3,333.65 | -470.91 | -266.98 | 1,920,918.09 | 1,265,480.22 | 36.27249604 | -107.52196757 |
| 3,500.00 | 14.52 | 209.551 | 3,430.46 | -492.72 | -279.35 | 1,920,896.28 | 1,265,467.86 | 36.27243570 | -107.52200853 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 3,553.95 | 14.52 | 209.551 | 3,482.68 | -504.49 | -286.02 | 1,920,884.52 | 1,265,461.19 | 36.27240315 | -107.52203063 |
| **Cliff House_Basal** | | | | | | | | | |
| 3,579.76 | 14.52 | 209.551 | 3,507.67 | -510.11 | -289.21 | 1,920,878.89 | 1,265,457.99 | 36.27238757 | -107.52204120 |
| **Menefee** | | | | | | | | | |
| 3,600.00 | 14.52 | 209.551 | 3,527.26 | -514.53 | -291.71 | 1,920,874.47 | 1,265,455.49 | 36.27237536 | -107.52204950 |
| 3,700.00 | 14.52 | 209.551 | 3,624.07 | -536.34 | -304.07 | 1,920,852.67 | 1,265,443.13 | 36.27231502 | -107.52209046 |
| 3,800.00 | 14.52 | 209.551 | 3,720.88 | -558.15 | -316.44 | 1,920,830.86 | 1,265,430.76 | 36.27225468 | -107.52213142 |
| 3,900.00 | 14.52 | 209.551 | 3,817.68 | -579.95 | -328.80 | 1,920,809.05 | 1,265,418.40 | 36.27219434 | -107.52217239 |
| 4,000.00 | 14.52 | 209.551 | 3,914.49 | -601.76 | -341.17 | 1,920,787.24 | 1,265,406.03 | 36.27213399 | -107.52221335 |
| 4,100.00 | 14.52 | 209.551 | 4,011.30 | -623.57 | -353.53 | 1,920,765.43 | 1,265,393.67 | 36.27207365 | -107.52225432 |
| 4,200.00 | 14.52 | 209.551 | 4,108.10 | -645.38 | -365.90 | 1,920,743.62 | 1,265,381.31 | 36.27201331 | -107.52229528 |
| 4,281.77 | 14.52 | 209.551 | 4,187.27 | -663.21 | -376.01 | 1,920,725.79 | 1,265,371.20 | 36.27196397 | -107.52232878 |
| **Point Lookout** | | | | | | | | | |
| 4,300.00 | 14.52 | 209.551 | 4,204.91 | -667.19 | -378.26 | 1,920,721.82 | 1,265,368.94 | 36.27195297 | -107.52233624 |
| 4,335.43 | 14.52 | 209.551 | 4,239.21 | -674.91 | -382.64 | 1,920,714.09 | 1,265,364.56 | 36.27193159 | -107.52235076 |
| **Begin 3°/100' drop** | | | | | | | | | |
| 4,400.00 | 12.58 | 209.551 | 4,301.98 | -688.07 | -390.10 | 1,920,700.93 | 1,265,357.10 | 36.27189518 | -107.52237548 |
| 4,500.00 | 9.58 | 209.551 | 4,400.10 | -704.79 | -399.58 | 1,920,684.21 | 1,265,347.62 | 36.27184892 | -107.52240688 |
| 4,592.98 | 6.79 | 209.551 | 4,492.13 | -716.31 | -406.11 | 1,920,672.69 | 1,265,341.09 | 36.27181706 | -107.52242851 |
| **Mancos** | | | | | | | | | |
| 4,600.00 | 6.58 | 209.551 | 4,499.10 | -717.02 | -406.51 | 1,920,671.98 | 1,265,340.69 | 36.27181509 | -107.52242985 |
| 4,700.00 | 3.58 | 209.551 | 4,598.69 | -724.73 | -410.88 | 1,920,664.28 | 1,265,336.32 | 36.27179377 | -107.52244432 |
| 4,800.00 | 0.58 | 209.551 | 4,698.62 | -727.88 | -412.67 | 1,920,661.12 | 1,265,334.53 | 36.27178503 | -107.52245025 |
| 4,819.38 | 0.00 | 0.000 | 4,718.00 | -727.97 | -412.72 | 1,920,661.03 | 1,265,334.48 | 36.27178479 | -107.52245041 |
| **Begin vertical hold section** | | | | | | | | | |
| 4,900.00 | 0.00 | 0.000 | 4,798.62 | -727.97 | -412.72 | 1,920,661.03 | 1,265,334.48 | 36.27178479 | -107.52245041 |
| 4,943.48 | 0.00 | 0.000 | 4,842.10 | -727.97 | -412.72 | 1,920,661.03 | 1,265,334.48 | 36.27178479 | -107.52245041 |
| **MNCS_A** | | | | | | | | | |
| 5,000.00 | 0.00 | 0.000 | 4,898.62 | -727.97 | -412.72 | 1,920,661.03 | 1,265,334.48 | 36.27178479 | -107.52245041 |
| 5,019.38 | 0.00 | 0.000 | 4,918.00 | -727.97 | -412.72 | 1,920,661.03 | 1,265,334.48 | 36.27178479 | -107.52245041 |
| **Begin 10°/100' build** | | | | | | | | | |
| 5,028.48 | 0.91 | 319.430 | 4,927.10 | -727.92 | -412.77 | 1,920,661.09 | 1,265,334.44 | 36.27178494 | -107.52245057 |
| **MNCS_B** | | | | | | | | | |
| 5,050.00 | 3.06 | 319.430 | 4,948.60 | -727.35 | -413.25 | 1,920,661.66 | 1,265,333.95 | 36.27178648 | -107.52245224 |
| 5,100.00 | 8.06 | 319.430 | 4,998.35 | -723.67 | -416.40 | 1,920,665.34 | 1,265,330.80 | 36.27179647 | -107.52246309 |
| 5,150.00 | 13.06 | 319.430 | 5,047.49 | -716.71 | -422.36 | 1,920,672.29 | 1,265,324.84 | 36.27181537 | -107.52248361 |
| 5,175.60 | 15.62 | 319.430 | 5,072.29 | -711.89 | -426.48 | 1,920,677.11 | 1,265,320.72 | 36.27182845 | -107.52249781 |
| **MNCS_C** | | | | | | | | | |
| 5,200.00 | 18.06 | 319.430 | 5,095.64 | -706.52 | -431.08 | 1,920,682.48 | 1,265,316.12 | 36.27184303 | -107.52251365 |
| 5,250.00 | 23.06 | 319.430 | 5,142.44 | -693.19 | -442.50 | 1,920,695.82 | 1,265,304.70 | 36.27187924 | -107.52255297 |
| 5,266.54 | 24.72 | 319.430 | 5,157.56 | -688.10 | -446.86 | 1,920,700.90 | 1,265,300.35 | 36.27189306 | -107.52256797 |
| **MNCS_Cms** | | | | | | | | | |
| 5,300.00 | 28.06 | 319.430 | 5,187.53 | -676.81 | -456.53 | 1,920,712.20 | 1,265,290.68 | 36.27192373 | -107.52260127 |
| 5,300.19 | 28.06 | 319.430 | 5,187.70 | -676.74 | -456.58 | 1,920,712.27 | 1,265,290.62 | 36.27192391 | -107.52260147 |
| **MNCS_D** | | | | | | | | | |
| 5,350.00 | 33.06 | 319.430 | 5,230.57 | -657.50 | -473.06 | 1,920,731.50 | 1,265,274.15 | 36.27197616 | -107.52265820 |
| 5,400.00 | 38.06 | 319.430 | 5,271.23 | -635.42 | -491.96 | 1,920,753.59 | 1,265,255.24 | 36.27203612 | -107.52272331 |
| 5,408.94 | 38.96 | 319.430 | 5,278.23 | -631.19 | -495.58 | 1,920,757.81 | 1,265,251.62 | 36.27204760 | -107.52273577 |
| **MNCS_E** | | | | | | | | | |
| 5,450.00 | 43.06 | 319.430 | 5,309.21 | -610.73 | -513.10 | 1,920,778.28 | 1,265,234.10 | 36.27210317 | -107.52279610 |
| 5,462.92 | 44.35 | 319.430 | 5,318.55 | -603.95 | -518.91 | 1,920,785.06 | 1,265,228.30 | 36.27212158 | -107.52281610 |
| **MNCS_F** | | | | | | | | | |
| 5,500.00 | 48.06 | 319.430 | 5,344.20 | -583.62 | -536.31 | 1,920,805.39 | 1,265,210.89 | 36.27217678 | -107.52287604 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
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| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 5,550.00 | 53.06 | 319.430 | 5,375.96 | -554.30 | -561.42 | 1,920,834.71 | 1,265,185.78 | 36.27225641 | -107.52296250 |
| 5,591.04 | 57.17 | 319.430 | 5,399.42 | -528.73 | -583.31 | 1,920,860.28 | 1,265,163.89 | 36.27232584 | -107.52303788 |
| **MNCS_G** | | | | | | | | | |
| 5,600.00 | 58.06 | 319.430 | 5,404.22 | -522.98 | -588.23 | 1,920,866.02 | 1,265,158.97 | 36.27234144 | -107.52305483 |
| 5,650.00 | 63.06 | 319.430 | 5,428.79 | -489.92 | -616.54 | 1,920,899.09 | 1,265,130.66 | 36.27243124 | -107.52315233 |
| 5,688.81 | 66.94 | 319.430 | 5,445.19 | -463.20 | -639.42 | 1,920,925.81 | 1,265,107.79 | 36.27250379 | -107.52323111 |
| **MNCS_H @ 0vs** | | | | | | | | | |
| 5,700.00 | 68.06 | 319.430 | 5,449.47 | -455.35 | -646.14 | 1,920,933.66 | 1,265,101.07 | 36.27252510 | -107.52325425 |
| 5,719.38 | 70.00 | 319.430 | 5,456.40 | -441.60 | -657.91 | 1,920,947.40 | 1,265,089.29 | 36.27256244 | -107.52329479 |
| 5,750.00 | 72.96 | 318.606 | 5,466.13 | -419.69 | -676.95 | 1,920,969.32 | 1,265,070.26 | 36.27262193 | -107.52336034 |
| 5,800.00 | 77.80 | 317.314 | 5,478.74 | -383.77 | -709.34 | 1,921,005.23 | 1,265,037.86 | 36.27271940 | -107.52347181 |
| 5,850.00 | 82.65 | 316.068 | 5,487.23 | -347.93 | -743.13 | 1,921,041.07 | 1,265,004.07 | 36.27281661 | -107.52358802 |
| 5,874.24 | 85.00 | 315.475 | 5,489.84 | -330.66 | -759.94 | 1,921,058.34 | 1,264,987.26 | 36.27286343 | -107.52364580 |
| **85° inc @ 5874.24 MD 5489.84 TVD - 7" Intermediate Casing** | | | | | | | | | |
| 5,900.00 | 87.50 | 314.848 | 5,491.52 | -312.44 | -778.06 | 1,921,076.57 | 1,264,969.14 | 36.27291283 | -107.52370808 |
| 5,920.51 | 89.49 | 314.350 | 5,492.06 | -298.04 | -792.66 | 1,921,090.96 | 1,264,954.54 | 36.27295184 | -107.52375824 |
| **Begin 89.49° lateral** | | | | | | | | | |
| 6,000.00 | 89.49 | 314.350 | 5,492.77 | -242.48 | -849.50 | 1,921,146.53 | 1,264,897.70 | 36.27310239 | -107.52395350 |
| 6,100.00 | 89.49 | 314.350 | 5,493.66 | -172.58 | -921.01 | 1,921,216.43 | 1,264,826.20 | 36.27329178 | -107.52419915 |
| 6,200.00 | 89.49 | 314.350 | 5,494.56 | -102.68 | -992.51 | 1,921,286.33 | 1,264,754.69 | 36.27348118 | -107.52444480 |
| 6,300.00 | 89.49 | 314.350 | 5,495.45 | -32.77 | -1,064.02 | 1,921,356.23 | 1,264,683.19 | 36.27367057 | -107.52469045 |
| 6,400.00 | 89.49 | 314.350 | 5,496.34 | 37.13 | -1,135.52 | 1,921,426.13 | 1,264,611.68 | 36.27385996 | -107.52493610 |
| 6,500.00 | 89.49 | 314.350 | 5,497.23 | 107.03 | -1,207.03 | 1,921,496.03 | 1,264,540.18 | 36.27404936 | -107.52518175 |
| 6,600.00 | 89.49 | 314.350 | 5,498.13 | 176.93 | -1,278.53 | 1,921,565.93 | 1,264,468.67 | 36.27423875 | -107.52542741 |
| 6,700.00 | 89.49 | 314.350 | 5,499.02 | 246.83 | -1,350.04 | 1,921,635.83 | 1,264,397.17 | 36.27442814 | -107.52567306 |
| 6,800.00 | 89.49 | 314.350 | 5,499.91 | 316.73 | -1,421.54 | 1,921,705.73 | 1,264,325.66 | 36.27461753 | -107.52591872 |
| 6,900.00 | 89.49 | 314.350 | 5,500.80 | 386.63 | -1,493.05 | 1,921,775.64 | 1,264,254.16 | 36.27480692 | -107.52616438 |
| 7,000.00 | 89.49 | 314.350 | 5,501.70 | 456.53 | -1,564.55 | 1,921,845.54 | 1,264,182.65 | 36.27499631 | -107.52641004 |
| 7,100.00 | 89.49 | 314.350 | 5,502.59 | 526.44 | -1,636.06 | 1,921,915.44 | 1,264,111.15 | 36.27518570 | -107.52665570 |
| 7,200.00 | 89.49 | 314.350 | 5,503.48 | 596.34 | -1,707.56 | 1,921,985.34 | 1,264,039.64 | 36.27537509 | -107.52690136 |
| 7,300.00 | 89.49 | 314.350 | 5,504.37 | 666.24 | -1,779.07 | 1,922,055.24 | 1,263,968.14 | 36.27556448 | -107.52714702 |
| 7,400.00 | 89.49 | 314.350 | 5,505.27 | 736.14 | -1,850.57 | 1,922,125.14 | 1,263,896.63 | 36.27575387 | -107.52739268 |
| 7,500.00 | 89.49 | 314.350 | 5,506.16 | 806.04 | -1,922.08 | 1,922,195.04 | 1,263,825.13 | 36.27594326 | -107.52763835 |
| 7,600.00 | 89.49 | 314.350 | 5,507.05 | 875.94 | -1,993.58 | 1,922,264.94 | 1,263,753.62 | 36.27613264 | -107.52788401 |
| 7,700.00 | 89.49 | 314.350 | 5,507.94 | 945.84 | -2,065.09 | 1,922,334.85 | 1,263,682.12 | 36.27632203 | -107.52812968 |
| 7,800.00 | 89.49 | 314.350 | 5,508.84 | 1,015.75 | -2,136.60 | 1,922,404.75 | 1,263,610.61 | 36.27651142 | -107.52837535 |
| 7,900.00 | 89.49 | 314.350 | 5,509.73 | 1,085.65 | -2,208.10 | 1,922,474.65 | 1,263,539.11 | 36.27670080 | -107.52862102 |
| 8,000.00 | 89.49 | 314.350 | 5,510.62 | 1,155.55 | -2,279.61 | 1,922,544.55 | 1,263,467.60 | 36.27689019 | -107.52886669 |
| 8,100.00 | 89.49 | 314.350 | 5,511.51 | 1,225.45 | -2,351.11 | 1,922,614.45 | 1,263,396.09 | 36.27707957 | -107.52911236 |
| 8,200.00 | 89.49 | 314.350 | 5,512.41 | 1,295.35 | -2,422.62 | 1,922,684.35 | 1,263,324.59 | 36.27726895 | -107.52935804 |
| 8,300.00 | 89.49 | 314.350 | 5,513.30 | 1,365.25 | -2,494.12 | 1,922,754.25 | 1,263,253.08 | 36.27745834 | -107.52960371 |
| 8,400.00 | 89.49 | 314.350 | 5,514.19 | 1,435.15 | -2,565.63 | 1,922,824.15 | 1,263,181.58 | 36.27764772 | -107.52984939 |
| 8,500.00 | 89.49 | 314.350 | 5,515.08 | 1,505.05 | -2,637.13 | 1,922,894.05 | 1,263,110.07 | 36.27783710 | -107.53009506 |
| 8,600.00 | 89.49 | 314.350 | 5,515.97 | 1,574.96 | -2,708.64 | 1,922,963.96 | 1,263,038.57 | 36.27802648 | -107.53034074 |
| 8,700.00 | 89.49 | 314.350 | 5,516.87 | 1,644.86 | -2,780.14 | 1,923,033.86 | 1,262,967.06 | 36.27821586 | -107.53058642 |
| 8,800.00 | 89.49 | 314.350 | 5,517.76 | 1,714.76 | -2,851.65 | 1,923,103.76 | 1,262,895.56 | 36.27840524 | -107.53083210 |
| 8,900.00 | 89.49 | 314.350 | 5,518.65 | 1,784.66 | -2,923.15 | 1,923,173.66 | 1,262,824.05 | 36.27859462 | -107.53107778 |
| 9,000.00 | 89.49 | 314.350 | 5,519.54 | 1,854.56 | -2,994.66 | 1,923,243.56 | 1,262,752.55 | 36.27878400 | -107.53132346 |
| 9,100.00 | 89.49 | 314.350 | 5,520.44 | 1,924.46 | -3,066.16 | 1,923,313.46 | 1,262,681.04 | 36.27897338 | -107.53156915 |
| 9,200.00 | 89.49 | 314.350 | 5,521.33 | 1,994.36 | -3,137.67 | 1,923,383.36 | 1,262,609.54 | 36.27916276 | -107.53181483 |
| 9,300.00 | 89.49 | 314.350 | 5,522.22 | 2,064.27 | -3,209.18 | 1,923,453.26 | 1,262,538.03 | 36.27935214 | -107.53206052 |
| 9,400.00 | 89.49 | 314.350 | 5,523.11 | 2,134.17 | -3,280.68 | 1,923,523.17 | 1,262,466.53 | 36.27954152 | -107.53230620 |
| 9,500.00 | 89.49 | 314.350 | 5,524.01 | 2,204.07 | -3,352.19 | 1,923,593.07 | 1,262,395.02 | 36.27973089 | -107.53255189 |
| 9,600.00 | 89.49 | 314.350 | 5,524.90 | 2,273.97 | -3,423.69 | 1,923,662.97 | 1,262,323.52 | 36.27992027 | -107.53279758 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 9,700.00 | 89.49 | 314.350 | 5,525.79 | 2,343.87 | -3,495.20 | 1,923,732.87 | 1,262,252.01 | 36.28010964 | -107.53304327 |
| 9,800.00 | 89.49 | 314.350 | 5,526.68 | 2,413.77 | -3,566.70 | 1,923,802.77 | 1,262,180.51 | 36.28029902 | -107.53328897 |
| 9,900.00 | 89.49 | 314.350 | 5,527.58 | 2,483.67 | -3,638.21 | 1,923,872.67 | 1,262,109.00 | 36.28048839 | -107.53353466 |
| 10,000.00 | 89.49 | 314.350 | 5,528.47 | 2,553.57 | -3,709.71 | 1,923,942.57 | 1,262,037.50 | 36.28067777 | -107.53378035 |
| 10,100.00 | 89.49 | 314.350 | 5,529.36 | 2,623.48 | -3,781.22 | 1,924,012.47 | 1,261,965.99 | 36.28086714 | -107.53402605 |
| 10,200.00 | 89.49 | 314.350 | 5,530.25 | 2,693.38 | -3,852.72 | 1,924,082.37 | 1,261,894.49 | 36.28105651 | -107.53427175 |
| 10,300.00 | 89.49 | 314.350 | 5,531.15 | 2,763.28 | -3,924.23 | 1,924,152.28 | 1,261,822.98 | 36.28124589 | -107.53451744 |
| 10,400.00 | 89.49 | 314.350 | 5,532.04 | 2,833.18 | -3,995.73 | 1,924,222.18 | 1,261,751.48 | 36.28143526 | -107.53476314 |
| 10,500.00 | 89.49 | 314.350 | 5,532.93 | 2,903.08 | -4,067.24 | 1,924,292.08 | 1,261,679.97 | 36.28162463 | -107.53500884 |
| 10,600.00 | 89.49 | 314.350 | 5,533.82 | 2,972.98 | -4,138.74 | 1,924,361.98 | 1,261,608.47 | 36.28181400 | -107.53525454 |
| 10,700.00 | 89.49 | 314.350 | 5,534.72 | 3,042.88 | -4,210.25 | 1,924,431.88 | 1,261,536.96 | 36.28200337 | -107.53550025 |
| 10,800.00 | 89.49 | 314.350 | 5,535.61 | 3,112.79 | -4,281.75 | 1,924,501.78 | 1,261,465.46 | 36.28219274 | -107.53574595 |
| 10,900.00 | 89.49 | 314.350 | 5,536.50 | 3,182.69 | -4,353.26 | 1,924,571.68 | 1,261,393.95 | 36.28238211 | -107.53599166 |
| 11,000.00 | 89.49 | 314.350 | 5,537.39 | 3,252.59 | -4,424.77 | 1,924,641.58 | 1,261,322.45 | 36.28257148 | -107.53623736 |
| 11,100.00 | 89.49 | 314.350 | 5,538.29 | 3,322.49 | -4,496.27 | 1,924,711.49 | 1,261,250.94 | 36.28276085 | -107.53648307 |
| 11,200.00 | 89.49 | 314.350 | 5,539.18 | 3,392.39 | -4,567.78 | 1,924,781.39 | 1,261,179.43 | 36.28295022 | -107.53672878 |
| 11,300.00 | 89.49 | 314.350 | 5,540.07 | 3,462.29 | -4,639.28 | 1,924,851.29 | 1,261,107.93 | 36.28313958 | -107.53697449 |
| 11,400.00 | 89.49 | 314.350 | 5,540.96 | 3,532.19 | -4,710.79 | 1,924,921.19 | 1,261,036.42 | 36.28332895 | -107.53722020 |
| 11,500.00 | 89.49 | 314.350 | 5,541.85 | 3,602.09 | -4,782.29 | 1,924,991.09 | 1,260,964.92 | 36.28351831 | -107.53746591 |
| 11,600.00 | 89.49 | 314.350 | 5,542.75 | 3,672.00 | -4,853.80 | 1,925,060.99 | 1,260,893.41 | 36.28370768 | -107.53771163 |
| 11,700.00 | 89.49 | 314.350 | 5,543.64 | 3,741.90 | -4,925.30 | 1,925,130.89 | 1,260,821.91 | 36.28389705 | -107.53795734 |
| 11,800.00 | 89.49 | 314.350 | 5,544.53 | 3,811.80 | -4,996.81 | 1,925,200.79 | 1,260,750.40 | 36.28408641 | -107.53820306 |
| 11,900.00 | 89.49 | 314.350 | 5,545.42 | 3,881.70 | -5,068.31 | 1,925,270.69 | 1,260,678.90 | 36.28427577 | -107.53844877 |
| 12,000.00 | 89.49 | 314.350 | 5,546.32 | 3,951.60 | -5,139.82 | 1,925,340.60 | 1,260,607.39 | 36.28446514 | -107.53869449 |
| 12,100.00 | 89.49 | 314.350 | 5,547.21 | 4,021.50 | -5,211.32 | 1,925,410.50 | 1,260,535.89 | 36.28465450 | -107.53894021 |
| 12,200.00 | 89.49 | 314.350 | 5,548.10 | 4,091.40 | -5,282.83 | 1,925,480.40 | 1,260,464.38 | 36.28484386 | -107.53918593 |
| 12,300.00 | 89.49 | 314.350 | 5,548.99 | 4,161.30 | -5,354.33 | 1,925,550.30 | 1,260,392.88 | 36.28503322 | -107.53943165 |
| 12,400.00 | 89.49 | 314.350 | 5,549.89 | 4,231.21 | -5,425.84 | 1,925,620.20 | 1,260,321.37 | 36.28522259 | -107.53967738 |
| 12,500.00 | 89.49 | 314.350 | 5,550.78 | 4,301.11 | -5,497.34 | 1,925,690.10 | 1,260,249.87 | 36.28541195 | -107.53992310 |
| 12,600.00 | 89.49 | 314.350 | 5,551.67 | 4,371.01 | -5,568.85 | 1,925,760.00 | 1,260,178.36 | 36.28560131 | -107.54016882 |
| 12,700.00 | 89.49 | 314.350 | 5,552.56 | 4,440.91 | -5,640.36 | 1,925,829.90 | 1,260,106.86 | 36.28579067 | -107.54041455 |
| 12,800.00 | 89.49 | 314.350 | 5,553.46 | 4,510.81 | -5,711.86 | 1,925,899.81 | 1,260,035.35 | 36.28598002 | -107.54066028 |
| 12,900.00 | 89.49 | 314.350 | 5,554.35 | 4,580.71 | -5,783.37 | 1,925,969.71 | 1,259,963.85 | 36.28616938 | -107.54090601 |
| 13,000.00 | 89.49 | 314.350 | 5,555.24 | 4,650.61 | -5,854.87 | 1,926,039.61 | 1,259,892.34 | 36.28635874 | -107.54115174 |
| 13,100.00 | 89.49 | 314.350 | 5,556.13 | 4,720.52 | -5,926.38 | 1,926,109.51 | 1,259,820.84 | 36.28654810 | -107.54139747 |
| 13,200.00 | 89.49 | 314.350 | 5,557.03 | 4,790.42 | -5,997.88 | 1,926,179.41 | 1,259,749.33 | 36.28673746 | -107.54164320 |
| 13,300.00 | 89.49 | 314.350 | 5,557.92 | 4,860.32 | -6,069.39 | 1,926,249.31 | 1,259,677.83 | 36.28692681 | -107.54188893 |
| 13,400.00 | 89.49 | 314.350 | 5,558.81 | 4,930.22 | -6,140.89 | 1,926,319.21 | 1,259,606.32 | 36.28711617 | -107.54213467 |
| 13,500.00 | 89.49 | 314.350 | 5,559.70 | 5,000.12 | -6,212.40 | 1,926,389.11 | 1,259,534.82 | 36.28730552 | -107.54238041 |
| 13,600.00 | 89.49 | 314.350 | 5,560.60 | 5,070.02 | -6,283.90 | 1,926,459.02 | 1,259,463.31 | 36.28749488 | -107.54262614 |
| 13,700.00 | 89.49 | 314.350 | 5,561.49 | 5,139.92 | -6,355.41 | 1,926,528.92 | 1,259,391.81 | 36.28768423 | -107.54287188 |
| 13,800.00 | 89.49 | 314.350 | 5,562.38 | 5,209.82 | -6,426.91 | 1,926,598.82 | 1,259,320.30 | 36.28787359 | -107.54311762 |
| 13,900.00 | 89.49 | 314.350 | 5,563.27 | 5,279.73 | -6,498.42 | 1,926,668.72 | 1,259,248.80 | 36.28806294 | -107.54336336 |
| 14,000.00 | 89.49 | 314.350 | 5,564.17 | 5,349.63 | -6,569.92 | 1,926,738.62 | 1,259,177.29 | 36.28825229 | -107.54360910 |
| 14,100.00 | 89.49 | 314.350 | 5,565.06 | 5,419.53 | -6,641.43 | 1,926,808.52 | 1,259,105.78 | 36.28844164 | -107.54385485 |
| 14,200.00 | 89.49 | 314.350 | 5,565.95 | 5,489.43 | -6,712.94 | 1,926,878.42 | 1,259,034.28 | 36.28863100 | -107.54410059 |
| 14,300.00 | 89.49 | 314.350 | 5,566.84 | 5,559.33 | -6,784.44 | 1,926,948.32 | 1,258,962.77 | 36.28882035 | -107.54434634 |
| 14,400.00 | 89.49 | 314.350 | 5,567.73 | 5,629.23 | -6,855.95 | 1,927,018.22 | 1,258,891.27 | 36.28900970 | -107.54459208 |
| 14,500.00 | 89.49 | 314.350 | 5,568.63 | 5,699.13 | -6,927.45 | 1,927,088.13 | 1,258,819.76 | 36.28919905 | -107.54483783 |
| 14,600.00 | 89.49 | 314.350 | 5,569.52 | 5,769.04 | -6,998.96 | 1,927,158.03 | 1,258,748.26 | 36.28938840 | -107.54508358 |
| 14,700.00 | 89.49 | 314.350 | 5,570.41 | 5,838.94 | -7,070.46 | 1,927,227.93 | 1,258,676.75 | 36.28957775 | -107.54532933 |
| 14,800.00 | 89.49 | 314.350 | 5,571.30 | 5,908.84 | -7,141.97 | 1,927,297.83 | 1,258,605.25 | 36.28976709 | -107.54557508 |
| 14,900.00 | 89.49 | 314.350 | 5,572.20 | 5,978.74 | -7,213.47 | 1,927,367.73 | 1,258,533.74 | 36.28995644 | -107.54582083 |
| 15,000.00 | 89.49 | 314.350 | 5,573.09 | 6,048.64 | -7,284.98 | 1,927,437.63 | 1,258,462.24 | 36.29014579 | -107.54606659 |
| 15,100.00 | 89.49 | 314.350 | 5,573.98 | 6,118.54 | -7,356.48 | 1,927,507.53 | 1,258,390.73 | 36.29033514 | -107.54631234 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 15,200.00 | 89.49 | 314.350 | 5,574.87 | 6,188.44 | -7,427.99 | 1,927,577.43 | 1,258,319.23 | 36.29052448 | -107.54655810 |
| 15,300.00 | 89.49 | 314.350 | 5,575.77 | 6,258.34 | -7,499.49 | 1,927,647.34 | 1,258,247.72 | 36.29071383 | -107.54680386 |
| 15,400.00 | 89.49 | 314.350 | 5,576.66 | 6,328.25 | -7,571.00 | 1,927,717.24 | 1,258,176.22 | 36.29090317 | -107.54704961 |
| 15,500.00 | 89.49 | 314.350 | 5,577.55 | 6,398.15 | -7,642.50 | 1,927,787.14 | 1,258,104.71 | 36.29109252 | -107.54729537 |
| 15,600.00 | 89.49 | 314.350 | 5,578.44 | 6,468.05 | -7,714.01 | 1,927,857.04 | 1,258,033.21 | 36.29128186 | -107.54754113 |
| 15,700.00 | 89.49 | 314.350 | 5,579.34 | 6,537.95 | -7,785.51 | 1,927,926.94 | 1,257,961.70 | 36.29147121 | -107.54778690 |
| 15,800.00 | 89.49 | 314.350 | 5,580.23 | 6,607.85 | -7,857.02 | 1,927,996.84 | 1,257,890.20 | 36.29166055 | -107.54803266 |
| 15,900.00 | 89.49 | 314.350 | 5,581.12 | 6,677.75 | -7,928.53 | 1,928,066.74 | 1,257,818.69 | 36.29184989 | -107.54827842 |
| 16,000.00 | 89.49 | 314.350 | 5,582.01 | 6,747.65 | -8,000.03 | 1,928,136.64 | 1,257,747.19 | 36.29203923 | -107.54852419 |
| 16,100.00 | 89.49 | 314.350 | 5,582.91 | 6,817.56 | -8,071.54 | 1,928,206.54 | 1,257,675.68 | 36.29222857 | -107.54876996 |
| 16,200.00 | 89.49 | 314.350 | 5,583.80 | 6,887.46 | -8,143.04 | 1,928,276.45 | 1,257,604.18 | 36.29241792 | -107.54901572 |
| 16,300.00 | 89.49 | 314.350 | 5,584.69 | 6,957.36 | -8,214.55 | 1,928,346.35 | 1,257,532.67 | 36.29260726 | -107.54926149 |
| 16,400.00 | 89.49 | 314.350 | 5,585.58 | 7,027.26 | -8,286.05 | 1,928,416.25 | 1,257,461.17 | 36.29279660 | -107.54950726 |
| 16,500.00 | 89.49 | 314.350 | 5,586.48 | 7,097.16 | -8,357.56 | 1,928,486.15 | 1,257,389.66 | 36.29298594 | -107.54975304 |
| 16,600.00 | 89.49 | 314.350 | 5,587.37 | 7,167.06 | -8,429.06 | 1,928,556.05 | 1,257,318.16 | 36.29317527 | -107.54999881 |
| 16,700.00 | 89.49 | 314.350 | 5,588.26 | 7,236.96 | -8,500.57 | 1,928,625.95 | 1,257,246.65 | 36.29336461 | -107.55024458 |
| 16,800.00 | 89.49 | 314.350 | 5,589.15 | 7,306.86 | -8,572.07 | 1,928,695.85 | 1,257,175.15 | 36.29355395 | -107.55049036 |
| 16,900.00 | 89.49 | 314.350 | 5,590.05 | 7,376.77 | -8,643.58 | 1,928,765.75 | 1,257,103.64 | 36.29374329 | -107.55073613 |
| 17,000.00 | 89.49 | 314.350 | 5,590.94 | 7,446.67 | -8,715.08 | 1,928,835.66 | 1,257,032.14 | 36.29393262 | -107.55098191 |
| 17,100.00 | 89.49 | 314.350 | 5,591.83 | 7,516.57 | -8,786.59 | 1,928,905.56 | 1,256,960.63 | 36.29412196 | -107.55122769 |
| 17,200.00 | 89.49 | 314.350 | 5,592.72 | 7,586.47 | -8,858.09 | 1,928,975.46 | 1,256,889.12 | 36.29431130 | -107.55147347 |
| 17,300.00 | 89.49 | 314.350 | 5,593.61 | 7,656.37 | -8,929.60 | 1,929,045.36 | 1,256,817.62 | 36.29450063 | -107.55171925 |
| 17,400.00 | 89.49 | 314.350 | 5,594.51 | 7,726.27 | -9,001.11 | 1,929,115.26 | 1,256,746.11 | 36.29468996 | -107.55196503 |
| 17,500.00 | 89.49 | 314.350 | 5,595.40 | 7,796.17 | -9,072.61 | 1,929,185.16 | 1,256,674.61 | 36.29487930 | -107.55221082 |
| 17,600.00 | 89.49 | 314.350 | 5,596.29 | 7,866.08 | -9,144.12 | 1,929,255.06 | 1,256,603.10 | 36.29506863 | -107.55245660 |
| 17,700.00 | 89.49 | 314.350 | 5,597.18 | 7,935.98 | -9,215.62 | 1,929,324.96 | 1,256,531.60 | 36.29525797 | -107.55270239 |
| 17,800.00 | 89.49 | 314.350 | 5,598.08 | 8,005.88 | -9,287.13 | 1,929,394.86 | 1,256,460.09 | 36.29544730 | -107.55294817 |
| 17,900.00 | 89.49 | 314.350 | 5,598.97 | 8,075.78 | -9,358.63 | 1,929,464.77 | 1,256,388.59 | 36.29563663 | -107.55319396 |
| 18,000.00 | 89.49 | 314.350 | 5,599.86 | 8,145.68 | -9,430.14 | 1,929,534.67 | 1,256,317.08 | 36.29582596 | -107.55343975 |
| 18,100.00 | 89.49 | 314.350 | 5,600.75 | 8,215.58 | -9,501.64 | 1,929,604.57 | 1,256,245.58 | 36.29601529 | -107.55368554 |
| 18,200.00 | 89.49 | 314.350 | 5,601.65 | 8,285.48 | -9,573.15 | 1,929,674.47 | 1,256,174.07 | 36.29620462 | -107.55393133 |
| 18,300.00 | 89.49 | 314.350 | 5,602.54 | 8,355.38 | -9,644.65 | 1,929,744.37 | 1,256,102.57 | 36.29639395 | -107.55417713 |
| 18,400.00 | 89.49 | 314.350 | 5,603.43 | 8,425.29 | -9,716.16 | 1,929,814.27 | 1,256,031.06 | 36.29658328 | -107.55442292 |
| 18,500.00 | 89.49 | 314.350 | 5,604.32 | 8,495.19 | -9,787.66 | 1,929,884.17 | 1,255,959.56 | 36.29677261 | -107.55466872 |
| 18,600.00 | 89.49 | 314.350 | 5,605.22 | 8,565.09 | -9,859.17 | 1,929,954.07 | 1,255,888.05 | 36.29696194 | -107.55491451 |
| 18,700.00 | 89.49 | 314.350 | 5,606.11 | 8,634.99 | -9,930.67 | 1,930,023.98 | 1,255,816.55 | 36.29715126 | -107.55516031 |
| 18,800.00 | 89.49 | 314.350 | 5,607.00 | 8,704.89 | -10,002.18 | 1,930,093.88 | 1,255,745.04 | 36.29734059 | -107.55540611 |
| 18,900.00 | 89.49 | 314.350 | 5,607.89 | 8,774.79 | -10,073.68 | 1,930,163.78 | 1,255,673.54 | 36.29752992 | -107.55565191 |
| 19,000.00 | 89.49 | 314.350 | 5,608.79 | 8,844.69 | -10,145.19 | 1,930,233.68 | 1,255,602.03 | 36.29771924 | -107.55589771 |
| 19,100.00 | 89.49 | 314.350 | 5,609.68 | 8,914.59 | -10,216.70 | 1,930,303.58 | 1,255,530.53 | 36.29790857 | -107.55614351 |
| 19,200.00 | 89.49 | 314.350 | 5,610.57 | 8,984.50 | -10,288.20 | 1,930,373.48 | 1,255,459.02 | 36.29809789 | -107.55638932 |
| 19,300.00 | 89.49 | 314.350 | 5,611.46 | 9,054.40 | -10,359.71 | 1,930,443.38 | 1,255,387.52 | 36.29828722 | -107.55663512 |
| 19,400.00 | 89.49 | 314.350 | 5,612.36 | 9,124.30 | -10,431.21 | 1,930,513.28 | 1,255,316.01 | 36.29847654 | -107.55688093 |
| 19,500.00 | 89.49 | 314.350 | 5,613.25 | 9,194.20 | -10,502.72 | 1,930,583.18 | 1,255,244.51 | 36.29866587 | -107.55712673 |
| 19,600.00 | 89.49 | 314.350 | 5,614.14 | 9,264.10 | -10,574.22 | 1,930,653.09 | 1,255,173.00 | 36.29885519 | -107.55737254 |
| 19,700.00 | 89.49 | 314.350 | 5,615.03 | 9,334.00 | -10,645.73 | 1,930,722.99 | 1,255,101.50 | 36.29904451 | -107.55761835 |
| 19,800.00 | 89.49 | 314.350 | 5,615.92 | 9,403.90 | -10,717.23 | 1,930,792.89 | 1,255,029.99 | 36.29923383 | -107.55786416 |
| 19,900.00 | 89.49 | 314.350 | 5,616.82 | 9,473.81 | -10,788.74 | 1,930,862.79 | 1,254,958.49 | 36.29942315 | -107.55810997 |
| 20,000.00 | 89.49 | 314.350 | 5,617.71 | 9,543.71 | -10,860.24 | 1,930,932.69 | 1,254,886.98 | 36.29961247 | -107.55835579 |
| 20,100.00 | 89.49 | 314.350 | 5,618.60 | 9,613.61 | -10,931.75 | 1,931,002.59 | 1,254,815.47 | 36.29980179 | -107.55860160 |
| 20,200.00 | 89.49 | 314.350 | 5,619.49 | 9,683.51 | -11,003.25 | 1,931,072.49 | 1,254,743.97 | 36.29999111 | -107.55884742 |
| 20,300.00 | 89.49 | 314.350 | 5,620.39 | 9,753.41 | -11,074.76 | 1,931,142.39 | 1,254,672.46 | 36.30018043 | -107.55909323 |
| 20,400.00 | 89.49 | 314.350 | 5,621.28 | 9,823.31 | -11,146.26 | 1,931,212.30 | 1,254,600.96 | 36.30036975 | -107.55933905 |
| 20,500.00 | 89.49 | 314.350 | 5,622.17 | 9,893.21 | -11,217.77 | 1,931,282.20 | 1,254,529.45 | 36.30055907 | -107.55958487 |
| 20,600.00 | 89.49 | 314.350 | 5,623.06 | 9,963.11 | -11,289.27 | 1,931,352.10 | 1,254,457.95 | 36.30074839 | -107.55983069 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 20,700.00 | 89.49 | 314.350 | 5,623.96 | 10,033.02 | -11,360.78 | 1,931,422.00 | 1,254,386.44 | 36.30093770 | -107.56007651 |
| 20,800.00 | 89.49 | 314.350 | 5,624.85 | 10,102.92 | -11,432.29 | 1,931,491.90 | 1,254,314.94 | 36.30112702 | -107.56032233 |
| 20,900.00 | 89.49 | 314.350 | 5,625.74 | 10,172.82 | -11,503.79 | 1,931,561.80 | 1,254,243.43 | 36.30131633 | -107.56056816 |
| 21,000.00 | 89.49 | 314.350 | 5,626.63 | 10,242.72 | -11,575.30 | 1,931,631.70 | 1,254,171.93 | 36.30150565 | -107.56081398 |
| 21,100.00 | 89.49 | 314.350 | 5,627.53 | 10,312.62 | -11,646.80 | 1,931,701.60 | 1,254,100.42 | 36.30169496 | -107.56105981 |
| 21,200.00 | 89.49 | 314.350 | 5,628.42 | 10,382.52 | -11,718.31 | 1,931,771.50 | 1,254,028.92 | 36.30188428 | -107.56130564 |
| 21,300.00 | 89.49 | 314.350 | 5,629.31 | 10,452.42 | -11,789.81 | 1,931,841.41 | 1,253,957.41 | 36.30207359 | -107.56155146 |
| 21,400.00 | 89.49 | 314.350 | 5,630.20 | 10,522.33 | -11,861.32 | 1,931,911.31 | 1,253,885.91 | 36.30226291 | -107.56179729 |
| 21,500.00 | 89.49 | 314.350 | 5,631.10 | 10,592.23 | -11,932.82 | 1,931,981.21 | 1,253,814.40 | 36.30245222 | -107.56204313 |
| 21,600.00 | 89.49 | 314.350 | 5,631.99 | 10,662.13 | -12,004.33 | 1,932,051.11 | 1,253,742.90 | 36.30264153 | -107.56228896 |
| 21,700.00 | 89.49 | 314.350 | 5,632.88 | 10,732.03 | -12,075.83 | 1,932,121.01 | 1,253,671.39 | 36.30283084 | -107.56253479 |
| 21,800.00 | 89.49 | 314.350 | 5,633.77 | 10,801.93 | -12,147.34 | 1,932,190.91 | 1,253,599.89 | 36.30302015 | -107.56278062 |
| 21,900.00 | 89.49 | 314.350 | 5,634.67 | 10,871.83 | -12,218.84 | 1,932,260.81 | 1,253,528.38 | 36.30320946 | -107.56302646 |
| 22,000.00 | 89.49 | 314.350 | 5,635.56 | 10,941.73 | -12,290.35 | 1,932,330.71 | 1,253,456.88 | 36.30339877 | -107.56327230 |
| 22,100.00 | 89.49 | 314.350 | 5,636.45 | 11,011.63 | -12,361.85 | 1,932,400.62 | 1,253,385.37 | 36.30358808 | -107.56351814 |
| 22,200.00 | 89.49 | 314.350 | 5,637.34 | 11,081.54 | -12,433.36 | 1,932,470.52 | 1,253,313.87 | 36.30377739 | -107.56376397 |
| 22,300.00 | 89.49 | 314.350 | 5,638.24 | 11,151.44 | -12,504.87 | 1,932,540.42 | 1,253,242.36 | 36.30396670 | -107.56400981 |
| 22,400.00 | 89.49 | 314.350 | 5,639.13 | 11,221.34 | -12,576.37 | 1,932,610.32 | 1,253,170.86 | 36.30415601 | -107.56425566 |
| 22,500.00 | 89.49 | 314.350 | 5,640.02 | 11,291.24 | -12,647.88 | 1,932,680.22 | 1,253,099.35 | 36.30434531 | -107.56450150 |
| 22,600.00 | 89.49 | 314.350 | 5,640.91 | 11,361.14 | -12,719.38 | 1,932,750.12 | 1,253,027.85 | 36.30453462 | -107.56474734 |
| 22,700.00 | 89.49 | 314.350 | 5,641.80 | 11,431.04 | -12,790.89 | 1,932,820.02 | 1,252,956.34 | 36.30472393 | -107.56499319 |
| 22,800.00 | 89.49 | 314.350 | 5,642.70 | 11,500.94 | -12,862.39 | 1,932,889.92 | 1,252,884.84 | 36.30491323 | -107.56523903 |
| 22,900.00 | 89.49 | 314.350 | 5,643.59 | 11,570.85 | -12,933.90 | 1,932,959.83 | 1,252,813.33 | 36.30510254 | -107.56548488 |
| 23,000.00 | 89.49 | 314.350 | 5,644.48 | 11,640.75 | -13,005.40 | 1,933,029.73 | 1,252,741.83 | 36.30529184 | -107.56573073 |
| 23,100.00 | 89.49 | 314.350 | 5,645.37 | 11,710.65 | -13,076.91 | 1,933,099.63 | 1,252,670.32 | 36.30548115 | -107.56597658 |
| 23,200.00 | 89.49 | 314.350 | 5,646.27 | 11,780.55 | -13,148.41 | 1,933,169.53 | 1,252,598.81 | 36.30567045 | -107.56622243 |
| 23,300.00 | 89.49 | 314.350 | 5,647.16 | 11,850.45 | -13,219.92 | 1,933,239.43 | 1,252,527.31 | 36.30585975 | -107.56646828 |
| 23,400.00 | 89.49 | 314.350 | 5,648.05 | 11,920.35 | -13,291.42 | 1,933,309.33 | 1,252,455.80 | 36.30604905 | -107.56671414 |
| 23,500.00 | 89.49 | 314.350 | 5,648.94 | 11,990.25 | -13,362.93 | 1,933,379.23 | 1,252,384.30 | 36.30623836 | -107.56695999 |
| 23,600.00 | 89.49 | 314.350 | 5,649.84 | 12,060.15 | -13,434.43 | 1,933,449.13 | 1,252,312.79 | 36.30642766 | -107.56720585 |
| 23,700.00 | 89.49 | 314.350 | 5,650.73 | 12,130.06 | -13,505.94 | 1,933,519.03 | 1,252,241.29 | 36.30661696 | -107.56745170 |
| 23,800.00 | 89.49 | 314.350 | 5,651.62 | 12,199.96 | -13,577.44 | 1,933,588.94 | 1,252,169.78 | 36.30680626 | -107.56769756 |
| 23,900.00 | 89.49 | 314.350 | 5,652.51 | 12,269.86 | -13,648.95 | 1,933,658.84 | 1,252,098.28 | 36.30699556 | -107.56794342 |
| 24,000.00 | 89.49 | 314.350 | 5,653.41 | 12,339.76 | -13,720.46 | 1,933,728.74 | 1,252,026.77 | 36.30718486 | -107.56818928 |
| 24,100.00 | 89.49 | 314.350 | 5,654.30 | 12,409.66 | -13,791.96 | 1,933,798.64 | 1,251,955.27 | 36.30737416 | -107.56843514 |
| 24,200.00 | 89.49 | 314.350 | 5,655.19 | 12,479.56 | -13,863.47 | 1,933,868.54 | 1,251,883.76 | 36.30756345 | -107.56868101 |
| 24,300.00 | 89.49 | 314.350 | 5,656.08 | 12,549.46 | -13,934.97 | 1,933,938.44 | 1,251,812.26 | 36.30775275 | -107.56892687 |
| 24,400.00 | 89.49 | 314.350 | 5,656.98 | 12,619.36 | -14,006.48 | 1,934,008.34 | 1,251,740.75 | 36.30794205 | -107.56917274 |
| 24,500.00 | 89.49 | 314.350 | 5,657.87 | 12,689.27 | -14,077.98 | 1,934,078.24 | 1,251,669.25 | 36.30813134 | -107.56941860 |
| 24,600.00 | 89.49 | 314.350 | 5,658.76 | 12,759.17 | -14,149.49 | 1,934,148.15 | 1,251,597.74 | 36.30832064 | -107.56966447 |
| 24,700.00 | 89.49 | 314.350 | 5,659.65 | 12,829.07 | -14,220.99 | 1,934,218.05 | 1,251,526.24 | 36.30850994 | -107.56991034 |
| 24,800.00 | 89.49 | 314.350 | 5,660.55 | 12,898.97 | -14,292.50 | 1,934,287.95 | 1,251,454.73 | 36.30869923 | -107.57015621 |
| 24,900.00 | 89.49 | 314.350 | 5,661.44 | 12,968.87 | -14,364.00 | 1,934,357.85 | 1,251,383.23 | 36.30888852 | -107.57040208 |
| 25,000.00 | 89.49 | 314.350 | 5,662.33 | 13,038.77 | -14,435.51 | 1,934,427.75 | 1,251,311.72 | 36.30907782 | -107.57064795 |
| 25,100.00 | 89.49 | 314.350 | 5,663.22 | 13,108.67 | -14,507.01 | 1,934,497.65 | 1,251,240.22 | 36.30926711 | -107.57089383 |
| 25,187.11 | 89.49 | 314.350 | 5,664.00 | 13,169.56 | -14,569.30 | 1,934,558.54 | 1,251,177.93 | 36.30943200 | -107.57110800 |
| **PBHL/TD @ 25187.11 MD 5664.00 TVD** | | | | | | | | | |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| Bobby B 28H FTP 1103<br>- plan misses target center by 42.25ft at 5692.51ft MD (5446.63 TVD, -460.61 N, -641.63 E)<br>- Point | 0.00 | 0.000 | 5,484.00 | -464.44 | -622.30 | 1,920,924.57 | 1,265,124.90 | 36.27250100 | -107.52317300 |
| Bobby B 28H vs=0<br>- plan misses target center by 1044.00ft at 5300.19ft MD (5187.70 TVD, -676.74 N, -456.58 E)<br>- Point | 0.00 | 0.000 | 5,484.00 | -548.56 | 536.25 | 1,920,840.44 | 1,266,283.45 | 36.27231174 | -107.51923977 |
| Bobby B 28H LTP 1081<br>- plan hits target center<br>- Point | 0.00 | 0.000 | 5,664.00 | 13,169.56 | -14,569.30 | 1,934,558.54 | 1,251,177.93 | 36.30943200 | -107.57110800 |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 350.00 | 350.00 | 9-5/8" Surface Casing | 9-5/8 | 12-1/4 |
| 5,874.24 | 5,489.84 | 7" Intermediate Casing | 7 | 8-3/4 |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 1,401.86 | 1,398.90 | Ojo Alamo | | 0.510 | 314.350 |
| 1,494.35 | 1,488.86 | Kirtland | | 0.510 | 314.350 |
| 1,705.99 | 1,693.73 | Fruitland | | 0.510 | 314.350 |
| 1,964.08 | 1,943.59 | Pictured Cliffs | | 0.510 | 314.350 |
| 2,103.45 | 2,078.51 | Lewis | | 0.510 | 314.350 |
| 2,413.17 | 2,378.33 | Chacra_A | | 0.510 | 314.350 |
| 3,553.95 | 3,482.68 | Cliff House_Basal | | 0.510 | 314.350 |
| 3,579.76 | 3,507.67 | Menefee | | 0.510 | 314.350 |
| 4,281.77 | 4,187.27 | Point Lookout | | 0.510 | 314.350 |
| 4,592.98 | 4,492.13 | Mancos | | 0.510 | 314.350 |
| 4,943.48 | 4,842.10 | MNCS_A | | 0.510 | 314.350 |
| 5,028.48 | 4,927.10 | MNCS_B | | 0.510 | 314.350 |
| 5,175.60 | 5,072.29 | MNCS_C | | 0.510 | 314.350 |
| 5,266.54 | 5,157.56 | MNCS_Cms | | 0.510 | 314.350 |
| 5,300.19 | 5,187.70 | MNCS_D | | 0.510 | 314.350 |
| 5,408.94 | 5,278.23 | MNCS_E | | 0.510 | 314.350 |
| 5,462.92 | 5,318.55 | MNCS_F | | 0.510 | 314.350 |
| 5,591.04 | 5,399.42 | MNCS_G | | 0.510 | 314.350 |
| 5,688.81 | 5,445.19 | MNCS_H @ 0vs | | 0.510 | 314.350 |

ENDURING RESOURCES, LLC

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT-Oct0825v17 | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **North Reference:** | Grid |
| **Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Orig hole | | |
| **Design:** | rev0 | | |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 1,000.00 | 1,000.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 1,483.95 | 1,478.79 | -53.06 | -30.08 | Begin 14.52° tangent |
| 4,335.43 | 4,239.21 | -674.91 | -382.64 | Begin 3°/100' drop |
| 4,819.38 | 4,718.00 | -727.97 | -412.72 | Begin vertical hold section |
| 5,019.38 | 4,918.00 | -727.97 | -412.72 | Begin 10°/100' build |
| 5,719.38 | 5,456.40 | -441.60 | -657.91 | |
| 5,874.24 | 5,489.84 | -330.66 | -759.94 | 85° inc @ 5874.24 MD 5489.84 TVD |
| 5,920.51 | 5,492.06 | -298.04 | -792.66 | Begin 89.49° lateral |
| 25,187.11 | 5,664.00 | 13,169.56 | -14,569.30 | PBHL/TD @ 25187.11 MD 5664.00 TVD |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Reference** rev0

| | | | |
|---|---|---|---|
| **Filter type:** | GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference | | |
| **Interpolation Method:** | MD Interval 100.00ft | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum centre distance of 2,718.71ft | **Error Surface:** | Ellipsoid Separation |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 6/21/2026

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 25,186.55 | rev0 (Orig hole) | MWD | OWSG MWD - Standard |

**Summary**

| Site Name<br>Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Sec 15 T24N R07W | | | | | | |
| Brian Nielsen 001 - Orig hole - No surveys | 24,367.64 | 5,998.19 | 38.54 | -638.09 | 0.057 | Level 3<2.00, CC, ES, SF |
| Sec 22 T24N R07W | | | | | | |
| Federal 6-22 001 - Orighole - No surveys | 20,846.57 | 5,939.76 | 2,023.89 | 1,430.47 | 3.411 | CC |
| Federal 6-22 001 - Orighole - No surveys | 20,900.00 | 5,940.24 | 2,024.59 | 1,429.84 | 3.404 | ES |
| Federal 6-22 001 - Orighole - No surveys | 21,000.00 | 5,941.13 | 2,029.69 | 1,433.26 | 3.403 | SF |
| Lybrook 002R - Orig hole - Inc only surveys | 18,678.70 | 5,615.85 | 645.49 | 219.85 | 1.517 | Level 3<2.00, CC |
| Lybrook 002R - Orig hole - Inc only surveys | 18,700.00 | 5,616.04 | 645.85 | 219.57 | 1.515 | Level 3<2.00, ES, SF |
| Lybrook 004 - Orig hole - No surveys | 19,437.38 | 5,594.19 | 1,055.12 | 508.13 | 1.929 | Level 3<2.00, CC, ES |
| Lybrook 004 - Orig hole - No surveys | 19,500.00 | 5,594.75 | 1,056.97 | 508.73 | 1.928 | Level 3<2.00, SF |
| Lybrook 006 - Orig hole - No surveys | 20,174.41 | 5,684.77 | 205.48 | -361.59 | 0.362 | Level 3<2.00, CC, ES, SF |
| Pre ongard 002 (Lybrook 2-22) - Orig hole - No surveys | 18,811.66 | 5,616.60 | 287.24 | -245.66 | 0.539 | Level 3<2.00, CC, ES, SF |
| Stephenson 001 - Orig hole - No surveys | 23,539.09 | 6,050.79 | 1,046.54 | 386.42 | 1.585 | Level 3<2.00, CC, ES, SF |
| Sec 23 T24N R07W | | | | | | |
| Byrd 005 - Orig hole - No surveys | 15,053.87 | 5,517.07 | 1,511.44 | 1,068.80 | 3.415 | CC |
| Byrd 005 - Orig hole - No surveys | 15,100.00 | 5,517.48 | 1,512.14 | 1,068.79 | 3.411 | ES, SF |
| Pre ongard 002 (Love 23) - Orig hole - No surveys | 17,572.61 | 5,572.55 | 517.87 | 14.96 | 1.030 | Level 3<2.00, CC, ES, SF |
| Pre ongard 003 (Kenney 23) - Orig hole - No surveys | 16,770.39 | 5,548.39 | 790.44 | 306.95 | 1.635 | Level 3<2.00, CC, ES, SF |
| Pre ongard 006 (Blakely 23) - Orig hole - No surveys | 18,253.13 | 5,615.62 | 1,666.75 | 1,146.28 | 3.202 | CC |
| Pre ongard 006 (Blakely 23) - Orig hole - No surveys | 18,300.00 | 5,616.04 | 1,667.41 | 1,146.22 | 3.199 | ES, SF |
| Sec 25 T24N R07W | | | | | | |
| Mesa 25 003R - Orig hole - Inc only surveys | 9,237.86 | 5,693.26 | 348.29 | 120.82 | 1.531 | Level 3<2.00, CC, ES, SF |
| Mesa 25 007 - Orig hole - Inc only surveys | 11,225.21 | 5,541.45 | 1,272.81 | 1,017.67 | 4.989 | CC, ES |
| Mesa 25 007 - Orig hole - Inc only surveys | 11,300.00 | 5,542.11 | 1,275.01 | 1,018.83 | 4.977 | SF |
| Pre ongard 003 (Mesa A3) - Orig hole - Inc only surveys | 9,389.54 | 5,696.04 | 479.26 | 167.68 | 1.538 | Level 3<2.00, CC |
| Pre ongard 003 (Mesa A3) - Orig hole - Inc only surveys | 9,400.00 | 5,696.13 | 479.37 | 167.41 | 1.537 | Level 3<2.00, ES, SF |
| Sec 26 T24N R07W | | | | | | |
| Federal 2-26 #001 - Orig hole - No surveys | 14,954.73 | 5,554.19 | 464.94 | 23.22 | 1.053 | Level 3<2.00, CC, ES, SF |
| Federal 4-26 #001 - Orig hole - No surveys | 13,104.45 | 5,529.67 | 360.55 | -37.34 | 0.906 | Level 3<2.00, CC, ES, SF |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Summary**

| Site Name<br>Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Sec 36 T24N R07W Bobby B 27-29,37-39 | | | | | | |
| Bobby B unit 027H - Orig hole - rev0 | 1,500.00 | 1,496.17 | 18.02 | 7.84 | 1.771 | Level 3<2.00, CC |
| Bobby B unit 027H - Orig hole - rev0 | 1,504.45 | 1,500.59 | 18.02 | 7.82 | 1.766 | Level 3<2.00, ES |
| Bobby B unit 027H - Orig hole - rev0 | 24,500.00 | 25,045.69 | 1,228.70 | 345.61 | 1.391 | Level 3<2.00, SF |
| Bobby B unit 029H - Orig hole - rev0 | 1,000.00 | 1,000.00 | 20.03 | 13.03 | 2.861 | CC, ES |
| Bobby B unit 029H - Orig hole - rev0 | 25,187.11 | 25,086.53 | 1,178.66 | 266.77 | 1.293 | Level 3<2.00, SF |
| Bobby B unit 037H - Orig hole - rev0 | 1,000.00 | 1,000.00 | 60.04 | 53.03 | 8.575 | CC |
| Bobby B unit 037H - Orig hole - rev0 | 5,546.90 | 5,538.01 | 76.01 | 36.72 | 1.935 | Level 3<2.00, ES, SF |
| Bobby B unit 038H - Orig hole - rev0 | 1,000.00 | 1,000.00 | 79.71 | 72.71 | 11.385 | CC, ES |
| Bobby B unit 038H - Orig hole - rev0 | 1,100.00 | 1,096.38 | 83.89 | 76.20 | 10.916 | SF |
| Bobby B unit 039H - Orig hole - rev0 | 1,000.00 | 1,000.00 | 40.06 | 33.06 | 5.722 | CC, ES |
| Bobby B unit 039H - Orig hole - rev0 | 25,187.11 | 25,639.64 | 2,418.63 | 1,501.91 | 2.638 | SF |
| Escrito A36 2407 #001H - Orig hole - Gyro & MWD surve | 6,363.18 | 6,571.55 | 15.11 | -8.67 | 0.635 | Level 3<2.00, CC, SF |
| Escrito A36 2407 #001H - Orig hole - Gyro & MWD surve | 6,400.00 | 6,600.74 | 26.95 | -10.24 | 0.725 | Level 3<2.00, ES |

**Offset Design:** Sec 15 T24N R07W - Brian Nielsen 001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21,700.00 | 5,632.88 | 5,974.38 | 5,974.38 | 375.61 | 239.02 | -58.295 | 12,569.19 | -14,010.28 | 2,667.81 | 2,396.94 | 270.87 | 9.849 | |
| 21,800.00 | 5,633.77 | 5,975.27 | 5,975.27 | 377.92 | 239.06 | -59.265 | 12,569.19 | -14,010.28 | 2,567.83 | 2,296.83 | 271.00 | 9.475 | |
| 21,900.00 | 5,634.67 | 5,976.17 | 5,976.17 | 380.23 | 239.09 | -60.255 | 12,569.19 | -14,010.28 | 2,467.84 | 2,196.70 | 271.14 | 9.102 | |
| 22,000.00 | 5,635.56 | 5,977.06 | 5,977.06 | 382.55 | 239.13 | -61.265 | 12,569.19 | -14,010.28 | 2,367.86 | 2,096.58 | 271.28 | 8.729 | |
| 22,100.00 | 5,636.45 | 5,977.95 | 5,977.95 | 384.86 | 239.16 | -62.295 | 12,569.19 | -14,010.28 | 2,267.88 | 1,996.46 | 271.41 | 8.356 | |
| 22,200.00 | 5,637.34 | 5,978.84 | 5,978.84 | 387.17 | 239.20 | -63.345 | 12,569.19 | -14,010.28 | 2,167.90 | 1,896.35 | 271.55 | 7.983 | |
| 22,300.00 | 5,638.24 | 5,979.74 | 5,979.74 | 389.49 | 239.23 | -64.415 | 12,569.19 | -14,010.28 | 2,067.92 | 1,796.23 | 271.69 | 7.611 | |
| 22,400.00 | 5,639.13 | 5,980.63 | 5,980.63 | 391.80 | 239.27 | -65.504 | 12,569.19 | -14,010.28 | 1,967.94 | 1,696.10 | 271.83 | 7.239 | |
| 22,500.00 | 5,640.02 | 5,981.52 | 5,981.52 | 394.11 | 239.31 | -66.612 | 12,569.19 | -14,010.28 | 1,867.96 | 1,595.98 | 271.98 | 6.868 | |
| 22,600.00 | 5,640.91 | 5,982.41 | 5,982.41 | 396.43 | 239.34 | -67.739 | 12,569.19 | -14,010.28 | 1,767.99 | 1,495.87 | 272.12 | 6.497 | |
| 22,700.00 | 5,641.80 | 5,983.30 | 5,983.30 | 398.74 | 239.38 | -68.885 | 12,569.19 | -14,010.28 | 1,668.02 | 1,395.74 | 272.28 | 6.126 | |
| 22,800.00 | 5,642.70 | 5,984.20 | 5,984.20 | 401.05 | 239.41 | -70.048 | 12,569.19 | -14,010.28 | 1,568.05 | 1,295.62 | 272.43 | 5.756 | |
| 22,900.00 | 5,643.59 | 5,985.09 | 5,985.09 | 403.37 | 239.45 | -71.229 | 12,569.19 | -14,010.28 | 1,468.09 | 1,195.50 | 272.58 | 5.386 | |
| 23,000.00 | 5,644.48 | 5,985.98 | 5,985.98 | 405.68 | 239.48 | -72.427 | 12,569.19 | -14,010.28 | 1,368.13 | 1,095.39 | 272.74 | 5.016 | |
| 23,100.00 | 5,645.37 | 5,986.87 | 5,986.87 | 407.99 | 239.52 | -73.641 | 12,569.19 | -14,010.28 | 1,268.17 | 995.26 | 272.91 | 4.647 | |
| 23,200.00 | 5,646.27 | 5,987.77 | 5,987.77 | 410.31 | 239.56 | -74.870 | 12,569.19 | -14,010.28 | 1,168.23 | 895.14 | 273.08 | 4.278 | |
| 23,300.00 | 5,647.16 | 5,988.66 | 5,988.66 | 412.62 | 239.59 | -76.113 | 12,569.19 | -14,010.28 | 1,068.29 | 795.02 | 273.27 | 3.909 | |
| 23,400.00 | 5,648.05 | 5,989.55 | 5,989.55 | 414.93 | 239.63 | -77.370 | 12,569.19 | -14,010.28 | 968.37 | 694.90 | 273.46 | 3.541 | |
| 23,500.00 | 5,648.94 | 5,990.44 | 5,990.44 | 417.25 | 239.66 | -78.639 | 12,569.19 | -14,010.28 | 868.46 | 594.78 | 273.68 | 3.173 | |
| 23,600.00 | 5,649.84 | 5,991.34 | 5,991.34 | 419.56 | 239.70 | -79.920 | 12,569.19 | -14,010.28 | 768.58 | 494.66 | 273.91 | 2.806 | |
| 23,700.00 | 5,650.73 | 5,992.23 | 5,992.23 | 421.88 | 239.73 | -81.211 | 12,569.19 | -14,010.28 | 668.72 | 394.52 | 274.20 | 2.439 | |
| 23,800.00 | 5,651.62 | 5,993.12 | 5,993.12 | 424.19 | 239.77 | -82.512 | 12,569.19 | -14,010.28 | 568.92 | 294.42 | 274.50 | 2.073 | |
| 23,900.00 | 5,652.51 | 5,994.01 | 5,994.01 | 426.50 | 239.81 | -83.819 | 12,569.19 | -14,010.28 | 469.21 | 194.30 | 274.90 | 1.707 | Level 3<2.00 |
| 24,000.00 | 5,653.41 | 5,994.91 | 5,994.91 | 428.82 | 239.84 | -85.134 | 12,569.19 | -14,010.28 | 369.64 | 94.18 | 275.46 | 1.342 | Level 3<2.00 |
| 24,100.00 | 5,654.30 | 5,995.80 | 5,995.80 | 431.13 | 239.88 | -86.454 | 12,569.19 | -14,010.28 | 270.39 | -5.96 | 276.35 | 0.978 | Level 3<2.00 |
| 24,200.00 | 5,655.19 | 5,996.69 | 5,996.69 | 433.45 | 239.91 | -87.777 | 12,569.19 | -14,010.28 | 172.00 | -106.18 | 278.19 | 0.618 | Level 3<2.00 |
| 24,300.00 | 5,656.08 | 5,997.58 | 5,997.58 | 435.76 | 239.95 | -89.103 | 12,569.19 | -14,010.28 | 77.84 | -209.12 | 286.96 | 0.271 | Level 3<2.00 |
| 24,367.64 | 5,656.69 | 5,998.19 | 5,998.19 | 437.33 | 239.97 | -90.000 | 12,569.19 | -14,010.28 | 38.54 | -638.09 | 676.63 | 0.057 | Level 3<2.00, CC, ES, SF |
| 24,400.00 | 5,656.98 | 5,998.48 | 5,998.48 | 438.07 | 239.98 | -90.429 | 12,569.19 | -14,010.28 | 50.32 | -280.75 | 331.07 | 0.152 | Level 3<2.00 |
| 24,500.00 | 5,657.87 | 5,999.37 | 5,999.37 | 440.39 | 240.02 | -91.756 | 12,569.19 | -14,010.28 | 137.85 | -143.38 | 281.23 | 0.490 | Level 3<2.00 |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 15 T24N R07W - Brian Nielsen 001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 24,600.00 | 5,658.76 | 6,000.26 | 6,000.26 | 442.70 | 240.06 | -93.080 | 12,569.19 | -14,010.28 | 235.53 | -43.19 | 278.72 | 0.845 | Level 3<2.00 |
| 24,700.00 | 5,659.65 | 6,001.15 | 6,001.15 | 445.02 | 240.09 | -94.401 | 12,569.19 | -14,010.28 | 334.57 | 56.69 | 277.89 | 1.204 | Level 3<2.00 |
| 24,800.00 | 5,660.55 | 6,002.05 | 6,002.05 | 447.33 | 240.13 | -95.717 | 12,569.19 | -14,010.28 | 434.06 | 156.54 | 277.52 | 1.564 | Level 3<2.00 |
| 24,900.00 | 5,661.44 | 6,002.94 | 6,002.94 | 449.64 | 240.16 | -97.028 | 12,569.19 | -14,010.28 | 533.73 | 256.38 | 277.35 | 1.924 | Level 3<2.00 |
| 25,000.00 | 5,662.33 | 6,003.83 | 6,003.83 | 451.96 | 240.20 | -98.331 | 12,569.19 | -14,010.28 | 633.51 | 356.23 | 277.28 | 2.285 | |
| 25,100.00 | 5,663.22 | 6,004.72 | 6,004.72 | 454.27 | 240.23 | -99.625 | 12,569.19 | -14,010.28 | 733.35 | 456.08 | 277.27 | 2.645 | |
| 25,187.11 | 5,664.00 | 6,005.50 | 6,005.50 | 456.29 | 240.27 | -100.745 | 12,569.19 | -14,010.28 | 820.34 | 543.06 | 277.29 | 2.958 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Federal 6-22 001 - Orighole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,100.00 | 5,609.68 | 5,924.18 | 5,924.18 | 315.48 | 237.01 | -89.559 | 8,688.23 | -12,880.37 | 2,673.27 | 2,210.23 | 463.04 | 5.773 | |
| 19,200.00 | 5,610.57 | 5,925.07 | 5,925.07 | 317.80 | 237.05 | -89.584 | 8,688.23 | -12,880.37 | 2,609.04 | 2,138.02 | 471.02 | 5.539 | |
| 19,300.00 | 5,611.46 | 5,925.96 | 5,925.96 | 320.11 | 237.08 | -89.609 | 8,688.23 | -12,880.37 | 2,547.12 | 2,067.88 | 479.23 | 5.315 | |
| 19,400.00 | 5,612.36 | 5,926.86 | 5,926.86 | 322.42 | 237.12 | -89.635 | 8,688.23 | -12,880.37 | 2,487.67 | 2,000.02 | 487.65 | 5.101 | |
| 19,500.00 | 5,613.25 | 5,927.75 | 5,927.75 | 324.73 | 237.16 | -89.660 | 8,688.23 | -12,880.37 | 2,430.89 | 1,934.64 | 496.25 | 4.898 | |
| 19,600.00 | 5,614.14 | 5,928.64 | 5,928.64 | 327.04 | 237.19 | -89.685 | 8,688.23 | -12,880.37 | 2,376.96 | 1,871.97 | 504.99 | 4.707 | |
| 19,700.00 | 5,615.03 | 5,929.53 | 5,929.53 | 329.36 | 237.23 | -89.710 | 8,688.23 | -12,880.37 | 2,326.08 | 1,812.25 | 513.82 | 4.527 | |
| 19,800.00 | 5,615.92 | 5,930.42 | 5,930.42 | 331.67 | 237.26 | -89.736 | 8,688.23 | -12,880.37 | 2,278.45 | 1,755.77 | 522.68 | 4.359 | |
| 19,900.00 | 5,616.82 | 5,931.32 | 5,931.32 | 333.98 | 237.30 | -89.761 | 8,688.23 | -12,880.37 | 2,234.29 | 1,702.80 | 531.49 | 4.204 | |
| 20,000.00 | 5,617.71 | 5,932.21 | 5,932.21 | 336.29 | 237.33 | -89.786 | 8,688.23 | -12,880.37 | 2,193.80 | 1,653.63 | 540.17 | 4.061 | |
| 20,100.00 | 5,618.60 | 5,933.10 | 5,933.10 | 338.60 | 237.37 | -89.811 | 8,688.23 | -12,880.37 | 2,157.18 | 1,608.56 | 548.62 | 3.932 | |
| 20,200.00 | 5,619.49 | 5,933.99 | 5,933.99 | 340.92 | 237.40 | -89.837 | 8,688.23 | -12,880.37 | 2,124.65 | 1,567.92 | 556.73 | 3.816 | |
| 20,300.00 | 5,620.39 | 5,934.89 | 5,934.89 | 343.23 | 237.44 | -89.862 | 8,688.23 | -12,880.37 | 2,096.38 | 1,531.99 | 564.40 | 3.714 | |
| 20,400.00 | 5,621.28 | 5,935.78 | 5,935.78 | 345.54 | 237.48 | -89.887 | 8,688.23 | -12,880.37 | 2,072.56 | 1,501.07 | 571.49 | 3.627 | |
| 20,500.00 | 5,622.17 | 5,936.67 | 5,936.67 | 347.85 | 237.51 | -89.912 | 8,688.23 | -12,880.37 | 2,053.34 | 1,475.44 | 577.90 | 3.553 | |
| 20,600.00 | 5,623.06 | 5,937.56 | 5,937.56 | 350.17 | 237.55 | -89.938 | 8,688.23 | -12,880.37 | 2,038.85 | 1,455.32 | 583.52 | 3.494 | |
| 20,700.00 | 5,623.96 | 5,938.46 | 5,938.46 | 352.48 | 237.58 | -89.963 | 8,688.23 | -12,880.37 | 2,029.19 | 1,440.93 | 588.25 | 3.450 | |
| 20,800.00 | 5,624.85 | 5,939.35 | 5,939.35 | 354.79 | 237.62 | -89.988 | 8,688.23 | -12,880.37 | 2,024.42 | 1,432.41 | 592.01 | 3.420 | |
| 20,846.57 | 5,625.26 | 5,939.76 | 5,939.76 | 355.87 | 237.64 | -90.000 | 8,688.23 | -12,880.37 | 2,023.89 | 1,430.47 | 593.42 | 3.411 CC | |
| 20,900.00 | 5,625.74 | 5,940.24 | 5,940.24 | 357.10 | 237.65 | -90.013 | 8,688.23 | -12,880.37 | 2,024.59 | 1,429.84 | 594.75 | 3.404 ES | |
| 21,000.00 | 5,626.63 | 5,941.13 | 5,941.13 | 359.42 | 237.69 | -90.039 | 8,688.23 | -12,880.37 | 2,029.69 | 1,433.26 | 596.44 | 3.403 SF | |
| 21,100.00 | 5,627.53 | 5,942.03 | 5,942.03 | 361.73 | 237.73 | -90.064 | 8,688.23 | -12,880.37 | 2,039.69 | 1,442.62 | 597.07 | 3.416 | |
| 21,200.00 | 5,628.42 | 5,942.92 | 5,942.92 | 364.04 | 237.76 | -90.089 | 8,688.23 | -12,880.37 | 2,054.51 | 1,457.83 | 596.68 | 3.443 | |
| 21,300.00 | 5,629.31 | 5,943.81 | 5,943.81 | 366.35 | 237.80 | -90.115 | 8,688.23 | -12,880.37 | 2,074.05 | 1,478.74 | 595.31 | 3.484 | |
| 21,400.00 | 5,630.20 | 5,944.70 | 5,944.70 | 368.67 | 237.83 | -90.140 | 8,688.23 | -12,880.37 | 2,098.18 | 1,505.13 | 593.05 | 3.538 | |
| 21,500.00 | 5,631.10 | 5,945.60 | 5,945.60 | 370.98 | 237.87 | -90.165 | 8,688.23 | -12,880.37 | 2,126.75 | 1,536.77 | 589.98 | 3.605 | |
| 21,600.00 | 5,631.99 | 5,946.49 | 5,946.49 | 373.29 | 237.90 | -90.190 | 8,688.23 | -12,880.37 | 2,159.56 | 1,573.37 | 586.19 | 3.684 | |
| 21,700.00 | 5,632.88 | 5,947.38 | 5,947.38 | 375.61 | 237.94 | -90.216 | 8,688.23 | -12,880.37 | 2,196.45 | 1,614.65 | 581.80 | 3.775 | |
| 21,800.00 | 5,633.77 | 5,948.27 | 5,948.27 | 377.92 | 237.98 | -90.241 | 8,688.23 | -12,880.37 | 2,237.20 | 1,660.29 | 576.91 | 3.878 | |
| 21,900.00 | 5,634.67 | 5,949.17 | 5,949.17 | 380.23 | 238.01 | -90.266 | 8,688.23 | -12,880.37 | 2,281.61 | 1,710.00 | 571.61 | 3.992 | |
| 22,000.00 | 5,635.56 | 5,950.06 | 5,950.06 | 382.55 | 238.05 | -90.291 | 8,688.23 | -12,880.37 | 2,329.46 | 1,763.46 | 566.01 | 4.116 | |
| 22,100.00 | 5,636.45 | 5,950.95 | 5,950.95 | 384.86 | 238.08 | -90.317 | 8,688.23 | -12,880.37 | 2,380.56 | 1,820.38 | 560.18 | 4.250 | |
| 22,200.00 | 5,637.34 | 5,951.84 | 5,951.84 | 387.17 | 238.12 | -90.342 | 8,688.23 | -12,880.37 | 2,434.69 | 1,880.50 | 554.20 | 4.393 | |
| 22,300.00 | 5,638.24 | 5,952.74 | 5,952.74 | 389.49 | 238.15 | -90.367 | 8,688.23 | -12,880.37 | 2,491.67 | 1,943.53 | 548.14 | 4.546 | |
| 22,400.00 | 5,639.13 | 5,953.63 | 5,953.63 | 391.80 | 238.19 | -90.392 | 8,688.23 | -12,880.37 | 2,551.29 | 2,009.24 | 542.05 | 4.707 | |
| 22,500.00 | 5,640.02 | 5,954.52 | 5,954.52 | 394.11 | 238.23 | -90.418 | 8,688.23 | -12,880.37 | 2,613.37 | 2,077.39 | 535.98 | 4.876 | |
| 22,600.00 | 5,640.91 | 5,955.41 | 5,955.41 | 396.43 | 238.26 | -90.443 | 8,688.23 | -12,880.37 | 2,677.76 | 2,147.79 | 529.97 | 5.053 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Lybrook 002R - Orig hole - Inc only surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 104-INC-ONLY — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16,100.00 | 5,582.91 | 5,592.98 | 5,592.41 | 246.18 | 119.65 | -87.959 | 8,158.32 | -10,366.67 | 2,658.06 | 2,487.38 | 170.68 | 15.573 | |
| 16,200.00 | 5,583.80 | 5,593.88 | 5,593.30 | 248.49 | 119.66 | -88.038 | 8,158.32 | -10,366.67 | 2,561.18 | 2,388.53 | 172.65 | 14.834 | |
| 16,300.00 | 5,584.69 | 5,594.77 | 5,594.19 | 250.80 | 119.68 | -88.117 | 8,158.32 | -10,366.67 | 2,464.54 | 2,289.75 | 174.79 | 14.100 | |
| 16,400.00 | 5,585.58 | 5,595.66 | 5,595.08 | 253.11 | 119.70 | -88.196 | 8,158.32 | -10,366.67 | 2,368.18 | 2,191.07 | 177.12 | 13.371 | |
| 16,500.00 | 5,586.48 | 5,596.55 | 5,595.98 | 255.42 | 119.71 | -88.275 | 8,158.32 | -10,366.67 | 2,272.14 | 2,092.47 | 179.66 | 12.647 | |
| 16,600.00 | 5,587.37 | 5,597.44 | 5,596.87 | 257.73 | 119.73 | -88.354 | 8,158.32 | -10,366.67 | 2,176.45 | 1,994.00 | 182.45 | 11.929 | |
| 16,700.00 | 5,588.26 | 5,598.34 | 5,597.76 | 260.03 | 119.74 | -88.434 | 8,158.32 | -10,366.67 | 2,081.17 | 1,895.64 | 185.52 | 11.218 | |
| 16,800.00 | 5,589.15 | 5,599.23 | 5,598.65 | 262.34 | 119.76 | -88.513 | 8,158.32 | -10,366.67 | 1,986.35 | 1,797.44 | 188.91 | 10.515 | |
| 16,900.00 | 5,590.05 | 5,600.12 | 5,599.55 | 264.65 | 119.78 | -88.592 | 8,158.32 | -10,366.67 | 1,892.06 | 1,699.40 | 192.66 | 9.821 | |
| 17,000.00 | 5,590.94 | 5,601.01 | 5,600.44 | 266.96 | 119.79 | -88.671 | 8,158.32 | -10,366.67 | 1,798.39 | 1,601.56 | 196.83 | 9.137 | |
| 17,100.00 | 5,591.83 | 5,601.91 | 5,601.33 | 269.27 | 119.81 | -88.750 | 8,158.32 | -10,366.67 | 1,705.44 | 1,503.95 | 201.49 | 8.464 | |
| 17,200.00 | 5,592.72 | 5,602.80 | 5,602.22 | 271.58 | 119.82 | -88.829 | 8,158.32 | -10,366.67 | 1,613.33 | 1,406.61 | 206.72 | 7.804 | |
| 17,300.00 | 5,593.61 | 5,603.69 | 5,603.11 | 273.89 | 119.84 | -88.908 | 8,158.32 | -10,366.67 | 1,522.21 | 1,309.60 | 212.61 | 7.159 | |
| 17,400.00 | 5,594.51 | 5,604.58 | 5,604.01 | 276.20 | 119.86 | -88.988 | 8,158.32 | -10,366.67 | 1,432.29 | 1,212.99 | 219.30 | 6.531 | |
| 17,500.00 | 5,595.40 | 5,605.48 | 5,604.90 | 278.51 | 119.87 | -89.067 | 8,158.32 | -10,366.67 | 1,343.78 | 1,116.87 | 226.91 | 5.922 | |
| 17,600.00 | 5,596.29 | 5,606.37 | 5,605.79 | 280.82 | 119.89 | -89.146 | 8,158.32 | -10,366.67 | 1,257.00 | 1,021.36 | 235.64 | 5.334 | |
| 17,700.00 | 5,597.18 | 5,607.26 | 5,606.68 | 283.13 | 119.90 | -89.225 | 8,158.32 | -10,366.67 | 1,172.33 | 926.64 | 245.69 | 4.772 | |
| 17,800.00 | 5,598.08 | 5,608.15 | 5,607.58 | 285.44 | 119.92 | -89.304 | 8,158.32 | -10,366.67 | 1,090.26 | 832.93 | 257.33 | 4.237 | |
| 17,900.00 | 5,598.97 | 5,609.05 | 5,608.47 | 287.75 | 119.94 | -89.383 | 8,158.32 | -10,366.67 | 1,011.41 | 740.56 | 270.86 | 3.734 | |
| 18,000.00 | 5,599.86 | 5,609.94 | 5,609.36 | 290.06 | 119.95 | -89.462 | 8,158.52 | -10,366.67 | 936.62 | 650.06 | 286.56 | 3.269 | |
| 18,100.00 | 5,600.75 | 5,610.83 | 5,610.25 | 292.37 | 119.97 | -89.541 | 8,158.52 | -10,366.67 | 866.91 | 562.05 | 304.86 | 2.844 | |
| 18,200.00 | 5,601.65 | 5,611.71 | 5,611.13 | 294.68 | 119.98 | -89.620 | 8,158.52 | -10,366.67 | 803.62 | 477.69 | 325.92 | 2.466 | |
| 18,300.00 | 5,602.54 | 5,612.59 | 5,612.01 | 297.00 | 120.00 | -89.697 | 8,158.52 | -10,366.67 | 748.38 | 398.79 | 349.58 | 2.141 | |
| 18,400.00 | 5,603.43 | 5,613.46 | 5,612.88 | 299.31 | 120.02 | -89.775 | 8,158.52 | -10,366.67 | 703.09 | 328.23 | 374.86 | 1.876 | Level 3<2.00 |
| 18,500.00 | 5,604.32 | 5,614.32 | 5,613.74 | 301.62 | 120.03 | -89.851 | 8,158.52 | -10,366.67 | 669.77 | 270.54 | 399.23 | 1.678 | Level 3<2.00 |
| 18,600.00 | 5,605.22 | 5,615.18 | 5,614.60 | 303.93 | 120.05 | -89.928 | 8,158.52 | -10,366.67 | 650.27 | 232.13 | 418.15 | 1.555 | Level 3<2.00 |
| 18,678.70 | 5,605.92 | 5,615.85 | 5,615.28 | 305.75 | 120.06 | -89.987 | 8,158.52 | -10,366.67 | 645.49 | 219.85 | 425.65 | 1.517 | Level 3<2.00, CC |
| 18,700.00 | 5,606.11 | 5,616.04 | 5,615.46 | 306.24 | 120.06 | -90.003 | 8,158.52 | -10,366.67 | 645.85 | 219.57 | 426.27 | 1.515 | Level 3<2.00, ES, SF |
| 18,800.00 | 5,607.00 | 5,616.88 | 5,616.31 | 308.55 | 120.08 | -90.079 | 8,158.52 | -10,366.67 | 656.79 | 235.63 | 421.16 | 1.559 | Level 3<2.00 |
| 18,900.00 | 5,607.89 | 5,617.73 | 5,617.15 | 310.86 | 120.09 | -90.154 | 8,158.52 | -10,366.67 | 682.37 | 276.84 | 405.53 | 1.683 | Level 3<2.00 |
| 19,000.00 | 5,608.79 | 5,618.56 | 5,617.99 | 313.17 | 120.11 | -90.228 | 8,158.52 | -10,366.67 | 721.03 | 336.44 | 384.59 | 1.875 | Level 3<2.00 |
| 19,100.00 | 5,609.68 | 5,619.39 | 5,618.82 | 315.48 | 120.12 | -90.302 | 8,158.52 | -10,366.67 | 770.81 | 408.24 | 362.57 | 2.126 | |
| 19,200.00 | 5,610.57 | 5,620.22 | 5,619.64 | 317.80 | 120.14 | -90.375 | 8,158.52 | -10,366.67 | 829.70 | 487.94 | 341.76 | 2.428 | |
| 19,300.00 | 5,611.46 | 5,621.04 | 5,620.46 | 320.11 | 120.15 | -90.448 | 8,158.52 | -10,366.67 | 895.91 | 572.81 | 323.09 | 2.773 | |
| 19,400.00 | 5,612.36 | 5,621.86 | 5,621.28 | 322.42 | 120.17 | -90.520 | 8,158.52 | -10,366.67 | 967.93 | 661.18 | 306.75 | 3.155 | |
| 19,500.00 | 5,613.25 | 5,622.67 | 5,622.09 | 324.73 | 120.18 | -90.592 | 8,158.52 | -10,366.67 | 1,044.58 | 751.99 | 292.59 | 3.570 | |
| 19,600.00 | 5,614.14 | 5,623.47 | 5,622.89 | 327.04 | 120.20 | -90.664 | 8,158.52 | -10,366.67 | 1,124.90 | 844.54 | 280.35 | 4.012 | |
| 19,700.00 | 5,615.03 | 5,624.27 | 5,623.69 | 329.36 | 120.21 | -90.735 | 8,158.52 | -10,366.67 | 1,208.16 | 938.39 | 269.77 | 4.479 | |
| 19,800.00 | 5,615.92 | 5,625.07 | 5,624.49 | 331.67 | 120.22 | -90.805 | 8,158.52 | -10,366.67 | 1,293.79 | 1,033.21 | 260.57 | 4.965 | |
| 19,900.00 | 5,616.82 | 5,625.86 | 5,625.28 | 333.98 | 120.24 | -90.875 | 8,158.52 | -10,366.67 | 1,381.35 | 1,128.79 | 252.56 | 5.469 | |
| 20,000.00 | 5,617.71 | 5,626.64 | 5,626.06 | 336.29 | 120.25 | -90.945 | 8,158.51 | -10,366.67 | 1,470.50 | 1,224.97 | 245.53 | 5.989 | |
| 20,100.00 | 5,618.60 | 5,627.42 | 5,626.84 | 338.60 | 120.27 | -91.014 | 8,158.51 | -10,366.67 | 1,560.97 | 1,321.63 | 239.34 | 6.522 | |
| 20,200.00 | 5,619.49 | 5,628.20 | 5,627.62 | 340.92 | 120.28 | -91.083 | 8,158.51 | -10,366.67 | 1,652.53 | 1,418.68 | 233.85 | 7.067 | |
| 20,300.00 | 5,620.39 | 5,628.97 | 5,628.39 | 343.23 | 120.29 | -91.151 | 8,158.51 | -10,366.67 | 1,745.02 | 1,516.04 | 228.98 | 7.621 | |
| 20,400.00 | 5,621.28 | 5,629.73 | 5,629.15 | 345.54 | 120.31 | -91.219 | 8,158.51 | -10,366.67 | 1,838.29 | 1,613.67 | 224.62 | 8.184 | |
| 20,500.00 | 5,622.17 | 5,630.49 | 5,629.92 | 347.85 | 120.32 | -91.286 | 8,158.51 | -10,366.67 | 1,932.24 | 1,711.54 | 220.71 | 8.755 | |
| 20,600.00 | 5,623.06 | 5,631.25 | 5,630.67 | 350.17 | 120.33 | -91.354 | 8,158.51 | -10,366.67 | 2,026.77 | 1,809.59 | 217.18 | 9.332 | |
| 20,700.00 | 5,623.96 | 5,632.00 | 5,631.42 | 352.48 | 120.35 | -91.420 | 8,158.51 | -10,366.67 | 2,121.80 | 1,907.80 | 213.99 | 9.915 | |
| 20,800.00 | 5,624.85 | 5,632.75 | 5,632.17 | 354.79 | 120.36 | -91.486 | 8,158.51 | -10,366.67 | 2,217.26 | 2,006.17 | 211.10 | 10.503 | |
| 20,900.00 | 5,625.74 | 5,633.49 | 5,632.91 | 357.10 | 120.37 | -91.552 | 8,158.51 | -10,366.67 | 2,313.11 | 2,104.65 | 208.46 | 11.096 | |
| 21,000.00 | 5,626.63 | 5,634.23 | 5,633.65 | 359.42 | 120.39 | -91.618 | 8,158.51 | -10,366.67 | 2,409.30 | 2,203.25 | 206.05 | 11.693 | |
| 21,100.00 | 5,627.53 | 5,634.96 | 5,634.38 | 361.73 | 120.40 | -91.683 | 8,158.51 | -10,366.67 | 2,505.78 | 2,301.93 | 203.85 | 12.292 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Lybrook 002R - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 104-INC-ONLY

**Offset Well Error:** 0.00 ft

**Rule Assigned:**

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21,200.00 | 5,628.42 | 5,635.69 | 5,635.11 | 364.04 | 120.41 | -91.747 | 8,158.51 | -10,366.67 | 2,602.53 | 2,400.71 | 201.82 | 12.895 | |
| 21,300.00 | 5,629.31 | 5,636.41 | 5,635.83 | 366.35 | 120.43 | -91.811 | 8,158.50 | -10,366.67 | 2,699.52 | 2,499.56 | 199.96 | 13.500 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Lybrook 004 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,000.00 | 5,590.94 | 5,572.44 | 5,572.44 | 266.96 | 222.94 | -88.819 | 8,395.93 | -11,195.51 | 2,655.87 | 2,341.02 | 314.84 | 8.436 | |
| 17,100.00 | 5,591.83 | 5,573.33 | 5,573.33 | 269.27 | 222.98 | -88.867 | 8,395.93 | -11,195.51 | 2,564.41 | 2,245.47 | 318.94 | 8.040 | |
| 17,200.00 | 5,592.72 | 5,574.22 | 5,574.22 | 271.58 | 223.01 | -88.916 | 8,395.93 | -11,195.51 | 2,473.61 | 2,150.27 | 323.34 | 7.650 | |
| 17,300.00 | 5,593.61 | 5,575.11 | 5,575.11 | 273.89 | 223.05 | -88.964 | 8,395.93 | -11,195.51 | 2,383.55 | 2,055.47 | 328.08 | 7.265 | |
| 17,400.00 | 5,594.51 | 5,576.01 | 5,576.01 | 276.20 | 223.09 | -89.013 | 8,395.93 | -11,195.51 | 2,294.31 | 1,961.12 | 333.19 | 6.886 | |
| 17,500.00 | 5,595.40 | 5,576.90 | 5,576.90 | 278.51 | 223.12 | -89.061 | 8,395.93 | -11,195.51 | 2,206.00 | 1,867.28 | 338.71 | 6.513 | |
| 17,600.00 | 5,596.29 | 5,577.79 | 5,577.79 | 280.82 | 223.16 | -89.110 | 8,395.93 | -11,195.51 | 2,118.72 | 1,774.03 | 344.69 | 6.147 | |
| 17,700.00 | 5,597.18 | 5,578.68 | 5,578.68 | 283.13 | 223.19 | -89.158 | 8,395.93 | -11,195.51 | 2,032.61 | 1,681.45 | 351.16 | 5.788 | |
| 17,800.00 | 5,598.08 | 5,579.58 | 5,579.58 | 285.44 | 223.23 | -89.207 | 8,395.93 | -11,195.51 | 1,947.84 | 1,589.64 | 358.19 | 5.438 | |
| 17,900.00 | 5,598.97 | 5,580.47 | 5,580.47 | 287.75 | 223.26 | -89.255 | 8,395.93 | -11,195.51 | 1,864.57 | 1,498.73 | 365.84 | 5.097 | |
| 18,000.00 | 5,599.86 | 5,581.36 | 5,581.36 | 290.06 | 223.30 | -89.303 | 8,395.93 | -11,195.51 | 1,783.02 | 1,408.87 | 374.15 | 4.766 | |
| 18,100.00 | 5,600.75 | 5,582.25 | 5,582.25 | 292.37 | 223.34 | -89.352 | 8,395.93 | -11,195.51 | 1,703.44 | 1,320.24 | 383.20 | 4.445 | |
| 18,200.00 | 5,601.65 | 5,583.15 | 5,583.15 | 294.68 | 223.37 | -89.400 | 8,395.93 | -11,195.51 | 1,626.12 | 1,233.06 | 393.05 | 4.137 | |
| 18,300.00 | 5,602.54 | 5,584.04 | 5,584.04 | 297.00 | 223.41 | -89.449 | 8,395.93 | -11,195.51 | 1,551.39 | 1,147.62 | 403.77 | 3.842 | |
| 18,400.00 | 5,603.43 | 5,584.93 | 5,584.93 | 299.31 | 223.44 | -89.497 | 8,395.93 | -11,195.51 | 1,479.64 | 1,064.25 | 415.39 | 3.562 | |
| 18,500.00 | 5,604.32 | 5,585.82 | 5,585.82 | 301.62 | 223.48 | -89.546 | 8,395.93 | -11,195.51 | 1,411.34 | 983.39 | 427.95 | 3.298 | |
| 18,600.00 | 5,605.22 | 5,586.72 | 5,586.72 | 303.93 | 223.51 | -89.594 | 8,395.93 | -11,195.51 | 1,347.00 | 905.57 | 441.43 | 3.051 | |
| 18,700.00 | 5,606.11 | 5,587.61 | 5,587.61 | 306.24 | 223.55 | -89.643 | 8,395.93 | -11,195.51 | 1,287.23 | 831.48 | 455.75 | 2.824 | |
| 18,800.00 | 5,607.00 | 5,588.50 | 5,588.50 | 308.55 | 223.59 | -89.691 | 8,395.93 | -11,195.51 | 1,232.68 | 761.94 | 470.74 | 2.619 | |
| 18,900.00 | 5,607.89 | 5,589.39 | 5,589.39 | 310.86 | 223.62 | -89.740 | 8,395.93 | -11,195.51 | 1,184.07 | 697.99 | 486.08 | 2.436 | |
| 19,000.00 | 5,608.79 | 5,590.29 | 5,590.29 | 313.17 | 223.66 | -89.788 | 8,395.93 | -11,195.51 | 1,142.17 | 640.87 | 501.30 | 2.278 | |
| 19,100.00 | 5,609.68 | 5,591.18 | 5,591.18 | 315.48 | 223.69 | -89.837 | 8,395.93 | -11,195.51 | 1,107.74 | 592.02 | 515.72 | 2.148 | |
| 19,200.00 | 5,610.57 | 5,592.07 | 5,592.07 | 317.80 | 223.73 | -89.885 | 8,395.93 | -11,195.51 | 1,081.49 | 553.00 | 528.49 | 2.046 | |
| 19,300.00 | 5,611.46 | 5,592.96 | 5,592.96 | 320.11 | 223.76 | -89.933 | 8,395.93 | -11,195.51 | 1,064.02 | 525.34 | 538.69 | 1.975 | Level 3<2.00 |
| 19,400.00 | 5,612.36 | 5,593.86 | 5,593.86 | 322.42 | 223.80 | -89.982 | 8,395.93 | -11,195.51 | 1,055.78 | 510.32 | 545.46 | 1.936 | Level 3<2.00 |
| 19,437.38 | 5,612.69 | 5,594.19 | 5,594.19 | 323.28 | 223.81 | -90.000 | 8,395.93 | -11,195.51 | 1,055.12 | 508.13 | 546.98 | 1.929 | Level 3<2.00, CC, ES |
| 19,500.00 | 5,613.25 | 5,594.75 | 5,594.75 | 324.73 | 223.84 | -90.030 | 8,395.93 | -11,195.51 | 1,056.97 | 508.73 | 548.24 | 1.928 | Level 3<2.00, SF |
| 19,600.00 | 5,614.14 | 5,595.64 | 5,595.64 | 327.04 | 223.87 | -90.079 | 8,395.93 | -11,195.51 | 1,067.57 | 520.65 | 546.93 | 1.952 | Level 3<2.00 |
| 19,700.00 | 5,615.03 | 5,596.53 | 5,596.53 | 329.36 | 223.91 | -90.127 | 8,395.93 | -11,195.51 | 1,087.31 | 545.44 | 541.87 | 2.007 | |
| 19,800.00 | 5,615.92 | 5,597.42 | 5,597.42 | 331.67 | 223.94 | -90.176 | 8,395.93 | -11,195.51 | 1,115.68 | 581.92 | 533.76 | 2.090 | |
| 19,900.00 | 5,616.82 | 5,598.32 | 5,598.32 | 333.98 | 223.98 | -90.224 | 8,395.93 | -11,195.51 | 1,152.07 | 628.59 | 523.48 | 2.201 | |
| 20,000.00 | 5,617.71 | 5,599.21 | 5,599.21 | 336.29 | 224.01 | -90.273 | 8,395.93 | -11,195.51 | 1,195.74 | 683.88 | 511.86 | 2.336 | |
| 20,100.00 | 5,618.60 | 5,600.10 | 5,600.10 | 338.60 | 224.05 | -90.321 | 8,395.93 | -11,195.51 | 1,245.91 | 746.31 | 499.60 | 2.494 | |
| 20,200.00 | 5,619.49 | 5,600.99 | 5,600.99 | 340.92 | 224.08 | -90.370 | 8,395.93 | -11,195.51 | 1,301.85 | 814.60 | 487.25 | 2.672 | |
| 20,300.00 | 5,620.39 | 5,601.89 | 5,601.89 | 343.23 | 224.12 | -90.418 | 8,395.93 | -11,195.51 | 1,362.84 | 887.66 | 475.17 | 2.868 | |
| 20,400.00 | 5,621.28 | 5,602.78 | 5,602.78 | 345.54 | 224.16 | -90.466 | 8,395.93 | -11,195.51 | 1,428.23 | 964.63 | 463.60 | 3.081 | |
| 20,500.00 | 5,622.17 | 5,603.67 | 5,603.67 | 347.85 | 224.19 | -90.515 | 8,395.93 | -11,195.51 | 1,497.44 | 1,044.78 | 452.67 | 3.308 | |
| 20,600.00 | 5,623.06 | 5,604.56 | 5,604.56 | 350.17 | 224.23 | -90.563 | 8,395.93 | -11,195.51 | 1,569.98 | 1,127.54 | 442.44 | 3.548 | |
| 20,700.00 | 5,623.96 | 5,605.46 | 5,605.46 | 352.48 | 224.26 | -90.612 | 8,395.93 | -11,195.51 | 1,645.40 | 1,212.48 | 432.92 | 3.801 | |
| 20,800.00 | 5,624.85 | 5,606.35 | 5,606.35 | 354.79 | 224.30 | -90.660 | 8,395.93 | -11,195.51 | 1,723.33 | 1,299.22 | 424.10 | 4.063 | |
| 20,900.00 | 5,625.74 | 5,607.24 | 5,607.24 | 357.10 | 224.33 | -90.709 | 8,395.93 | -11,195.51 | 1,803.43 | 1,387.48 | 415.95 | 4.336 | |
| 21,000.00 | 5,626.63 | 5,608.13 | 5,608.13 | 359.42 | 224.37 | -90.757 | 8,395.93 | -11,195.51 | 1,885.43 | 1,477.01 | 408.42 | 4.616 | |
| 21,100.00 | 5,627.53 | 5,609.03 | 5,609.03 | 361.73 | 224.41 | -90.806 | 8,395.93 | -11,195.51 | 1,969.10 | 1,567.63 | 401.47 | 4.905 | |
| 21,200.00 | 5,628.42 | 5,609.92 | 5,609.92 | 364.04 | 224.44 | -90.854 | 8,395.93 | -11,195.51 | 2,054.23 | 1,659.18 | 395.05 | 5.200 | |
| 21,300.00 | 5,629.31 | 5,610.81 | 5,610.81 | 366.35 | 224.48 | -90.903 | 8,395.93 | -11,195.51 | 2,140.64 | 1,751.53 | 389.11 | 5.501 | |
| 21,400.00 | 5,630.20 | 5,611.70 | 5,611.70 | 368.67 | 224.51 | -90.951 | 8,395.93 | -11,195.51 | 2,228.19 | 1,844.57 | 383.62 | 5.808 | |
| 21,500.00 | 5,631.10 | 5,612.60 | 5,612.60 | 370.98 | 224.55 | -90.999 | 8,395.93 | -11,195.51 | 2,316.75 | 1,938.22 | 378.53 | 6.120 | |
| 21,600.00 | 5,631.99 | 5,613.49 | 5,613.49 | 373.29 | 224.58 | -91.048 | 8,395.93 | -11,195.51 | 2,406.20 | 2,032.39 | 373.81 | 6.437 | |
| 21,700.00 | 5,632.88 | 5,614.38 | 5,614.38 | 375.61 | 224.62 | -91.096 | 8,395.93 | -11,195.51 | 2,496.46 | 2,127.03 | 369.43 | 6.758 | |
| 21,800.00 | 5,633.77 | 5,615.27 | 5,615.27 | 377.92 | 224.66 | -91.145 | 8,395.93 | -11,195.51 | 2,587.43 | 2,222.08 | 365.35 | 7.082 | |
| 21,900.00 | 5,634.67 | 5,616.17 | 5,616.17 | 380.23 | 224.69 | -91.193 | 8,395.93 | -11,195.51 | 2,679.04 | 2,317.50 | 361.55 | 7.410 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Lybrook 006 - Orig hole - No surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,500.00 | 5,595.40 | 5,660.90 | 5,660.90 | 278.51 | 226.48 | -83.375 | 9,518.69 | -11,128.59 | 2,682.19 | 2,426.14 | 256.05 | 10.475 | |
| 17,600.00 | 5,596.29 | 5,661.79 | 5,661.79 | 280.82 | 226.52 | -83.620 | 9,518.69 | -11,128.59 | 2,582.50 | 2,326.13 | 256.37 | 10.073 | |
| 17,700.00 | 5,597.18 | 5,662.68 | 5,662.68 | 283.13 | 226.55 | -83.866 | 9,518.69 | -11,128.59 | 2,482.83 | 2,226.12 | 256.71 | 9.672 | |
| 17,800.00 | 5,598.08 | 5,663.58 | 5,663.58 | 285.44 | 226.59 | -84.112 | 9,518.69 | -11,128.59 | 2,383.19 | 2,126.11 | 257.08 | 9.270 | |
| 17,900.00 | 5,598.97 | 5,664.47 | 5,664.47 | 287.75 | 226.62 | -84.359 | 9,518.69 | -11,128.59 | 2,283.58 | 2,026.10 | 257.49 | 8.869 | |
| 18,000.00 | 5,599.86 | 5,665.36 | 5,665.36 | 290.06 | 226.66 | -84.605 | 9,518.69 | -11,128.59 | 2,184.01 | 1,926.09 | 257.92 | 8.468 | |
| 18,100.00 | 5,600.75 | 5,666.25 | 5,666.25 | 292.37 | 226.70 | -84.852 | 9,518.69 | -11,128.59 | 2,084.48 | 1,826.09 | 258.39 | 8.067 | |
| 18,200.00 | 5,601.65 | 5,667.15 | 5,667.15 | 294.68 | 226.73 | -85.099 | 9,518.69 | -11,128.59 | 1,985.00 | 1,726.09 | 258.90 | 7.667 | |
| 18,300.00 | 5,602.54 | 5,668.04 | 5,668.04 | 297.00 | 226.77 | -85.346 | 9,518.69 | -11,128.59 | 1,885.56 | 1,626.10 | 259.47 | 7.267 | |
| 18,400.00 | 5,603.43 | 5,668.93 | 5,668.93 | 299.31 | 226.80 | -85.593 | 9,518.69 | -11,128.59 | 1,786.20 | 1,526.11 | 260.09 | 6.868 | |
| 18,500.00 | 5,604.32 | 5,669.82 | 5,669.82 | 301.62 | 226.84 | -85.841 | 9,518.69 | -11,128.59 | 1,686.90 | 1,426.11 | 260.79 | 6.468 | |
| 18,600.00 | 5,605.22 | 5,670.72 | 5,670.72 | 303.93 | 226.87 | -86.088 | 9,518.69 | -11,128.59 | 1,587.70 | 1,326.13 | 261.57 | 6.070 | |
| 18,700.00 | 5,606.11 | 5,671.61 | 5,671.61 | 306.24 | 226.91 | -86.336 | 9,518.69 | -11,128.59 | 1,488.60 | 1,226.15 | 262.45 | 5.672 | |
| 18,800.00 | 5,607.00 | 5,672.50 | 5,672.50 | 308.55 | 226.95 | -86.584 | 9,518.69 | -11,128.59 | 1,389.63 | 1,126.17 | 263.46 | 5.274 | |
| 18,900.00 | 5,607.89 | 5,673.39 | 5,673.39 | 310.86 | 226.98 | -86.832 | 9,518.69 | -11,128.59 | 1,290.82 | 1,026.19 | 264.63 | 4.878 | |
| 19,000.00 | 5,608.79 | 5,674.29 | 5,674.29 | 313.17 | 227.02 | -87.080 | 9,518.69 | -11,128.59 | 1,192.20 | 926.23 | 265.98 | 4.482 | |
| 19,100.00 | 5,609.68 | 5,675.18 | 5,675.18 | 315.48 | 227.05 | -87.328 | 9,518.69 | -11,128.59 | 1,093.84 | 826.26 | 267.58 | 4.088 | |
| 19,200.00 | 5,610.57 | 5,676.07 | 5,676.07 | 317.80 | 227.09 | -87.577 | 9,518.69 | -11,128.59 | 995.80 | 726.31 | 269.50 | 3.695 | |
| 19,300.00 | 5,611.46 | 5,676.96 | 5,676.96 | 320.11 | 227.12 | -87.825 | 9,518.69 | -11,128.59 | 898.19 | 626.35 | 271.84 | 3.304 | |
| 19,400.00 | 5,612.36 | 5,677.86 | 5,677.86 | 322.42 | 227.16 | -88.074 | 9,518.69 | -11,128.59 | 801.18 | 526.41 | 274.77 | 2.916 | |
| 19,500.00 | 5,613.25 | 5,678.75 | 5,678.75 | 324.73 | 227.20 | -88.322 | 9,518.69 | -11,128.59 | 704.99 | 426.47 | 278.52 | 2.531 | |
| 19,600.00 | 5,614.14 | 5,679.64 | 5,679.64 | 327.04 | 227.23 | -88.571 | 9,518.69 | -11,128.59 | 610.03 | 326.54 | 283.49 | 2.152 | |
| 19,700.00 | 5,615.03 | 5,680.53 | 5,680.53 | 329.36 | 227.27 | -88.820 | 9,518.69 | -11,128.59 | 516.98 | 226.63 | 290.35 | 1.781 | Level 3<2.00 |
| 19,800.00 | 5,615.92 | 5,681.42 | 5,681.42 | 331.67 | 227.30 | -89.068 | 9,518.69 | -11,128.59 | 427.07 | 126.72 | 300.35 | 1.422 | Level 3<2.00 |
| 19,900.00 | 5,616.82 | 5,682.32 | 5,682.32 | 333.98 | 227.34 | -89.317 | 9,518.69 | -11,128.59 | 342.80 | 26.42 | 316.38 | 1.084 | Level 3<2.00 |
| 20,000.00 | 5,617.71 | 5,683.21 | 5,683.21 | 336.29 | 227.37 | -89.566 | 9,518.69 | -11,128.59 | 269.51 | -82.75 | 352.26 | 0.765 | Level 3<2.00 |
| 20,100.00 | 5,618.60 | 5,684.10 | 5,684.10 | 338.60 | 227.41 | -89.815 | 9,518.69 | -11,128.59 | 218.53 | -258.60 | 477.14 | 0.458 | Level 3<2.00 |
| 20,174.41 | 5,619.27 | 5,684.77 | 5,684.77 | 340.32 | 227.44 | -90.000 | 9,518.69 | -11,128.59 | 205.48 | -361.59 | 567.07 | 0.362 | Level 3<2.00, CC, ES, SF |
| 20,200.00 | 5,619.49 | 5,684.99 | 5,684.99 | 340.92 | 227.44 | -90.064 | 9,518.69 | -11,128.59 | 207.06 | -352.60 | 559.67 | 0.370 | Level 3<2.00 |
| 20,300.00 | 5,620.39 | 5,685.89 | 5,685.89 | 343.23 | 227.48 | -90.313 | 9,518.69 | -11,128.59 | 240.81 | -175.23 | 416.04 | 0.579 | Level 3<2.00 |
| 20,400.00 | 5,621.28 | 5,686.78 | 5,686.78 | 345.54 | 227.52 | -90.561 | 9,518.69 | -11,128.59 | 305.13 | -34.28 | 339.42 | 0.899 | Level 3<2.00 |
| 20,500.00 | 5,622.17 | 5,687.67 | 5,687.67 | 347.85 | 227.55 | -90.810 | 9,518.69 | -11,128.59 | 384.99 | 68.80 | 316.19 | 1.218 | Level 3<2.00 |
| 20,600.00 | 5,623.06 | 5,688.56 | 5,688.56 | 350.17 | 227.59 | -91.059 | 9,518.69 | -11,128.59 | 472.58 | 168.63 | 303.95 | 1.555 | Level 3<2.00 |
| 20,700.00 | 5,623.96 | 5,689.46 | 5,689.46 | 352.48 | 227.62 | -91.308 | 9,518.69 | -11,128.59 | 564.31 | 268.40 | 295.91 | 1.907 | Level 3<2.00 |
| 20,800.00 | 5,624.85 | 5,690.35 | 5,690.35 | 354.79 | 227.66 | -91.556 | 9,518.69 | -11,128.59 | 658.45 | 368.17 | 290.27 | 2.268 | |
| 20,900.00 | 5,625.74 | 5,691.24 | 5,691.24 | 357.10 | 227.69 | -91.805 | 9,518.69 | -11,128.59 | 754.09 | 467.96 | 286.14 | 2.635 | |
| 21,000.00 | 5,626.63 | 5,692.13 | 5,692.13 | 359.42 | 227.73 | -92.053 | 9,518.69 | -11,128.59 | 850.74 | 567.74 | 283.00 | 3.006 | |
| 21,100.00 | 5,627.53 | 5,693.03 | 5,693.03 | 361.73 | 227.77 | -92.302 | 9,518.69 | -11,128.59 | 948.09 | 667.54 | 280.55 | 3.379 | |
| 21,200.00 | 5,628.42 | 5,693.92 | 5,693.92 | 364.04 | 227.80 | -92.550 | 9,518.69 | -11,128.59 | 1,045.93 | 767.33 | 278.60 | 3.754 | |
| 21,300.00 | 5,629.31 | 5,694.81 | 5,694.81 | 366.35 | 227.84 | -92.799 | 9,518.69 | -11,128.59 | 1,144.15 | 867.13 | 277.02 | 4.130 | |
| 21,400.00 | 5,630.20 | 5,695.70 | 5,695.70 | 368.67 | 227.87 | -93.047 | 9,518.69 | -11,128.59 | 1,242.65 | 966.94 | 275.71 | 4.507 | |
| 21,500.00 | 5,631.10 | 5,696.60 | 5,696.60 | 370.98 | 227.91 | -93.295 | 9,518.69 | -11,128.59 | 1,341.37 | 1,066.74 | 274.62 | 4.884 | |
| 21,600.00 | 5,631.99 | 5,697.49 | 5,697.49 | 373.29 | 227.94 | -93.543 | 9,518.69 | -11,128.59 | 1,440.27 | 1,166.55 | 273.71 | 5.262 | |
| 21,700.00 | 5,632.88 | 5,698.38 | 5,698.38 | 375.61 | 227.98 | -93.791 | 9,518.69 | -11,128.59 | 1,539.30 | 1,266.37 | 272.94 | 5.640 | |
| 21,800.00 | 5,633.77 | 5,699.27 | 5,699.27 | 377.92 | 228.02 | -94.038 | 9,518.69 | -11,128.59 | 1,638.46 | 1,366.18 | 272.28 | 6.018 | |
| 21,900.00 | 5,634.67 | 5,700.17 | 5,700.17 | 380.23 | 228.05 | -94.286 | 9,518.69 | -11,128.59 | 1,737.71 | 1,465.99 | 271.72 | 6.395 | |
| 22,000.00 | 5,635.56 | 5,701.06 | 5,701.06 | 382.55 | 228.09 | -94.533 | 9,518.69 | -11,128.59 | 1,837.04 | 1,565.82 | 271.23 | 6.773 | |
| 22,100.00 | 5,636.45 | 5,701.95 | 5,701.95 | 384.86 | 228.12 | -94.780 | 9,518.69 | -11,128.59 | 1,936.45 | 1,665.63 | 270.81 | 7.151 | |
| 22,200.00 | 5,637.34 | 5,702.84 | 5,702.84 | 387.17 | 228.16 | -95.027 | 9,518.69 | -11,128.59 | 2,035.90 | 1,765.46 | 270.45 | 7.528 | |
| 22,300.00 | 5,638.24 | 5,703.74 | 5,703.74 | 389.49 | 228.19 | -95.274 | 9,518.69 | -11,128.59 | 2,135.41 | 1,865.28 | 270.13 | 7.905 | |
| 22,400.00 | 5,639.13 | 5,704.63 | 5,704.63 | 391.80 | 228.23 | -95.521 | 9,518.69 | -11,128.59 | 2,234.97 | 1,965.11 | 269.86 | 8.282 | |
| 22,500.00 | 5,640.02 | 5,705.52 | 5,705.52 | 394.11 | 228.27 | -95.767 | 9,518.69 | -11,128.59 | 2,334.56 | 2,064.94 | 269.62 | 8.659 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Lybrook 006 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22,600.00 | 5,640.91 | 5,706.41 | 5,706.41 | 396.43 | 228.30 | -96.014 | 9,518.69 | -11,128.59 | 2,434.18 | 2,164.76 | 269.42 | 9.035 | |
| 22,700.00 | 5,641.80 | 5,707.30 | 5,707.30 | 398.74 | 228.34 | -96.260 | 9,518.69 | -11,128.59 | 2,533.83 | 2,264.59 | 269.25 | 9.411 | |
| 22,800.00 | 5,642.70 | 5,708.20 | 5,708.20 | 401.05 | 228.37 | -96.505 | 9,518.69 | -11,128.59 | 2,633.51 | 2,364.42 | 269.09 | 9.787 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Pre ongard 002 (Lybrook 2-22) - Orig hole - No surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16,200.00 | 5,583.80 | 5,593.30 | 5,593.30 | 248.49 | 223.78 | -85.361 | 8,507.63 | -10,211.31 | 2,627.30 | 2,372.90 | 254.40 | 10.327 | |
| 16,300.00 | 5,584.69 | 5,594.19 | 5,594.19 | 250.80 | 223.81 | -85.538 | 8,507.63 | -10,211.31 | 2,527.93 | 2,273.00 | 254.92 | 9.916 | |
| 16,400.00 | 5,585.58 | 5,595.08 | 5,595.08 | 253.11 | 223.85 | -85.715 | 8,507.63 | -10,211.31 | 2,428.61 | 2,173.11 | 255.49 | 9.506 | |
| 16,500.00 | 5,586.48 | 5,595.98 | 5,595.98 | 255.42 | 223.88 | -85.892 | 8,507.63 | -10,211.31 | 2,329.34 | 2,073.23 | 256.11 | 9.095 | |
| 16,600.00 | 5,587.37 | 5,596.87 | 5,596.87 | 257.73 | 223.92 | -86.069 | 8,507.63 | -10,211.31 | 2,230.14 | 1,973.35 | 256.79 | 8.685 | |
| 16,700.00 | 5,588.26 | 5,597.76 | 5,597.76 | 260.03 | 223.96 | -86.247 | 8,507.63 | -10,211.31 | 2,131.02 | 1,873.48 | 257.54 | 8.274 | |
| 16,800.00 | 5,589.15 | 5,598.65 | 5,598.65 | 262.34 | 223.99 | -86.424 | 8,507.63 | -10,211.31 | 2,031.98 | 1,773.62 | 258.36 | 7.865 | |
| 16,900.00 | 5,590.05 | 5,599.55 | 5,599.55 | 264.65 | 224.03 | -86.601 | 8,507.63 | -10,211.31 | 1,933.04 | 1,673.77 | 259.27 | 7.456 | |
| 17,000.00 | 5,590.94 | 5,600.44 | 5,600.44 | 266.96 | 224.06 | -86.779 | 8,507.63 | -10,211.31 | 1,834.21 | 1,573.93 | 260.29 | 7.047 | |
| 17,100.00 | 5,591.83 | 5,601.33 | 5,601.33 | 269.27 | 224.10 | -86.956 | 8,507.63 | -10,211.31 | 1,735.52 | 1,474.10 | 261.43 | 6.639 | |
| 17,200.00 | 5,592.72 | 5,602.22 | 5,602.22 | 271.58 | 224.13 | -87.134 | 8,507.63 | -10,211.31 | 1,636.99 | 1,374.28 | 262.71 | 6.231 | |
| 17,300.00 | 5,593.61 | 5,603.11 | 5,603.11 | 273.89 | 224.17 | -87.311 | 8,507.63 | -10,211.31 | 1,538.65 | 1,274.47 | 264.18 | 5.824 | |
| 17,400.00 | 5,594.51 | 5,604.01 | 5,604.01 | 276.20 | 224.21 | -87.489 | 8,507.63 | -10,211.31 | 1,440.53 | 1,174.68 | 265.85 | 5.419 | |
| 17,500.00 | 5,595.40 | 5,604.90 | 5,604.90 | 278.51 | 224.24 | -87.667 | 8,507.63 | -10,211.31 | 1,342.69 | 1,074.91 | 267.78 | 5.014 | |
| 17,600.00 | 5,596.29 | 5,605.79 | 5,605.79 | 280.82 | 224.28 | -87.844 | 8,507.63 | -10,211.31 | 1,245.19 | 975.15 | 270.04 | 4.611 | |
| 17,700.00 | 5,597.18 | 5,606.68 | 5,606.68 | 283.13 | 224.31 | -88.022 | 8,507.63 | -10,211.31 | 1,148.12 | 875.42 | 272.71 | 4.210 | |
| 17,800.00 | 5,598.08 | 5,607.58 | 5,607.58 | 285.44 | 224.35 | -88.200 | 8,507.63 | -10,211.31 | 1,051.61 | 775.71 | 275.90 | 3.812 | |
| 17,900.00 | 5,598.97 | 5,608.47 | 5,608.47 | 287.75 | 224.38 | -88.378 | 8,507.63 | -10,211.31 | 955.80 | 676.03 | 279.77 | 3.416 | |
| 18,000.00 | 5,599.86 | 5,609.36 | 5,609.36 | 290.06 | 224.42 | -88.556 | 8,507.63 | -10,211.31 | 860.95 | 576.38 | 284.57 | 3.025 | |
| 18,100.00 | 5,600.75 | 5,610.25 | 5,610.25 | 292.37 | 224.46 | -88.733 | 8,507.63 | -10,211.31 | 767.41 | 476.77 | 290.64 | 2.640 | |
| 18,200.00 | 5,601.65 | 5,611.15 | 5,611.15 | 294.68 | 224.49 | -88.911 | 8,507.63 | -10,211.31 | 675.72 | 377.22 | 298.51 | 2.264 | |
| 18,300.00 | 5,602.54 | 5,612.04 | 5,612.04 | 297.00 | 224.53 | -89.089 | 8,507.63 | -10,211.31 | 586.75 | 277.72 | 309.03 | 1.899 | Level 3<2.00 |
| 18,400.00 | 5,603.43 | 5,612.93 | 5,612.93 | 299.31 | 224.56 | -89.267 | 8,507.63 | -10,211.31 | 501.95 | 178.31 | 323.65 | 1.551 | Level 3<2.00 |
| 18,500.00 | 5,604.32 | 5,613.82 | 5,613.82 | 301.62 | 224.60 | -89.445 | 8,507.63 | -10,211.31 | 423.83 | 79.00 | 344.83 | 1.229 | Level 3<2.00 |
| 18,600.00 | 5,605.22 | 5,614.72 | 5,614.72 | 303.93 | 224.63 | -89.623 | 8,507.63 | -10,211.31 | 356.80 | -25.23 | 382.03 | 0.934 | Level 3<2.00 |
| 18,700.00 | 5,606.11 | 5,615.61 | 5,615.61 | 306.24 | 224.67 | -89.801 | 8,507.63 | -10,211.31 | 308.18 | -150.10 | 458.28 | 0.672 | Level 3<2.00 |
| 18,800.00 | 5,607.00 | 5,616.50 | 5,616.50 | 308.55 | 224.71 | -89.979 | 8,507.63 | -10,211.31 | 287.48 | -243.21 | 530.69 | 0.542 | Level 3<2.00 |
| 18,811.66 | 5,607.10 | 5,616.60 | 5,616.60 | 308.82 | 224.71 | -90.000 | 8,507.63 | -10,211.31 | 287.24 | -245.66 | 532.91 | 0.539 | Level 3<2.00, CC, ES, SF |
| 18,900.00 | 5,607.89 | 5,617.39 | 5,617.39 | 310.86 | 224.74 | -90.157 | 8,507.63 | -10,211.31 | 300.52 | -194.82 | 495.35 | 0.607 | Level 3<2.00 |
| 19,000.00 | 5,608.79 | 5,618.29 | 5,618.29 | 313.17 | 224.78 | -90.335 | 8,507.63 | -10,211.31 | 343.48 | -69.66 | 413.14 | 0.831 | Level 3<2.00 |
| 19,100.00 | 5,609.68 | 5,619.18 | 5,619.18 | 315.48 | 224.81 | -90.513 | 8,507.63 | -10,211.31 | 407.00 | 42.00 | 364.99 | 1.115 | Level 3<2.00 |
| 19,200.00 | 5,610.57 | 5,620.07 | 5,620.07 | 317.80 | 224.85 | -90.691 | 8,507.63 | -10,211.31 | 483.02 | 141.68 | 341.34 | 1.415 | Level 3<2.00 |
| 19,300.00 | 5,611.46 | 5,620.96 | 5,620.96 | 320.11 | 224.88 | -90.869 | 8,507.63 | -10,211.31 | 566.54 | 240.98 | 325.56 | 1.740 | Level 3<2.00 |
| 19,400.00 | 5,612.36 | 5,621.86 | 5,621.86 | 322.42 | 224.92 | -91.047 | 8,507.63 | -10,211.31 | 654.70 | 340.38 | 314.32 | 2.083 | |
| 19,500.00 | 5,613.25 | 5,622.75 | 5,622.75 | 324.73 | 224.96 | -91.225 | 8,507.63 | -10,211.31 | 745.85 | 439.83 | 306.02 | 2.437 | |
| 19,600.00 | 5,614.14 | 5,623.64 | 5,623.64 | 327.04 | 224.99 | -91.403 | 8,507.63 | -10,211.31 | 839.02 | 539.33 | 299.68 | 2.800 | |
| 19,700.00 | 5,615.03 | 5,624.53 | 5,624.53 | 329.36 | 225.03 | -91.581 | 8,507.63 | -10,211.31 | 933.60 | 638.88 | 294.72 | 3.168 | |
| 19,800.00 | 5,615.92 | 5,625.42 | 5,625.42 | 331.67 | 225.06 | -91.759 | 8,507.63 | -10,211.31 | 1,029.20 | 738.45 | 290.75 | 3.540 | |
| 19,900.00 | 5,616.82 | 5,626.32 | 5,626.32 | 333.98 | 225.10 | -91.937 | 8,507.63 | -10,211.31 | 1,125.57 | 838.06 | 287.51 | 3.915 | |
| 20,000.00 | 5,617.71 | 5,627.21 | 5,627.21 | 336.29 | 225.13 | -92.114 | 8,507.63 | -10,211.31 | 1,222.52 | 937.69 | 284.84 | 4.292 | |
| 20,100.00 | 5,618.60 | 5,628.10 | 5,628.10 | 338.60 | 225.17 | -92.292 | 8,507.63 | -10,211.31 | 1,319.93 | 1,037.33 | 282.59 | 4.671 | |
| 20,200.00 | 5,619.49 | 5,628.99 | 5,628.99 | 340.92 | 225.20 | -92.470 | 8,507.63 | -10,211.31 | 1,417.69 | 1,137.00 | 280.70 | 5.051 | |
| 20,300.00 | 5,620.39 | 5,629.89 | 5,629.89 | 343.23 | 225.24 | -92.647 | 8,507.63 | -10,211.31 | 1,515.75 | 1,236.67 | 279.08 | 5.431 | |
| 20,400.00 | 5,621.28 | 5,630.78 | 5,630.78 | 345.54 | 225.28 | -92.825 | 8,507.63 | -10,211.31 | 1,614.05 | 1,336.37 | 277.68 | 5.813 | |
| 20,500.00 | 5,622.17 | 5,631.67 | 5,631.67 | 347.85 | 225.31 | -93.002 | 8,507.63 | -10,211.31 | 1,712.54 | 1,436.07 | 276.47 | 6.194 | |
| 20,600.00 | 5,623.06 | 5,632.56 | 5,632.56 | 350.17 | 225.35 | -93.180 | 8,507.63 | -10,211.31 | 1,811.20 | 1,535.78 | 275.41 | 6.576 | |
| 20,700.00 | 5,623.96 | 5,633.46 | 5,633.46 | 352.48 | 225.38 | -93.357 | 8,507.63 | -10,211.31 | 1,909.99 | 1,635.51 | 274.49 | 6.958 | |
| 20,800.00 | 5,624.85 | 5,634.35 | 5,634.35 | 354.79 | 225.42 | -93.535 | 8,507.63 | -10,211.31 | 2,008.91 | 1,735.24 | 273.67 | 7.341 | |
| 20,900.00 | 5,625.74 | 5,635.24 | 5,635.24 | 357.10 | 225.45 | -93.712 | 8,507.63 | -10,211.31 | 2,107.92 | 1,834.97 | 272.95 | 7.723 | |
| 21,000.00 | 5,626.63 | 5,636.13 | 5,636.13 | 359.42 | 225.49 | -93.889 | 8,507.63 | -10,211.31 | 2,207.03 | 1,934.72 | 272.31 | 8.105 | |
| 21,100.00 | 5,627.53 | 5,637.03 | 5,637.03 | 361.73 | 225.53 | -94.066 | 8,507.63 | -10,211.31 | 2,306.21 | 2,034.47 | 271.75 | 8.487 | |
| 21,200.00 | 5,628.42 | 5,637.92 | 5,637.92 | 364.04 | 225.56 | -94.243 | 8,507.63 | -10,211.31 | 2,405.46 | 2,134.23 | 271.23 | 8.869 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Pre ongard 002 (Lybrook 2-22) - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21,300.00 | 5,629.31 | 5,638.81 | 5,638.81 | 366.35 | 225.60 | -94.420 | 8,507.63 | -10,211.31 | 2,504.77 | 2,233.99 | 270.78 | 9.250 | |
| 21,400.00 | 5,630.20 | 5,639.70 | 5,639.70 | 368.67 | 225.63 | -94.597 | 8,507.63 | -10,211.31 | 2,604.13 | 2,333.75 | 270.38 | 9.631 | |
| 21,500.00 | 5,631.10 | 5,640.60 | 5,640.60 | 370.98 | 225.67 | -94.774 | 8,507.63 | -10,211.31 | 2,703.54 | 2,433.52 | 270.02 | 10.013 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 22 T24N R07W - Stephenson 001 - Orig hole - No surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN — **Rule Assigned:** — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21,100.00 | 5,627.53 | 6,029.03 | 6,029.03 | 361.73 | 241.21 | -88.809 | 11,269.22 | -14,122.46 | 2,654.04 | 2,294.19 | 359.86 | 7.375 | |
| 21,200.00 | 5,628.42 | 6,029.92 | 6,029.92 | 364.04 | 241.24 | -88.857 | 11,269.22 | -14,122.46 | 2,562.45 | 2,197.55 | 364.90 | 7.022 | |
| 21,300.00 | 5,629.31 | 6,030.81 | 6,030.81 | 366.35 | 241.28 | -88.906 | 11,269.22 | -14,122.46 | 2,471.51 | 2,101.19 | 370.32 | 6.674 | |
| 21,400.00 | 5,630.20 | 6,031.70 | 6,031.70 | 368.67 | 241.31 | -88.955 | 11,269.22 | -14,122.46 | 2,381.30 | 2,005.14 | 376.16 | 6.331 | |
| 21,500.00 | 5,631.10 | 6,032.60 | 6,032.60 | 370.98 | 241.35 | -89.004 | 11,269.22 | -14,122.46 | 2,291.90 | 1,909.44 | 382.47 | 5.992 | |
| 21,600.00 | 5,631.99 | 6,033.49 | 6,033.49 | 373.29 | 241.38 | -89.053 | 11,269.22 | -14,122.46 | 2,203.41 | 1,814.13 | 389.28 | 5.660 | |
| 21,700.00 | 5,632.88 | 6,034.38 | 6,034.38 | 375.61 | 241.42 | -89.102 | 11,269.22 | -14,122.46 | 2,115.95 | 1,719.28 | 396.67 | 5.334 | |
| 21,800.00 | 5,633.77 | 6,035.27 | 6,035.27 | 377.92 | 241.46 | -89.150 | 11,269.22 | -14,122.46 | 2,029.64 | 1,624.95 | 404.69 | 5.015 | |
| 21,900.00 | 5,634.67 | 6,036.17 | 6,036.17 | 380.23 | 241.49 | -89.199 | 11,269.22 | -14,122.46 | 1,944.65 | 1,531.23 | 413.41 | 4.704 | |
| 22,000.00 | 5,635.56 | 6,037.06 | 6,037.06 | 382.55 | 241.53 | -89.248 | 11,269.22 | -14,122.46 | 1,861.15 | 1,438.22 | 422.92 | 4.401 | |
| 22,100.00 | 5,636.45 | 6,037.95 | 6,037.95 | 384.86 | 241.56 | -89.297 | 11,269.22 | -14,122.46 | 1,779.35 | 1,346.04 | 433.30 | 4.106 | |
| 22,200.00 | 5,637.34 | 6,038.84 | 6,038.84 | 387.17 | 241.60 | -89.346 | 11,269.22 | -14,122.46 | 1,699.49 | 1,254.86 | 444.64 | 3.822 | |
| 22,300.00 | 5,638.24 | 6,039.74 | 6,039.74 | 389.49 | 241.63 | -89.395 | 11,269.22 | -14,122.46 | 1,621.88 | 1,164.84 | 457.03 | 3.549 | |
| 22,400.00 | 5,639.13 | 6,040.63 | 6,040.63 | 391.80 | 241.67 | -89.444 | 11,269.22 | -14,122.46 | 1,546.83 | 1,076.25 | 470.58 | 3.287 | |
| 22,500.00 | 5,640.02 | 6,041.52 | 6,041.52 | 394.11 | 241.71 | -89.492 | 11,269.22 | -14,122.46 | 1,474.75 | 989.38 | 485.36 | 3.038 | |
| 22,600.00 | 5,640.91 | 6,042.41 | 6,042.41 | 396.43 | 241.74 | -89.541 | 11,269.22 | -14,122.46 | 1,406.09 | 904.63 | 501.45 | 2.804 | |
| 22,700.00 | 5,641.80 | 6,043.30 | 6,043.30 | 398.74 | 241.78 | -89.590 | 11,269.22 | -14,122.46 | 1,341.37 | 822.51 | 518.86 | 2.585 | |
| 22,800.00 | 5,642.70 | 6,044.20 | 6,044.20 | 401.05 | 241.81 | -89.639 | 11,269.22 | -14,122.46 | 1,281.20 | 743.65 | 537.54 | 2.383 | |
| 22,900.00 | 5,643.59 | 6,045.09 | 6,045.09 | 403.37 | 241.85 | -89.688 | 11,269.22 | -14,122.46 | 1,226.24 | 668.93 | 557.30 | 2.200 | |
| 23,000.00 | 5,644.48 | 6,045.98 | 6,045.98 | 405.68 | 241.88 | -89.737 | 11,269.22 | -14,122.46 | 1,177.22 | 599.44 | 577.78 | 2.037 | |
| 23,100.00 | 5,645.37 | 6,046.87 | 6,046.87 | 407.99 | 241.92 | -89.785 | 11,269.22 | -14,122.46 | 1,134.92 | 536.58 | 598.34 | 1.897 | Level 3<2.00 |
| 23,200.00 | 5,646.27 | 6,047.77 | 6,047.77 | 410.31 | 241.96 | -89.834 | 11,269.22 | -14,122.46 | 1,100.10 | 482.07 | 618.03 | 1.780 | Level 3<2.00 |
| 23,300.00 | 5,647.16 | 6,048.66 | 6,048.66 | 412.62 | 241.99 | -89.883 | 11,269.22 | -14,122.46 | 1,073.50 | 437.93 | 635.58 | 1.689 | Level 3<2.00 |
| 23,400.00 | 5,648.05 | 6,049.55 | 6,049.55 | 414.93 | 242.03 | -89.932 | 11,269.22 | -14,122.46 | 1,055.75 | 406.27 | 649.47 | 1.626 | Level 3<2.00 |
| 23,500.00 | 5,648.94 | 6,050.44 | 6,050.44 | 417.25 | 242.06 | -89.981 | 11,269.22 | -14,122.46 | 1,047.27 | 388.98 | 658.29 | 1.591 | Level 3<2.00 |
| 23,539.09 | 5,649.29 | 6,050.79 | 6,050.79 | 418.15 | 242.08 | -90.000 | 11,269.22 | -14,122.46 | 1,046.54 | 386.42 | 660.13 | 1.585 | Level 3<2.00, CC, ES, SF |
| 23,600.00 | 5,649.84 | 6,051.34 | 6,051.34 | 419.56 | 242.10 | -90.030 | 11,269.22 | -14,122.46 | 1,048.31 | 387.24 | 661.08 | 1.586 | Level 3<2.00 |
| 23,700.00 | 5,650.73 | 6,052.23 | 6,052.23 | 421.88 | 242.13 | -90.079 | 11,269.22 | -14,122.46 | 1,058.84 | 401.16 | 657.68 | 1.610 | Level 3<2.00 |
| 23,800.00 | 5,651.62 | 6,053.12 | 6,053.12 | 424.19 | 242.17 | -90.127 | 11,269.22 | -14,122.46 | 1,078.57 | 429.78 | 648.79 | 1.662 | Level 3<2.00 |
| 23,900.00 | 5,652.51 | 6,054.01 | 6,054.01 | 426.50 | 242.21 | -90.176 | 11,269.22 | -14,122.46 | 1,107.02 | 471.33 | 635.69 | 1.741 | Level 3<2.00 |
| 24,000.00 | 5,653.41 | 6,054.91 | 6,054.91 | 428.82 | 242.24 | -90.225 | 11,269.22 | -14,122.46 | 1,143.53 | 523.70 | 619.83 | 1.845 | Level 3<2.00 |
| 24,100.00 | 5,654.30 | 6,055.80 | 6,055.80 | 431.13 | 242.28 | -90.274 | 11,269.22 | -14,122.46 | 1,187.37 | 584.84 | 602.53 | 1.971 | Level 3<2.00 |
| 24,200.00 | 5,655.19 | 6,056.69 | 6,056.69 | 433.45 | 242.31 | -90.323 | 11,269.22 | -14,122.46 | 1,237.75 | 652.95 | 584.80 | 2.117 | |
| 24,300.00 | 5,656.08 | 6,057.58 | 6,057.58 | 435.76 | 242.35 | -90.372 | 11,269.22 | -14,122.46 | 1,293.90 | 726.56 | 567.34 | 2.281 | |
| 24,400.00 | 5,656.98 | 6,058.48 | 6,058.48 | 438.07 | 242.38 | -90.421 | 11,269.22 | -14,122.46 | 1,355.12 | 804.52 | 550.60 | 2.461 | |
| 24,500.00 | 5,657.87 | 6,059.37 | 6,059.37 | 440.39 | 242.42 | -90.469 | 11,269.22 | -14,122.46 | 1,420.75 | 885.91 | 534.83 | 2.656 | |
| 24,600.00 | 5,658.76 | 6,060.00 | 6,060.00 | 442.70 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,490.20 | 970.07 | 520.13 | 2.865 | |
| 24,700.00 | 5,659.65 | 6,060.00 | 6,060.00 | 445.02 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,562.96 | 1,056.46 | 506.50 | 3.086 | |
| 24,800.00 | 5,660.55 | 6,060.00 | 6,060.00 | 447.33 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,638.60 | 1,144.66 | 493.94 | 3.317 | |
| 24,900.00 | 5,661.44 | 6,060.00 | 6,060.00 | 449.64 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,716.74 | 1,234.33 | 482.40 | 3.559 | |
| 25,000.00 | 5,662.33 | 6,060.00 | 6,060.00 | 451.96 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,797.04 | 1,325.23 | 471.81 | 3.809 | |
| 25,100.00 | 5,663.22 | 6,060.00 | 6,060.00 | 454.27 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,879.23 | 1,417.15 | 462.08 | 4.067 | |
| 25,187.11 | 5,664.00 | 6,060.00 | 6,060.00 | 456.29 | 242.44 | -90.504 | 11,269.22 | -14,122.46 | 1,952.18 | 1,497.93 | 454.25 | 4.298 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Byrd 005 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12,800.00 | 5,553.46 | 5,496.96 | 5,496.96 | 170.14 | 219.92 | 89.238 | 7,167.09 | -6,266.94 | 2,713.66 | 2,394.56 | 319.10 | 8.504 | |
| 12,900.00 | 5,554.35 | 5,497.85 | 5,497.85 | 172.44 | 219.96 | 89.271 | 7,167.09 | -6,266.94 | 2,631.20 | 2,308.10 | 323.10 | 8.144 | |
| 13,000.00 | 5,555.24 | 5,498.74 | 5,498.74 | 174.74 | 219.99 | 89.305 | 7,167.09 | -6,266.94 | 2,549.99 | 2,222.66 | 327.33 | 7.790 | |
| 13,100.00 | 5,556.13 | 5,499.63 | 5,499.63 | 177.04 | 220.03 | 89.339 | 7,167.09 | -6,266.94 | 2,470.17 | 2,138.36 | 331.80 | 7.445 | |
| 13,200.00 | 5,557.03 | 5,500.53 | 5,500.53 | 179.34 | 220.07 | 89.373 | 7,167.09 | -6,266.94 | 2,391.86 | 2,055.34 | 336.52 | 7.108 | |
| 13,300.00 | 5,557.92 | 5,501.42 | 5,501.42 | 181.64 | 220.10 | 89.407 | 7,167.09 | -6,266.94 | 2,315.22 | 1,973.71 | 341.51 | 6.779 | |
| 13,400.00 | 5,558.81 | 5,502.31 | 5,502.31 | 183.94 | 220.14 | 89.441 | 7,167.09 | -6,266.94 | 2,240.42 | 1,893.67 | 346.76 | 6.461 | |
| 13,500.00 | 5,559.70 | 5,503.20 | 5,503.20 | 186.24 | 220.17 | 89.474 | 7,167.09 | -6,266.94 | 2,167.66 | 1,815.38 | 352.28 | 6.153 | |
| 13,600.00 | 5,560.60 | 5,504.10 | 5,504.10 | 188.54 | 220.21 | 89.508 | 7,167.09 | -6,266.94 | 2,097.14 | 1,739.05 | 358.09 | 5.856 | |
| 13,700.00 | 5,561.49 | 5,504.99 | 5,504.99 | 190.85 | 220.24 | 89.542 | 7,167.09 | -6,266.94 | 2,029.10 | 1,664.94 | 364.16 | 5.572 | |
| 13,800.00 | 5,562.38 | 5,505.88 | 5,505.88 | 193.15 | 220.28 | 89.576 | 7,167.09 | -6,266.94 | 1,963.80 | 1,593.31 | 370.49 | 5.301 | |
| 13,900.00 | 5,563.27 | 5,506.77 | 5,506.77 | 195.45 | 220.32 | 89.610 | 7,167.09 | -6,266.94 | 1,901.51 | 1,524.46 | 377.05 | 5.043 | |
| 14,000.00 | 5,564.17 | 5,507.67 | 5,507.67 | 197.75 | 220.35 | 89.643 | 7,167.09 | -6,266.94 | 1,842.55 | 1,458.74 | 383.81 | 4.801 | |
| 14,100.00 | 5,565.06 | 5,508.56 | 5,508.56 | 200.06 | 220.39 | 89.677 | 7,167.09 | -6,266.94 | 1,787.24 | 1,396.52 | 390.72 | 4.574 | |
| 14,200.00 | 5,565.95 | 5,509.45 | 5,509.45 | 202.36 | 220.42 | 89.711 | 7,167.09 | -6,266.94 | 1,735.93 | 1,338.24 | 397.70 | 4.365 | |
| 14,300.00 | 5,566.84 | 5,510.34 | 5,510.34 | 204.67 | 220.46 | 89.745 | 7,167.09 | -6,266.94 | 1,689.00 | 1,284.33 | 404.66 | 4.174 | |
| 14,400.00 | 5,567.73 | 5,511.23 | 5,511.23 | 206.97 | 220.49 | 89.779 | 7,167.09 | -6,266.94 | 1,646.80 | 1,235.30 | 411.50 | 4.002 | |
| 14,500.00 | 5,568.63 | 5,512.13 | 5,512.13 | 209.28 | 220.53 | 89.813 | 7,167.09 | -6,266.94 | 1,609.72 | 1,191.65 | 418.07 | 3.850 | |
| 14,600.00 | 5,569.52 | 5,513.02 | 5,513.02 | 211.58 | 220.57 | 89.846 | 7,167.09 | -6,266.94 | 1,578.11 | 1,153.89 | 424.22 | 3.720 | |
| 14,700.00 | 5,570.41 | 5,513.91 | 5,513.91 | 213.89 | 220.60 | 89.880 | 7,167.09 | -6,266.94 | 1,552.31 | 1,122.51 | 429.80 | 3.612 | |
| 14,800.00 | 5,571.30 | 5,514.80 | 5,514.80 | 216.19 | 220.64 | 89.914 | 7,167.09 | -6,266.94 | 1,532.61 | 1,097.98 | 434.63 | 3.526 | |
| 14,900.00 | 5,572.20 | 5,515.70 | 5,515.70 | 218.50 | 220.67 | 89.948 | 7,167.09 | -6,266.94 | 1,519.25 | 1,080.67 | 438.57 | 3.464 | |
| 15,000.00 | 5,573.09 | 5,516.59 | 5,516.59 | 220.80 | 220.71 | 89.982 | 7,167.09 | -6,266.94 | 1,512.40 | 1,070.89 | 441.51 | 3.426 | |
| 15,053.87 | 5,573.57 | 5,517.07 | 5,517.07 | 222.05 | 220.73 | 90.000 | 7,167.09 | -6,266.94 | 1,511.44 | 1,068.80 | 442.64 | 3.415 CC | |
| 15,100.00 | 5,573.98 | 5,517.48 | 5,517.48 | 223.11 | 220.74 | 90.016 | 7,167.09 | -6,266.94 | 1,512.14 | 1,068.79 | 443.35 | 3.411 ES, SF | |
| 15,200.00 | 5,574.87 | 5,518.37 | 5,518.37 | 225.42 | 220.78 | 90.049 | 7,167.09 | -6,266.94 | 1,518.48 | 1,074.42 | 444.07 | 3.420 | |
| 15,300.00 | 5,575.77 | 5,519.27 | 5,519.27 | 227.72 | 220.82 | 90.083 | 7,167.09 | -6,266.94 | 1,531.35 | 1,087.68 | 443.67 | 3.452 | |
| 15,400.00 | 5,576.66 | 5,520.16 | 5,520.16 | 230.03 | 220.85 | 90.117 | 7,167.09 | -6,266.94 | 1,550.56 | 1,108.33 | 442.23 | 3.506 | |
| 15,500.00 | 5,577.55 | 5,521.05 | 5,521.05 | 232.34 | 220.89 | 90.151 | 7,167.09 | -6,266.94 | 1,575.90 | 1,136.04 | 439.86 | 3.583 | |
| 15,600.00 | 5,578.44 | 5,521.94 | 5,521.94 | 234.64 | 220.92 | 90.185 | 7,167.09 | -6,266.94 | 1,607.07 | 1,170.39 | 436.68 | 3.680 | |
| 15,700.00 | 5,579.34 | 5,522.84 | 5,522.84 | 236.95 | 220.96 | 90.219 | 7,167.09 | -6,266.94 | 1,643.75 | 1,210.89 | 432.85 | 3.797 | |
| 15,800.00 | 5,580.23 | 5,523.73 | 5,523.73 | 239.26 | 220.99 | 90.252 | 7,167.09 | -6,266.94 | 1,685.56 | 1,257.05 | 428.51 | 3.934 | |
| 15,900.00 | 5,581.12 | 5,524.62 | 5,524.62 | 241.57 | 221.03 | 90.286 | 7,167.09 | -6,266.94 | 1,732.15 | 1,308.35 | 423.79 | 4.087 | |
| 16,000.00 | 5,582.01 | 5,525.51 | 5,525.51 | 243.87 | 221.07 | 90.320 | 7,167.09 | -6,266.94 | 1,783.13 | 1,364.29 | 418.84 | 4.257 | |
| 16,100.00 | 5,582.91 | 5,526.41 | 5,526.41 | 246.18 | 221.10 | 90.354 | 7,167.09 | -6,266.94 | 1,838.14 | 1,424.40 | 413.74 | 4.443 | |
| 16,200.00 | 5,583.80 | 5,527.30 | 5,527.30 | 248.49 | 221.14 | 90.388 | 7,167.09 | -6,266.94 | 1,896.83 | 1,488.23 | 408.60 | 4.642 | |
| 16,300.00 | 5,584.69 | 5,528.19 | 5,528.19 | 250.80 | 221.17 | 90.422 | 7,167.09 | -6,266.94 | 1,958.87 | 1,555.39 | 403.48 | 4.855 | |
| 16,400.00 | 5,585.58 | 5,529.08 | 5,529.08 | 253.11 | 221.21 | 90.455 | 7,167.09 | -6,266.94 | 2,023.95 | 1,625.51 | 398.44 | 5.080 | |
| 16,500.00 | 5,586.48 | 5,529.98 | 5,529.98 | 255.42 | 221.24 | 90.489 | 7,167.09 | -6,266.94 | 2,091.79 | 1,698.26 | 393.52 | 5.316 | |
| 16,600.00 | 5,587.37 | 5,530.87 | 5,530.87 | 257.73 | 221.28 | 90.523 | 7,167.09 | -6,266.94 | 2,162.12 | 1,773.37 | 388.75 | 5.562 | |
| 16,700.00 | 5,588.26 | 5,531.76 | 5,531.76 | 260.03 | 221.32 | 90.557 | 7,167.09 | -6,266.94 | 2,234.72 | 1,850.57 | 384.15 | 5.817 | |
| 16,800.00 | 5,589.15 | 5,532.65 | 5,532.65 | 262.34 | 221.35 | 90.591 | 7,167.09 | -6,266.94 | 2,309.37 | 1,929.64 | 379.73 | 6.082 | |
| 16,900.00 | 5,590.05 | 5,533.55 | 5,533.55 | 264.65 | 221.39 | 90.624 | 7,167.09 | -6,266.94 | 2,385.87 | 2,010.38 | 375.49 | 6.354 | |
| 17,000.00 | 5,590.94 | 5,534.44 | 5,534.44 | 266.96 | 221.42 | 90.658 | 7,167.09 | -6,266.94 | 2,464.06 | 2,092.61 | 371.45 | 6.634 | |
| 17,100.00 | 5,591.83 | 5,535.33 | 5,535.33 | 269.27 | 221.46 | 90.692 | 7,167.09 | -6,266.94 | 2,543.77 | 2,176.18 | 367.59 | 6.920 | |
| 17,200.00 | 5,592.72 | 5,536.22 | 5,536.22 | 271.58 | 221.49 | 90.726 | 7,167.09 | -6,266.94 | 2,624.87 | 2,260.95 | 363.92 | 7.213 | |
| 17,300.00 | 5,593.61 | 5,537.11 | 5,537.11 | 273.89 | 221.53 | 90.760 | 7,167.09 | -6,266.94 | 2,707.24 | 2,346.82 | 360.42 | 7.511 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Pre ongard 002 (Love 23) - Orig hole - No surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,000.00 | 5,573.09 | 5,549.59 | 5,549.59 | 220.80 | 222.03 | 87.462 | 8,217.25 | -8,762.52 | 2,624.12 | 2,352.09 | 272.03 | 9.646 | |
| 15,100.00 | 5,573.98 | 5,550.48 | 5,550.48 | 223.11 | 222.06 | 87.560 | 8,217.25 | -8,762.52 | 2,526.17 | 2,252.65 | 273.52 | 9.236 | |
| 15,200.00 | 5,574.87 | 5,551.37 | 5,551.37 | 225.42 | 222.10 | 87.659 | 8,217.25 | -8,762.52 | 2,428.38 | 2,153.26 | 275.12 | 8.827 | |
| 15,300.00 | 5,575.77 | 5,552.27 | 5,552.27 | 227.72 | 222.14 | 87.757 | 8,217.25 | -8,762.52 | 2,330.79 | 2,053.92 | 276.86 | 8.419 | |
| 15,400.00 | 5,576.66 | 5,553.16 | 5,553.16 | 230.03 | 222.17 | 87.856 | 8,217.25 | -8,762.52 | 2,233.40 | 1,954.64 | 278.76 | 8.012 | |
| 15,500.00 | 5,577.55 | 5,554.05 | 5,554.05 | 232.34 | 222.21 | 87.955 | 8,217.25 | -8,762.52 | 2,136.26 | 1,855.42 | 280.84 | 7.607 | |
| 15,600.00 | 5,578.44 | 5,554.94 | 5,554.94 | 234.64 | 222.24 | 88.053 | 8,217.25 | -8,762.52 | 2,039.39 | 1,756.26 | 283.12 | 7.203 | |
| 15,700.00 | 5,579.34 | 5,555.84 | 5,555.84 | 236.95 | 222.28 | 88.152 | 8,217.25 | -8,762.52 | 1,942.83 | 1,657.20 | 285.64 | 6.802 | |
| 15,800.00 | 5,580.23 | 5,556.73 | 5,556.73 | 239.26 | 222.31 | 88.250 | 8,217.25 | -8,762.52 | 1,846.65 | 1,558.22 | 288.42 | 6.403 | |
| 15,900.00 | 5,581.12 | 5,557.62 | 5,557.62 | 241.57 | 222.35 | 88.349 | 8,217.25 | -8,762.52 | 1,750.89 | 1,459.36 | 291.53 | 6.006 | |
| 16,000.00 | 5,582.01 | 5,558.51 | 5,558.51 | 243.87 | 222.39 | 88.448 | 8,217.25 | -8,762.52 | 1,655.63 | 1,360.64 | 294.99 | 5.612 | |
| 16,100.00 | 5,582.91 | 5,559.41 | 5,559.41 | 246.18 | 222.42 | 88.546 | 8,217.25 | -8,762.52 | 1,560.97 | 1,262.06 | 298.91 | 5.222 | |
| 16,200.00 | 5,583.80 | 5,560.30 | 5,560.30 | 248.49 | 222.46 | 88.645 | 8,217.25 | -8,762.52 | 1,467.01 | 1,163.67 | 303.34 | 4.836 | |
| 16,300.00 | 5,584.69 | 5,561.19 | 5,561.19 | 250.80 | 222.49 | 88.744 | 8,217.25 | -8,762.52 | 1,373.90 | 1,065.51 | 308.39 | 4.455 | |
| 16,400.00 | 5,585.58 | 5,562.08 | 5,562.08 | 253.11 | 222.53 | 88.842 | 8,217.25 | -8,762.52 | 1,281.84 | 967.63 | 314.21 | 4.080 | |
| 16,500.00 | 5,586.48 | 5,562.98 | 5,562.98 | 255.42 | 222.56 | 88.941 | 8,217.25 | -8,762.52 | 1,191.05 | 870.10 | 320.95 | 3.711 | |
| 16,600.00 | 5,587.37 | 5,563.87 | 5,563.87 | 257.73 | 222.60 | 89.040 | 8,217.25 | -8,762.52 | 1,101.86 | 773.02 | 328.84 | 3.351 | |
| 16,700.00 | 5,588.26 | 5,564.76 | 5,564.76 | 260.03 | 222.64 | 89.139 | 8,217.25 | -8,762.52 | 1,014.69 | 676.53 | 338.15 | 3.001 | |
| 16,800.00 | 5,589.15 | 5,565.65 | 5,565.65 | 262.34 | 222.67 | 89.237 | 8,217.25 | -8,762.52 | 930.10 | 580.85 | 349.25 | 2.663 | |
| 16,900.00 | 5,590.05 | 5,566.55 | 5,566.55 | 264.65 | 222.71 | 89.336 | 8,217.25 | -8,762.52 | 848.86 | 486.28 | 362.58 | 2.341 | |
| 17,000.00 | 5,590.94 | 5,567.44 | 5,567.44 | 266.96 | 222.74 | 89.435 | 8,217.25 | -8,762.52 | 772.04 | 393.34 | 378.71 | 2.039 | |
| 17,100.00 | 5,591.83 | 5,568.33 | 5,568.33 | 269.27 | 222.78 | 89.533 | 8,217.25 | -8,762.52 | 701.10 | 302.87 | 398.23 | 1.761 | Level 3<2.00 |
| 17,200.00 | 5,592.72 | 5,569.22 | 5,569.22 | 271.58 | 222.81 | 89.632 | 8,217.25 | -8,762.52 | 637.98 | 216.38 | 421.60 | 1.513 | Level 3<2.00 |
| 17,300.00 | 5,593.61 | 5,570.11 | 5,570.11 | 273.89 | 222.85 | 89.731 | 8,217.25 | -8,762.52 | 585.24 | 136.75 | 448.48 | 1.305 | Level 3<2.00 |
| 17,400.00 | 5,594.51 | 5,571.01 | 5,571.01 | 276.20 | 222.89 | 89.830 | 8,217.25 | -8,762.52 | 545.88 | 69.61 | 476.27 | 1.146 | Level 3<2.00 |
| 17,500.00 | 5,595.40 | 5,571.90 | 5,571.90 | 278.51 | 222.92 | 89.928 | 8,217.25 | -8,762.52 | 522.94 | 25.26 | 497.68 | 1.051 | Level 3<2.00 |
| 17,572.61 | 5,596.05 | 5,572.55 | 5,572.55 | 280.19 | 222.95 | 90.000 | 8,217.25 | -8,762.52 | 517.87 | 14.96 | 502.91 | 1.030 | Level 3<2.00, CC, ES, SF |
| 17,600.00 | 5,596.29 | 5,572.79 | 5,572.79 | 280.82 | 222.96 | 90.027 | 8,217.25 | -8,762.52 | 518.59 | 16.67 | 501.92 | 1.033 | Level 3<2.00 |
| 17,700.00 | 5,597.18 | 5,573.68 | 5,573.68 | 283.13 | 222.99 | 90.126 | 8,217.25 | -8,762.52 | 533.31 | 47.22 | 486.08 | 1.097 | Level 3<2.00 |
| 17,800.00 | 5,598.08 | 5,574.58 | 5,574.58 | 285.44 | 223.03 | 90.224 | 8,217.25 | -8,762.52 | 565.59 | 106.18 | 459.41 | 1.231 | Level 3<2.00 |
| 17,900.00 | 5,598.97 | 5,575.47 | 5,575.47 | 287.75 | 223.06 | 90.323 | 8,217.25 | -8,762.52 | 612.67 | 181.28 | 431.38 | 1.420 | Level 3<2.00 |
| 18,000.00 | 5,599.86 | 5,576.36 | 5,576.36 | 290.06 | 223.10 | 90.422 | 8,217.25 | -8,762.52 | 671.44 | 265.13 | 406.31 | 1.653 | Level 3<2.00 |
| 18,100.00 | 5,600.75 | 5,577.25 | 5,577.25 | 292.37 | 223.14 | 90.521 | 8,217.25 | -8,762.52 | 739.12 | 353.92 | 385.21 | 1.919 | Level 3<2.00 |
| 18,200.00 | 5,601.65 | 5,578.15 | 5,578.15 | 294.68 | 223.17 | 90.619 | 8,217.25 | -8,762.52 | 813.49 | 445.68 | 367.82 | 2.212 | |
| 18,300.00 | 5,602.54 | 5,579.04 | 5,579.04 | 297.00 | 223.21 | 90.718 | 8,217.25 | -8,762.52 | 892.88 | 539.34 | 353.54 | 2.526 | |
| 18,400.00 | 5,603.43 | 5,579.93 | 5,579.93 | 299.31 | 223.24 | 90.817 | 8,217.25 | -8,762.52 | 976.06 | 634.29 | 341.77 | 2.856 | |
| 18,500.00 | 5,604.32 | 5,580.82 | 5,580.82 | 301.62 | 223.28 | 90.916 | 8,217.25 | -8,762.52 | 1,062.15 | 730.14 | 332.01 | 3.199 | |
| 18,600.00 | 5,605.22 | 5,581.72 | 5,581.72 | 303.93 | 223.31 | 91.014 | 8,217.25 | -8,762.52 | 1,150.49 | 826.65 | 323.83 | 3.553 | |
| 18,700.00 | 5,606.11 | 5,582.61 | 5,582.61 | 306.24 | 223.35 | 91.113 | 8,217.25 | -8,762.52 | 1,240.60 | 923.66 | 316.93 | 3.914 | |
| 18,800.00 | 5,607.00 | 5,583.50 | 5,583.50 | 308.55 | 223.39 | 91.212 | 8,217.25 | -8,762.52 | 1,332.12 | 1,021.06 | 311.06 | 4.282 | |
| 18,900.00 | 5,607.89 | 5,584.39 | 5,584.39 | 310.86 | 223.42 | 91.310 | 8,217.25 | -8,762.52 | 1,424.78 | 1,118.75 | 306.03 | 4.656 | |
| 19,000.00 | 5,608.79 | 5,585.29 | 5,585.29 | 313.17 | 223.46 | 91.409 | 8,217.25 | -8,762.52 | 1,518.37 | 1,216.70 | 301.67 | 5.033 | |
| 19,100.00 | 5,609.68 | 5,586.18 | 5,586.18 | 315.48 | 223.49 | 91.508 | 8,217.25 | -8,762.52 | 1,612.73 | 1,314.84 | 297.89 | 5.414 | |
| 19,200.00 | 5,610.57 | 5,587.07 | 5,587.07 | 317.80 | 223.53 | 91.606 | 8,217.25 | -8,762.52 | 1,707.73 | 1,413.15 | 294.58 | 5.797 | |
| 19,300.00 | 5,611.46 | 5,587.96 | 5,587.96 | 320.11 | 223.56 | 91.705 | 8,217.25 | -8,762.52 | 1,803.28 | 1,511.60 | 291.67 | 6.183 | |
| 19,400.00 | 5,612.36 | 5,588.86 | 5,588.86 | 322.42 | 223.60 | 91.804 | 8,217.25 | -8,762.52 | 1,899.28 | 1,610.18 | 289.10 | 6.570 | |
| 19,500.00 | 5,613.25 | 5,589.75 | 5,589.75 | 324.73 | 223.64 | 91.902 | 8,217.25 | -8,762.52 | 1,995.67 | 1,708.85 | 286.82 | 6.958 | |
| 19,600.00 | 5,614.14 | 5,590.64 | 5,590.64 | 327.04 | 223.67 | 92.001 | 8,217.25 | -8,762.52 | 2,092.40 | 1,807.62 | 284.78 | 7.347 | |
| 19,700.00 | 5,615.03 | 5,591.53 | 5,591.53 | 329.36 | 223.71 | 92.099 | 8,217.25 | -8,762.52 | 2,189.43 | 1,906.47 | 282.96 | 7.738 | |
| 19,800.00 | 5,615.92 | 5,592.42 | 5,592.42 | 331.67 | 223.74 | 92.198 | 8,217.25 | -8,762.52 | 2,286.71 | 2,005.38 | 281.32 | 8.128 | |
| 19,900.00 | 5,616.82 | 5,593.32 | 5,593.32 | 333.98 | 223.78 | 92.297 | 8,217.25 | -8,762.52 | 2,384.21 | 2,104.36 | 279.85 | 8.520 | |
| 20,000.00 | 5,617.71 | 5,594.21 | 5,594.21 | 336.29 | 223.81 | 92.395 | 8,217.25 | -8,762.52 | 2,481.92 | 2,203.39 | 278.53 | 8.911 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Pre ongard 002 (Love 23) - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20,100.00 | 5,618.60 | 5,595.10 | 5,595.10 | 338.60 | 223.85 | 92.494 | 8,217.25 | -8,762.52 | 2,579.80 | 2,302.47 | 277.32 | 9.303 | |
| 20,200.00 | 5,619.49 | 5,595.99 | 5,595.99 | 340.92 | 223.88 | 92.592 | 8,217.25 | -8,762.52 | 2,677.83 | 2,401.60 | 276.23 | 9.694 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Pre ongard 003 (Kenney 23) - Orig hole - No surveys — **Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14,200.00 | 5,565.95 | 5,525.45 | 5,525.45 | 202.36 | 221.06 | 88.338 | 7,851.39 | -7,998.34 | 2,689.08 | 2,403.39 | 285.69 | 9.413 | |
| 14,300.00 | 5,566.84 | 5,526.34 | 5,526.34 | 204.67 | 221.10 | 88.402 | 7,851.39 | -7,998.34 | 2,593.67 | 2,305.64 | 288.03 | 9.005 | |
| 14,400.00 | 5,567.73 | 5,527.23 | 5,527.23 | 206.97 | 221.13 | 88.467 | 7,851.39 | -7,998.34 | 2,498.61 | 2,208.05 | 290.56 | 8.599 | |
| 14,500.00 | 5,568.63 | 5,528.13 | 5,528.13 | 209.28 | 221.17 | 88.532 | 7,851.39 | -7,998.34 | 2,403.96 | 2,110.67 | 293.29 | 8.197 | |
| 14,600.00 | 5,569.52 | 5,529.02 | 5,529.02 | 211.58 | 221.21 | 88.596 | 7,851.39 | -7,998.34 | 2,309.76 | 2,013.51 | 296.25 | 7.797 | |
| 14,700.00 | 5,570.41 | 5,529.91 | 5,529.91 | 213.89 | 221.24 | 88.661 | 7,851.39 | -7,998.34 | 2,216.07 | 1,916.60 | 299.46 | 7.400 | |
| 14,800.00 | 5,571.30 | 5,530.80 | 5,530.80 | 216.19 | 221.28 | 88.726 | 7,851.39 | -7,998.34 | 2,122.95 | 1,819.99 | 302.96 | 7.007 | |
| 14,900.00 | 5,572.20 | 5,531.70 | 5,531.70 | 218.50 | 221.31 | 88.790 | 7,851.39 | -7,998.34 | 2,030.48 | 1,723.70 | 306.78 | 6.619 | |
| 15,000.00 | 5,573.09 | 5,532.59 | 5,532.59 | 220.80 | 221.35 | 88.855 | 7,851.39 | -7,998.34 | 1,938.77 | 1,627.80 | 310.96 | 6.235 | |
| 15,100.00 | 5,573.98 | 5,533.48 | 5,533.48 | 223.11 | 221.38 | 88.920 | 7,851.39 | -7,998.34 | 1,847.91 | 1,532.35 | 315.56 | 5.856 | |
| 15,200.00 | 5,574.87 | 5,534.37 | 5,534.37 | 225.42 | 221.42 | 88.984 | 7,851.39 | -7,998.34 | 1,758.04 | 1,437.41 | 320.63 | 5.483 | |
| 15,300.00 | 5,575.77 | 5,535.27 | 5,535.27 | 227.72 | 221.46 | 89.049 | 7,851.39 | -7,998.34 | 1,669.33 | 1,343.09 | 326.24 | 5.117 | |
| 15,400.00 | 5,576.66 | 5,536.16 | 5,536.16 | 230.03 | 221.49 | 89.114 | 7,851.39 | -7,998.34 | 1,581.96 | 1,249.51 | 332.45 | 4.758 | |
| 15,500.00 | 5,577.55 | 5,537.05 | 5,537.05 | 232.34 | 221.53 | 89.178 | 7,851.39 | -7,998.34 | 1,496.18 | 1,156.81 | 339.37 | 4.409 | |
| 15,600.00 | 5,578.44 | 5,537.94 | 5,537.94 | 234.64 | 221.56 | 89.243 | 7,851.39 | -7,998.34 | 1,412.26 | 1,065.18 | 347.09 | 4.069 | |
| 15,700.00 | 5,579.34 | 5,538.84 | 5,538.84 | 236.95 | 221.60 | 89.308 | 7,851.39 | -7,998.34 | 1,330.58 | 974.86 | 355.71 | 3.741 | |
| 15,800.00 | 5,580.23 | 5,539.73 | 5,539.73 | 239.26 | 221.63 | 89.372 | 7,851.39 | -7,998.34 | 1,251.55 | 886.19 | 365.36 | 3.426 | |
| 15,900.00 | 5,581.12 | 5,540.62 | 5,540.62 | 241.57 | 221.67 | 89.437 | 7,851.39 | -7,998.34 | 1,175.72 | 799.58 | 376.14 | 3.126 | |
| 16,000.00 | 5,582.01 | 5,541.51 | 5,541.51 | 243.87 | 221.71 | 89.502 | 7,851.39 | -7,998.34 | 1,103.74 | 715.61 | 388.13 | 2.844 | |
| 16,100.00 | 5,582.91 | 5,542.41 | 5,542.41 | 246.18 | 221.74 | 89.566 | 7,851.39 | -7,998.34 | 1,036.43 | 635.04 | 401.38 | 2.582 | |
| 16,200.00 | 5,583.80 | 5,543.30 | 5,543.30 | 248.49 | 221.78 | 89.631 | 7,851.39 | -7,998.34 | 974.74 | 558.94 | 415.80 | 2.344 | |
| 16,300.00 | 5,584.69 | 5,544.19 | 5,544.19 | 250.80 | 221.81 | 89.696 | 7,851.39 | -7,998.34 | 919.81 | 488.74 | 431.07 | 2.134 | |
| 16,400.00 | 5,585.58 | 5,545.08 | 5,545.08 | 253.11 | 221.85 | 89.760 | 7,851.39 | -7,998.34 | 872.91 | 426.34 | 446.57 | 1.955 | Level 3<2.00 |
| 16,500.00 | 5,586.48 | 5,545.98 | 5,545.98 | 255.42 | 221.88 | 89.825 | 7,851.39 | -7,998.34 | 835.41 | 374.22 | 461.19 | 1.811 | Level 3<2.00 |
| 16,600.00 | 5,587.37 | 5,546.87 | 5,546.87 | 257.73 | 221.92 | 89.890 | 7,851.39 | -7,998.34 | 808.60 | 335.24 | 473.36 | 1.708 | Level 3<2.00 |
| 16,700.00 | 5,588.26 | 5,547.76 | 5,547.76 | 260.03 | 221.96 | 89.954 | 7,851.39 | -7,998.34 | 793.57 | 312.30 | 481.27 | 1.649 | Level 3<2.00 |
| 16,770.39 | 5,588.89 | 5,548.39 | 5,548.39 | 261.66 | 221.98 | 90.000 | 7,851.39 | -7,998.34 | 790.44 | 306.95 | 483.49 | 1.635 | Level 3<2.00, CC, ES, SF |
| 16,800.00 | 5,589.15 | 5,548.65 | 5,548.65 | 262.34 | 221.99 | 90.019 | 7,851.39 | -7,998.34 | 791.00 | 307.48 | 483.52 | 1.636 | Level 3<2.00 |
| 16,900.00 | 5,590.05 | 5,549.55 | 5,549.55 | 264.65 | 222.03 | 90.084 | 7,851.39 | -7,998.34 | 801.00 | 321.24 | 479.76 | 1.670 | Level 3<2.00 |
| 17,000.00 | 5,590.94 | 5,550.44 | 5,550.44 | 266.96 | 222.06 | 90.149 | 7,851.39 | -7,998.34 | 823.12 | 352.26 | 470.86 | 1.748 | Level 3<2.00 |
| 17,100.00 | 5,591.83 | 5,551.33 | 5,551.33 | 269.27 | 222.10 | 90.213 | 7,851.39 | -7,998.34 | 856.41 | 397.94 | 458.47 | 1.868 | Level 3<2.00 |
| 17,200.00 | 5,592.72 | 5,552.22 | 5,552.22 | 271.58 | 222.13 | 90.278 | 7,851.39 | -7,998.34 | 899.64 | 455.33 | 444.32 | 2.025 | |
| 17,300.00 | 5,593.61 | 5,553.11 | 5,553.11 | 273.89 | 222.17 | 90.343 | 7,851.39 | -7,998.34 | 951.46 | 521.71 | 429.75 | 2.214 | |
| 17,400.00 | 5,594.51 | 5,554.01 | 5,554.01 | 276.20 | 222.21 | 90.407 | 7,851.39 | -7,998.34 | 1,010.54 | 594.89 | 415.65 | 2.431 | |
| 17,500.00 | 5,595.40 | 5,554.90 | 5,554.90 | 278.51 | 222.24 | 90.472 | 7,851.39 | -7,998.34 | 1,075.69 | 673.20 | 402.48 | 2.673 | |
| 17,600.00 | 5,596.29 | 5,555.79 | 5,555.79 | 280.82 | 222.28 | 90.537 | 7,851.39 | -7,998.34 | 1,145.87 | 755.42 | 390.44 | 2.935 | |
| 17,700.00 | 5,597.18 | 5,556.68 | 5,556.68 | 283.13 | 222.31 | 90.601 | 7,851.39 | -7,998.34 | 1,220.21 | 840.64 | 379.58 | 3.215 | |
| 17,800.00 | 5,598.08 | 5,557.58 | 5,557.58 | 285.44 | 222.35 | 90.666 | 7,851.39 | -7,998.34 | 1,298.01 | 928.18 | 369.83 | 3.510 | |
| 17,900.00 | 5,598.97 | 5,558.47 | 5,558.47 | 287.75 | 222.38 | 90.731 | 7,851.39 | -7,998.34 | 1,378.67 | 1,017.55 | 361.12 | 3.818 | |
| 18,000.00 | 5,599.86 | 5,559.36 | 5,559.36 | 290.06 | 222.42 | 90.795 | 7,851.39 | -7,998.34 | 1,461.73 | 1,108.40 | 353.33 | 4.137 | |
| 18,100.00 | 5,600.75 | 5,560.25 | 5,560.25 | 292.37 | 222.46 | 90.860 | 7,851.39 | -7,998.34 | 1,546.78 | 1,200.43 | 346.36 | 4.466 | |
| 18,200.00 | 5,601.65 | 5,561.15 | 5,561.15 | 294.68 | 222.49 | 90.925 | 7,851.39 | -7,998.34 | 1,633.54 | 1,293.42 | 340.11 | 4.803 | |
| 18,300.00 | 5,602.54 | 5,562.04 | 5,562.04 | 297.00 | 222.53 | 90.989 | 7,851.39 | -7,998.34 | 1,721.73 | 1,387.22 | 334.51 | 5.147 | |
| 18,400.00 | 5,603.43 | 5,562.93 | 5,562.93 | 299.31 | 222.56 | 91.054 | 7,851.39 | -7,998.34 | 1,811.14 | 1,481.69 | 329.46 | 5.497 | |
| 18,500.00 | 5,604.32 | 5,563.82 | 5,563.82 | 301.62 | 222.60 | 91.119 | 7,851.39 | -7,998.34 | 1,901.62 | 1,576.72 | 324.90 | 5.853 | |
| 18,600.00 | 5,605.22 | 5,564.72 | 5,564.72 | 303.93 | 222.63 | 91.183 | 7,851.39 | -7,998.34 | 1,993.00 | 1,672.22 | 320.77 | 6.213 | |
| 18,700.00 | 5,606.11 | 5,565.61 | 5,565.61 | 306.24 | 222.67 | 91.248 | 7,851.39 | -7,998.34 | 2,085.17 | 1,768.14 | 317.03 | 6.577 | |
| 18,800.00 | 5,607.00 | 5,566.50 | 5,566.50 | 308.55 | 222.71 | 91.313 | 7,851.39 | -7,998.34 | 2,178.03 | 1,864.41 | 313.62 | 6.945 | |
| 18,900.00 | 5,607.89 | 5,567.39 | 5,567.39 | 310.86 | 222.74 | 91.377 | 7,851.39 | -7,998.34 | 2,271.50 | 1,960.99 | 310.51 | 7.315 | |
| 19,000.00 | 5,608.79 | 5,568.29 | 5,568.29 | 313.17 | 222.78 | 91.442 | 7,851.39 | -7,998.34 | 2,365.50 | 2,057.84 | 307.66 | 7.689 | |
| 19,100.00 | 5,609.68 | 5,569.18 | 5,569.18 | 315.48 | 222.81 | 91.507 | 7,851.39 | -7,998.34 | 2,459.98 | 2,154.92 | 305.05 | 8.064 | |
| 19,200.00 | 5,610.57 | 5,570.07 | 5,570.07 | 317.80 | 222.85 | 91.571 | 7,851.39 | -7,998.34 | 2,554.87 | 2,252.21 | 302.66 | 8.441 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Pre ongard 003 (Kenney 23) - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19,300.00 | 5,611.46 | 5,570.96 | 5,570.96 | 320.11 | 222.88 | 91.636 | 7,851.39 | -7,998.34 | 2,650.14 | 2,349.69 | 300.45 | 8.820 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 23 T24N R07W - Pre ongard 006 (Blakely 23) - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16,200.00 | 5,583.80 | 5,597.30 | 5,597.30 | 248.49 | 223.94 | 89.370 | 9,514.49 | -8,446.01 | 2,644.45 | 2,263.99 | 380.46 | 6.951 | |
| 16,300.00 | 5,584.69 | 5,598.19 | 5,598.19 | 250.80 | 223.97 | 89.401 | 9,514.49 | -8,446.01 | 2,567.59 | 2,181.19 | 386.40 | 6.645 | |
| 16,400.00 | 5,585.58 | 5,599.08 | 5,599.08 | 253.11 | 224.01 | 89.432 | 9,514.49 | -8,446.01 | 2,492.37 | 2,099.74 | 392.63 | 6.348 | |
| 16,500.00 | 5,586.48 | 5,599.98 | 5,599.98 | 255.42 | 224.04 | 89.462 | 9,514.49 | -8,446.01 | 2,418.95 | 2,019.79 | 399.16 | 6.060 | |
| 16,600.00 | 5,587.37 | 5,600.87 | 5,600.87 | 257.73 | 224.08 | 89.493 | 9,514.49 | -8,446.01 | 2,347.49 | 1,941.50 | 405.99 | 5.782 | |
| 16,700.00 | 5,588.26 | 5,601.76 | 5,601.76 | 260.03 | 224.12 | 89.524 | 9,514.49 | -8,446.01 | 2,278.18 | 1,865.05 | 413.13 | 5.514 | |
| 16,800.00 | 5,589.15 | 5,602.65 | 5,602.65 | 262.34 | 224.15 | 89.554 | 9,514.49 | -8,446.01 | 2,211.22 | 1,790.67 | 420.55 | 5.258 | |
| 16,900.00 | 5,590.05 | 5,603.55 | 5,603.55 | 264.65 | 224.19 | 89.585 | 9,514.49 | -8,446.01 | 2,146.83 | 1,718.59 | 428.24 | 5.013 | |
| 17,000.00 | 5,590.94 | 5,604.44 | 5,604.44 | 266.96 | 224.22 | 89.616 | 9,514.49 | -8,446.01 | 2,085.26 | 1,649.06 | 436.19 | 4.781 | |
| 17,100.00 | 5,591.83 | 5,605.33 | 5,605.33 | 269.27 | 224.26 | 89.646 | 9,514.49 | -8,446.01 | 2,026.74 | 1,582.40 | 444.34 | 4.561 | |
| 17,200.00 | 5,592.72 | 5,606.22 | 5,606.22 | 271.58 | 224.29 | 89.677 | 9,514.49 | -8,446.01 | 1,971.57 | 1,518.92 | 452.65 | 4.356 | |
| 17,300.00 | 5,593.61 | 5,607.11 | 5,607.11 | 273.89 | 224.33 | 89.708 | 9,514.49 | -8,446.01 | 1,920.02 | 1,458.98 | 461.04 | 4.165 | |
| 17,400.00 | 5,594.51 | 5,608.01 | 5,608.01 | 276.20 | 224.37 | 89.738 | 9,514.49 | -8,446.01 | 1,872.39 | 1,402.98 | 469.41 | 3.989 | |
| 17,500.00 | 5,595.40 | 5,608.90 | 5,608.90 | 278.51 | 224.40 | 89.769 | 9,514.49 | -8,446.01 | 1,829.00 | 1,351.33 | 477.66 | 3.829 | |
| 17,600.00 | 5,596.29 | 5,609.79 | 5,609.79 | 280.82 | 224.44 | 89.800 | 9,514.49 | -8,446.01 | 1,790.15 | 1,304.48 | 485.66 | 3.686 | |
| 17,700.00 | 5,597.18 | 5,610.68 | 5,610.68 | 283.13 | 224.47 | 89.830 | 9,514.49 | -8,446.01 | 1,756.13 | 1,262.88 | 493.25 | 3.560 | |
| 17,800.00 | 5,598.08 | 5,611.58 | 5,611.58 | 285.44 | 224.51 | 89.861 | 9,514.49 | -8,446.01 | 1,727.25 | 1,226.98 | 500.26 | 3.453 | |
| 17,900.00 | 5,598.97 | 5,612.47 | 5,612.47 | 287.75 | 224.54 | 89.892 | 9,514.49 | -8,446.01 | 1,703.75 | 1,197.21 | 506.54 | 3.364 | |
| 18,000.00 | 5,599.86 | 5,613.36 | 5,613.36 | 290.06 | 224.58 | 89.922 | 9,514.49 | -8,446.01 | 1,685.87 | 1,173.97 | 511.90 | 3.293 | |
| 18,100.00 | 5,600.75 | 5,614.25 | 5,614.25 | 292.37 | 224.62 | 89.953 | 9,514.49 | -8,446.01 | 1,673.77 | 1,157.57 | 516.20 | 3.242 | |
| 18,200.00 | 5,601.65 | 5,615.15 | 5,615.15 | 294.68 | 224.65 | 89.984 | 9,514.49 | -8,446.01 | 1,667.60 | 1,148.28 | 519.33 | 3.211 | |
| 18,253.13 | 5,602.12 | 5,615.62 | 5,615.62 | 295.91 | 224.67 | 90.000 | 9,514.49 | -8,446.01 | 1,666.75 | 1,146.28 | 520.48 | 3.202 CC | |
| 18,300.00 | 5,602.54 | 5,616.04 | 5,616.04 | 297.00 | 224.69 | 90.014 | 9,514.49 | -8,446.01 | 1,667.41 | 1,146.22 | 521.20 | 3.199 ES, SF | |
| 18,400.00 | 5,603.43 | 5,616.93 | 5,616.93 | 299.31 | 224.72 | 90.045 | 9,514.49 | -8,446.01 | 1,673.21 | 1,151.43 | 521.78 | 3.207 | |
| 18,500.00 | 5,604.32 | 5,617.82 | 5,617.82 | 301.62 | 224.76 | 90.076 | 9,514.49 | -8,446.01 | 1,684.94 | 1,163.83 | 521.10 | 3.233 | |
| 18,600.00 | 5,605.22 | 5,618.72 | 5,618.72 | 303.93 | 224.79 | 90.106 | 9,514.49 | -8,446.01 | 1,702.46 | 1,183.23 | 519.23 | 3.279 | |
| 18,700.00 | 5,606.11 | 5,619.61 | 5,619.61 | 306.24 | 224.83 | 90.137 | 9,514.49 | -8,446.01 | 1,725.61 | 1,209.35 | 516.27 | 3.342 | |
| 18,800.00 | 5,607.00 | 5,620.50 | 5,620.50 | 308.55 | 224.87 | 90.168 | 9,514.49 | -8,446.01 | 1,754.17 | 1,241.82 | 512.35 | 3.424 | |
| 18,900.00 | 5,607.89 | 5,621.39 | 5,621.39 | 310.86 | 224.90 | 90.198 | 9,514.49 | -8,446.01 | 1,787.87 | 1,280.23 | 507.64 | 3.522 | |
| 19,000.00 | 5,608.79 | 5,622.29 | 5,622.29 | 313.17 | 224.94 | 90.229 | 9,514.49 | -8,446.01 | 1,826.43 | 1,324.14 | 502.28 | 3.636 | |
| 19,100.00 | 5,609.68 | 5,623.18 | 5,623.18 | 315.48 | 224.97 | 90.260 | 9,514.49 | -8,446.01 | 1,869.54 | 1,373.10 | 496.44 | 3.766 | |
| 19,200.00 | 5,610.57 | 5,624.07 | 5,624.07 | 317.80 | 225.01 | 90.290 | 9,514.49 | -8,446.01 | 1,916.91 | 1,426.66 | 490.25 | 3.910 | |
| 19,300.00 | 5,611.46 | 5,624.96 | 5,624.96 | 320.11 | 225.04 | 90.321 | 9,514.49 | -8,446.01 | 1,968.23 | 1,484.38 | 483.84 | 4.068 | |
| 19,400.00 | 5,612.36 | 5,625.86 | 5,625.86 | 322.42 | 225.08 | 90.352 | 9,514.49 | -8,446.01 | 2,023.18 | 1,545.86 | 477.32 | 4.239 | |
| 19,500.00 | 5,613.25 | 5,626.75 | 5,626.75 | 324.73 | 225.12 | 90.382 | 9,514.49 | -8,446.01 | 2,081.50 | 1,610.72 | 470.78 | 4.421 | |
| 19,600.00 | 5,614.14 | 5,627.64 | 5,627.64 | 327.04 | 225.15 | 90.413 | 9,514.49 | -8,446.01 | 2,142.89 | 1,678.61 | 464.27 | 4.616 | |
| 19,700.00 | 5,615.03 | 5,628.53 | 5,628.53 | 329.36 | 225.19 | 90.444 | 9,514.49 | -8,446.01 | 2,207.11 | 1,749.23 | 457.88 | 4.820 | |
| 19,800.00 | 5,615.92 | 5,629.42 | 5,629.42 | 331.67 | 225.22 | 90.475 | 9,514.49 | -8,446.01 | 2,273.91 | 1,822.28 | 451.63 | 5.035 | |
| 19,900.00 | 5,616.82 | 5,630.32 | 5,630.32 | 333.98 | 225.26 | 90.505 | 9,514.49 | -8,446.01 | 2,343.08 | 1,897.52 | 445.56 | 5.259 | |
| 20,000.00 | 5,617.71 | 5,631.21 | 5,631.21 | 336.29 | 225.29 | 90.536 | 9,514.49 | -8,446.01 | 2,414.41 | 1,974.72 | 439.68 | 5.491 | |
| 20,100.00 | 5,618.60 | 5,632.10 | 5,632.10 | 338.60 | 225.33 | 90.567 | 9,514.49 | -8,446.01 | 2,487.71 | 2,053.69 | 434.02 | 5.732 | |
| 20,200.00 | 5,619.49 | 5,632.99 | 5,632.99 | 340.92 | 225.36 | 90.597 | 9,514.49 | -8,446.01 | 2,562.82 | 2,134.24 | 428.58 | 5.980 | |
| 20,300.00 | 5,620.39 | 5,633.89 | 5,633.89 | 343.23 | 225.40 | 90.628 | 9,514.49 | -8,446.01 | 2,639.58 | 2,216.22 | 423.36 | 6.235 | |
| 20,400.00 | 5,621.28 | 5,634.78 | 5,634.78 | 345.54 | 225.44 | 90.659 | 9,514.49 | -8,446.01 | 2,717.86 | 2,299.49 | 418.36 | 6.496 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 25 T24N R07W - Mesa 25 003R - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 280-INC-ONLY

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6,600.00 | 5,498.13 | 5,669.72 | 5,668.63 | 32.79 | 138.48 | -86.133 | 1,771.78 | -3,408.21 | 2,660.65 | 2,499.71 | 160.94 | 16.532 | |
| 6,700.00 | 5,499.02 | 5,670.61 | 5,669.52 | 34.61 | 138.50 | -86.280 | 1,771.78 | -3,408.21 | 2,561.55 | 2,400.64 | 160.91 | 15.920 | |
| 6,800.00 | 5,499.91 | 5,671.50 | 5,670.41 | 36.48 | 138.52 | -86.426 | 1,771.78 | -3,408.21 | 2,462.52 | 2,301.65 | 160.87 | 15.307 | |
| 6,900.00 | 5,500.80 | 5,672.39 | 5,671.30 | 38.40 | 138.54 | -86.572 | 1,771.78 | -3,408.21 | 2,363.57 | 2,202.72 | 160.85 | 14.695 | |
| 7,000.00 | 5,501.70 | 5,673.29 | 5,672.20 | 40.36 | 138.56 | -86.718 | 1,771.78 | -3,408.21 | 2,264.71 | 2,103.89 | 160.83 | 14.081 | |
| 7,100.00 | 5,502.59 | 5,674.18 | 5,673.09 | 42.36 | 138.58 | -86.865 | 1,771.78 | -3,408.21 | 2,165.96 | 2,005.14 | 160.83 | 13.468 | |
| 7,200.00 | 5,503.48 | 5,675.07 | 5,673.98 | 44.39 | 138.60 | -87.011 | 1,771.78 | -3,408.21 | 2,067.33 | 1,906.49 | 160.84 | 12.853 | |
| 7,300.00 | 5,504.37 | 5,675.96 | 5,674.87 | 46.44 | 138.62 | -87.158 | 1,771.78 | -3,408.21 | 1,968.84 | 1,807.96 | 160.87 | 12.238 | |
| 7,400.00 | 5,505.27 | 5,676.86 | 5,675.77 | 48.52 | 138.64 | -87.304 | 1,771.78 | -3,408.21 | 1,870.50 | 1,709.56 | 160.94 | 11.622 | |
| 7,500.00 | 5,506.16 | 5,677.75 | 5,676.66 | 50.62 | 138.66 | -87.450 | 1,771.78 | -3,408.21 | 1,772.35 | 1,611.31 | 161.04 | 11.006 | |
| 7,600.00 | 5,507.05 | 5,678.64 | 5,677.55 | 52.74 | 138.68 | -87.597 | 1,771.78 | -3,408.21 | 1,674.42 | 1,513.23 | 161.19 | 10.388 | |
| 7,700.00 | 5,507.94 | 5,679.53 | 5,678.44 | 54.87 | 138.70 | -87.744 | 1,771.78 | -3,408.21 | 1,576.75 | 1,415.35 | 161.40 | 9.769 | |
| 7,800.00 | 5,508.84 | 5,680.43 | 5,679.34 | 57.02 | 138.72 | -87.890 | 1,771.78 | -3,408.21 | 1,479.39 | 1,317.70 | 161.69 | 9.149 | |
| 7,900.00 | 5,509.73 | 5,681.32 | 5,680.23 | 59.18 | 138.74 | -88.037 | 1,771.78 | -3,408.21 | 1,382.40 | 1,220.31 | 162.09 | 8.529 | |
| 8,000.00 | 5,510.62 | 5,682.21 | 5,681.12 | 61.35 | 138.76 | -88.183 | 1,771.78 | -3,408.21 | 1,285.88 | 1,123.25 | 162.63 | 7.907 | |
| 8,100.00 | 5,511.51 | 5,683.10 | 5,682.01 | 63.53 | 138.78 | -88.330 | 1,771.78 | -3,408.21 | 1,189.93 | 1,026.57 | 163.36 | 7.284 | |
| 8,200.00 | 5,512.41 | 5,684.00 | 5,682.91 | 65.72 | 138.80 | -88.477 | 1,771.78 | -3,408.21 | 1,094.70 | 930.37 | 164.34 | 6.661 | |
| 8,300.00 | 5,513.30 | 5,684.89 | 5,683.80 | 67.92 | 138.82 | -88.623 | 1,771.78 | -3,408.21 | 1,000.41 | 834.77 | 165.64 | 6.040 | |
| 8,400.00 | 5,514.19 | 5,685.78 | 5,684.69 | 70.13 | 138.84 | -88.770 | 1,771.78 | -3,408.21 | 907.34 | 739.94 | 167.40 | 5.420 | |
| 8,500.00 | 5,515.08 | 5,686.67 | 5,685.58 | 72.34 | 138.86 | -88.917 | 1,771.78 | -3,408.21 | 815.91 | 646.13 | 169.77 | 4.806 | |
| 8,600.00 | 5,515.97 | 5,687.57 | 5,686.47 | 74.56 | 138.88 | -89.064 | 1,771.78 | -3,408.21 | 726.73 | 553.75 | 172.99 | 4.201 | |
| 8,700.00 | 5,516.87 | 5,688.46 | 5,687.37 | 76.79 | 138.90 | -89.210 | 1,771.78 | -3,408.21 | 640.76 | 463.39 | 177.37 | 3.613 | |
| 8,800.00 | 5,517.76 | 5,689.35 | 5,688.26 | 79.02 | 138.92 | -89.357 | 1,771.78 | -3,408.21 | 559.48 | 376.11 | 183.36 | 3.051 | |
| 8,900.00 | 5,518.65 | 5,690.24 | 5,689.15 | 81.25 | 138.93 | -89.504 | 1,771.78 | -3,408.21 | 485.23 | 293.74 | 191.48 | 2.534 | |
| 9,000.00 | 5,519.54 | 5,691.14 | 5,690.04 | 83.49 | 138.95 | -89.651 | 1,771.78 | -3,408.21 | 421.76 | 219.68 | 202.07 | 2.087 | |
| 9,100.00 | 5,520.44 | 5,692.03 | 5,690.94 | 85.74 | 138.97 | -89.798 | 1,771.78 | -3,408.21 | 374.58 | 160.17 | 214.41 | 1.747 | Level 3<2.00 |
| 9,200.00 | 5,521.33 | 5,692.92 | 5,691.83 | 87.99 | 138.99 | -89.944 | 1,771.78 | -3,408.21 | 350.34 | 125.30 | 225.04 | 1.557 | Level 3<2.00 |
| 9,237.86 | 5,521.67 | 5,693.26 | 5,692.17 | 88.84 | 139.00 | -90.000 | 1,771.78 | -3,408.21 | 348.29 | 120.82 | 227.46 | 1.531 | Level 3<2.00, CC, ES, SF |
| 9,300.00 | 5,522.22 | 5,693.81 | 5,692.72 | 90.24 | 139.01 | -90.091 | 1,771.78 | -3,408.21 | 353.79 | 125.08 | 228.71 | 1.547 | Level 3<2.00 |
| 9,400.00 | 5,523.11 | 5,694.71 | 5,693.61 | 92.49 | 139.03 | -90.238 | 1,771.78 | -3,408.21 | 384.18 | 159.69 | 224.49 | 1.711 | Level 3<2.00 |
| 9,500.00 | 5,524.01 | 5,695.60 | 5,694.51 | 94.75 | 139.05 | -90.385 | 1,771.78 | -3,408.21 | 435.91 | 219.24 | 216.67 | 2.012 | |
| 9,600.00 | 5,524.90 | 5,696.49 | 5,695.40 | 97.01 | 139.07 | -90.532 | 1,771.78 | -3,408.21 | 502.43 | 293.61 | 208.82 | 2.406 | |
| 9,700.00 | 5,525.79 | 5,697.38 | 5,696.29 | 99.27 | 139.09 | -90.678 | 1,771.78 | -3,408.21 | 578.67 | 376.47 | 202.20 | 2.862 | |
| 9,800.00 | 5,526.68 | 5,698.27 | 5,697.18 | 101.54 | 139.11 | -90.825 | 1,771.78 | -3,408.21 | 661.27 | 464.37 | 196.90 | 3.358 | |
| 9,900.00 | 5,527.58 | 5,699.17 | 5,698.08 | 103.80 | 139.13 | -90.972 | 1,771.78 | -3,408.21 | 748.13 | 555.41 | 192.71 | 3.882 | |
| 10,000.00 | 5,528.47 | 5,700.06 | 5,698.97 | 106.07 | 139.15 | -91.119 | 1,771.78 | -3,408.21 | 837.92 | 648.54 | 189.39 | 4.424 | |
| 10,100.00 | 5,529.36 | 5,700.95 | 5,699.86 | 108.35 | 139.17 | -91.265 | 1,771.78 | -3,408.21 | 929.80 | 743.09 | 186.71 | 4.980 | |
| 10,200.00 | 5,530.25 | 5,701.84 | 5,700.75 | 110.62 | 139.19 | -91.412 | 1,771.78 | -3,408.21 | 1,023.20 | 838.66 | 184.54 | 5.545 | |
| 10,300.00 | 5,531.15 | 5,702.74 | 5,701.65 | 112.89 | 139.21 | -91.559 | 1,771.78 | -3,408.21 | 1,117.74 | 934.99 | 182.75 | 6.116 | |
| 10,400.00 | 5,532.04 | 5,703.63 | 5,702.54 | 115.17 | 139.23 | -91.706 | 1,771.78 | -3,408.21 | 1,213.16 | 1,031.90 | 181.26 | 6.693 | |
| 10,500.00 | 5,532.93 | 5,704.52 | 5,703.43 | 117.45 | 139.25 | -91.852 | 1,771.78 | -3,408.21 | 1,309.26 | 1,129.25 | 180.01 | 7.273 | |
| 10,600.00 | 5,533.82 | 5,705.41 | 5,704.32 | 119.73 | 139.27 | -91.999 | 1,771.78 | -3,408.21 | 1,405.91 | 1,226.96 | 178.94 | 7.857 | |
| 10,700.00 | 5,534.72 | 5,706.31 | 5,705.22 | 122.01 | 139.29 | -92.145 | 1,771.78 | -3,408.21 | 1,502.99 | 1,324.96 | 178.03 | 8.442 | |
| 10,800.00 | 5,535.61 | 5,707.20 | 5,706.11 | 124.29 | 139.31 | -92.292 | 1,771.78 | -3,408.21 | 1,600.43 | 1,423.19 | 177.24 | 9.030 | |
| 10,900.00 | 5,536.50 | 5,708.09 | 5,707.00 | 126.58 | 139.33 | -92.439 | 1,771.78 | -3,408.21 | 1,698.17 | 1,521.61 | 176.56 | 9.618 | |
| 11,000.00 | 5,537.39 | 5,708.98 | 5,707.89 | 128.86 | 139.35 | -92.585 | 1,771.78 | -3,408.21 | 1,796.16 | 1,620.19 | 175.97 | 10.207 | |
| 11,100.00 | 5,538.29 | 5,709.88 | 5,708.79 | 131.15 | 139.37 | -92.732 | 1,771.78 | -3,408.21 | 1,894.36 | 1,718.91 | 175.44 | 10.798 | |
| 11,200.00 | 5,539.18 | 5,710.77 | 5,709.68 | 133.44 | 139.39 | -92.878 | 1,771.78 | -3,408.21 | 1,992.73 | 1,817.75 | 174.98 | 11.388 | |
| 11,300.00 | 5,540.07 | 5,711.66 | 5,710.57 | 135.72 | 139.41 | -93.024 | 1,771.78 | -3,408.21 | 2,091.26 | 1,916.69 | 174.57 | 11.979 | |
| 11,400.00 | 5,540.96 | 5,712.55 | 5,711.46 | 138.01 | 139.42 | -93.171 | 1,771.78 | -3,408.21 | 2,189.92 | 2,015.72 | 174.21 | 12.571 | |
| 11,500.00 | 5,541.85 | 5,713.45 | 5,712.35 | 140.30 | 139.44 | -93.317 | 1,771.78 | -3,408.21 | 2,288.70 | 2,114.82 | 173.89 | 13.162 | |
| 11,600.00 | 5,542.75 | 5,714.34 | 5,713.25 | 142.59 | 139.46 | -93.463 | 1,771.78 | -3,408.21 | 2,387.58 | 2,213.98 | 173.60 | 13.753 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 25 T24N R07W - Mesa 25 003R - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 280-INC-ONLY

**Offset Well Error:** 0.00 ft

**Rule Assigned:**

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11,700.00 | 5,543.64 | 5,715.23 | 5,714.14 | 144.89 | 139.48 | -93.610 | 1,771.78 | -3,408.21 | 2,486.55 | 2,313.22 | 173.34 | 14.345 | |
| 11,800.00 | 5,544.53 | 5,716.12 | 5,715.03 | 147.18 | 139.50 | -93.756 | 1,771.78 | -3,408.21 | 2,585.60 | 2,412.50 | 173.11 | 14.937 | |
| 11,900.00 | 5,545.42 | 5,717.02 | 5,715.92 | 149.47 | 139.52 | -93.902 | 1,771.78 | -3,408.21 | 2,684.72 | 2,511.82 | 172.90 | 15.527 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 25 T24N R07W - Mesa 25 007 - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-INC-ONLY

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8,900.00 | 5,518.65 | 5,520.69 | 5,520.15 | 81.25 | 120.80 | 89.066 | 4,320.18 | -3,696.06 | 2,650.71 | 2,481.64 | 169.07 | 15.678 | |
| 9,000.00 | 5,519.54 | 5,521.59 | 5,521.04 | 83.49 | 120.82 | 89.106 | 4,320.18 | -3,696.06 | 2,563.44 | 2,392.29 | 171.16 | 14.977 | |
| 9,100.00 | 5,520.44 | 5,522.48 | 5,521.94 | 85.74 | 120.85 | 89.146 | 4,320.18 | -3,696.06 | 2,477.14 | 2,303.74 | 173.40 | 14.285 | |
| 9,200.00 | 5,521.33 | 5,523.37 | 5,522.83 | 87.99 | 120.87 | 89.187 | 4,320.18 | -3,696.06 | 2,391.91 | 2,216.10 | 175.80 | 13.605 | |
| 9,300.00 | 5,522.22 | 5,524.26 | 5,523.72 | 90.24 | 120.89 | 89.227 | 4,320.18 | -3,696.06 | 2,307.86 | 2,129.47 | 178.39 | 12.937 | |
| 9,400.00 | 5,523.11 | 5,525.16 | 5,524.61 | 92.49 | 120.92 | 89.267 | 4,320.18 | -3,696.06 | 2,225.13 | 2,043.98 | 181.15 | 12.283 | |
| 9,500.00 | 5,524.01 | 5,526.05 | 5,525.51 | 94.75 | 120.94 | 89.307 | 4,320.18 | -3,696.06 | 2,143.87 | 1,959.75 | 184.12 | 11.644 | |
| 9,600.00 | 5,524.90 | 5,526.94 | 5,526.40 | 97.01 | 120.96 | 89.347 | 4,320.18 | -3,696.06 | 2,064.26 | 1,876.95 | 187.31 | 11.021 | |
| 9,700.00 | 5,525.79 | 5,527.83 | 5,527.29 | 99.27 | 120.99 | 89.387 | 4,320.18 | -3,696.06 | 1,986.49 | 1,795.78 | 190.71 | 10.416 | |
| 9,800.00 | 5,526.68 | 5,528.73 | 5,528.18 | 101.54 | 121.01 | 89.428 | 4,320.18 | -3,696.06 | 1,910.79 | 1,716.44 | 194.36 | 9.831 | |
| 9,900.00 | 5,527.58 | 5,529.62 | 5,529.08 | 103.80 | 121.03 | 89.468 | 4,320.18 | -3,696.06 | 1,837.42 | 1,639.18 | 198.24 | 9.269 | |
| 10,000.00 | 5,528.47 | 5,530.51 | 5,529.97 | 106.07 | 121.06 | 89.508 | 4,320.18 | -3,696.06 | 1,766.66 | 1,564.29 | 202.37 | 8.730 | |
| 10,100.00 | 5,529.36 | 5,531.40 | 5,530.86 | 108.35 | 121.08 | 89.548 | 4,320.18 | -3,696.06 | 1,698.84 | 1,492.10 | 206.74 | 8.217 | |
| 10,200.00 | 5,530.25 | 5,532.30 | 5,531.75 | 110.62 | 121.10 | 89.588 | 4,320.18 | -3,696.06 | 1,634.33 | 1,423.00 | 211.34 | 7.733 | |
| 10,300.00 | 5,531.15 | 5,533.19 | 5,532.65 | 112.89 | 121.13 | 89.628 | 4,320.18 | -3,696.06 | 1,573.53 | 1,357.40 | 216.13 | 7.280 | |
| 10,400.00 | 5,532.04 | 5,534.08 | 5,533.54 | 115.17 | 121.15 | 89.669 | 4,320.18 | -3,696.06 | 1,516.90 | 1,295.81 | 221.09 | 6.861 | |
| 10,500.00 | 5,532.93 | 5,534.97 | 5,534.43 | 117.45 | 121.17 | 89.709 | 4,320.18 | -3,696.06 | 1,464.91 | 1,238.76 | 226.15 | 6.478 | |
| 10,600.00 | 5,533.82 | 5,535.87 | 5,535.32 | 119.73 | 121.20 | 89.749 | 4,320.18 | -3,696.06 | 1,418.07 | 1,186.85 | 231.22 | 6.133 | |
| 10,700.00 | 5,534.72 | 5,536.76 | 5,536.22 | 122.01 | 121.22 | 89.789 | 4,320.18 | -3,696.06 | 1,376.91 | 1,140.72 | 236.20 | 5.830 | |
| 10,800.00 | 5,535.61 | 5,537.65 | 5,537.11 | 124.29 | 121.24 | 89.829 | 4,320.18 | -3,696.06 | 1,341.96 | 1,101.01 | 240.94 | 5.570 | |
| 10,900.00 | 5,536.50 | 5,538.54 | 5,538.00 | 126.58 | 121.26 | 89.869 | 4,320.18 | -3,696.06 | 1,313.70 | 1,068.38 | 245.32 | 5.355 | |
| 11,000.00 | 5,537.39 | 5,539.44 | 5,538.89 | 128.86 | 121.29 | 89.910 | 4,320.18 | -3,696.06 | 1,292.58 | 1,043.42 | 249.16 | 5.188 | |
| 11,100.00 | 5,538.29 | 5,540.33 | 5,539.79 | 131.15 | 121.31 | 89.950 | 4,320.18 | -3,696.06 | 1,278.96 | 1,026.64 | 252.32 | 5.069 | |
| 11,200.00 | 5,539.18 | 5,541.22 | 5,540.68 | 133.44 | 121.33 | 89.990 | 4,320.18 | -3,696.06 | 1,273.06 | 1,018.38 | 254.69 | 4.999 | |
| 11,225.21 | 5,539.40 | 5,541.45 | 5,540.90 | 134.01 | 121.34 | 90.000 | 4,320.18 | -3,696.06 | 1,272.81 | 1,017.67 | 255.15 | 4.989 | CC, ES |
| 11,300.00 | 5,540.07 | 5,542.11 | 5,541.57 | 135.72 | 121.36 | 90.030 | 4,320.18 | -3,696.06 | 1,275.01 | 1,018.83 | 256.17 | 4.977 | SF |
| 11,400.00 | 5,540.96 | 5,543.01 | 5,542.46 | 138.01 | 121.38 | 90.070 | 4,320.18 | -3,696.06 | 1,284.76 | 1,028.00 | 256.76 | 5.004 | |
| 11,500.00 | 5,541.85 | 5,543.90 | 5,543.35 | 140.30 | 121.40 | 90.110 | 4,320.18 | -3,696.06 | 1,302.14 | 1,045.66 | 256.47 | 5.077 | |
| 11,600.00 | 5,542.75 | 5,544.79 | 5,544.25 | 142.59 | 121.43 | 90.151 | 4,320.18 | -3,696.06 | 1,326.84 | 1,071.45 | 255.39 | 5.195 | |
| 11,700.00 | 5,543.64 | 5,545.68 | 5,545.14 | 144.89 | 121.45 | 90.191 | 4,320.18 | -3,696.06 | 1,358.48 | 1,104.85 | 253.62 | 5.356 | |
| 11,800.00 | 5,544.53 | 5,546.57 | 5,546.03 | 147.18 | 121.47 | 90.231 | 4,320.18 | -3,696.06 | 1,396.57 | 1,145.26 | 251.31 | 5.557 | |
| 11,900.00 | 5,545.42 | 5,547.47 | 5,546.92 | 149.47 | 121.50 | 90.271 | 4,320.18 | -3,696.06 | 1,440.61 | 1,192.04 | 248.57 | 5.796 | |
| 12,000.00 | 5,546.32 | 5,548.36 | 5,547.82 | 151.76 | 121.52 | 90.311 | 4,320.18 | -3,696.06 | 1,490.07 | 1,244.52 | 245.55 | 6.068 | |
| 12,100.00 | 5,547.21 | 5,549.25 | 5,548.71 | 154.06 | 121.54 | 90.351 | 4,320.18 | -3,696.06 | 1,544.42 | 1,302.08 | 242.34 | 6.373 | |
| 12,200.00 | 5,548.10 | 5,550.14 | 5,549.60 | 156.35 | 121.57 | 90.392 | 4,320.18 | -3,696.06 | 1,603.18 | 1,364.13 | 239.05 | 6.706 | |
| 12,300.00 | 5,548.99 | 5,551.04 | 5,550.49 | 158.65 | 121.59 | 90.432 | 4,320.18 | -3,696.06 | 1,665.87 | 1,430.12 | 235.75 | 7.066 | |
| 12,400.00 | 5,549.89 | 5,551.93 | 5,551.39 | 160.95 | 121.61 | 90.472 | 4,320.18 | -3,696.06 | 1,732.07 | 1,499.59 | 232.48 | 7.450 | |
| 12,500.00 | 5,550.78 | 5,552.82 | 5,552.28 | 163.24 | 121.63 | 90.512 | 4,320.18 | -3,696.06 | 1,801.39 | 1,572.10 | 229.29 | 7.856 | |
| 12,600.00 | 5,551.67 | 5,553.71 | 5,553.17 | 165.54 | 121.66 | 90.552 | 4,320.18 | -3,696.06 | 1,873.48 | 1,647.27 | 226.21 | 8.282 | |
| 12,700.00 | 5,552.56 | 5,554.61 | 5,554.06 | 167.84 | 121.68 | 90.592 | 4,320.18 | -3,696.06 | 1,948.04 | 1,724.79 | 223.26 | 8.726 | |
| 12,800.00 | 5,553.46 | 5,555.50 | 5,554.96 | 170.14 | 121.70 | 90.633 | 4,320.18 | -3,696.06 | 2,024.80 | 1,804.36 | 220.44 | 9.185 | |
| 12,900.00 | 5,554.35 | 5,556.39 | 5,555.85 | 172.44 | 121.73 | 90.673 | 4,320.18 | -3,696.06 | 2,103.51 | 1,885.75 | 217.76 | 9.660 | |
| 13,000.00 | 5,555.24 | 5,557.28 | 5,556.74 | 174.74 | 121.75 | 90.713 | 4,320.18 | -3,696.06 | 2,183.96 | 1,968.74 | 215.22 | 10.148 | |
| 13,100.00 | 5,556.13 | 5,558.18 | 5,557.63 | 177.04 | 121.77 | 90.753 | 4,320.18 | -3,696.06 | 2,265.96 | 2,053.15 | 212.82 | 10.647 | |
| 13,200.00 | 5,557.03 | 5,559.07 | 5,558.53 | 179.34 | 121.80 | 90.793 | 4,320.18 | -3,696.06 | 2,349.37 | 2,138.82 | 210.55 | 11.158 | |
| 13,300.00 | 5,557.92 | 5,559.96 | 5,559.42 | 181.64 | 121.82 | 90.833 | 4,320.18 | -3,696.06 | 2,434.02 | 2,225.61 | 208.41 | 11.679 | |
| 13,400.00 | 5,558.81 | 5,560.85 | 5,560.31 | 183.94 | 121.84 | 90.874 | 4,320.18 | -3,696.06 | 2,519.80 | 2,313.40 | 206.39 | 12.209 | |
| 13,500.00 | 5,559.70 | 5,561.75 | 5,561.20 | 186.24 | 121.87 | 90.914 | 4,320.18 | -3,696.06 | 2,606.59 | 2,402.10 | 204.49 | 12.747 | |
| 13,600.00 | 5,560.60 | 5,562.64 | 5,562.10 | 188.54 | 121.89 | 90.954 | 4,320.18 | -3,696.06 | 2,694.29 | 2,491.60 | 202.69 | 13.292 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 25 T24N R07W - Pre ongard 003 (Mesa A3) - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 1702-INC-ONLY

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6,800.00 | 5,499.91 | 5,672.93 | 5,672.41 | 36.48 | 219.33 | -87.239 | 1,784.15 | -3,608.23 | 2,633.42 | 2,391.84 | 241.58 | 10.901 | |
| 6,900.00 | 5,500.80 | 5,673.82 | 5,673.30 | 38.40 | 219.35 | -87.346 | 1,784.15 | -3,608.23 | 2,535.16 | 2,293.59 | 241.57 | 10.495 | |
| 7,000.00 | 5,501.70 | 5,674.71 | 5,674.20 | 40.36 | 219.36 | -87.452 | 1,784.15 | -3,608.23 | 2,437.04 | 2,195.46 | 241.58 | 10.088 | |
| 7,100.00 | 5,502.59 | 5,675.60 | 5,675.09 | 42.36 | 219.37 | -87.559 | 1,784.15 | -3,608.23 | 2,339.08 | 2,097.47 | 241.61 | 9.681 | |
| 7,200.00 | 5,503.48 | 5,676.50 | 5,675.98 | 44.39 | 219.38 | -87.665 | 1,784.15 | -3,608.23 | 2,241.30 | 1,999.62 | 241.67 | 9.274 | |
| 7,300.00 | 5,504.37 | 5,677.39 | 5,676.87 | 46.44 | 219.39 | -87.772 | 1,784.15 | -3,608.23 | 2,143.72 | 1,901.94 | 241.78 | 8.867 | |
| 7,400.00 | 5,505.27 | 5,678.28 | 5,677.77 | 48.52 | 219.41 | -87.878 | 1,784.15 | -3,608.23 | 2,046.38 | 1,804.46 | 241.92 | 8.459 | |
| 7,500.00 | 5,506.16 | 5,679.17 | 5,678.66 | 50.62 | 219.42 | -87.985 | 1,784.15 | -3,608.23 | 1,949.30 | 1,707.18 | 242.13 | 8.051 | |
| 7,600.00 | 5,507.05 | 5,680.07 | 5,679.55 | 52.74 | 219.43 | -88.092 | 1,784.15 | -3,608.23 | 1,852.54 | 1,610.13 | 242.41 | 7.642 | |
| 7,700.00 | 5,507.94 | 5,680.96 | 5,680.44 | 54.87 | 219.44 | -88.198 | 1,784.15 | -3,608.23 | 1,756.14 | 1,513.37 | 242.77 | 7.234 | |
| 7,800.00 | 5,508.84 | 5,681.85 | 5,681.34 | 57.02 | 219.46 | -88.305 | 1,784.15 | -3,608.23 | 1,660.16 | 1,416.91 | 243.25 | 6.825 | |
| 7,900.00 | 5,509.73 | 5,682.74 | 5,682.23 | 59.18 | 219.47 | -88.411 | 1,784.15 | -3,608.23 | 1,564.69 | 1,320.82 | 243.87 | 6.416 | |
| 8,000.00 | 5,510.62 | 5,683.64 | 5,683.12 | 61.35 | 219.48 | -88.518 | 1,784.15 | -3,608.23 | 1,469.82 | 1,225.16 | 244.66 | 6.008 | |
| 8,100.00 | 5,511.51 | 5,684.53 | 5,684.01 | 63.53 | 219.49 | -88.625 | 1,784.15 | -3,608.23 | 1,375.67 | 1,130.02 | 245.66 | 5.600 | |
| 8,200.00 | 5,512.41 | 5,685.42 | 5,684.91 | 65.72 | 219.50 | -88.731 | 1,784.15 | -3,608.23 | 1,282.42 | 1,035.49 | 246.93 | 5.194 | |
| 8,300.00 | 5,513.30 | 5,686.31 | 5,685.80 | 67.92 | 219.52 | -88.838 | 1,784.15 | -3,608.23 | 1,190.25 | 941.72 | 248.53 | 4.789 | |
| 8,400.00 | 5,514.19 | 5,687.20 | 5,686.69 | 70.13 | 219.53 | -88.944 | 1,784.15 | -3,608.23 | 1,099.46 | 848.91 | 250.55 | 4.388 | |
| 8,500.00 | 5,515.08 | 5,688.10 | 5,687.58 | 72.34 | 219.54 | -89.051 | 1,784.15 | -3,608.23 | 1,010.40 | 757.31 | 253.10 | 3.992 | |
| 8,600.00 | 5,515.97 | 5,688.99 | 5,688.47 | 74.56 | 219.55 | -89.158 | 1,784.15 | -3,608.23 | 923.59 | 667.29 | 256.30 | 3.604 | |
| 8,700.00 | 5,516.87 | 5,689.88 | 5,689.37 | 76.79 | 219.57 | -89.264 | 1,784.15 | -3,608.23 | 839.72 | 579.38 | 260.33 | 3.226 | |
| 8,800.00 | 5,517.76 | 5,690.77 | 5,690.26 | 79.02 | 219.58 | -89.371 | 1,784.15 | -3,608.23 | 759.75 | 494.37 | 265.38 | 2.863 | |
| 8,900.00 | 5,518.65 | 5,691.67 | 5,691.15 | 81.25 | 219.59 | -89.478 | 1,784.15 | -3,608.23 | 685.07 | 413.42 | 271.65 | 2.522 | |
| 9,000.00 | 5,519.54 | 5,692.56 | 5,692.04 | 83.49 | 219.60 | -89.584 | 1,784.15 | -3,608.23 | 617.59 | 338.31 | 279.29 | 2.211 | |
| 9,100.00 | 5,520.44 | 5,693.45 | 5,692.94 | 85.74 | 219.62 | -89.691 | 1,784.15 | -3,608.23 | 559.93 | 271.74 | 288.18 | 1.943 | Level 3<2.00 |
| 9,200.00 | 5,521.33 | 5,694.34 | 5,693.83 | 87.99 | 219.63 | -89.798 | 1,784.15 | -3,608.23 | 515.38 | 217.67 | 297.71 | 1.731 | Level 3<2.00 |
| 9,300.00 | 5,522.22 | 5,695.24 | 5,694.72 | 90.24 | 219.64 | -89.904 | 1,784.15 | -3,608.23 | 487.55 | 181.21 | 306.34 | 1.592 | Level 3<2.00 |
| 9,389.54 | 5,523.02 | 5,696.04 | 5,695.52 | 92.26 | 219.65 | -90.000 | 1,784.15 | -3,608.23 | 479.26 | 167.68 | 311.57 | 1.538 | Level 3<2.00, CC |
| 9,400.00 | 5,523.11 | 5,696.13 | 5,695.61 | 92.49 | 219.65 | -90.011 | 1,784.15 | -3,608.23 | 479.37 | 167.41 | 311.96 | 1.537 | Level 3<2.00, ES, SF |
| 9,500.00 | 5,524.01 | 5,697.02 | 5,696.51 | 94.75 | 219.66 | -90.118 | 1,784.15 | -3,608.23 | 491.82 | 178.66 | 313.16 | 1.571 | Level 3<2.00 |
| 9,600.00 | 5,524.90 | 5,697.91 | 5,697.40 | 97.01 | 219.68 | -90.225 | 1,784.15 | -3,608.23 | 523.43 | 213.05 | 310.37 | 1.686 | Level 3<2.00 |
| 9,700.00 | 5,525.79 | 5,698.81 | 5,698.29 | 99.27 | 219.69 | -90.331 | 1,784.15 | -3,608.23 | 571.02 | 265.72 | 305.30 | 1.870 | Level 3<2.00 |
| 9,800.00 | 5,526.68 | 5,699.70 | 5,699.18 | 101.54 | 219.70 | -90.438 | 1,784.15 | -3,608.23 | 630.99 | 331.46 | 299.53 | 2.107 | |
| 9,900.00 | 5,527.58 | 5,700.59 | 5,700.08 | 103.80 | 219.71 | -90.545 | 1,784.15 | -3,608.23 | 700.17 | 406.20 | 293.97 | 2.382 | |
| 10,000.00 | 5,528.47 | 5,701.48 | 5,700.97 | 106.07 | 219.73 | -90.651 | 1,784.15 | -3,608.23 | 776.09 | 487.09 | 289.00 | 2.685 | |
| 10,100.00 | 5,529.36 | 5,702.38 | 5,701.86 | 108.35 | 219.74 | -90.758 | 1,784.15 | -3,608.23 | 856.97 | 572.26 | 284.70 | 3.010 | |
| 10,200.00 | 5,530.25 | 5,703.27 | 5,702.75 | 110.62 | 219.75 | -90.865 | 1,784.15 | -3,608.23 | 941.53 | 660.49 | 281.04 | 3.350 | |
| 10,300.00 | 5,531.15 | 5,704.16 | 5,703.65 | 112.89 | 219.76 | -90.971 | 1,784.15 | -3,608.23 | 1,028.86 | 750.94 | 277.92 | 3.702 | |
| 10,400.00 | 5,532.04 | 5,705.05 | 5,704.54 | 115.17 | 219.77 | -91.078 | 1,784.15 | -3,608.23 | 1,118.32 | 843.05 | 275.26 | 4.063 | |
| 10,500.00 | 5,532.93 | 5,705.95 | 5,705.43 | 117.45 | 219.79 | -91.185 | 1,784.15 | -3,608.23 | 1,209.42 | 936.44 | 272.99 | 4.430 | |
| 10,600.00 | 5,533.82 | 5,706.84 | 5,706.32 | 119.73 | 219.80 | -91.291 | 1,784.15 | -3,608.23 | 1,301.84 | 1,030.81 | 271.03 | 4.803 | |
| 10,700.00 | 5,534.72 | 5,707.73 | 5,707.22 | 122.01 | 219.81 | -91.398 | 1,784.15 | -3,608.23 | 1,395.29 | 1,125.96 | 269.33 | 5.181 | |
| 10,800.00 | 5,535.61 | 5,708.62 | 5,708.11 | 124.29 | 219.82 | -91.504 | 1,784.15 | -3,608.23 | 1,489.60 | 1,221.75 | 267.86 | 5.561 | |
| 10,900.00 | 5,536.50 | 5,709.52 | 5,709.00 | 126.58 | 219.84 | -91.611 | 1,784.15 | -3,608.23 | 1,584.61 | 1,318.05 | 266.56 | 5.945 | |
| 11,000.00 | 5,537.39 | 5,710.41 | 5,709.89 | 128.86 | 219.85 | -91.718 | 1,784.15 | -3,608.23 | 1,680.19 | 1,414.77 | 265.42 | 6.330 | |
| 11,100.00 | 5,538.29 | 5,711.30 | 5,710.79 | 131.15 | 219.86 | -91.824 | 1,784.15 | -3,608.23 | 1,776.26 | 1,511.85 | 264.41 | 6.718 | |
| 11,200.00 | 5,539.18 | 5,712.19 | 5,711.68 | 133.44 | 219.87 | -91.931 | 1,784.15 | -3,608.23 | 1,872.75 | 1,609.23 | 263.52 | 7.107 | |
| 11,300.00 | 5,540.07 | 5,713.08 | 5,712.57 | 135.72 | 219.89 | -92.037 | 1,784.15 | -3,608.23 | 1,969.58 | 1,706.86 | 262.72 | 7.497 | |
| 11,400.00 | 5,540.96 | 5,713.98 | 5,713.46 | 138.01 | 219.90 | -92.144 | 1,784.15 | -3,608.23 | 2,066.71 | 1,804.71 | 262.00 | 7.888 | |
| 11,500.00 | 5,541.85 | 5,714.87 | 5,714.35 | 140.30 | 219.91 | -92.250 | 1,784.15 | -3,608.23 | 2,164.11 | 1,902.75 | 261.35 | 8.280 | |
| 11,600.00 | 5,542.75 | 5,715.76 | 5,715.25 | 142.59 | 219.92 | -92.357 | 1,784.15 | -3,608.23 | 2,261.73 | 2,000.95 | 260.77 | 8.673 | |
| 11,700.00 | 5,543.64 | 5,716.65 | 5,716.14 | 144.89 | 219.93 | -92.463 | 1,784.15 | -3,608.23 | 2,359.55 | 2,099.30 | 260.25 | 9.067 | |
| 11,800.00 | 5,544.53 | 5,717.55 | 5,717.03 | 147.18 | 219.95 | -92.570 | 1,784.15 | -3,608.23 | 2,457.54 | 2,197.78 | 259.77 | 9.461 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 25 T24N R07W - Pre ongard 003 (Mesa A3) - Orig hole - Inc only surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 1702-INC-ONLY

**Offset Well Error:** 0.00 ft

**Rule Assigned:**

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11,900.00 | 5,545.42 | 5,718.44 | 5,717.92 | 149.47 | 219.96 | -92.676 | 1,784.15 | -3,608.23 | 2,555.69 | 2,296.36 | 259.33 | 9.855 | |
| 12,000.00 | 5,546.32 | 5,719.33 | 5,718.82 | 151.76 | 219.97 | -92.783 | 1,784.15 | -3,608.23 | 2,653.98 | 2,395.05 | 258.94 | 10.250 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 26 T24N R07W - Federal 2-26 #001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12,300.00 | 5,548.99 | 5,530.49 | 5,530.49 | 158.65 | 221.27 | -87.083 | 5,684.52 | -7,577.62 | 2,695.03 | 2,444.01 | 251.02 | 10.736 | |
| 12,400.00 | 5,549.89 | 5,531.39 | 5,531.39 | 160.95 | 221.30 | -87.193 | 5,684.52 | -7,577.62 | 2,596.59 | 2,344.78 | 251.81 | 10.312 | |
| 12,500.00 | 5,550.78 | 5,532.28 | 5,532.28 | 163.24 | 221.34 | -87.303 | 5,684.52 | -7,577.62 | 2,498.27 | 2,245.60 | 252.67 | 9.888 | |
| 12,600.00 | 5,551.67 | 5,533.17 | 5,533.17 | 165.54 | 221.37 | -87.412 | 5,684.52 | -7,577.62 | 2,400.10 | 2,146.47 | 253.62 | 9.463 | |
| 12,700.00 | 5,552.56 | 5,534.06 | 5,534.06 | 167.84 | 221.41 | -87.522 | 5,684.52 | -7,577.62 | 2,302.07 | 2,047.40 | 254.68 | 9.039 | |
| 12,800.00 | 5,553.46 | 5,534.96 | 5,534.96 | 170.14 | 221.44 | -87.632 | 5,684.52 | -7,577.62 | 2,204.23 | 1,948.38 | 255.85 | 8.615 | |
| 12,900.00 | 5,554.35 | 5,535.85 | 5,535.85 | 172.44 | 221.48 | -87.742 | 5,684.52 | -7,577.62 | 2,106.59 | 1,849.44 | 257.16 | 8.192 | |
| 13,000.00 | 5,555.24 | 5,536.74 | 5,536.74 | 174.74 | 221.52 | -87.851 | 5,684.52 | -7,577.62 | 2,009.18 | 1,750.56 | 258.62 | 7.769 | |
| 13,100.00 | 5,556.13 | 5,537.63 | 5,537.63 | 177.04 | 221.55 | -87.961 | 5,684.52 | -7,577.62 | 1,912.04 | 1,651.78 | 260.26 | 7.347 | |
| 13,200.00 | 5,557.03 | 5,538.53 | 5,538.53 | 179.34 | 221.59 | -88.071 | 5,684.52 | -7,577.62 | 1,815.21 | 1,553.10 | 262.11 | 6.926 | |
| 13,300.00 | 5,557.92 | 5,539.42 | 5,539.42 | 181.64 | 221.62 | -88.181 | 5,684.52 | -7,577.62 | 1,718.74 | 1,454.54 | 264.20 | 6.506 | |
| 13,400.00 | 5,558.81 | 5,540.31 | 5,540.31 | 183.94 | 221.66 | -88.291 | 5,684.52 | -7,577.62 | 1,622.70 | 1,356.12 | 266.58 | 6.087 | |
| 13,500.00 | 5,559.70 | 5,541.20 | 5,541.20 | 186.24 | 221.69 | -88.401 | 5,684.52 | -7,577.62 | 1,527.16 | 1,257.86 | 269.30 | 5.671 | |
| 13,600.00 | 5,560.60 | 5,542.10 | 5,542.10 | 188.54 | 221.73 | -88.511 | 5,684.52 | -7,577.62 | 1,432.24 | 1,159.80 | 272.44 | 5.257 | |
| 13,700.00 | 5,561.49 | 5,542.99 | 5,542.99 | 190.85 | 221.77 | -88.620 | 5,684.52 | -7,577.62 | 1,338.05 | 1,061.98 | 276.07 | 4.847 | |
| 13,800.00 | 5,562.38 | 5,543.88 | 5,543.88 | 193.15 | 221.80 | -88.730 | 5,684.52 | -7,577.62 | 1,244.77 | 964.45 | 280.32 | 4.441 | |
| 13,900.00 | 5,563.27 | 5,544.77 | 5,544.77 | 195.45 | 221.84 | -88.840 | 5,684.52 | -7,577.62 | 1,152.62 | 867.29 | 285.33 | 4.040 | |
| 14,000.00 | 5,564.17 | 5,545.67 | 5,545.67 | 197.75 | 221.87 | -88.950 | 5,684.52 | -7,577.62 | 1,061.88 | 770.61 | 291.27 | 3.646 | |
| 14,100.00 | 5,565.06 | 5,546.56 | 5,546.56 | 200.06 | 221.91 | -89.060 | 5,684.52 | -7,577.62 | 972.97 | 674.56 | 298.41 | 3.260 | |
| 14,200.00 | 5,565.95 | 5,547.45 | 5,547.45 | 202.36 | 221.94 | -89.170 | 5,684.52 | -7,577.62 | 886.42 | 579.34 | 307.07 | 2.887 | |
| 14,300.00 | 5,566.84 | 5,548.34 | 5,548.34 | 204.67 | 221.98 | -89.280 | 5,684.52 | -7,577.62 | 803.00 | 485.31 | 317.69 | 2.528 | |
| 14,400.00 | 5,567.73 | 5,549.23 | 5,549.23 | 206.97 | 222.02 | -89.390 | 5,684.52 | -7,577.62 | 723.79 | 392.99 | 330.79 | 2.188 | |
| 14,500.00 | 5,568.63 | 5,550.13 | 5,550.13 | 209.28 | 222.05 | -89.500 | 5,684.52 | -7,577.62 | 650.33 | 303.29 | 347.04 | 1.874 | Level 3<2.00 |
| 14,600.00 | 5,569.52 | 5,551.02 | 5,551.02 | 211.58 | 222.09 | -89.610 | 5,684.52 | -7,577.62 | 584.80 | 217.79 | 367.02 | 1.593 | Level 3<2.00 |
| 14,700.00 | 5,570.41 | 5,551.91 | 5,551.91 | 213.89 | 222.12 | -89.720 | 5,684.52 | -7,577.62 | 530.14 | 139.48 | 390.66 | 1.357 | Level 3<2.00 |
| 14,800.00 | 5,571.30 | 5,552.80 | 5,552.80 | 216.19 | 222.16 | -89.830 | 5,684.52 | -7,577.62 | 490.01 | 74.13 | 415.88 | 1.178 | Level 3<2.00 |
| 14,900.00 | 5,572.20 | 5,553.70 | 5,553.70 | 218.50 | 222.19 | -89.940 | 5,684.52 | -7,577.62 | 468.15 | 31.92 | 436.23 | 1.073 | Level 3<2.00 |
| 14,954.73 | 5,572.69 | 5,554.19 | 5,554.19 | 219.76 | 222.21 | -90.000 | 5,684.52 | -7,577.62 | 464.94 | 23.22 | 441.73 | 1.053 | Level 3<2.00, CC, ES, SF |
| 15,000.00 | 5,573.09 | 5,554.59 | 5,554.59 | 220.80 | 222.23 | -90.050 | 5,684.52 | -7,577.62 | 467.14 | 25.00 | 442.15 | 1.057 | Level 3<2.00 |
| 15,100.00 | 5,573.98 | 5,555.48 | 5,555.48 | 223.11 | 222.27 | -90.160 | 5,684.52 | -7,577.62 | 487.11 | 55.99 | 431.12 | 1.130 | Level 3<2.00 |
| 15,200.00 | 5,574.87 | 5,556.37 | 5,556.37 | 225.42 | 222.30 | -90.270 | 5,684.52 | -7,577.62 | 525.67 | 114.62 | 411.05 | 1.279 | Level 3<2.00 |
| 15,300.00 | 5,575.77 | 5,557.27 | 5,557.27 | 227.72 | 222.34 | -90.380 | 5,684.52 | -7,577.62 | 579.12 | 189.23 | 389.89 | 1.485 | Level 3<2.00 |
| 15,400.00 | 5,576.66 | 5,558.16 | 5,558.16 | 230.03 | 222.37 | -90.490 | 5,684.52 | -7,577.62 | 643.76 | 272.65 | 371.11 | 1.735 | Level 3<2.00 |
| 15,500.00 | 5,577.55 | 5,559.05 | 5,559.05 | 232.34 | 222.41 | -90.600 | 5,684.52 | -7,577.62 | 716.57 | 361.14 | 355.43 | 2.016 | |
| 15,600.00 | 5,578.44 | 5,559.94 | 5,559.94 | 234.64 | 222.44 | -90.710 | 5,684.52 | -7,577.62 | 795.31 | 452.70 | 342.61 | 2.321 | |
| 15,700.00 | 5,579.34 | 5,560.84 | 5,560.84 | 236.95 | 222.48 | -90.820 | 5,684.52 | -7,577.62 | 878.39 | 546.25 | 332.14 | 2.645 | |
| 15,800.00 | 5,580.23 | 5,561.73 | 5,561.73 | 239.26 | 222.51 | -90.929 | 5,684.52 | -7,577.62 | 964.68 | 641.15 | 323.54 | 2.982 | |
| 15,900.00 | 5,581.12 | 5,562.62 | 5,562.62 | 241.57 | 222.55 | -91.039 | 5,684.52 | -7,577.62 | 1,053.40 | 736.99 | 316.41 | 3.329 | |
| 16,000.00 | 5,582.01 | 5,563.51 | 5,563.51 | 243.87 | 222.59 | -91.149 | 5,684.52 | -7,577.62 | 1,143.98 | 833.54 | 310.44 | 3.685 | |
| 16,100.00 | 5,582.91 | 5,564.41 | 5,564.41 | 246.18 | 222.62 | -91.259 | 5,684.52 | -7,577.62 | 1,236.01 | 930.61 | 305.40 | 4.047 | |
| 16,200.00 | 5,583.80 | 5,565.30 | 5,565.30 | 248.49 | 222.66 | -91.369 | 5,684.52 | -7,577.62 | 1,329.20 | 1,028.09 | 301.11 | 4.414 | |
| 16,300.00 | 5,584.69 | 5,566.19 | 5,566.19 | 250.80 | 222.69 | -91.479 | 5,684.52 | -7,577.62 | 1,423.30 | 1,125.88 | 297.42 | 4.786 | |
| 16,400.00 | 5,585.58 | 5,567.08 | 5,567.08 | 253.11 | 222.73 | -91.589 | 5,684.52 | -7,577.62 | 1,518.17 | 1,223.95 | 294.22 | 5.160 | |
| 16,500.00 | 5,586.48 | 5,567.98 | 5,567.98 | 255.42 | 222.76 | -91.699 | 5,684.52 | -7,577.62 | 1,613.65 | 1,322.21 | 291.44 | 5.537 | |
| 16,600.00 | 5,587.37 | 5,568.87 | 5,568.87 | 257.73 | 222.80 | -91.809 | 5,684.52 | -7,577.62 | 1,709.65 | 1,420.66 | 288.99 | 5.916 | |
| 16,700.00 | 5,588.26 | 5,569.76 | 5,569.76 | 260.03 | 222.84 | -91.919 | 5,684.52 | -7,577.62 | 1,806.08 | 1,519.25 | 286.83 | 6.297 | |
| 16,800.00 | 5,589.15 | 5,570.65 | 5,570.65 | 262.34 | 222.87 | -92.028 | 5,684.52 | -7,577.62 | 1,902.88 | 1,617.96 | 284.92 | 6.679 | |
| 16,900.00 | 5,590.05 | 5,571.55 | 5,571.55 | 264.65 | 222.91 | -92.138 | 5,684.52 | -7,577.62 | 1,999.99 | 1,716.78 | 283.21 | 7.062 | |
| 17,000.00 | 5,590.94 | 5,572.44 | 5,572.44 | 266.96 | 222.94 | -92.248 | 5,684.52 | -7,577.62 | 2,097.38 | 1,815.69 | 281.69 | 7.446 | |
| 17,100.00 | 5,591.83 | 5,573.33 | 5,573.33 | 269.27 | 222.98 | -92.358 | 5,684.52 | -7,577.62 | 2,195.00 | 1,914.69 | 280.31 | 7.831 | |
| 17,200.00 | 5,592.72 | 5,574.22 | 5,574.22 | 271.58 | 223.01 | -92.468 | 5,684.52 | -7,577.62 | 2,292.82 | 2,013.75 | 279.08 | 8.216 | |
| 17,300.00 | 5,593.61 | 5,575.11 | 5,575.11 | 273.89 | 223.05 | -92.577 | 5,684.52 | -7,577.62 | 2,390.83 | 2,112.87 | 277.96 | 8.601 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 26 T24N R07W - Federal 2-26 #001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17,400.00 | 5,594.51 | 5,576.01 | 5,576.01 | 276.20 | 223.09 | -92.687 | 5,684.52 | -7,577.62 | 2,488.99 | 2,212.05 | 276.94 | 8.987 | |
| 17,500.00 | 5,595.40 | 5,576.90 | 5,576.90 | 278.51 | 223.12 | -92.797 | 5,684.52 | -7,577.62 | 2,587.29 | 2,311.27 | 276.02 | 9.374 | |
| 17,600.00 | 5,596.29 | 5,577.79 | 5,577.79 | 280.82 | 223.16 | -92.906 | 5,684.52 | -7,577.62 | 2,685.72 | 2,410.54 | 275.18 | 9.760 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 26 T24N R07W - Federal 4-26 #001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,500.00 | 5,532.93 | 5,506.43 | 5,506.43 | 117.45 | 220.30 | -86.312 | 4,465.77 | -6,181.56 | 2,629.14 | 2,384.34 | 244.80 | 10.740 | |
| 10,600.00 | 5,533.82 | 5,507.32 | 5,507.32 | 119.73 | 220.34 | -86.453 | 4,465.77 | -6,181.56 | 2,530.12 | 2,284.97 | 245.15 | 10.321 | |
| 10,700.00 | 5,534.72 | 5,508.22 | 5,508.22 | 122.01 | 220.37 | -86.594 | 4,465.77 | -6,181.56 | 2,431.19 | 2,185.64 | 245.55 | 9.901 | |
| 10,800.00 | 5,535.61 | 5,509.11 | 5,509.11 | 124.29 | 220.41 | -86.736 | 4,465.77 | -6,181.56 | 2,332.34 | 2,086.34 | 246.01 | 9.481 | |
| 10,900.00 | 5,536.50 | 5,510.00 | 5,510.00 | 126.58 | 220.45 | -86.877 | 4,465.77 | -6,181.56 | 2,233.60 | 1,987.09 | 246.51 | 9.061 | |
| 11,000.00 | 5,537.39 | 5,510.89 | 5,510.89 | 128.86 | 220.48 | -87.018 | 4,465.77 | -6,181.56 | 2,134.98 | 1,887.88 | 247.10 | 8.640 | |
| 11,100.00 | 5,538.29 | 5,511.79 | 5,511.79 | 131.15 | 220.52 | -87.160 | 4,465.77 | -6,181.56 | 2,036.49 | 1,788.73 | 247.76 | 8.220 | |
| 11,200.00 | 5,539.18 | 5,512.68 | 5,512.68 | 133.44 | 220.55 | -87.301 | 4,465.77 | -6,181.56 | 1,938.16 | 1,689.63 | 248.52 | 7.799 | |
| 11,300.00 | 5,540.07 | 5,513.57 | 5,513.57 | 135.72 | 220.59 | -87.443 | 4,465.77 | -6,181.56 | 1,840.00 | 1,590.61 | 249.39 | 7.378 | |
| 11,400.00 | 5,540.96 | 5,514.46 | 5,514.46 | 138.01 | 220.62 | -87.584 | 4,465.77 | -6,181.56 | 1,742.05 | 1,491.65 | 250.40 | 6.957 | |
| 11,500.00 | 5,541.85 | 5,515.35 | 5,515.35 | 140.30 | 220.66 | -87.726 | 4,465.77 | -6,181.56 | 1,644.35 | 1,392.79 | 251.56 | 6.537 | |
| 11,600.00 | 5,542.75 | 5,516.25 | 5,516.25 | 142.59 | 220.70 | -87.868 | 4,465.77 | -6,181.56 | 1,546.94 | 1,294.03 | 252.92 | 6.116 | |
| 11,700.00 | 5,543.64 | 5,517.14 | 5,517.14 | 144.89 | 220.73 | -88.009 | 4,465.77 | -6,181.56 | 1,449.89 | 1,195.38 | 254.51 | 5.697 | |
| 11,800.00 | 5,544.53 | 5,518.03 | 5,518.03 | 147.18 | 220.77 | -88.151 | 4,465.77 | -6,181.56 | 1,353.26 | 1,096.88 | 256.38 | 5.278 | |
| 11,900.00 | 5,545.42 | 5,518.92 | 5,518.92 | 149.47 | 220.80 | -88.293 | 4,465.77 | -6,181.56 | 1,257.16 | 998.55 | 258.61 | 4.861 | |
| 12,000.00 | 5,546.32 | 5,519.82 | 5,519.82 | 151.76 | 220.84 | -88.434 | 4,465.77 | -6,181.56 | 1,161.72 | 900.44 | 261.28 | 4.446 | |
| 12,100.00 | 5,547.21 | 5,520.71 | 5,520.71 | 154.06 | 220.87 | -88.576 | 4,465.77 | -6,181.56 | 1,067.12 | 802.59 | 264.53 | 4.034 | |
| 12,200.00 | 5,548.10 | 5,521.60 | 5,521.60 | 156.35 | 220.91 | -88.718 | 4,465.77 | -6,181.56 | 973.59 | 705.08 | 268.51 | 3.626 | |
| 12,300.00 | 5,548.99 | 5,522.49 | 5,522.49 | 158.65 | 220.94 | -88.859 | 4,465.77 | -6,181.56 | 881.48 | 608.02 | 273.46 | 3.223 | |
| 12,400.00 | 5,549.89 | 5,523.39 | 5,523.39 | 160.95 | 220.98 | -89.001 | 4,465.77 | -6,181.56 | 791.29 | 511.58 | 279.70 | 2.829 | |
| 12,500.00 | 5,550.78 | 5,524.28 | 5,524.28 | 163.24 | 221.02 | -89.143 | 4,465.77 | -6,181.56 | 703.75 | 416.03 | 287.72 | 2.446 | |
| 12,600.00 | 5,551.67 | 5,525.17 | 5,525.17 | 165.54 | 221.05 | -89.285 | 4,465.77 | -6,181.56 | 620.00 | 321.82 | 298.18 | 2.079 | |
| 12,700.00 | 5,552.56 | 5,526.06 | 5,526.06 | 167.84 | 221.09 | -89.427 | 4,465.77 | -6,181.56 | 541.78 | 229.75 | 312.03 | 1.736 | Level 3<2.00 |
| 12,800.00 | 5,553.46 | 5,526.96 | 5,526.96 | 170.14 | 221.12 | -89.568 | 4,465.77 | -6,181.56 | 471.86 | 141.45 | 330.41 | 1.428 | Level 3<2.00 |
| 12,900.00 | 5,554.35 | 5,527.85 | 5,527.85 | 172.44 | 221.16 | -89.710 | 4,465.77 | -6,181.56 | 414.46 | 60.44 | 354.01 | 1.171 | Level 3<2.00 |
| 13,000.00 | 5,555.24 | 5,528.74 | 5,528.74 | 174.74 | 221.19 | -89.852 | 4,465.77 | -6,181.56 | 375.36 | -4.90 | 380.26 | 0.987 | Level 3<2.00 |
| 13,100.00 | 5,556.13 | 5,529.63 | 5,529.63 | 177.04 | 221.23 | -89.994 | 4,465.77 | -6,181.56 | 360.58 | -37.02 | 397.60 | 0.907 | Level 3<2.00 |
| 13,104.45 | 5,556.17 | 5,529.67 | 5,529.67 | 177.14 | 221.23 | -90.000 | 4,465.77 | -6,181.56 | 360.55 | -37.34 | 397.89 | 0.906 | Level 3<2.00, CC, ES, SF |
| 13,200.00 | 5,557.03 | 5,530.53 | 5,530.53 | 179.34 | 221.27 | -90.136 | 4,465.77 | -6,181.56 | 373.01 | -19.70 | 392.71 | 0.950 | Level 3<2.00 |
| 13,300.00 | 5,557.92 | 5,531.42 | 5,531.42 | 181.64 | 221.30 | -90.277 | 4,465.77 | -6,181.56 | 410.19 | 37.58 | 372.60 | 1.101 | Level 3<2.00 |
| 13,400.00 | 5,558.81 | 5,532.31 | 5,532.31 | 183.94 | 221.34 | -90.419 | 4,465.77 | -6,181.56 | 466.23 | 114.99 | 351.24 | 1.327 | Level 3<2.00 |
| 13,500.00 | 5,559.70 | 5,533.20 | 5,533.20 | 186.24 | 221.37 | -90.561 | 4,465.77 | -6,181.56 | 535.24 | 201.63 | 333.61 | 1.604 | Level 3<2.00 |
| 13,600.00 | 5,560.60 | 5,534.10 | 5,534.10 | 188.54 | 221.41 | -90.703 | 4,465.77 | -6,181.56 | 612.86 | 292.89 | 319.97 | 1.915 | Level 3<2.00 |
| 13,700.00 | 5,561.49 | 5,534.99 | 5,534.99 | 190.85 | 221.44 | -90.845 | 4,465.77 | -6,181.56 | 696.21 | 386.71 | 309.51 | 2.249 | |
| 13,800.00 | 5,562.38 | 5,535.88 | 5,535.88 | 193.15 | 221.48 | -90.986 | 4,465.77 | -6,181.56 | 783.47 | 482.08 | 301.39 | 2.600 | |
| 13,900.00 | 5,563.27 | 5,536.77 | 5,536.77 | 195.45 | 221.52 | -91.128 | 4,465.77 | -6,181.56 | 873.46 | 578.47 | 294.99 | 2.961 | |
| 14,000.00 | 5,564.17 | 5,537.67 | 5,537.67 | 197.75 | 221.55 | -91.270 | 4,465.77 | -6,181.56 | 965.42 | 675.55 | 289.87 | 3.330 | |
| 14,100.00 | 5,565.06 | 5,538.56 | 5,538.56 | 200.06 | 221.59 | -91.412 | 4,465.77 | -6,181.56 | 1,058.84 | 773.13 | 285.71 | 3.706 | |
| 14,200.00 | 5,565.95 | 5,539.45 | 5,539.45 | 202.36 | 221.62 | -91.553 | 4,465.77 | -6,181.56 | 1,153.36 | 871.08 | 282.28 | 4.086 | |
| 14,300.00 | 5,566.84 | 5,540.34 | 5,540.34 | 204.67 | 221.66 | -91.695 | 4,465.77 | -6,181.56 | 1,248.74 | 969.32 | 279.42 | 4.469 | |
| 14,400.00 | 5,567.73 | 5,541.23 | 5,541.23 | 206.97 | 221.69 | -91.837 | 4,465.77 | -6,181.56 | 1,344.78 | 1,067.79 | 277.00 | 4.855 | |
| 14,500.00 | 5,568.63 | 5,542.13 | 5,542.13 | 209.28 | 221.73 | -91.978 | 4,465.77 | -6,181.56 | 1,441.37 | 1,166.43 | 274.94 | 5.242 | |
| 14,600.00 | 5,569.52 | 5,543.02 | 5,543.02 | 211.58 | 221.77 | -92.120 | 4,465.77 | -6,181.56 | 1,538.39 | 1,265.22 | 273.17 | 5.632 | |
| 14,700.00 | 5,570.41 | 5,543.91 | 5,543.91 | 213.89 | 221.80 | -92.262 | 4,465.77 | -6,181.56 | 1,635.77 | 1,364.13 | 271.64 | 6.022 | |
| 14,800.00 | 5,571.30 | 5,544.80 | 5,544.80 | 216.19 | 221.84 | -92.403 | 4,465.77 | -6,181.56 | 1,733.45 | 1,463.14 | 270.31 | 6.413 | |
| 14,900.00 | 5,572.20 | 5,545.70 | 5,545.70 | 218.50 | 221.87 | -92.545 | 4,465.77 | -6,181.56 | 1,831.37 | 1,562.23 | 269.14 | 6.805 | |
| 15,000.00 | 5,573.09 | 5,546.59 | 5,546.59 | 220.80 | 221.91 | -92.686 | 4,465.77 | -6,181.56 | 1,929.51 | 1,661.40 | 268.11 | 7.197 | |
| 15,100.00 | 5,573.98 | 5,547.48 | 5,547.48 | 223.11 | 221.94 | -92.828 | 4,465.77 | -6,181.56 | 2,027.83 | 1,760.63 | 267.20 | 7.589 | |
| 15,200.00 | 5,574.87 | 5,548.37 | 5,548.37 | 225.42 | 221.98 | -92.969 | 4,465.77 | -6,181.56 | 2,126.31 | 1,859.92 | 266.39 | 7.982 | |
| 15,300.00 | 5,575.77 | 5,549.27 | 5,549.27 | 227.72 | 222.02 | -93.110 | 4,465.77 | -6,181.56 | 2,224.92 | 1,959.25 | 265.67 | 8.375 | |
| 15,400.00 | 5,576.66 | 5,550.16 | 5,550.16 | 230.03 | 222.05 | -93.252 | 4,465.77 | -6,181.56 | 2,323.65 | 2,058.63 | 265.03 | 8.768 | |
| 15,500.00 | 5,577.55 | 5,551.05 | 5,551.05 | 232.34 | 222.09 | -93.393 | 4,465.77 | -6,181.56 | 2,422.49 | 2,158.04 | 264.44 | 9.161 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 26 T24N R07W - Federal 4-26 #001 - Orig hole - No surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 100-UNKNOWN

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,600.00 | 5,578.44 | 5,551.94 | 5,551.94 | 234.64 | 222.12 | -93.534 | 4,465.77 | -6,181.56 | 2,521.41 | 2,257.49 | 263.93 | 9.553 | |
| 15,700.00 | 5,579.34 | 5,552.84 | 5,552.84 | 236.95 | 222.16 | -93.676 | 4,465.77 | -6,181.56 | 2,620.42 | 2,356.96 | 263.46 | 9.946 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 027H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 169.721 | -19.71 | 3.57 | 20.03 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | 169.721 | -19.71 | 3.57 | 20.03 | 19.48 | 0.55 | 36.521 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | 169.721 | -19.71 | 3.57 | 20.03 | 18.76 | 1.27 | 15.829 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | 169.721 | -19.71 | 3.57 | 20.03 | 18.05 | 1.98 | 10.104 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.35 | 1.35 | 169.721 | -19.71 | 3.57 | 20.03 | 17.33 | 2.70 | 7.421 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.71 | 1.71 | 169.721 | -19.71 | 3.57 | 20.03 | 16.61 | 3.42 | 5.863 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.07 | 2.07 | 169.721 | -19.71 | 3.57 | 20.03 | 15.90 | 4.13 | 4.846 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.43 | 2.43 | 169.721 | -19.71 | 3.57 | 20.03 | 15.18 | 4.85 | 4.130 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | 169.721 | -19.71 | 3.57 | 20.03 | 14.46 | 5.57 | 3.598 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | 169.721 | -19.71 | 3.57 | 20.03 | 13.75 | 6.28 | 3.187 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | 169.721 | -19.71 | 3.57 | 20.03 | 13.03 | 7.00 | 2.861 | |
| 1,100.00 | 1,099.95 | 1,099.23 | 1,099.18 | 3.84 | 3.84 | -39.635 | -21.90 | 2.21 | 19.94 | 12.27 | 7.68 | 2.598 | |
| 1,200.00 | 1,199.63 | 1,198.46 | 1,198.10 | 4.18 | 4.17 | -39.043 | -28.45 | -1.88 | 19.69 | 11.37 | 8.32 | 2.367 | |
| 1,300.00 | 1,298.77 | 1,297.69 | 1,296.49 | 4.52 | 4.51 | -38.023 | -39.36 | -8.67 | 19.26 | 10.31 | 8.95 | 2.153 | |
| 1,400.00 | 1,397.08 | 1,396.93 | 1,394.08 | 4.88 | 4.87 | -36.521 | -54.59 | -18.17 | 18.68 | 9.11 | 9.57 | 1.952 | Level 3<2.00 |
| 1,500.00 | 1,494.33 | 1,496.17 | 1,490.61 | 5.28 | 5.26 | -34.333 | -74.10 | -30.33 | 18.02 | 7.84 | 10.17 | 1.771 | Level 3<2.00, CC |
| 1,504.45 | 1,498.63 | 1,500.59 | 1,494.88 | 5.29 | 5.28 | -34.151 | -75.06 | -30.93 | 18.02 | 7.82 | 10.20 | 1.766 | Level 3<2.00, ES |
| 1,600.00 | 1,591.13 | 1,595.29 | 1,585.70 | 5.70 | 5.69 | -26.484 | -97.80 | -45.11 | 20.20 | 9.49 | 10.71 | 1.886 | Level 3<2.00 |
| 1,700.00 | 1,687.94 | 1,693.81 | 1,678.65 | 6.14 | 6.17 | -16.194 | -125.48 | -62.36 | 27.53 | 16.32 | 11.21 | 2.455 | |
| 1,800.00 | 1,784.74 | 1,791.22 | 1,768.78 | 6.60 | 6.70 | -8.799 | -156.82 | -81.89 | 40.38 | 28.63 | 11.75 | 3.438 | |
| 1,900.00 | 1,881.55 | 1,887.04 | 1,855.49 | 7.08 | 7.28 | -4.411 | -191.40 | -103.45 | 58.54 | 46.25 | 12.29 | 4.764 | |
| 2,000.00 | 1,978.36 | 1,981.78 | 1,939.18 | 7.56 | 7.92 | -1.851 | -229.08 | -126.94 | 81.60 | 68.72 | 12.88 | 6.337 | |
| 2,100.00 | 2,075.16 | 2,078.70 | 2,024.13 | 8.05 | 8.62 | -0.342 | -268.66 | -151.61 | 106.14 | 92.48 | 13.66 | 7.771 | |
| 2,200.00 | 2,171.97 | 2,175.61 | 2,109.08 | 8.55 | 9.34 | 0.601 | -308.25 | -176.29 | 130.73 | 116.28 | 14.44 | 9.050 | |
| 2,300.00 | 2,268.78 | 2,272.52 | 2,194.03 | 9.05 | 10.09 | 1.245 | -347.83 | -200.96 | 155.34 | 140.10 | 15.24 | 10.194 | |
| 2,400.00 | 2,365.58 | 2,369.43 | 2,278.98 | 9.56 | 10.85 | 1.713 | -387.41 | -225.63 | 179.96 | 163.92 | 16.04 | 11.220 | |
| 2,500.00 | 2,462.39 | 2,466.35 | 2,363.93 | 10.08 | 11.63 | 2.068 | -426.99 | -250.31 | 204.59 | 187.74 | 16.84 | 12.146 | |
| 2,600.00 | 2,559.20 | 2,563.26 | 2,448.88 | 10.60 | 12.42 | 2.347 | -466.57 | -274.98 | 229.22 | 211.57 | 17.66 | 12.983 | |
| 2,700.00 | 2,656.00 | 2,660.17 | 2,533.83 | 11.12 | 13.22 | 2.572 | -506.16 | -299.65 | 253.87 | 235.39 | 18.47 | 13.742 | |
| 2,800.00 | 2,752.81 | 2,757.08 | 2,618.78 | 11.64 | 14.02 | 2.757 | -545.74 | -324.33 | 278.51 | 259.21 | 19.30 | 14.434 | |
| 2,900.00 | 2,849.62 | 2,853.99 | 2,703.73 | 12.17 | 14.83 | 2.912 | -585.32 | -349.00 | 303.15 | 283.03 | 20.12 | 15.066 | |
| 3,000.00 | 2,946.42 | 2,950.91 | 2,788.68 | 12.70 | 15.65 | 3.043 | -624.90 | -373.67 | 327.80 | 306.85 | 20.95 | 15.646 | |
| 3,100.00 | 3,043.23 | 3,047.82 | 2,873.63 | 13.23 | 16.47 | 3.157 | -664.48 | -398.35 | 352.45 | 330.67 | 21.78 | 16.180 | |
| 3,200.00 | 3,140.04 | 3,144.73 | 2,958.58 | 13.76 | 17.30 | 3.255 | -704.06 | -423.02 | 377.10 | 354.48 | 22.62 | 16.672 | |
| 3,300.00 | 3,236.84 | 3,241.64 | 3,043.53 | 14.29 | 18.13 | 3.341 | -743.65 | -447.69 | 401.75 | 378.30 | 23.46 | 17.127 | |
| 3,400.00 | 3,333.65 | 3,338.56 | 3,128.48 | 14.82 | 18.96 | 3.418 | -783.23 | -472.37 | 426.40 | 402.11 | 24.30 | 17.549 | |
| 3,500.00 | 3,430.46 | 3,435.47 | 3,213.43 | 15.36 | 19.80 | 3.486 | -822.81 | -497.04 | 451.06 | 425.92 | 25.14 | 17.942 | |
| 3,600.00 | 3,527.26 | 3,532.38 | 3,298.38 | 15.90 | 20.64 | 3.547 | -862.39 | -521.71 | 475.71 | 449.72 | 25.98 | 18.307 | |
| 3,700.00 | 3,624.07 | 3,629.29 | 3,383.33 | 16.43 | 21.48 | 3.602 | -901.97 | -546.39 | 500.36 | 473.53 | 26.83 | 18.649 | |
| 3,800.00 | 3,720.88 | 3,726.21 | 3,468.28 | 16.97 | 22.32 | 3.651 | -941.56 | -571.06 | 525.02 | 497.34 | 27.68 | 18.968 | |
| 3,900.00 | 3,817.68 | 3,823.12 | 3,553.23 | 17.51 | 23.16 | 3.697 | -981.14 | -595.74 | 549.67 | 521.14 | 28.53 | 19.267 | |
| 4,000.00 | 3,914.49 | 3,920.03 | 3,638.18 | 18.05 | 24.00 | 3.738 | -1,020.72 | -620.41 | 574.33 | 544.95 | 29.38 | 19.549 | |
| 4,100.00 | 4,011.30 | 4,016.94 | 3,723.13 | 18.59 | 24.85 | 3.776 | -1,060.30 | -645.08 | 598.98 | 568.75 | 30.23 | 19.813 | |
| 4,200.00 | 4,108.10 | 4,113.86 | 3,808.08 | 19.13 | 25.70 | 3.811 | -1,099.88 | -669.76 | 623.63 | 592.55 | 31.08 | 20.063 | |
| 4,300.00 | 4,204.91 | 4,210.77 | 3,893.03 | 19.67 | 26.54 | 3.844 | -1,139.46 | -694.43 | 648.29 | 616.35 | 31.94 | 20.298 | |
| 4,400.00 | 4,301.98 | 4,307.40 | 3,977.73 | 20.20 | 27.39 | 3.903 | -1,178.93 | -719.03 | 674.00 | 641.21 | 32.79 | 20.555 | |
| 4,500.00 | 4,400.10 | 4,402.65 | 4,061.23 | 20.68 | 28.23 | 3.962 | -1,217.84 | -743.28 | 704.40 | 670.78 | 33.62 | 20.951 | |
| 4,600.00 | 4,499.10 | 4,496.19 | 4,143.22 | 21.11 | 29.05 | 4.005 | -1,256.04 | -767.10 | 739.74 | 705.31 | 34.43 | 21.486 | |
| 4,700.00 | 4,598.69 | 4,587.75 | 4,223.48 | 21.48 | 29.85 | 4.036 | -1,293.44 | -790.41 | 779.91 | 744.70 | 35.21 | 22.152 | |
| 4,800.00 | 4,698.62 | 4,677.08 | 4,301.78 | 21.79 | 30.64 | 4.059 | -1,329.92 | -813.15 | 824.81 | 788.85 | 35.96 | 22.939 | |
| 4,900.00 | 4,798.62 | 4,764.79 | 4,378.66 | 22.04 | 31.41 | -146.461 | -1,365.74 | -835.48 | 872.84 | 836.17 | 36.67 | 23.804 | |
| 5,000.00 | 4,898.62 | 4,852.44 | 4,455.50 | 22.30 | 32.18 | -146.545 | -1,401.54 | -857.80 | 920.95 | 883.58 | 37.37 | 24.642 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 027H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.00 | 4,998.35 | 4,939.05 | 4,531.41 | 22.55 | 32.94 | -101.939 | -1,436.92 | -879.85 | 970.33 | 932.26 | 38.07 | 25.491 | |
| 5,200.00 | 5,095.64 | 5,021.06 | 4,603.30 | 22.75 | 33.66 | -97.253 | -1,470.41 | -900.73 | 1,022.98 | 984.26 | 38.72 | 26.423 | |
| 5,300.00 | 5,187.53 | 5,095.95 | 4,668.95 | 22.90 | 34.32 | -92.749 | -1,501.00 | -919.79 | 1,078.35 | 1,038.99 | 39.36 | 27.395 | |
| 5,400.00 | 5,271.23 | 5,161.44 | 4,726.35 | 23.00 | 34.90 | -88.137 | -1,527.75 | -936.47 | 1,136.10 | 1,096.02 | 40.08 | 28.344 | |
| 5,500.00 | 5,344.20 | 5,215.54 | 4,773.77 | 23.06 | 35.38 | -83.123 | -1,549.84 | -950.24 | 1,195.96 | 1,155.01 | 40.95 | 29.207 | |
| 5,600.00 | 5,404.22 | 6,180.11 | 5,457.65 | 23.09 | 39.83 | -94.977 | -1,427.44 | -1,459.89 | 1,257.26 | 1,214.32 | 42.94 | 29.281 | |
| 5,700.00 | 5,449.47 | 6,280.85 | 5,470.98 | 23.11 | 39.92 | -92.773 | -1,357.55 | -1,531.04 | 1,263.92 | 1,219.54 | 44.38 | 28.481 | |
| 5,800.00 | 5,478.74 | 6,377.14 | 5,472.23 | 23.20 | 40.07 | -90.309 | -1,290.09 | -1,599.72 | 1,270.52 | 1,224.41 | 46.11 | 27.555 | |
| 5,900.00 | 5,491.52 | 6,476.26 | 5,473.14 | 23.48 | 40.33 | -89.189 | -1,220.62 | -1,670.43 | 1,273.37 | 1,225.32 | 48.04 | 26.504 | |
| 6,000.00 | 5,492.77 | 6,576.26 | 5,474.06 | 24.13 | 40.68 | -89.157 | -1,150.55 | -1,741.76 | 1,273.22 | 1,223.01 | 50.21 | 25.359 | |
| 6,100.00 | 5,493.66 | 6,676.26 | 5,474.98 | 25.14 | 41.15 | -89.158 | -1,080.48 | -1,813.10 | 1,272.97 | 1,220.29 | 52.69 | 24.161 | |
| 6,200.00 | 5,494.56 | 6,776.26 | 5,475.90 | 26.40 | 41.74 | -89.159 | -1,010.41 | -1,884.43 | 1,272.73 | 1,217.29 | 55.45 | 22.955 | |
| 6,300.00 | 5,495.45 | 6,876.26 | 5,476.82 | 27.83 | 42.46 | -89.160 | -940.33 | -1,955.77 | 1,272.49 | 1,214.05 | 58.44 | 21.774 | |
| 6,400.00 | 5,496.34 | 6,976.26 | 5,477.74 | 29.39 | 43.31 | -89.161 | -870.26 | -2,027.10 | 1,272.25 | 1,210.61 | 61.64 | 20.640 | |
| 6,500.00 | 5,497.23 | 7,076.26 | 5,478.66 | 31.05 | 44.29 | -89.162 | -800.18 | -2,098.44 | 1,272.00 | 1,206.99 | 65.01 | 19.566 | |
| 6,600.00 | 5,498.13 | 7,176.26 | 5,479.58 | 32.79 | 45.40 | -89.163 | -730.11 | -2,169.77 | 1,271.76 | 1,203.23 | 68.53 | 18.557 | |
| 6,700.00 | 5,499.02 | 7,276.26 | 5,480.50 | 34.61 | 46.62 | -89.164 | -660.04 | -2,241.11 | 1,271.52 | 1,199.33 | 72.19 | 17.614 | |
| 6,800.00 | 5,499.91 | 7,376.26 | 5,481.42 | 36.48 | 47.97 | -89.165 | -589.96 | -2,312.44 | 1,271.27 | 1,195.33 | 75.95 | 16.739 | |
| 6,900.00 | 5,500.80 | 7,476.26 | 5,482.34 | 38.40 | 49.40 | -89.166 | -519.89 | -2,383.78 | 1,271.03 | 1,191.36 | 79.68 | 15.953 | |
| 7,000.00 | 5,501.70 | 7,576.26 | 5,483.26 | 40.36 | 50.93 | -89.167 | -449.81 | -2,455.11 | 1,270.79 | 1,187.15 | 83.64 | 15.193 | |
| 7,100.00 | 5,502.59 | 7,676.26 | 5,484.18 | 42.36 | 52.54 | -89.169 | -379.74 | -2,526.45 | 1,270.55 | 1,182.91 | 87.64 | 14.497 | |
| 7,200.00 | 5,503.48 | 7,776.26 | 5,485.10 | 44.39 | 54.21 | -89.170 | -309.67 | -2,597.78 | 1,270.30 | 1,178.61 | 91.69 | 13.854 | |
| 7,300.00 | 5,504.37 | 7,876.26 | 5,486.02 | 46.44 | 55.94 | -89.171 | -239.59 | -2,669.12 | 1,270.06 | 1,174.26 | 95.80 | 13.258 | |
| 7,400.00 | 5,505.27 | 7,976.26 | 5,486.94 | 48.52 | 57.73 | -89.172 | -169.52 | -2,740.46 | 1,269.82 | 1,169.87 | 99.95 | 12.705 | |
| 7,500.00 | 5,506.16 | 8,076.26 | 5,487.86 | 50.62 | 59.56 | -89.173 | -99.44 | -2,811.79 | 1,269.58 | 1,165.44 | 104.14 | 12.191 | |
| 7,600.00 | 5,507.05 | 8,176.26 | 5,488.78 | 52.74 | 61.43 | -89.174 | -29.37 | -2,883.13 | 1,269.33 | 1,160.97 | 108.36 | 11.714 | |
| 7,700.00 | 5,507.94 | 8,276.26 | 5,489.70 | 54.87 | 63.34 | -89.175 | 40.71 | -2,954.46 | 1,269.09 | 1,156.47 | 112.62 | 11.269 | |
| 7,800.00 | 5,508.84 | 8,376.25 | 5,490.62 | 57.02 | 65.28 | -89.176 | 110.78 | -3,025.80 | 1,268.85 | 1,151.94 | 116.90 | 10.854 | |
| 7,900.00 | 5,509.73 | 8,476.25 | 5,491.54 | 59.18 | 67.25 | -89.177 | 180.85 | -3,097.13 | 1,268.60 | 1,147.39 | 121.21 | 10.466 | |
| 8,000.00 | 5,510.62 | 8,576.25 | 5,492.46 | 61.35 | 69.24 | -89.178 | 250.93 | -3,168.47 | 1,268.36 | 1,142.81 | 125.55 | 10.103 | |
| 8,100.00 | 5,511.51 | 8,676.25 | 5,493.38 | 63.53 | 71.26 | -89.179 | 321.00 | -3,239.80 | 1,268.12 | 1,138.22 | 129.90 | 9.762 | |
| 8,200.00 | 5,512.41 | 8,776.25 | 5,494.30 | 65.72 | 73.29 | -89.181 | 391.08 | -3,311.14 | 1,267.88 | 1,133.60 | 134.27 | 9.443 | |
| 8,300.00 | 5,513.30 | 8,876.25 | 5,495.22 | 67.92 | 75.34 | -89.182 | 461.15 | -3,382.47 | 1,267.63 | 1,128.97 | 138.66 | 9.142 | |
| 8,400.00 | 5,514.19 | 8,976.25 | 5,496.14 | 70.13 | 77.41 | -89.183 | 531.22 | -3,453.81 | 1,267.39 | 1,124.33 | 143.06 | 8.859 | |
| 8,500.00 | 5,515.08 | 9,076.25 | 5,497.06 | 72.34 | 79.50 | -89.184 | 601.30 | -3,525.14 | 1,267.15 | 1,119.67 | 147.48 | 8.592 | |
| 8,600.00 | 5,515.97 | 9,176.25 | 5,497.98 | 74.56 | 81.59 | -89.185 | 671.37 | -3,596.48 | 1,266.91 | 1,115.00 | 151.91 | 8.340 | |
| 8,700.00 | 5,516.87 | 9,276.25 | 5,498.90 | 76.79 | 83.70 | -89.186 | 741.45 | -3,667.81 | 1,266.66 | 1,110.31 | 156.35 | 8.101 | |
| 8,800.00 | 5,517.76 | 9,376.25 | 5,499.82 | 79.02 | 85.83 | -89.187 | 811.52 | -3,739.15 | 1,266.42 | 1,105.62 | 160.80 | 7.876 | |
| 8,900.00 | 5,518.65 | 9,476.25 | 5,500.74 | 81.25 | 87.96 | -89.188 | 881.59 | -3,810.48 | 1,266.18 | 1,100.91 | 165.26 | 7.662 | |
| 9,000.00 | 5,519.54 | 9,576.25 | 5,501.66 | 83.49 | 90.10 | -89.189 | 951.67 | -3,881.82 | 1,265.93 | 1,096.20 | 169.73 | 7.458 | |
| 9,100.00 | 5,520.44 | 9,676.25 | 5,502.58 | 85.74 | 92.25 | -89.190 | 1,021.74 | -3,953.16 | 1,265.69 | 1,091.48 | 174.21 | 7.265 | |
| 9,200.00 | 5,521.33 | 9,776.25 | 5,503.50 | 87.99 | 94.41 | -89.192 | 1,091.82 | -4,024.49 | 1,265.45 | 1,086.75 | 178.70 | 7.081 | |
| 9,300.00 | 5,522.22 | 9,876.25 | 5,504.42 | 90.24 | 96.58 | -89.193 | 1,161.89 | -4,095.83 | 1,265.21 | 1,082.01 | 183.19 | 6.906 | |
| 9,400.00 | 5,523.11 | 9,976.25 | 5,505.34 | 92.49 | 98.75 | -89.194 | 1,231.96 | -4,167.16 | 1,264.96 | 1,077.27 | 187.69 | 6.740 | |
| 9,500.00 | 5,524.01 | 10,076.25 | 5,506.26 | 94.75 | 100.93 | -89.195 | 1,302.04 | -4,238.50 | 1,264.72 | 1,072.52 | 192.20 | 6.580 | |
| 9,600.00 | 5,524.90 | 10,176.25 | 5,507.18 | 97.01 | 103.12 | -89.196 | 1,372.11 | -4,309.83 | 1,264.48 | 1,067.77 | 196.71 | 6.428 | |
| 9,700.00 | 5,525.79 | 10,276.25 | 5,508.10 | 99.27 | 105.31 | -89.197 | 1,442.19 | -4,381.17 | 1,264.24 | 1,063.01 | 201.23 | 6.283 | |
| 9,800.00 | 5,526.68 | 10,376.25 | 5,509.02 | 101.54 | 107.51 | -89.198 | 1,512.26 | -4,452.50 | 1,263.99 | 1,058.24 | 205.75 | 6.143 | |
| 9,900.00 | 5,527.58 | 10,476.25 | 5,509.94 | 103.80 | 109.71 | -89.199 | 1,582.33 | -4,523.84 | 1,263.75 | 1,053.47 | 210.28 | 6.010 | |
| 10,000.00 | 5,528.47 | 10,576.25 | 5,510.86 | 106.07 | 111.92 | -89.200 | 1,652.41 | -4,595.17 | 1,263.51 | 1,048.70 | 214.81 | 5.882 | |
| 10,100.00 | 5,529.36 | 10,676.25 | 5,511.78 | 108.35 | 114.13 | -89.201 | 1,722.48 | -4,666.51 | 1,263.26 | 1,043.92 | 219.35 | 5.759 | |
| 10,200.00 | 5,530.25 | 10,776.25 | 5,512.70 | 110.62 | 116.34 | -89.203 | 1,792.56 | -4,737.84 | 1,263.02 | 1,039.14 | 223.88 | 5.641 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 027H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,300.00 | 5,531.15 | 10,876.25 | 5,513.62 | 112.89 | 118.56 | -89.204 | 1,862.63 | -4,809.18 | 1,262.78 | 1,034.35 | 228.43 | 5.528 | |
| 10,400.00 | 5,532.04 | 10,976.25 | 5,514.54 | 115.17 | 120.79 | -89.205 | 1,932.70 | -4,880.51 | 1,262.54 | 1,029.57 | 232.97 | 5.419 | |
| 10,500.00 | 5,532.93 | 11,076.25 | 5,515.46 | 117.45 | 123.01 | -89.206 | 2,002.78 | -4,951.85 | 1,262.29 | 1,024.77 | 237.52 | 5.314 | |
| 10,600.00 | 5,533.82 | 11,176.25 | 5,516.38 | 119.73 | 125.24 | -89.207 | 2,072.85 | -5,023.18 | 1,262.05 | 1,019.98 | 242.07 | 5.214 | |
| 10,700.00 | 5,534.72 | 11,276.25 | 5,517.30 | 122.01 | 127.47 | -89.208 | 2,142.93 | -5,094.52 | 1,261.81 | 1,015.18 | 246.63 | 5.116 | |
| 10,800.00 | 5,535.61 | 11,376.25 | 5,518.22 | 124.29 | 129.71 | -89.209 | 2,213.00 | -5,165.86 | 1,261.57 | 1,010.38 | 251.18 | 5.022 | |
| 10,900.00 | 5,536.50 | 11,476.25 | 5,519.15 | 126.58 | 131.95 | -89.210 | 2,283.07 | -5,237.19 | 1,261.32 | 1,005.58 | 255.74 | 4.932 | |
| 11,000.00 | 5,537.39 | 11,576.25 | 5,520.07 | 128.86 | 134.19 | -89.211 | 2,353.15 | -5,308.53 | 1,261.08 | 1,000.77 | 260.31 | 4.845 | |
| 11,100.00 | 5,538.29 | 11,676.25 | 5,520.99 | 131.15 | 136.43 | -89.213 | 2,423.22 | -5,379.86 | 1,260.84 | 995.97 | 264.87 | 4.760 | |
| 11,200.00 | 5,539.18 | 11,776.24 | 5,521.91 | 133.44 | 138.68 | -89.214 | 2,493.30 | -5,451.20 | 1,260.60 | 991.16 | 269.44 | 4.679 | |
| 11,300.00 | 5,540.07 | 11,876.24 | 5,522.83 | 135.72 | 140.93 | -89.215 | 2,563.37 | -5,522.53 | 1,260.35 | 986.35 | 274.01 | 4.600 | |
| 11,400.00 | 5,540.96 | 11,976.24 | 5,523.75 | 138.01 | 143.18 | -89.216 | 2,633.44 | -5,593.87 | 1,260.11 | 981.53 | 278.58 | 4.523 | |
| 11,500.00 | 5,541.85 | 12,076.24 | 5,524.67 | 140.30 | 145.43 | -89.217 | 2,703.52 | -5,665.20 | 1,259.87 | 976.72 | 283.15 | 4.449 | |
| 11,600.00 | 5,542.75 | 12,176.24 | 5,525.59 | 142.59 | 147.69 | -89.218 | 2,773.59 | -5,736.54 | 1,259.62 | 971.90 | 287.73 | 4.378 | |
| 11,700.00 | 5,543.64 | 12,276.24 | 5,526.51 | 144.89 | 149.94 | -89.219 | 2,843.67 | -5,807.87 | 1,259.38 | 967.08 | 292.30 | 4.309 | |
| 11,800.00 | 5,544.53 | 12,376.24 | 5,527.43 | 147.18 | 152.20 | -89.220 | 2,913.74 | -5,879.21 | 1,259.14 | 962.26 | 296.88 | 4.241 | |
| 11,900.00 | 5,545.42 | 12,476.24 | 5,528.35 | 149.47 | 154.46 | -89.221 | 2,983.81 | -5,950.54 | 1,258.90 | 957.44 | 301.46 | 4.176 | |
| 12,000.00 | 5,546.32 | 12,576.24 | 5,529.27 | 151.76 | 156.72 | -89.223 | 3,053.89 | -6,021.88 | 1,258.65 | 952.61 | 306.04 | 4.113 | |
| 12,100.00 | 5,547.21 | 12,676.24 | 5,530.19 | 154.06 | 158.99 | -89.224 | 3,123.96 | -6,093.21 | 1,258.41 | 947.79 | 310.62 | 4.051 | |
| 12,200.00 | 5,548.10 | 12,776.24 | 5,531.11 | 156.35 | 161.25 | -89.225 | 3,194.04 | -6,164.55 | 1,258.17 | 942.96 | 315.21 | 3.992 | |
| 12,300.00 | 5,548.99 | 12,876.24 | 5,532.03 | 158.65 | 163.52 | -89.226 | 3,264.11 | -6,235.88 | 1,257.93 | 938.14 | 319.79 | 3.934 | |
| 12,400.00 | 5,549.89 | 12,976.24 | 5,532.95 | 160.95 | 165.78 | -89.227 | 3,334.18 | -6,307.22 | 1,257.68 | 933.31 | 324.38 | 3.877 | |
| 12,500.00 | 5,550.78 | 13,076.24 | 5,533.87 | 163.24 | 168.05 | -89.228 | 3,404.26 | -6,378.55 | 1,257.44 | 928.48 | 328.96 | 3.822 | |
| 12,600.00 | 5,551.67 | 13,176.24 | 5,534.79 | 165.54 | 170.32 | -89.229 | 3,474.33 | -6,449.89 | 1,257.20 | 923.65 | 333.55 | 3.769 | |
| 12,700.00 | 5,552.56 | 13,276.24 | 5,535.71 | 167.84 | 172.59 | -89.230 | 3,544.41 | -6,521.23 | 1,256.95 | 918.81 | 338.14 | 3.717 | |
| 12,800.00 | 5,553.46 | 13,376.24 | 5,536.63 | 170.14 | 174.86 | -89.231 | 3,614.48 | -6,592.56 | 1,256.71 | 913.98 | 342.73 | 3.667 | |
| 12,900.00 | 5,554.35 | 13,476.24 | 5,537.55 | 172.44 | 177.14 | -89.233 | 3,684.56 | -6,663.90 | 1,256.47 | 909.15 | 347.32 | 3.618 | |
| 13,000.00 | 5,555.24 | 13,576.24 | 5,538.47 | 174.74 | 179.41 | -89.234 | 3,754.63 | -6,735.23 | 1,256.23 | 904.31 | 351.91 | 3.570 | |
| 13,100.00 | 5,556.13 | 13,676.24 | 5,539.39 | 177.04 | 181.69 | -89.235 | 3,824.70 | -6,806.57 | 1,255.98 | 899.48 | 356.51 | 3.523 | |
| 13,200.00 | 5,557.03 | 13,776.24 | 5,540.31 | 179.34 | 183.96 | -89.236 | 3,894.78 | -6,877.90 | 1,255.74 | 894.64 | 361.10 | 3.478 | |
| 13,300.00 | 5,557.92 | 13,876.24 | 5,541.23 | 181.64 | 186.24 | -89.237 | 3,964.85 | -6,949.24 | 1,255.50 | 889.80 | 365.70 | 3.433 | |
| 13,400.00 | 5,558.81 | 13,976.24 | 5,542.15 | 183.94 | 188.52 | -89.238 | 4,034.93 | -7,020.57 | 1,255.26 | 884.96 | 370.29 | 3.390 | |
| 13,500.00 | 5,559.70 | 14,076.24 | 5,543.07 | 186.24 | 190.80 | -89.239 | 4,105.00 | -7,091.91 | 1,255.01 | 880.13 | 374.89 | 3.348 | |
| 13,600.00 | 5,560.60 | 14,176.24 | 5,543.99 | 188.54 | 193.08 | -89.240 | 4,175.07 | -7,163.24 | 1,254.77 | 875.29 | 379.48 | 3.307 | |
| 13,700.00 | 5,561.49 | 14,276.24 | 5,544.91 | 190.85 | 195.36 | -89.241 | 4,245.15 | -7,234.58 | 1,254.53 | 870.44 | 384.08 | 3.266 | |
| 13,800.00 | 5,562.38 | 14,376.24 | 5,545.83 | 193.15 | 197.64 | -89.243 | 4,315.22 | -7,305.91 | 1,254.28 | 865.60 | 388.68 | 3.227 | |
| 13,900.00 | 5,563.27 | 14,476.24 | 5,546.75 | 195.45 | 199.92 | -89.244 | 4,385.30 | -7,377.25 | 1,254.04 | 860.76 | 393.28 | 3.189 | |
| 14,000.00 | 5,564.17 | 14,576.24 | 5,547.67 | 197.75 | 202.21 | -89.245 | 4,455.37 | -7,448.58 | 1,253.80 | 855.92 | 397.88 | 3.151 | |
| 14,100.00 | 5,565.06 | 14,676.24 | 5,548.59 | 200.06 | 204.49 | -89.246 | 4,525.44 | -7,519.92 | 1,253.56 | 851.08 | 402.48 | 3.115 | |
| 14,200.00 | 5,565.95 | 14,776.24 | 5,549.51 | 202.36 | 206.77 | -89.247 | 4,595.52 | -7,591.25 | 1,253.31 | 846.23 | 407.08 | 3.079 | |
| 14,300.00 | 5,566.84 | 14,876.24 | 5,550.43 | 204.67 | 209.06 | -89.248 | 4,665.59 | -7,662.59 | 1,253.07 | 841.39 | 411.68 | 3.044 | |
| 14,400.00 | 5,567.73 | 14,976.24 | 5,551.35 | 206.97 | 211.35 | -89.249 | 4,735.67 | -7,733.93 | 1,252.83 | 836.54 | 416.28 | 3.010 | |
| 14,500.00 | 5,568.63 | 15,076.24 | 5,552.27 | 209.28 | 213.63 | -89.250 | 4,805.74 | -7,805.26 | 1,252.59 | 831.70 | 420.89 | 2.976 | |
| 14,600.00 | 5,569.52 | 15,176.23 | 5,553.19 | 211.58 | 215.92 | -89.252 | 4,875.81 | -7,876.60 | 1,252.34 | 826.85 | 425.49 | 2.943 | |
| 14,700.00 | 5,570.41 | 15,276.23 | 5,554.11 | 213.89 | 218.21 | -89.253 | 4,945.89 | -7,947.93 | 1,252.10 | 822.01 | 430.09 | 2.911 | |
| 14,800.00 | 5,571.30 | 15,376.23 | 5,555.03 | 216.19 | 220.49 | -89.254 | 5,015.96 | -8,019.27 | 1,251.86 | 817.16 | 434.70 | 2.880 | |
| 14,900.00 | 5,572.20 | 15,476.23 | 5,555.95 | 218.50 | 222.78 | -89.255 | 5,086.04 | -8,090.60 | 1,251.61 | 812.31 | 439.30 | 2.849 | |
| 15,000.00 | 5,573.09 | 15,576.23 | 5,556.87 | 220.80 | 225.07 | -89.256 | 5,156.11 | -8,161.94 | 1,251.37 | 807.47 | 443.91 | 2.819 | |
| 15,100.00 | 5,573.98 | 15,676.23 | 5,557.79 | 223.11 | 227.36 | -89.257 | 5,226.18 | -8,233.27 | 1,251.13 | 802.62 | 448.51 | 2.790 | |
| 15,200.00 | 5,574.87 | 15,776.23 | 5,558.71 | 225.42 | 229.65 | -89.258 | 5,296.26 | -8,304.61 | 1,250.89 | 797.77 | 453.12 | 2.761 | |
| 15,300.00 | 5,575.77 | 15,876.23 | 5,559.63 | 227.72 | 231.94 | -89.259 | 5,366.33 | -8,375.94 | 1,250.64 | 792.92 | 457.72 | 2.732 | |
| 15,400.00 | 5,576.66 | 15,976.23 | 5,560.55 | 230.03 | 234.23 | -89.261 | 5,436.41 | -8,447.28 | 1,250.40 | 788.07 | 462.33 | 2.705 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 027H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,500.00 | 5,577.55 | 16,076.23 | 5,561.47 | 232.34 | 236.53 | -89.262 | 5,506.48 | -8,518.61 | 1,250.16 | 783.22 | 466.94 | 2.677 | |
| 15,600.00 | 5,578.44 | 16,176.23 | 5,562.39 | 234.64 | 238.82 | -89.263 | 5,576.55 | -8,589.95 | 1,249.92 | 778.37 | 471.54 | 2.651 | |
| 15,700.00 | 5,579.34 | 16,276.23 | 5,563.31 | 236.95 | 241.11 | -89.264 | 5,646.63 | -8,661.28 | 1,249.67 | 773.52 | 476.15 | 2.625 | |
| 15,800.00 | 5,580.23 | 16,376.23 | 5,564.23 | 239.26 | 243.40 | -89.265 | 5,716.70 | -8,732.62 | 1,249.43 | 768.67 | 480.76 | 2.599 | |
| 15,900.00 | 5,581.12 | 16,476.23 | 5,565.15 | 241.57 | 245.70 | -89.266 | 5,786.78 | -8,803.95 | 1,249.19 | 763.82 | 485.37 | 2.574 | |
| 16,000.00 | 5,582.01 | 16,576.23 | 5,566.07 | 243.87 | 247.99 | -89.267 | 5,856.85 | -8,875.29 | 1,248.95 | 758.97 | 489.97 | 2.549 | |
| 16,100.00 | 5,582.91 | 16,676.23 | 5,566.99 | 246.18 | 250.29 | -89.268 | 5,926.92 | -8,946.63 | 1,248.70 | 754.12 | 494.58 | 2.525 | |
| 16,200.00 | 5,583.80 | 16,776.23 | 5,567.91 | 248.49 | 252.58 | -89.270 | 5,997.00 | -9,017.96 | 1,248.46 | 749.27 | 499.19 | 2.501 | |
| 16,300.00 | 5,584.69 | 16,876.23 | 5,568.83 | 250.80 | 254.88 | -89.271 | 6,067.07 | -9,089.30 | 1,248.22 | 744.42 | 503.80 | 2.478 | |
| 16,400.00 | 5,585.58 | 16,976.23 | 5,569.75 | 253.11 | 257.17 | -89.272 | 6,137.15 | -9,160.63 | 1,247.97 | 739.56 | 508.41 | 2.455 | |
| 16,500.00 | 5,586.48 | 17,076.23 | 5,570.67 | 255.42 | 259.47 | -89.273 | 6,207.22 | -9,231.97 | 1,247.73 | 734.71 | 513.02 | 2.432 | |
| 16,600.00 | 5,587.37 | 17,176.23 | 5,571.59 | 257.73 | 261.76 | -89.274 | 6,277.29 | -9,303.30 | 1,247.49 | 729.86 | 517.63 | 2.410 | |
| 16,700.00 | 5,588.26 | 17,276.23 | 5,572.51 | 260.03 | 264.06 | -89.275 | 6,347.37 | -9,374.64 | 1,247.25 | 725.01 | 522.24 | 2.388 | |
| 16,800.00 | 5,589.15 | 17,376.23 | 5,573.43 | 262.34 | 266.36 | -89.276 | 6,417.44 | -9,445.97 | 1,247.00 | 720.15 | 526.85 | 2.367 | |
| 16,900.00 | 5,590.05 | 17,476.23 | 5,574.35 | 264.65 | 268.65 | -89.278 | 6,487.52 | -9,517.31 | 1,246.76 | 715.30 | 531.46 | 2.346 | |
| 17,000.00 | 5,590.94 | 17,576.23 | 5,575.27 | 266.96 | 270.95 | -89.279 | 6,557.59 | -9,588.64 | 1,246.52 | 710.45 | 536.07 | 2.325 | |
| 17,100.00 | 5,591.83 | 17,676.23 | 5,576.19 | 269.27 | 273.25 | -89.280 | 6,627.66 | -9,659.98 | 1,246.28 | 705.59 | 540.68 | 2.305 | |
| 17,200.00 | 5,592.72 | 17,776.23 | 5,577.11 | 271.58 | 275.54 | -89.281 | 6,697.74 | -9,731.31 | 1,246.03 | 700.74 | 545.29 | 2.285 | |
| 17,300.00 | 5,593.61 | 17,876.23 | 5,578.03 | 273.89 | 277.84 | -89.282 | 6,767.81 | -9,802.65 | 1,245.79 | 695.88 | 549.91 | 2.265 | |
| 17,400.00 | 5,594.51 | 17,976.23 | 5,578.95 | 276.20 | 280.14 | -89.283 | 6,837.89 | -9,873.98 | 1,245.55 | 691.03 | 554.52 | 2.246 | |
| 17,500.00 | 5,595.40 | 18,076.23 | 5,579.87 | 278.51 | 282.44 | -89.284 | 6,907.96 | -9,945.32 | 1,245.30 | 686.18 | 559.13 | 2.227 | |
| 17,600.00 | 5,596.29 | 18,176.23 | 5,580.79 | 280.82 | 284.74 | -89.285 | 6,978.03 | -10,016.65 | 1,245.06 | 681.32 | 563.74 | 2.209 | |
| 17,700.00 | 5,597.18 | 18,276.23 | 5,581.71 | 283.13 | 287.04 | -89.287 | 7,048.11 | -10,087.99 | 1,244.82 | 676.47 | 568.35 | 2.190 | |
| 17,800.00 | 5,598.08 | 18,376.23 | 5,582.63 | 285.44 | 289.34 | -89.288 | 7,118.18 | -10,159.33 | 1,244.58 | 671.61 | 572.96 | 2.172 | |
| 17,900.00 | 5,598.97 | 18,476.23 | 5,583.55 | 287.75 | 291.64 | -89.289 | 7,188.26 | -10,230.66 | 1,244.33 | 666.76 | 577.58 | 2.154 | |
| 18,000.00 | 5,599.86 | 18,576.22 | 5,584.47 | 290.06 | 293.94 | -89.290 | 7,258.33 | -10,302.00 | 1,244.09 | 661.90 | 582.19 | 2.137 | |
| 18,100.00 | 5,600.75 | 18,676.22 | 5,585.39 | 292.37 | 296.24 | -89.291 | 7,328.41 | -10,373.33 | 1,243.85 | 657.05 | 586.80 | 2.120 | |
| 18,200.00 | 5,601.65 | 18,776.22 | 5,586.31 | 294.68 | 298.54 | -89.292 | 7,398.48 | -10,444.67 | 1,243.61 | 652.19 | 591.41 | 2.103 | |
| 18,300.00 | 5,602.54 | 18,876.22 | 5,587.23 | 297.00 | 300.84 | -89.293 | 7,468.55 | -10,516.00 | 1,243.36 | 647.34 | 596.03 | 2.086 | |
| 18,400.00 | 5,603.43 | 18,976.22 | 5,588.15 | 299.31 | 303.14 | -89.295 | 7,538.63 | -10,587.34 | 1,243.12 | 642.48 | 600.64 | 2.070 | |
| 18,500.00 | 5,604.32 | 19,076.22 | 5,589.07 | 301.62 | 305.44 | -89.296 | 7,608.70 | -10,658.67 | 1,242.88 | 637.62 | 605.25 | 2.053 | |
| 18,600.00 | 5,605.22 | 19,176.22 | 5,589.99 | 303.93 | 307.74 | -89.297 | 7,678.78 | -10,730.01 | 1,242.64 | 632.77 | 609.87 | 2.038 | |
| 18,700.00 | 5,606.11 | 19,276.22 | 5,590.91 | 306.24 | 310.04 | -89.298 | 7,748.85 | -10,801.34 | 1,242.39 | 627.91 | 614.48 | 2.022 | |
| 18,800.00 | 5,607.00 | 19,376.22 | 5,591.83 | 308.55 | 312.34 | -89.299 | 7,818.92 | -10,872.68 | 1,242.15 | 623.06 | 619.09 | 2.006 | |
| 18,900.00 | 5,607.89 | 19,476.22 | 5,592.75 | 310.86 | 314.65 | -89.300 | 7,889.00 | -10,944.01 | 1,241.91 | 618.20 | 623.71 | 1.991 | Level 3<2.00 |
| 19,000.00 | 5,608.79 | 19,576.22 | 5,593.67 | 313.17 | 316.95 | -89.301 | 7,959.07 | -11,015.35 | 1,241.66 | 613.35 | 628.32 | 1.976 | Level 3<2.00 |
| 19,100.00 | 5,609.68 | 19,676.22 | 5,594.59 | 315.48 | 319.25 | -89.303 | 8,029.15 | -11,086.68 | 1,241.42 | 608.49 | 632.93 | 1.961 | Level 3<2.00 |
| 19,200.00 | 5,610.57 | 19,776.22 | 5,595.51 | 317.80 | 321.55 | -89.304 | 8,099.22 | -11,158.02 | 1,241.18 | 603.63 | 637.54 | 1.947 | Level 3<2.00 |
| 19,300.00 | 5,611.46 | 19,876.22 | 5,596.43 | 320.11 | 323.86 | -89.305 | 8,169.29 | -11,229.35 | 1,240.94 | 598.78 | 642.16 | 1.932 | Level 3<2.00 |
| 19,400.00 | 5,612.36 | 19,976.22 | 5,597.35 | 322.42 | 326.16 | -89.306 | 8,239.37 | -11,300.69 | 1,240.69 | 593.92 | 646.77 | 1.918 | Level 3<2.00 |
| 19,500.00 | 5,613.25 | 20,076.22 | 5,598.28 | 324.73 | 328.46 | -89.307 | 8,309.44 | -11,372.03 | 1,240.45 | 589.07 | 651.39 | 1.904 | Level 3<2.00 |
| 19,600.00 | 5,614.14 | 20,176.22 | 5,599.20 | 327.04 | 330.76 | -89.308 | 8,379.52 | -11,443.36 | 1,240.21 | 584.21 | 656.00 | 1.891 | Level 3<2.00 |
| 19,700.00 | 5,615.03 | 20,276.22 | 5,600.12 | 329.36 | 333.07 | -89.309 | 8,449.59 | -11,514.70 | 1,239.97 | 579.35 | 660.61 | 1.877 | Level 3<2.00 |
| 19,800.00 | 5,615.92 | 20,376.22 | 5,601.04 | 331.67 | 335.37 | -89.311 | 8,519.66 | -11,586.03 | 1,239.72 | 574.50 | 665.23 | 1.864 | Level 3<2.00 |
| 19,900.00 | 5,616.82 | 20,476.22 | 5,601.96 | 333.98 | 337.67 | -89.312 | 8,589.74 | -11,657.37 | 1,239.48 | 569.64 | 669.84 | 1.850 | Level 3<2.00 |
| 20,000.00 | 5,617.71 | 20,576.22 | 5,602.88 | 336.29 | 339.98 | -89.313 | 8,659.81 | -11,728.70 | 1,239.24 | 564.79 | 674.45 | 1.837 | Level 3<2.00 |
| 20,100.00 | 5,618.60 | 20,676.22 | 5,603.80 | 338.60 | 342.28 | -89.314 | 8,729.89 | -11,800.04 | 1,239.00 | 559.93 | 679.07 | 1.825 | Level 3<2.00 |
| 20,200.00 | 5,619.49 | 20,776.22 | 5,604.72 | 340.92 | 344.59 | -89.315 | 8,799.96 | -11,871.37 | 1,238.75 | 555.07 | 683.68 | 1.812 | Level 3<2.00 |
| 20,300.00 | 5,620.39 | 20,876.22 | 5,605.64 | 343.23 | 346.89 | -89.316 | 8,870.03 | -11,942.71 | 1,238.51 | 550.22 | 688.29 | 1.799 | Level 3<2.00 |
| 20,400.00 | 5,621.28 | 20,976.22 | 5,606.56 | 345.54 | 349.19 | -89.317 | 8,940.11 | -12,014.04 | 1,238.27 | 545.36 | 692.91 | 1.787 | Level 3<2.00 |
| 20,500.00 | 5,622.17 | 21,076.22 | 5,607.48 | 347.85 | 351.50 | -89.319 | 9,010.18 | -12,085.38 | 1,238.02 | 540.50 | 697.52 | 1.775 | Level 3<2.00 |
| 20,600.00 | 5,623.06 | 21,176.22 | 5,608.40 | 350.17 | 353.80 | -89.320 | 9,080.26 | -12,156.71 | 1,237.78 | 535.65 | 702.13 | 1.763 | Level 3<2.00 |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 027H - Orig hole - rev0 — **Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD — **Rule Assigned:** — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20,700.00 | 5,623.96 | 21,276.22 | 5,609.32 | 352.48 | 356.11 | -89.321 | 9,150.33 | -12,228.05 | 1,237.54 | 530.79 | 706.75 | 1.751 | Level 3<2.00 |
| 20,800.00 | 5,624.85 | 21,376.22 | 5,610.24 | 354.79 | 358.41 | -89.322 | 9,220.40 | -12,299.38 | 1,237.30 | 525.94 | 711.36 | 1.739 | Level 3<2.00 |
| 20,900.00 | 5,625.74 | 21,476.22 | 5,611.16 | 357.10 | 360.72 | -89.323 | 9,290.48 | -12,370.72 | 1,237.05 | 521.08 | 715.97 | 1.728 | Level 3<2.00 |
| 21,000.00 | 5,626.63 | 21,576.22 | 5,612.08 | 359.42 | 363.02 | -89.324 | 9,360.55 | -12,442.05 | 1,236.81 | 516.22 | 720.59 | 1.716 | Level 3<2.00 |
| 21,100.00 | 5,627.53 | 21,676.22 | 5,613.00 | 361.73 | 365.33 | -89.326 | 9,430.63 | -12,513.39 | 1,236.57 | 511.37 | 725.20 | 1.705 | Level 3<2.00 |
| 21,200.00 | 5,628.42 | 21,776.22 | 5,613.92 | 364.04 | 367.63 | -89.327 | 9,500.70 | -12,584.73 | 1,236.33 | 506.51 | 729.81 | 1.694 | Level 3<2.00 |
| 21,300.00 | 5,629.31 | 21,876.22 | 5,614.84 | 366.35 | 369.94 | -89.328 | 9,570.77 | -12,656.06 | 1,236.08 | 501.66 | 734.43 | 1.683 | Level 3<2.00 |
| 21,400.00 | 5,630.20 | 21,976.21 | 5,615.76 | 368.67 | 372.24 | -89.329 | 9,640.85 | -12,727.40 | 1,235.84 | 496.80 | 739.04 | 1.672 | Level 3<2.00 |
| 21,500.00 | 5,631.10 | 22,076.21 | 5,616.68 | 370.98 | 374.55 | -89.330 | 9,710.92 | -12,798.73 | 1,235.60 | 491.95 | 743.65 | 1.662 | Level 3<2.00 |
| 21,600.00 | 5,631.99 | 22,176.21 | 5,617.60 | 373.29 | 376.86 | -89.331 | 9,781.00 | -12,870.07 | 1,235.36 | 487.09 | 748.26 | 1.651 | Level 3<2.00 |
| 21,700.00 | 5,632.88 | 22,276.21 | 5,618.52 | 375.61 | 379.16 | -89.332 | 9,851.07 | -12,941.40 | 1,235.11 | 482.24 | 752.88 | 1.641 | Level 3<2.00 |
| 21,800.00 | 5,633.77 | 22,376.21 | 5,619.44 | 377.92 | 381.47 | -89.334 | 9,921.14 | -13,012.74 | 1,234.87 | 477.38 | 757.49 | 1.630 | Level 3<2.00 |
| 21,900.00 | 5,634.67 | 22,476.21 | 5,620.36 | 380.23 | 383.77 | -89.335 | 9,991.22 | -13,084.07 | 1,234.63 | 472.53 | 762.10 | 1.620 | Level 3<2.00 |
| 22,000.00 | 5,635.56 | 22,576.21 | 5,621.28 | 382.55 | 386.08 | -89.336 | 10,061.29 | -13,155.41 | 1,234.38 | 467.67 | 766.71 | 1.610 | Level 3<2.00 |
| 22,100.00 | 5,636.45 | 22,676.21 | 5,622.20 | 384.86 | 388.39 | -89.337 | 10,131.37 | -13,226.74 | 1,234.14 | 462.82 | 771.32 | 1.600 | Level 3<2.00 |
| 22,200.00 | 5,637.34 | 22,776.21 | 5,623.12 | 387.17 | 390.69 | -89.338 | 10,201.44 | -13,298.08 | 1,233.90 | 457.96 | 775.94 | 1.590 | Level 3<2.00 |
| 22,300.00 | 5,638.24 | 22,876.21 | 5,624.04 | 389.49 | 393.00 | -89.339 | 10,271.51 | -13,369.41 | 1,233.66 | 453.11 | 780.55 | 1.580 | Level 3<2.00 |
| 22,400.00 | 5,639.13 | 22,976.21 | 5,624.96 | 391.80 | 395.31 | -89.341 | 10,341.59 | -13,440.75 | 1,233.41 | 448.25 | 785.16 | 1.571 | Level 3<2.00 |
| 22,500.00 | 5,640.02 | 23,076.21 | 5,625.88 | 394.11 | 397.61 | -89.342 | 10,411.66 | -13,512.08 | 1,233.17 | 443.40 | 789.77 | 1.561 | Level 3<2.00 |
| 22,600.00 | 5,640.91 | 23,176.21 | 5,626.80 | 396.43 | 399.92 | -89.343 | 10,481.74 | -13,583.42 | 1,232.93 | 438.55 | 794.38 | 1.552 | Level 3<2.00 |
| 22,700.00 | 5,641.80 | 23,276.21 | 5,627.72 | 398.74 | 402.23 | -89.344 | 10,551.81 | -13,654.75 | 1,232.69 | 433.69 | 798.99 | 1.543 | Level 3<2.00 |
| 22,800.00 | 5,642.70 | 23,376.21 | 5,628.64 | 401.05 | 404.53 | -89.345 | 10,621.88 | -13,726.09 | 1,232.44 | 428.84 | 803.60 | 1.534 | Level 3<2.00 |
| 22,900.00 | 5,643.59 | 23,476.21 | 5,629.56 | 403.37 | 406.84 | -89.346 | 10,691.96 | -13,797.42 | 1,232.20 | 423.99 | 808.21 | 1.525 | Level 3<2.00 |
| 23,000.00 | 5,644.48 | 23,576.21 | 5,630.48 | 405.68 | 409.15 | -89.347 | 10,762.03 | -13,868.76 | 1,231.96 | 419.13 | 812.82 | 1.516 | Level 3<2.00 |
| 23,100.00 | 5,645.37 | 23,676.21 | 5,631.40 | 407.99 | 411.46 | -89.349 | 10,832.11 | -13,940.10 | 1,231.72 | 414.28 | 817.43 | 1.507 | Level 3<2.00 |
| 23,200.00 | 5,646.27 | 23,776.21 | 5,632.32 | 410.31 | 413.76 | -89.350 | 10,902.18 | -14,011.43 | 1,231.47 | 409.43 | 822.04 | 1.498 | Level 3<2.00 |
| 23,300.00 | 5,647.16 | 23,876.21 | 5,633.24 | 412.62 | 416.07 | -89.351 | 10,972.26 | -14,082.77 | 1,231.23 | 404.58 | 826.65 | 1.489 | Level 3<2.00 |
| 23,400.00 | 5,648.05 | 23,976.21 | 5,634.16 | 414.93 | 418.38 | -89.352 | 11,042.33 | -14,154.10 | 1,230.99 | 399.73 | 831.26 | 1.481 | Level 3<2.00 |
| 23,500.00 | 5,648.94 | 24,076.21 | 5,635.08 | 417.25 | 420.69 | -89.353 | 11,112.40 | -14,225.44 | 1,230.74 | 394.87 | 835.87 | 1.472 | Level 3<2.00 |
| 23,600.00 | 5,649.84 | 24,176.21 | 5,636.00 | 419.56 | 422.99 | -89.354 | 11,182.48 | -14,296.77 | 1,230.50 | 390.02 | 840.48 | 1.464 | Level 3<2.00 |
| 23,700.00 | 5,650.73 | 24,276.21 | 5,636.92 | 421.88 | 425.30 | -89.356 | 11,252.55 | -14,368.11 | 1,230.26 | 385.17 | 845.09 | 1.456 | Level 3<2.00 |
| 23,800.00 | 5,651.62 | 24,376.21 | 5,637.84 | 424.19 | 427.61 | -89.357 | 11,322.63 | -14,439.44 | 1,230.02 | 380.32 | 849.69 | 1.448 | Level 3<2.00 |
| 23,900.00 | 5,652.51 | 24,476.21 | 5,638.76 | 426.50 | 429.92 | -89.358 | 11,392.70 | -14,510.78 | 1,229.77 | 375.47 | 854.30 | 1.440 | Level 3<2.00 |
| 24,000.00 | 5,653.41 | 24,576.21 | 5,639.68 | 428.82 | 432.22 | -89.359 | 11,462.77 | -14,582.11 | 1,229.53 | 370.62 | 858.91 | 1.432 | Level 3<2.00 |
| 24,100.00 | 5,654.30 | 24,676.21 | 5,640.60 | 431.13 | 434.53 | -89.360 | 11,532.85 | -14,653.45 | 1,229.29 | 365.77 | 863.51 | 1.424 | Level 3<2.00 |
| 24,200.00 | 5,655.19 | 24,776.21 | 5,641.52 | 433.45 | 436.84 | -89.361 | 11,602.92 | -14,724.78 | 1,229.05 | 360.93 | 868.12 | 1.416 | Level 3<2.00 |
| 24,300.00 | 5,656.08 | 24,876.21 | 5,642.44 | 435.76 | 439.15 | -89.363 | 11,673.00 | -14,796.12 | 1,228.80 | 356.08 | 872.73 | 1.408 | Level 3<2.00 |
| 24,400.00 | 5,656.98 | 24,976.21 | 5,643.36 | 438.07 | 441.46 | -89.364 | 11,743.07 | -14,867.45 | 1,228.56 | 351.23 | 877.33 | 1.400 | Level 3<2.00 |
| 24,472.46 | 5,657.62 | 25,045.69 | 5,644.00 | 439.75 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,228.39 | 347.53 | 880.86 | 1.395 | Level 3<2.00 |
| 24,500.00 | 5,657.87 | 25,045.69 | 5,644.00 | 440.39 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,228.70 | 345.61 | 883.09 | 1.391 | Level 3<2.00, SF |
| 24,600.00 | 5,658.76 | 25,045.69 | 5,644.00 | 442.70 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,234.99 | 356.57 | 878.42 | 1.406 | Level 3<2.00 |
| 24,700.00 | 5,659.65 | 25,045.69 | 5,644.00 | 445.02 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,249.28 | 393.04 | 856.25 | 1.459 | Level 3<2.00 |
| 24,800.00 | 5,660.55 | 25,045.69 | 5,644.00 | 447.33 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,271.31 | 448.84 | 822.47 | 1.546 | Level 3<2.00 |
| 24,900.00 | 5,661.44 | 25,045.69 | 5,644.00 | 449.64 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,300.66 | 517.77 | 782.90 | 1.661 | Level 3<2.00 |
| 25,000.00 | 5,662.33 | 25,045.69 | 5,644.00 | 451.96 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,336.88 | 595.29 | 741.58 | 1.803 | Level 3<2.00 |
| 25,100.00 | 5,663.22 | 25,045.69 | 5,644.00 | 454.27 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,379.40 | 678.48 | 700.92 | 1.968 | Level 3<2.00 |
| 25,187.11 | 5,664.00 | 25,045.69 | 5,644.00 | 456.29 | 443.06 | -89.365 | 11,791.76 | -14,917.02 | 1,421.15 | 754.10 | 667.04 | 2.131 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 029H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -10.279 | 19.71 | -3.57 | 20.03 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -10.279 | 19.71 | -3.57 | 20.03 | 19.48 | 0.55 | 36.521 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -10.279 | 19.71 | -3.57 | 20.03 | 18.76 | 1.27 | 15.829 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -10.279 | 19.71 | -3.57 | 20.03 | 18.05 | 1.98 | 10.104 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.35 | 1.35 | -10.279 | 19.71 | -3.57 | 20.03 | 17.33 | 2.70 | 7.421 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.71 | 1.71 | -10.279 | 19.71 | -3.57 | 20.03 | 16.61 | 3.42 | 5.863 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.07 | 2.07 | -10.279 | 19.71 | -3.57 | 20.03 | 15.90 | 4.13 | 4.846 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.43 | 2.43 | -10.279 | 19.71 | -3.57 | 20.03 | 15.18 | 4.85 | 4.130 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | -10.279 | 19.71 | -3.57 | 20.03 | 14.46 | 5.57 | 3.598 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | -10.279 | 19.71 | -3.57 | 20.03 | 13.75 | 6.28 | 3.187 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | -10.279 | 19.71 | -3.57 | 20.03 | 13.03 | 7.00 | 2.861 | CC, ES |
| 1,100.00 | 1,099.95 | 1,099.60 | 1,099.55 | 3.84 | 3.85 | 150.809 | 20.57 | -1.12 | 22.85 | 15.15 | 7.69 | 2.969 | |
| 1,200.00 | 1,199.63 | 1,197.78 | 1,197.43 | 4.18 | 4.20 | 169.572 | 23.09 | 6.08 | 34.17 | 25.81 | 8.37 | 4.085 | |
| 1,300.00 | 1,298.77 | 1,293.22 | 1,292.06 | 4.52 | 4.54 | -177.935 | 27.14 | 17.63 | 56.25 | 47.24 | 9.01 | 6.241 | |
| 1,400.00 | 1,397.08 | 1,386.53 | 1,384.01 | 4.88 | 4.90 | -171.324 | 32.40 | 32.66 | 87.90 | 78.24 | 9.66 | 9.099 | |
| 1,500.00 | 1,494.33 | 1,479.16 | 1,475.19 | 5.28 | 5.26 | -168.404 | 37.80 | 48.07 | 125.27 | 114.93 | 10.34 | 12.117 | |
| 1,600.00 | 1,591.13 | 1,571.12 | 1,565.71 | 5.70 | 5.62 | -167.073 | 43.17 | 63.38 | 164.43 | 153.43 | 11.00 | 14.952 | |
| 1,700.00 | 1,687.94 | 1,663.08 | 1,656.22 | 6.14 | 6.00 | -166.254 | 48.53 | 78.68 | 203.64 | 191.97 | 11.67 | 17.450 | |
| 1,800.00 | 1,784.74 | 1,755.04 | 1,746.74 | 6.60 | 6.38 | -165.700 | 53.89 | 93.98 | 242.88 | 230.53 | 12.35 | 19.664 | |
| 1,900.00 | 1,881.55 | 1,847.00 | 1,837.26 | 7.08 | 6.77 | -165.300 | 59.26 | 109.29 | 282.13 | 269.09 | 13.04 | 21.636 | |
| 2,000.00 | 1,978.36 | 1,938.96 | 1,927.78 | 7.56 | 7.16 | -164.997 | 64.62 | 124.59 | 321.39 | 307.65 | 13.74 | 23.398 | |
| 2,100.00 | 2,075.16 | 2,030.92 | 2,018.30 | 8.05 | 7.55 | -164.760 | 69.98 | 139.90 | 360.65 | 346.21 | 14.44 | 24.982 | |
| 2,200.00 | 2,171.97 | 2,122.88 | 2,108.82 | 8.55 | 7.95 | -164.570 | 75.34 | 155.20 | 399.92 | 384.78 | 15.14 | 26.411 | |
| 2,300.00 | 2,268.78 | 2,214.84 | 2,199.34 | 9.05 | 8.34 | -164.414 | 80.71 | 170.51 | 439.19 | 423.34 | 15.85 | 27.705 | |
| 2,400.00 | 2,365.58 | 2,306.80 | 2,289.86 | 9.56 | 8.75 | -164.283 | 86.07 | 185.81 | 478.46 | 461.90 | 16.57 | 28.881 | |
| 2,500.00 | 2,462.39 | 2,398.76 | 2,380.38 | 10.08 | 9.15 | -164.173 | 91.43 | 201.12 | 517.74 | 500.46 | 17.28 | 29.955 | |
| 2,600.00 | 2,559.20 | 2,490.72 | 2,470.89 | 10.60 | 9.55 | -164.077 | 96.79 | 216.42 | 557.02 | 539.01 | 18.00 | 30.939 | |
| 2,700.00 | 2,656.00 | 2,582.68 | 2,561.41 | 11.12 | 9.96 | -163.995 | 102.16 | 231.72 | 596.29 | 577.57 | 18.73 | 31.843 | |
| 2,800.00 | 2,752.81 | 2,674.64 | 2,651.93 | 11.64 | 10.37 | -163.922 | 107.52 | 247.03 | 635.57 | 616.12 | 19.45 | 32.675 | |
| 2,900.00 | 2,849.62 | 2,766.60 | 2,742.45 | 12.17 | 10.78 | -163.859 | 112.88 | 262.33 | 674.85 | 654.67 | 20.18 | 33.445 | |
| 3,000.00 | 2,946.42 | 2,858.56 | 2,832.97 | 12.70 | 11.19 | -163.802 | 118.24 | 277.64 | 714.13 | 693.23 | 20.91 | 34.158 | |
| 3,100.00 | 3,043.23 | 2,950.52 | 2,923.49 | 13.23 | 11.60 | -163.751 | 123.61 | 292.94 | 753.41 | 731.78 | 21.64 | 34.820 | |
| 3,200.00 | 3,140.04 | 3,042.48 | 3,014.01 | 13.76 | 12.01 | -163.705 | 128.97 | 308.25 | 792.69 | 770.33 | 22.37 | 35.437 | |
| 3,300.00 | 3,236.84 | 3,134.44 | 3,104.53 | 14.29 | 12.42 | -163.663 | 134.33 | 323.55 | 831.98 | 808.87 | 23.10 | 36.013 | |
| 3,400.00 | 3,333.65 | 3,226.40 | 3,195.05 | 14.82 | 12.83 | -163.625 | 139.69 | 338.86 | 871.26 | 847.42 | 23.84 | 36.551 | |
| 3,500.00 | 3,430.46 | 3,335.51 | 3,302.51 | 15.36 | 13.32 | -163.597 | 145.92 | 356.63 | 910.33 | 885.61 | 24.71 | 36.838 | |
| 3,600.00 | 3,527.26 | 3,502.91 | 3,468.80 | 15.90 | 13.99 | -163.837 | 152.14 | 374.37 | 944.21 | 918.25 | 25.96 | 36.375 | |
| 3,700.00 | 3,624.07 | 3,658.28 | 3,624.07 | 16.43 | 14.51 | -164.379 | 153.63 | 378.63 | 970.64 | 943.66 | 26.98 | 35.982 | |
| 3,800.00 | 3,720.88 | 3,755.09 | 3,720.88 | 16.97 | 14.82 | -164.767 | 153.63 | 378.63 | 994.86 | 967.17 | 27.69 | 35.927 | |
| 3,900.00 | 3,817.68 | 3,851.90 | 3,817.68 | 17.51 | 15.12 | -165.136 | 153.63 | 378.63 | 1,019.12 | 990.71 | 28.41 | 35.875 | |
| 4,000.00 | 3,914.49 | 3,948.70 | 3,914.49 | 18.05 | 15.43 | -165.489 | 153.63 | 378.63 | 1,043.42 | 1,014.29 | 29.12 | 35.826 | |
| 4,100.00 | 4,011.30 | 4,045.51 | 4,011.30 | 18.59 | 15.74 | -165.825 | 153.63 | 378.63 | 1,067.75 | 1,037.91 | 29.84 | 35.781 | |
| 4,200.00 | 4,108.10 | 4,142.32 | 4,108.10 | 19.13 | 16.05 | -166.146 | 153.63 | 378.63 | 1,092.12 | 1,061.56 | 30.56 | 35.737 | |
| 4,300.00 | 4,204.91 | 4,239.12 | 4,204.91 | 19.67 | 16.36 | -166.454 | 153.63 | 378.63 | 1,116.52 | 1,085.24 | 31.28 | 35.697 | |
| 4,400.00 | 4,301.98 | 4,336.19 | 4,301.98 | 20.20 | 16.68 | -166.840 | 153.63 | 378.63 | 1,139.92 | 1,107.92 | 31.99 | 35.628 | |
| 4,500.00 | 4,400.10 | 4,434.32 | 4,400.10 | 20.68 | 17.00 | -167.184 | 153.63 | 378.63 | 1,158.66 | 1,125.95 | 32.71 | 35.427 | |
| 4,600.00 | 4,499.10 | 4,533.31 | 4,499.10 | 21.11 | 17.32 | -167.427 | 153.63 | 378.63 | 1,172.38 | 1,138.97 | 33.41 | 35.093 | |
| 4,700.00 | 4,598.69 | 4,632.91 | 4,598.69 | 21.48 | 17.65 | -167.577 | 153.63 | 378.63 | 1,181.03 | 1,146.93 | 34.10 | 34.634 | |
| 4,800.00 | 4,698.62 | 4,732.83 | 4,698.62 | 21.79 | 17.98 | -167.637 | 153.63 | 378.63 | 1,184.57 | 1,149.79 | 34.78 | 34.058 | |
| 4,900.00 | 4,798.62 | 4,832.83 | 4,798.62 | 22.04 | 18.31 | 41.912 | 153.63 | 378.63 | 1,184.67 | 1,149.24 | 35.44 | 33.432 | |
| 5,000.00 | 4,898.62 | 4,932.83 | 4,898.62 | 22.30 | 18.64 | 41.912 | 153.63 | 378.63 | 1,184.67 | 1,148.58 | 36.09 | 32.826 | |
| 5,100.00 | 4,998.35 | 5,013.78 | 4,979.51 | 22.55 | 18.90 | 82.597 | 155.33 | 377.33 | 1,184.48 | 1,147.85 | 36.63 | 32.333 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 029H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,095.64 | 5,086.31 | 5,051.17 | 22.75 | 19.12 | 82.889 | 163.93 | 370.76 | 1,184.32 | 1,147.26 | 37.07 | 31.949 | |
| 5,245.22 | 5,138.03 | 5,119.28 | 5,083.18 | 22.82 | 19.22 | 83.073 | 170.21 | 365.97 | 1,184.30 | 1,147.06 | 37.24 | 31.799 | |
| 5,300.00 | 5,187.53 | 5,159.41 | 5,121.45 | 22.90 | 19.33 | 83.336 | 179.81 | 358.65 | 1,184.34 | 1,146.89 | 37.45 | 31.622 | |
| 5,400.00 | 5,271.23 | 5,233.41 | 5,189.40 | 23.00 | 19.52 | 83.925 | 202.98 | 340.96 | 1,184.64 | 1,146.82 | 37.83 | 31.319 | |
| 5,500.00 | 5,344.20 | 5,308.64 | 5,254.06 | 23.06 | 19.69 | 84.643 | 233.48 | 317.69 | 1,185.36 | 1,147.12 | 38.25 | 30.992 | |
| 5,600.00 | 5,404.22 | 5,385.53 | 5,314.36 | 23.09 | 19.84 | 85.471 | 271.32 | 288.81 | 1,186.67 | 1,147.87 | 38.80 | 30.586 | |
| 5,700.00 | 5,449.47 | 5,464.56 | 5,369.13 | 23.11 | 19.96 | 86.392 | 316.54 | 254.30 | 1,188.72 | 1,149.16 | 39.55 | 30.053 | |
| 5,800.00 | 5,478.74 | 5,546.31 | 5,417.00 | 23.20 | 20.07 | 87.833 | 369.15 | 214.15 | 1,193.12 | 1,152.54 | 40.58 | 29.403 | |
| 5,900.00 | 5,491.52 | 5,631.31 | 5,456.27 | 23.48 | 20.35 | 88.620 | 429.01 | 168.46 | 1,202.87 | 1,160.99 | 41.88 | 28.719 | |
| 6,000.00 | 5,492.77 | 5,899.45 | 5,506.16 | 24.13 | 22.77 | 90.633 | 624.43 | -4.68 | 1,210.55 | 1,165.04 | 45.51 | 26.602 | |
| 6,100.00 | 5,493.66 | 5,999.45 | 5,507.06 | 25.14 | 23.97 | 90.633 | 694.21 | -76.31 | 1,210.38 | 1,162.46 | 47.92 | 25.260 | |
| 6,200.00 | 5,494.56 | 6,099.45 | 5,507.96 | 26.40 | 25.32 | 90.634 | 763.99 | -147.93 | 1,210.21 | 1,159.57 | 50.64 | 23.898 | |
| 6,300.00 | 5,495.45 | 6,199.45 | 5,508.86 | 27.83 | 26.80 | 90.634 | 833.78 | -219.55 | 1,210.05 | 1,156.42 | 53.63 | 22.565 | |
| 6,400.00 | 5,496.34 | 6,299.45 | 5,509.76 | 29.39 | 28.39 | 90.635 | 903.56 | -291.17 | 1,209.88 | 1,153.05 | 56.83 | 21.289 | |
| 6,500.00 | 5,497.23 | 6,399.45 | 5,510.66 | 31.05 | 30.07 | 90.635 | 973.34 | -362.79 | 1,209.71 | 1,149.49 | 60.23 | 20.086 | |
| 6,600.00 | 5,498.13 | 6,499.45 | 5,511.56 | 32.79 | 31.83 | 90.635 | 1,043.12 | -434.41 | 1,209.55 | 1,145.77 | 63.77 | 18.966 | |
| 6,700.00 | 5,499.02 | 6,599.45 | 5,512.46 | 34.61 | 33.66 | 90.636 | 1,112.90 | -506.03 | 1,209.38 | 1,141.93 | 67.46 | 17.928 | |
| 6,800.00 | 5,499.91 | 6,699.45 | 5,513.36 | 36.48 | 35.55 | 90.636 | 1,182.69 | -577.66 | 1,209.22 | 1,137.97 | 71.25 | 16.972 | |
| 6,900.00 | 5,500.80 | 6,799.45 | 5,514.26 | 38.40 | 37.48 | 90.637 | 1,252.47 | -649.28 | 1,209.05 | 1,133.91 | 75.14 | 16.091 | |
| 7,000.00 | 5,501.70 | 6,899.45 | 5,515.16 | 40.36 | 39.45 | 90.637 | 1,322.25 | -720.90 | 1,208.88 | 1,129.78 | 79.10 | 15.282 | |
| 7,100.00 | 5,502.59 | 6,999.45 | 5,516.06 | 42.36 | 41.46 | 90.638 | 1,392.03 | -792.52 | 1,208.72 | 1,125.58 | 83.14 | 14.538 | |
| 7,200.00 | 5,503.48 | 7,099.45 | 5,516.96 | 44.39 | 43.50 | 90.638 | 1,461.82 | -864.14 | 1,208.55 | 1,121.31 | 87.24 | 13.854 | |
| 7,300.00 | 5,504.37 | 7,199.45 | 5,517.86 | 46.44 | 45.57 | 90.639 | 1,531.60 | -935.76 | 1,208.38 | 1,117.00 | 91.38 | 13.223 | |
| 7,400.00 | 5,505.27 | 7,299.45 | 5,518.76 | 48.52 | 47.66 | 90.639 | 1,601.38 | -1,007.38 | 1,208.22 | 1,112.64 | 95.58 | 12.641 | |
| 7,500.00 | 5,506.16 | 7,399.45 | 5,519.66 | 50.62 | 49.77 | 90.640 | 1,671.16 | -1,079.00 | 1,208.05 | 1,108.25 | 99.81 | 12.104 | |
| 7,600.00 | 5,507.05 | 7,499.45 | 5,520.56 | 52.74 | 51.90 | 90.640 | 1,740.94 | -1,150.63 | 1,207.89 | 1,103.81 | 104.07 | 11.606 | |
| 7,700.00 | 5,507.94 | 7,599.44 | 5,521.46 | 54.87 | 54.04 | 90.640 | 1,810.73 | -1,222.25 | 1,207.72 | 1,099.35 | 108.37 | 11.145 | |
| 7,800.00 | 5,508.84 | 7,699.44 | 5,522.36 | 57.02 | 56.20 | 90.641 | 1,880.51 | -1,293.87 | 1,207.55 | 1,094.86 | 112.69 | 10.716 | |
| 7,900.00 | 5,509.73 | 7,799.44 | 5,523.26 | 59.18 | 58.37 | 90.641 | 1,950.29 | -1,365.49 | 1,207.39 | 1,090.35 | 117.04 | 10.316 | |
| 8,000.00 | 5,510.62 | 7,899.44 | 5,524.16 | 61.35 | 60.55 | 90.642 | 2,020.07 | -1,437.11 | 1,207.22 | 1,085.82 | 121.41 | 9.944 | |
| 8,100.00 | 5,511.51 | 7,999.44 | 5,525.06 | 63.53 | 62.74 | 90.642 | 2,089.85 | -1,508.73 | 1,207.06 | 1,081.26 | 125.79 | 9.596 | |
| 8,200.00 | 5,512.41 | 8,099.44 | 5,525.96 | 65.72 | 64.94 | 90.643 | 2,159.64 | -1,580.35 | 1,206.89 | 1,076.69 | 130.20 | 9.270 | |
| 8,300.00 | 5,513.30 | 8,199.44 | 5,526.86 | 67.92 | 67.14 | 90.643 | 2,229.42 | -1,651.97 | 1,206.72 | 1,072.11 | 134.62 | 8.964 | |
| 8,400.00 | 5,514.19 | 8,299.44 | 5,527.76 | 70.13 | 69.36 | 90.644 | 2,299.20 | -1,723.60 | 1,206.56 | 1,067.51 | 139.05 | 8.677 | |
| 8,500.00 | 5,515.08 | 8,399.44 | 5,528.66 | 72.34 | 71.58 | 90.644 | 2,368.98 | -1,795.22 | 1,206.39 | 1,062.89 | 143.50 | 8.407 | |
| 8,600.00 | 5,515.97 | 8,499.44 | 5,529.56 | 74.56 | 73.80 | 90.644 | 2,438.77 | -1,866.84 | 1,206.22 | 1,058.27 | 147.95 | 8.153 | |
| 8,700.00 | 5,516.87 | 8,599.44 | 5,530.46 | 76.79 | 76.03 | 90.645 | 2,508.55 | -1,938.46 | 1,206.06 | 1,053.64 | 152.42 | 7.913 | |
| 8,800.00 | 5,517.76 | 8,699.44 | 5,531.36 | 79.02 | 78.27 | 90.645 | 2,578.33 | -2,010.08 | 1,205.89 | 1,048.99 | 156.90 | 7.686 | |
| 8,900.00 | 5,518.65 | 8,799.44 | 5,532.26 | 81.25 | 80.51 | 90.646 | 2,648.11 | -2,081.70 | 1,205.73 | 1,044.34 | 161.39 | 7.471 | |
| 9,000.00 | 5,519.54 | 8,899.44 | 5,533.16 | 83.49 | 82.76 | 90.646 | 2,717.89 | -2,153.32 | 1,205.56 | 1,039.68 | 165.88 | 7.268 | |
| 9,100.00 | 5,520.44 | 8,999.44 | 5,534.06 | 85.74 | 85.01 | 90.647 | 2,787.68 | -2,224.95 | 1,205.39 | 1,035.01 | 170.39 | 7.075 | |
| 9,200.00 | 5,521.33 | 9,099.44 | 5,534.96 | 87.99 | 87.26 | 90.647 | 2,857.46 | -2,296.57 | 1,205.23 | 1,030.33 | 174.89 | 6.891 | |
| 9,300.00 | 5,522.22 | 9,199.44 | 5,535.86 | 90.24 | 89.52 | 90.648 | 2,927.24 | -2,368.19 | 1,205.06 | 1,025.65 | 179.41 | 6.717 | |
| 9,400.00 | 5,523.11 | 9,299.44 | 5,536.76 | 92.49 | 91.78 | 90.648 | 2,997.02 | -2,439.81 | 1,204.90 | 1,020.96 | 183.93 | 6.551 | |
| 9,500.00 | 5,524.01 | 9,399.44 | 5,537.66 | 94.75 | 94.04 | 90.649 | 3,066.81 | -2,511.43 | 1,204.73 | 1,016.27 | 188.46 | 6.393 | |
| 9,600.00 | 5,524.90 | 9,499.44 | 5,538.56 | 97.01 | 96.31 | 90.649 | 3,136.59 | -2,583.05 | 1,204.56 | 1,011.57 | 192.99 | 6.242 | |
| 9,700.00 | 5,525.79 | 9,599.44 | 5,539.46 | 99.27 | 98.57 | 90.649 | 3,206.37 | -2,654.67 | 1,204.40 | 1,006.87 | 197.53 | 6.097 | |
| 9,800.00 | 5,526.68 | 9,699.44 | 5,540.36 | 101.54 | 100.84 | 90.650 | 3,276.15 | -2,726.29 | 1,204.23 | 1,002.16 | 202.07 | 5.960 | |
| 9,900.00 | 5,527.58 | 9,799.44 | 5,541.26 | 103.80 | 103.11 | 90.650 | 3,345.93 | -2,797.92 | 1,204.06 | 997.45 | 206.61 | 5.828 | |
| 10,000.00 | 5,528.47 | 9,899.44 | 5,542.16 | 106.07 | 105.39 | 90.651 | 3,415.72 | -2,869.54 | 1,203.90 | 992.74 | 211.16 | 5.701 | |
| 10,100.00 | 5,529.36 | 9,999.44 | 5,543.06 | 108.35 | 107.66 | 90.651 | 3,485.50 | -2,941.16 | 1,203.73 | 988.02 | 215.72 | 5.580 | |
| 10,200.00 | 5,530.25 | 10,099.44 | 5,543.96 | 110.62 | 109.94 | 90.652 | 3,555.28 | -3,012.78 | 1,203.57 | 983.29 | 220.27 | 5.464 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 029H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,300.00 | 5,531.15 | 10,199.44 | 5,544.86 | 112.89 | 112.22 | 90.652 | 3,625.06 | -3,084.40 | 1,203.40 | 978.57 | 224.83 | 5.352 | |
| 10,400.00 | 5,532.04 | 10,299.44 | 5,545.76 | 115.17 | 114.50 | 90.653 | 3,694.84 | -3,156.02 | 1,203.23 | 973.84 | 229.39 | 5.245 | |
| 10,500.00 | 5,532.93 | 10,399.44 | 5,546.66 | 117.45 | 116.78 | 90.653 | 3,764.63 | -3,227.64 | 1,203.07 | 969.11 | 233.96 | 5.142 | |
| 10,600.00 | 5,533.82 | 10,499.44 | 5,547.56 | 119.73 | 119.07 | 90.654 | 3,834.41 | -3,299.26 | 1,202.90 | 964.37 | 238.53 | 5.043 | |
| 10,700.00 | 5,534.72 | 10,599.44 | 5,548.46 | 122.01 | 121.35 | 90.654 | 3,904.19 | -3,370.89 | 1,202.73 | 959.64 | 243.10 | 4.948 | |
| 10,800.00 | 5,535.61 | 10,699.44 | 5,549.36 | 124.29 | 123.64 | 90.654 | 3,973.97 | -3,442.51 | 1,202.57 | 954.90 | 247.67 | 4.856 | |
| 10,900.00 | 5,536.50 | 10,799.44 | 5,550.26 | 126.58 | 125.93 | 90.655 | 4,043.76 | -3,514.13 | 1,202.40 | 950.16 | 252.24 | 4.767 | |
| 11,000.00 | 5,537.39 | 10,899.44 | 5,551.16 | 128.86 | 128.21 | 90.655 | 4,113.54 | -3,585.75 | 1,202.24 | 945.41 | 256.82 | 4.681 | |
| 11,100.00 | 5,538.29 | 10,999.44 | 5,552.06 | 131.15 | 130.50 | 90.656 | 4,183.32 | -3,657.37 | 1,202.07 | 940.67 | 261.40 | 4.599 | |
| 11,200.00 | 5,539.18 | 11,099.44 | 5,552.96 | 133.44 | 132.79 | 90.656 | 4,253.10 | -3,728.99 | 1,201.90 | 935.92 | 265.98 | 4.519 | |
| 11,300.00 | 5,540.07 | 11,199.44 | 5,553.86 | 135.72 | 135.09 | 90.657 | 4,322.88 | -3,800.61 | 1,201.74 | 931.17 | 270.56 | 4.442 | |
| 11,400.00 | 5,540.96 | 11,299.44 | 5,554.76 | 138.01 | 137.38 | 90.657 | 4,392.67 | -3,872.23 | 1,201.57 | 926.42 | 275.15 | 4.367 | |
| 11,500.00 | 5,541.85 | 11,399.44 | 5,555.66 | 140.30 | 139.67 | 90.658 | 4,462.45 | -3,943.86 | 1,201.41 | 921.67 | 279.74 | 4.295 | |
| 11,600.00 | 5,542.75 | 11,499.44 | 5,556.56 | 142.59 | 141.96 | 90.658 | 4,532.23 | -4,015.48 | 1,201.24 | 916.92 | 284.32 | 4.225 | |
| 11,700.00 | 5,543.64 | 11,599.44 | 5,557.46 | 144.89 | 144.26 | 90.659 | 4,602.01 | -4,087.10 | 1,201.07 | 912.16 | 288.91 | 4.157 | |
| 11,800.00 | 5,544.53 | 11,699.44 | 5,558.36 | 147.18 | 146.56 | 90.659 | 4,671.80 | -4,158.72 | 1,200.91 | 907.40 | 293.50 | 4.092 | |
| 11,900.00 | 5,545.42 | 11,799.44 | 5,559.26 | 149.47 | 148.85 | 90.659 | 4,741.58 | -4,230.34 | 1,200.74 | 902.65 | 298.10 | 4.028 | |
| 12,000.00 | 5,546.32 | 11,899.44 | 5,560.16 | 151.76 | 151.15 | 90.660 | 4,811.36 | -4,301.96 | 1,200.57 | 897.89 | 302.69 | 3.966 | |
| 12,100.00 | 5,547.21 | 11,999.44 | 5,561.06 | 154.06 | 153.45 | 90.660 | 4,881.14 | -4,373.58 | 1,200.41 | 893.13 | 307.28 | 3.907 | |
| 12,200.00 | 5,548.10 | 12,099.44 | 5,561.96 | 156.35 | 155.74 | 90.661 | 4,950.92 | -4,445.21 | 1,200.24 | 888.36 | 311.88 | 3.848 | |
| 12,300.00 | 5,548.99 | 12,199.44 | 5,562.86 | 158.65 | 158.04 | 90.661 | 5,020.71 | -4,516.83 | 1,200.08 | 883.60 | 316.48 | 3.792 | |
| 12,400.00 | 5,549.89 | 12,299.44 | 5,563.76 | 160.95 | 160.34 | 90.662 | 5,090.49 | -4,588.45 | 1,199.91 | 878.84 | 321.07 | 3.737 | |
| 12,500.00 | 5,550.78 | 12,399.44 | 5,564.66 | 163.24 | 162.64 | 90.662 | 5,160.27 | -4,660.07 | 1,199.74 | 874.07 | 325.67 | 3.684 | |
| 12,600.00 | 5,551.67 | 12,499.44 | 5,565.56 | 165.54 | 164.94 | 90.663 | 5,230.05 | -4,731.69 | 1,199.58 | 869.31 | 330.27 | 3.632 | |
| 12,700.00 | 5,552.56 | 12,599.44 | 5,566.46 | 167.84 | 167.24 | 90.663 | 5,299.84 | -4,803.31 | 1,199.41 | 864.54 | 334.87 | 3.582 | |
| 12,800.00 | 5,553.46 | 12,699.44 | 5,567.36 | 170.14 | 169.54 | 90.664 | 5,369.62 | -4,874.93 | 1,199.25 | 859.77 | 339.47 | 3.533 | |
| 12,900.00 | 5,554.35 | 12,799.44 | 5,568.26 | 172.44 | 171.84 | 90.664 | 5,439.40 | -4,946.55 | 1,199.08 | 855.00 | 344.08 | 3.485 | |
| 13,000.00 | 5,555.24 | 12,899.44 | 5,569.16 | 174.74 | 174.15 | 90.665 | 5,509.18 | -5,018.18 | 1,198.91 | 850.23 | 348.68 | 3.438 | |
| 13,100.00 | 5,556.13 | 12,999.44 | 5,570.06 | 177.04 | 176.45 | 90.665 | 5,578.96 | -5,089.80 | 1,198.75 | 845.46 | 353.28 | 3.393 | |
| 13,200.00 | 5,557.03 | 13,099.44 | 5,570.96 | 179.34 | 178.75 | 90.665 | 5,648.75 | -5,161.42 | 1,198.58 | 840.69 | 357.89 | 3.349 | |
| 13,300.00 | 5,557.92 | 13,199.44 | 5,571.86 | 181.64 | 181.06 | 90.666 | 5,718.53 | -5,233.04 | 1,198.41 | 835.92 | 362.50 | 3.306 | |
| 13,400.00 | 5,558.81 | 13,299.44 | 5,572.76 | 183.94 | 183.36 | 90.666 | 5,788.31 | -5,304.66 | 1,198.25 | 831.15 | 367.10 | 3.264 | |
| 13,500.00 | 5,559.70 | 13,399.44 | 5,573.66 | 186.24 | 185.66 | 90.667 | 5,858.09 | -5,376.28 | 1,198.08 | 826.37 | 371.71 | 3.223 | |
| 13,600.00 | 5,560.60 | 13,499.44 | 5,574.56 | 188.54 | 187.97 | 90.667 | 5,927.87 | -5,447.90 | 1,197.92 | 821.60 | 376.32 | 3.183 | |
| 13,700.00 | 5,561.49 | 13,599.44 | 5,575.46 | 190.85 | 190.27 | 90.668 | 5,997.66 | -5,519.52 | 1,197.75 | 816.82 | 380.93 | 3.144 | |
| 13,800.00 | 5,562.38 | 13,699.44 | 5,576.36 | 193.15 | 192.58 | 90.668 | 6,067.44 | -5,591.15 | 1,197.58 | 812.05 | 385.53 | 3.106 | |
| 13,900.00 | 5,563.27 | 13,799.44 | 5,577.26 | 195.45 | 194.88 | 90.669 | 6,137.22 | -5,662.77 | 1,197.42 | 807.27 | 390.14 | 3.069 | |
| 14,000.00 | 5,564.17 | 13,899.44 | 5,578.16 | 197.75 | 197.19 | 90.669 | 6,207.00 | -5,734.39 | 1,197.25 | 802.50 | 394.75 | 3.033 | |
| 14,100.00 | 5,565.06 | 13,999.44 | 5,579.06 | 200.06 | 199.49 | 90.670 | 6,276.79 | -5,806.01 | 1,197.08 | 797.72 | 399.36 | 2.997 | |
| 14,200.00 | 5,565.95 | 14,099.44 | 5,579.96 | 202.36 | 201.80 | 90.670 | 6,346.57 | -5,877.63 | 1,196.92 | 792.94 | 403.98 | 2.963 | |
| 14,300.00 | 5,566.84 | 14,199.44 | 5,580.86 | 204.67 | 204.11 | 90.670 | 6,416.35 | -5,949.25 | 1,196.75 | 788.17 | 408.59 | 2.929 | |
| 14,400.00 | 5,567.73 | 14,299.44 | 5,581.76 | 206.97 | 206.41 | 90.671 | 6,486.13 | -6,020.87 | 1,196.59 | 783.39 | 413.20 | 2.896 | |
| 14,500.00 | 5,568.63 | 14,399.44 | 5,582.66 | 209.28 | 208.72 | 90.671 | 6,555.91 | -6,092.50 | 1,196.42 | 778.61 | 417.81 | 2.864 | |
| 14,600.00 | 5,569.52 | 14,499.44 | 5,583.56 | 211.58 | 211.03 | 90.672 | 6,625.70 | -6,164.12 | 1,196.25 | 773.83 | 422.42 | 2.832 | |
| 14,700.00 | 5,570.41 | 14,599.44 | 5,584.46 | 213.89 | 213.33 | 90.672 | 6,695.48 | -6,235.74 | 1,196.09 | 769.05 | 427.04 | 2.801 | |
| 14,800.00 | 5,571.30 | 14,699.44 | 5,585.36 | 216.19 | 215.64 | 90.673 | 6,765.26 | -6,307.36 | 1,195.92 | 764.27 | 431.65 | 2.771 | |
| 14,900.00 | 5,572.20 | 14,799.44 | 5,586.26 | 218.50 | 217.95 | 90.673 | 6,835.04 | -6,378.98 | 1,195.76 | 759.49 | 436.27 | 2.741 | |
| 15,000.00 | 5,573.09 | 14,899.44 | 5,587.16 | 220.80 | 220.26 | 90.674 | 6,904.83 | -6,450.60 | 1,195.59 | 754.71 | 440.88 | 2.712 | |
| 15,100.00 | 5,573.98 | 14,999.43 | 5,588.06 | 223.11 | 222.57 | 90.674 | 6,974.61 | -6,522.22 | 1,195.42 | 749.93 | 445.50 | 2.683 | |
| 15,200.00 | 5,574.87 | 15,099.43 | 5,588.96 | 225.42 | 224.87 | 90.675 | 7,044.39 | -6,593.84 | 1,195.26 | 745.15 | 450.11 | 2.655 | |
| 15,300.00 | 5,575.77 | 15,199.43 | 5,589.86 | 227.72 | 227.18 | 90.675 | 7,114.17 | -6,665.47 | 1,195.09 | 740.36 | 454.73 | 2.628 | |
| 15,400.00 | 5,576.66 | 15,299.43 | 5,590.76 | 230.03 | 229.49 | 90.676 | 7,183.95 | -6,737.09 | 1,194.92 | 735.58 | 459.34 | 2.601 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 029H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,500.00 | 5,577.55 | 15,399.43 | 5,591.66 | 232.34 | 231.80 | 90.676 | 7,253.74 | -6,808.71 | 1,194.76 | 730.80 | 463.96 | 2.575 | |
| 15,600.00 | 5,578.44 | 15,499.43 | 5,592.56 | 234.64 | 234.11 | 90.676 | 7,323.52 | -6,880.33 | 1,194.59 | 726.02 | 468.58 | 2.549 | |
| 15,700.00 | 5,579.34 | 15,599.43 | 5,593.46 | 236.95 | 236.42 | 90.677 | 7,393.30 | -6,951.95 | 1,194.43 | 721.23 | 473.19 | 2.524 | |
| 15,800.00 | 5,580.23 | 15,699.43 | 5,594.36 | 239.26 | 238.73 | 90.677 | 7,463.08 | -7,023.57 | 1,194.26 | 716.45 | 477.81 | 2.499 | |
| 15,900.00 | 5,581.12 | 15,799.43 | 5,595.26 | 241.57 | 241.04 | 90.678 | 7,532.86 | -7,095.19 | 1,194.09 | 711.66 | 482.43 | 2.475 | |
| 16,000.00 | 5,582.01 | 15,899.43 | 5,596.16 | 243.87 | 243.35 | 90.678 | 7,602.65 | -7,166.81 | 1,193.93 | 706.88 | 487.05 | 2.451 | |
| 16,100.00 | 5,582.91 | 15,999.43 | 5,597.06 | 246.18 | 245.66 | 90.679 | 7,672.43 | -7,238.44 | 1,193.76 | 702.10 | 491.67 | 2.428 | |
| 16,200.00 | 5,583.80 | 16,099.43 | 5,597.96 | 248.49 | 247.97 | 90.679 | 7,742.21 | -7,310.06 | 1,193.60 | 697.31 | 496.28 | 2.405 | |
| 16,300.00 | 5,584.69 | 16,199.43 | 5,598.86 | 250.80 | 250.28 | 90.680 | 7,811.99 | -7,381.68 | 1,193.43 | 692.53 | 500.90 | 2.383 | |
| 16,400.00 | 5,585.58 | 16,299.43 | 5,599.76 | 253.11 | 252.59 | 90.680 | 7,881.78 | -7,453.30 | 1,193.26 | 687.74 | 505.52 | 2.360 | |
| 16,500.00 | 5,586.48 | 16,399.43 | 5,600.66 | 255.42 | 254.90 | 90.681 | 7,951.56 | -7,524.92 | 1,193.10 | 682.95 | 510.14 | 2.339 | |
| 16,600.00 | 5,587.37 | 16,499.43 | 5,601.57 | 257.73 | 257.21 | 90.681 | 8,021.34 | -7,596.54 | 1,192.93 | 678.17 | 514.76 | 2.317 | |
| 16,700.00 | 5,588.26 | 16,599.43 | 5,602.47 | 260.03 | 259.52 | 90.682 | 8,091.12 | -7,668.16 | 1,192.76 | 673.38 | 519.38 | 2.297 | |
| 16,800.00 | 5,589.15 | 16,699.43 | 5,603.37 | 262.34 | 261.83 | 90.682 | 8,160.90 | -7,739.78 | 1,192.60 | 668.60 | 524.00 | 2.276 | |
| 16,900.00 | 5,590.05 | 16,799.43 | 5,604.27 | 264.65 | 264.14 | 90.682 | 8,230.69 | -7,811.41 | 1,192.43 | 663.81 | 528.62 | 2.256 | |
| 17,000.00 | 5,590.94 | 16,899.43 | 5,605.17 | 266.96 | 266.46 | 90.683 | 8,300.47 | -7,883.03 | 1,192.27 | 659.02 | 533.24 | 2.236 | |
| 17,100.00 | 5,591.83 | 16,999.43 | 5,606.07 | 269.27 | 268.77 | 90.683 | 8,370.25 | -7,954.65 | 1,192.10 | 654.23 | 537.86 | 2.216 | |
| 17,200.00 | 5,592.72 | 17,099.43 | 5,606.97 | 271.58 | 271.08 | 90.684 | 8,440.03 | -8,026.27 | 1,191.93 | 649.45 | 542.49 | 2.197 | |
| 17,300.00 | 5,593.61 | 17,199.43 | 5,607.87 | 273.89 | 273.39 | 90.684 | 8,509.82 | -8,097.89 | 1,191.77 | 644.66 | 547.11 | 2.178 | |
| 17,400.00 | 5,594.51 | 17,299.43 | 5,608.77 | 276.20 | 275.70 | 90.685 | 8,579.60 | -8,169.51 | 1,191.60 | 639.87 | 551.73 | 2.160 | |
| 17,500.00 | 5,595.40 | 17,399.43 | 5,609.67 | 278.51 | 278.01 | 90.685 | 8,649.38 | -8,241.13 | 1,191.43 | 635.08 | 556.35 | 2.142 | |
| 17,600.00 | 5,596.29 | 17,499.43 | 5,610.57 | 280.82 | 280.33 | 90.686 | 8,719.16 | -8,312.76 | 1,191.27 | 630.30 | 560.97 | 2.124 | |
| 17,700.00 | 5,597.18 | 17,599.43 | 5,611.47 | 283.13 | 282.64 | 90.686 | 8,788.94 | -8,384.38 | 1,191.10 | 625.51 | 565.59 | 2.106 | |
| 17,800.00 | 5,598.08 | 17,699.43 | 5,612.37 | 285.44 | 284.95 | 90.687 | 8,858.73 | -8,456.00 | 1,190.94 | 620.72 | 570.22 | 2.089 | |
| 17,900.00 | 5,598.97 | 17,799.43 | 5,613.27 | 287.75 | 287.26 | 90.687 | 8,928.51 | -8,527.62 | 1,190.77 | 615.93 | 574.84 | 2.071 | |
| 18,000.00 | 5,599.86 | 17,899.43 | 5,614.17 | 290.06 | 289.57 | 90.688 | 8,998.29 | -8,599.24 | 1,190.60 | 611.14 | 579.46 | 2.055 | |
| 18,100.00 | 5,600.75 | 17,999.43 | 5,615.07 | 292.37 | 291.89 | 90.688 | 9,068.07 | -8,670.86 | 1,190.44 | 606.35 | 584.08 | 2.038 | |
| 18,200.00 | 5,601.65 | 18,099.43 | 5,615.97 | 294.68 | 294.20 | 90.688 | 9,137.85 | -8,742.48 | 1,190.27 | 601.57 | 588.71 | 2.022 | |
| 18,300.00 | 5,602.54 | 18,199.43 | 5,616.87 | 297.00 | 296.51 | 90.689 | 9,207.64 | -8,814.10 | 1,190.11 | 596.78 | 593.33 | 2.006 | |
| 18,400.00 | 5,603.43 | 18,299.43 | 5,617.77 | 299.31 | 298.82 | 90.689 | 9,277.42 | -8,885.73 | 1,189.94 | 591.99 | 597.95 | 1.990 | Level 3<2.00 |
| 18,500.00 | 5,604.32 | 18,399.43 | 5,618.67 | 301.62 | 301.14 | 90.690 | 9,347.20 | -8,957.35 | 1,189.77 | 587.20 | 602.58 | 1.974 | Level 3<2.00 |
| 18,600.00 | 5,605.22 | 18,499.43 | 5,619.57 | 303.93 | 303.45 | 90.690 | 9,416.98 | -9,028.97 | 1,189.61 | 582.41 | 607.20 | 1.959 | Level 3<2.00 |
| 18,700.00 | 5,606.11 | 18,599.43 | 5,620.47 | 306.24 | 305.76 | 90.691 | 9,486.77 | -9,100.59 | 1,189.44 | 577.62 | 611.82 | 1.944 | Level 3<2.00 |
| 18,800.00 | 5,607.00 | 18,699.43 | 5,621.37 | 308.55 | 308.08 | 90.691 | 9,556.55 | -9,172.21 | 1,189.27 | 572.83 | 616.45 | 1.929 | Level 3<2.00 |
| 18,900.00 | 5,607.89 | 18,799.43 | 5,622.27 | 310.86 | 310.39 | 90.692 | 9,626.33 | -9,243.83 | 1,189.11 | 568.04 | 621.07 | 1.915 | Level 3<2.00 |
| 19,000.00 | 5,608.79 | 18,899.43 | 5,623.17 | 313.17 | 312.70 | 90.692 | 9,696.11 | -9,315.45 | 1,188.94 | 563.25 | 625.69 | 1.900 | Level 3<2.00 |
| 19,100.00 | 5,609.68 | 18,999.43 | 5,624.07 | 315.48 | 315.01 | 90.693 | 9,765.89 | -9,387.07 | 1,188.78 | 558.46 | 630.32 | 1.886 | Level 3<2.00 |
| 19,200.00 | 5,610.57 | 19,099.43 | 5,624.97 | 317.80 | 317.33 | 90.693 | 9,835.68 | -9,458.70 | 1,188.61 | 553.67 | 634.94 | 1.872 | Level 3<2.00 |
| 19,300.00 | 5,611.46 | 19,199.43 | 5,625.87 | 320.11 | 319.64 | 90.694 | 9,905.46 | -9,530.32 | 1,188.44 | 548.88 | 639.57 | 1.858 | Level 3<2.00 |
| 19,400.00 | 5,612.36 | 19,299.43 | 5,626.77 | 322.42 | 321.95 | 90.694 | 9,975.24 | -9,601.94 | 1,188.28 | 544.09 | 644.19 | 1.845 | Level 3<2.00 |
| 19,500.00 | 5,613.25 | 19,399.43 | 5,627.67 | 324.73 | 324.27 | 90.695 | 10,045.02 | -9,673.56 | 1,188.11 | 539.30 | 648.81 | 1.831 | Level 3<2.00 |
| 19,600.00 | 5,614.14 | 19,499.43 | 5,628.57 | 327.04 | 326.58 | 90.695 | 10,114.81 | -9,745.18 | 1,187.95 | 534.51 | 653.44 | 1.818 | Level 3<2.00 |
| 19,700.00 | 5,615.03 | 19,599.43 | 5,629.47 | 329.36 | 328.90 | 90.695 | 10,184.59 | -9,816.80 | 1,187.78 | 529.72 | 658.06 | 1.805 | Level 3<2.00 |
| 19,800.00 | 5,615.92 | 19,699.43 | 5,630.37 | 331.67 | 331.21 | 90.696 | 10,254.37 | -9,888.42 | 1,187.61 | 524.92 | 662.69 | 1.792 | Level 3<2.00 |
| 19,900.00 | 5,616.82 | 19,799.43 | 5,631.27 | 333.98 | 333.52 | 90.696 | 10,324.15 | -9,960.05 | 1,187.45 | 520.13 | 667.31 | 1.779 | Level 3<2.00 |
| 20,000.00 | 5,617.71 | 19,899.43 | 5,632.17 | 336.29 | 335.84 | 90.697 | 10,393.93 | -10,031.67 | 1,187.28 | 515.34 | 671.94 | 1.767 | Level 3<2.00 |
| 20,100.00 | 5,618.60 | 19,999.43 | 5,633.07 | 338.60 | 338.15 | 90.697 | 10,463.72 | -10,103.29 | 1,187.11 | 510.55 | 676.56 | 1.755 | Level 3<2.00 |
| 20,200.00 | 5,619.49 | 20,099.43 | 5,633.97 | 340.92 | 340.46 | 90.698 | 10,533.50 | -10,174.91 | 1,186.95 | 505.76 | 681.19 | 1.742 | Level 3<2.00 |
| 20,300.00 | 5,620.39 | 20,199.43 | 5,634.87 | 343.23 | 342.78 | 90.698 | 10,603.28 | -10,246.53 | 1,186.78 | 500.97 | 685.81 | 1.730 | Level 3<2.00 |
| 20,400.00 | 5,621.28 | 20,299.43 | 5,635.77 | 345.54 | 345.09 | 90.699 | 10,673.06 | -10,318.15 | 1,186.62 | 496.18 | 690.44 | 1.719 | Level 3<2.00 |
| 20,500.00 | 5,622.17 | 20,399.43 | 5,636.67 | 347.85 | 347.41 | 90.699 | 10,742.85 | -10,389.77 | 1,186.45 | 491.39 | 695.06 | 1.707 | Level 3<2.00 |
| 20,600.00 | 5,623.06 | 20,499.43 | 5,637.57 | 350.17 | 349.72 | 90.700 | 10,812.63 | -10,461.39 | 1,186.28 | 486.59 | 699.69 | 1.695 | Level 3<2.00 |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 029H - Orig hole - rev0 — **Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD — **Rule Assigned:** — **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20,700.00 | 5,623.96 | 20,599.43 | 5,638.47 | 352.48 | 352.03 | 90.700 | 10,882.41 | -10,533.02 | 1,186.12 | 481.80 | 704.32 | 1.684 | Level 3<2.00 |
| 20,800.00 | 5,624.85 | 20,699.43 | 5,639.37 | 354.79 | 354.35 | 90.701 | 10,952.19 | -10,604.64 | 1,185.95 | 477.01 | 708.94 | 1.673 | Level 3<2.00 |
| 20,900.00 | 5,625.74 | 20,799.43 | 5,640.27 | 357.10 | 356.66 | 90.701 | 11,021.97 | -10,676.26 | 1,185.78 | 472.22 | 713.57 | 1.662 | Level 3<2.00 |
| 21,000.00 | 5,626.63 | 20,899.43 | 5,641.17 | 359.42 | 358.98 | 90.702 | 11,091.76 | -10,747.88 | 1,185.62 | 467.43 | 718.19 | 1.651 | Level 3<2.00 |
| 21,100.00 | 5,627.53 | 20,999.43 | 5,642.07 | 361.73 | 361.29 | 90.702 | 11,161.54 | -10,819.50 | 1,185.45 | 462.64 | 722.82 | 1.640 | Level 3<2.00 |
| 21,200.00 | 5,628.42 | 21,099.43 | 5,642.97 | 364.04 | 363.61 | 90.702 | 11,231.32 | -10,891.12 | 1,185.29 | 457.84 | 727.44 | 1.629 | Level 3<2.00 |
| 21,300.00 | 5,629.31 | 21,199.43 | 5,643.87 | 366.35 | 365.92 | 90.703 | 11,301.10 | -10,962.74 | 1,185.12 | 453.05 | 732.07 | 1.619 | Level 3<2.00 |
| 21,400.00 | 5,630.20 | 21,299.43 | 5,644.77 | 368.67 | 368.23 | 90.703 | 11,370.88 | -11,034.36 | 1,184.95 | 448.26 | 736.69 | 1.608 | Level 3<2.00 |
| 21,500.00 | 5,631.10 | 21,399.43 | 5,645.67 | 370.98 | 370.55 | 90.704 | 11,440.67 | -11,105.99 | 1,184.79 | 443.47 | 741.32 | 1.598 | Level 3<2.00 |
| 21,600.00 | 5,631.99 | 21,499.43 | 5,646.57 | 373.29 | 372.86 | 90.704 | 11,510.45 | -11,177.61 | 1,184.62 | 438.67 | 745.95 | 1.588 | Level 3<2.00 |
| 21,700.00 | 5,632.88 | 21,599.43 | 5,647.47 | 375.61 | 375.18 | 90.705 | 11,580.23 | -11,249.23 | 1,184.46 | 433.88 | 750.57 | 1.578 | Level 3<2.00 |
| 21,800.00 | 5,633.77 | 21,699.43 | 5,648.37 | 377.92 | 377.49 | 90.705 | 11,650.01 | -11,320.85 | 1,184.29 | 429.09 | 755.20 | 1.568 | Level 3<2.00 |
| 21,900.00 | 5,634.67 | 21,799.43 | 5,649.27 | 380.23 | 379.81 | 90.706 | 11,719.80 | -11,392.47 | 1,184.12 | 424.30 | 759.83 | 1.558 | Level 3<2.00 |
| 22,000.00 | 5,635.56 | 21,899.43 | 5,650.17 | 382.55 | 382.12 | 90.706 | 11,789.58 | -11,464.09 | 1,183.96 | 419.51 | 764.45 | 1.549 | Level 3<2.00 |
| 22,100.00 | 5,636.45 | 21,999.43 | 5,651.07 | 384.86 | 384.44 | 90.707 | 11,859.36 | -11,535.71 | 1,183.79 | 414.71 | 769.08 | 1.539 | Level 3<2.00 |
| 22,200.00 | 5,637.34 | 22,099.43 | 5,651.97 | 387.17 | 386.75 | 90.707 | 11,929.14 | -11,607.33 | 1,183.62 | 409.92 | 773.70 | 1.530 | Level 3<2.00 |
| 22,300.00 | 5,638.24 | 22,199.43 | 5,652.87 | 389.49 | 389.07 | 90.708 | 11,998.92 | -11,678.96 | 1,183.46 | 405.13 | 778.33 | 1.521 | Level 3<2.00 |
| 22,400.00 | 5,639.13 | 22,299.42 | 5,653.77 | 391.80 | 391.38 | 90.708 | 12,068.71 | -11,750.58 | 1,183.29 | 400.34 | 782.96 | 1.511 | Level 3<2.00 |
| 22,500.00 | 5,640.02 | 22,399.42 | 5,654.67 | 394.11 | 393.70 | 90.709 | 12,138.49 | -11,822.20 | 1,183.13 | 395.54 | 787.58 | 1.502 | Level 3<2.00 |
| 22,600.00 | 5,640.91 | 22,499.42 | 5,655.57 | 396.43 | 396.01 | 90.709 | 12,208.27 | -11,893.82 | 1,182.96 | 390.75 | 792.21 | 1.493 | Level 3<2.00 |
| 22,700.00 | 5,641.80 | 22,599.42 | 5,656.47 | 398.74 | 398.33 | 90.710 | 12,278.05 | -11,965.44 | 1,182.79 | 385.96 | 796.83 | 1.484 | Level 3<2.00 |
| 22,800.00 | 5,642.70 | 22,699.42 | 5,657.37 | 401.05 | 400.64 | 90.710 | 12,347.84 | -12,037.06 | 1,182.63 | 381.17 | 801.46 | 1.476 | Level 3<2.00 |
| 22,900.00 | 5,643.59 | 22,799.42 | 5,658.27 | 403.37 | 402.96 | 90.710 | 12,417.62 | -12,108.68 | 1,182.46 | 376.37 | 806.09 | 1.467 | Level 3<2.00 |
| 23,000.00 | 5,644.48 | 22,899.42 | 5,659.17 | 405.68 | 405.27 | 90.711 | 12,487.40 | -12,180.31 | 1,182.30 | 371.58 | 810.71 | 1.458 | Level 3<2.00 |
| 23,100.00 | 5,645.37 | 22,999.42 | 5,660.07 | 407.99 | 407.59 | 90.711 | 12,557.18 | -12,251.93 | 1,182.13 | 366.79 | 815.34 | 1.450 | Level 3<2.00 |
| 23,200.00 | 5,646.27 | 23,099.42 | 5,660.97 | 410.31 | 409.90 | 90.712 | 12,626.96 | -12,323.55 | 1,181.96 | 362.00 | 819.97 | 1.441 | Level 3<2.00 |
| 23,300.00 | 5,647.16 | 23,199.42 | 5,661.87 | 412.62 | 412.22 | 90.712 | 12,696.75 | -12,395.17 | 1,181.80 | 357.20 | 824.59 | 1.433 | Level 3<2.00 |
| 23,400.00 | 5,648.05 | 23,299.42 | 5,662.77 | 414.93 | 414.53 | 90.713 | 12,766.53 | -12,466.79 | 1,181.63 | 352.41 | 829.22 | 1.425 | Level 3<2.00 |
| 23,500.00 | 5,648.94 | 23,399.42 | 5,663.67 | 417.25 | 416.85 | 90.713 | 12,836.31 | -12,538.41 | 1,181.46 | 347.62 | 833.85 | 1.417 | Level 3<2.00 |
| 23,600.00 | 5,649.84 | 23,499.42 | 5,664.57 | 419.56 | 419.16 | 90.714 | 12,906.09 | -12,610.03 | 1,181.30 | 342.83 | 838.47 | 1.409 | Level 3<2.00 |
| 23,700.00 | 5,650.73 | 23,599.42 | 5,665.47 | 421.88 | 421.48 | 90.714 | 12,975.87 | -12,681.65 | 1,181.13 | 338.03 | 843.10 | 1.401 | Level 3<2.00 |
| 23,800.00 | 5,651.62 | 23,699.42 | 5,666.37 | 424.19 | 423.79 | 90.715 | 13,045.66 | -12,753.28 | 1,180.97 | 333.24 | 847.72 | 1.393 | Level 3<2.00 |
| 23,900.00 | 5,652.51 | 23,799.42 | 5,667.27 | 426.50 | 426.11 | 90.715 | 13,115.44 | -12,824.90 | 1,180.80 | 328.45 | 852.35 | 1.385 | Level 3<2.00 |
| 24,000.00 | 5,653.41 | 23,899.42 | 5,668.17 | 428.82 | 428.42 | 90.716 | 13,185.22 | -12,896.52 | 1,180.63 | 323.66 | 856.98 | 1.378 | Level 3<2.00 |
| 24,100.00 | 5,654.30 | 23,999.42 | 5,669.07 | 431.13 | 430.74 | 90.716 | 13,255.00 | -12,968.14 | 1,180.47 | 318.86 | 861.60 | 1.370 | Level 3<2.00 |
| 24,200.00 | 5,655.19 | 24,099.42 | 5,669.97 | 433.45 | 433.05 | 90.717 | 13,324.79 | -13,039.76 | 1,180.30 | 314.07 | 866.23 | 1.363 | Level 3<2.00 |
| 24,300.00 | 5,656.08 | 24,199.42 | 5,670.87 | 435.76 | 435.37 | 90.717 | 13,394.57 | -13,111.38 | 1,180.14 | 309.28 | 870.86 | 1.355 | Level 3<2.00 |
| 24,400.00 | 5,656.98 | 24,299.42 | 5,671.77 | 438.07 | 437.69 | 90.718 | 13,464.35 | -13,183.00 | 1,179.97 | 304.49 | 875.48 | 1.348 | Level 3<2.00 |
| 24,500.00 | 5,657.87 | 24,399.42 | 5,672.67 | 440.39 | 440.00 | 90.718 | 13,534.13 | -13,254.62 | 1,179.80 | 299.69 | 880.11 | 1.341 | Level 3<2.00 |
| 24,600.00 | 5,658.76 | 24,499.42 | 5,673.57 | 442.70 | 442.32 | 90.718 | 13,603.91 | -13,326.25 | 1,179.64 | 294.90 | 884.73 | 1.333 | Level 3<2.00 |
| 24,700.00 | 5,659.65 | 24,599.42 | 5,674.47 | 445.02 | 444.63 | 90.719 | 13,673.70 | -13,397.87 | 1,179.47 | 290.11 | 889.36 | 1.326 | Level 3<2.00 |
| 24,800.00 | 5,660.55 | 24,699.42 | 5,675.37 | 447.33 | 446.95 | 90.719 | 13,743.48 | -13,469.49 | 1,179.30 | 285.32 | 893.99 | 1.319 | Level 3<2.00 |
| 24,900.00 | 5,661.44 | 24,799.42 | 5,676.27 | 449.64 | 449.26 | 90.720 | 13,813.26 | -13,541.11 | 1,179.14 | 280.52 | 898.61 | 1.312 | Level 3<2.00 |
| 25,000.00 | 5,662.33 | 24,899.42 | 5,677.17 | 451.96 | 451.58 | 90.720 | 13,883.04 | -13,612.73 | 1,178.97 | 275.73 | 903.24 | 1.305 | Level 3<2.00 |
| 25,100.00 | 5,663.22 | 24,999.42 | 5,678.07 | 454.27 | 453.90 | 90.721 | 13,952.83 | -13,684.35 | 1,178.81 | 270.94 | 907.86 | 1.298 | Level 3<2.00 |
| 25,187.11 | 5,664.00 | 25,086.53 | 5,678.85 | 456.29 | 455.91 | 90.721 | 14,013.61 | -13,746.74 | 1,178.66 | 266.77 | 911.89 | 1.293 | Level 3<2.00, SF |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 037H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -10.002 | 59.12 | -10.43 | 60.04 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -10.002 | 59.12 | -10.43 | 60.04 | 59.49 | 0.55 | 109.461 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -10.002 | 59.12 | -10.43 | 60.04 | 58.77 | 1.27 | 47.443 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -10.002 | 59.12 | -10.43 | 60.04 | 58.05 | 1.98 | 30.285 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.35 | 1.35 | -10.002 | 59.12 | -10.43 | 60.04 | 57.34 | 2.70 | 22.241 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.71 | 1.71 | -10.002 | 59.12 | -10.43 | 60.04 | 56.62 | 3.42 | 17.573 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.07 | 2.07 | -10.002 | 59.12 | -10.43 | 60.04 | 55.90 | 4.13 | 14.525 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.43 | 2.43 | -10.002 | 59.12 | -10.43 | 60.04 | 55.18 | 4.85 | 12.378 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | -10.002 | 59.12 | -10.43 | 60.04 | 54.47 | 5.57 | 10.784 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | -10.002 | 59.12 | -10.43 | 60.04 | 53.75 | 6.28 | 9.554 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | -10.002 | 59.12 | -10.43 | 60.04 | 53.03 | 7.00 | 8.575 CC | |
| 1,100.00 | 1,099.95 | 1,101.07 | 1,101.03 | 3.84 | 3.85 | 139.651 | 57.78 | -12.74 | 61.15 | 53.46 | 7.69 | 7.950 | |
| 1,200.00 | 1,199.63 | 1,202.03 | 1,201.65 | 4.18 | 4.19 | 137.431 | 53.76 | -19.66 | 64.55 | 56.18 | 8.36 | 7.718 | |
| 1,300.00 | 1,298.77 | 1,302.75 | 1,301.49 | 4.52 | 4.55 | 134.211 | 47.10 | -31.14 | 70.38 | 61.32 | 9.06 | 7.771 | |
| 1,400.00 | 1,397.08 | 1,403.13 | 1,400.15 | 4.88 | 4.92 | 130.510 | 37.84 | -47.09 | 78.80 | 69.02 | 9.79 | 8.051 | |
| 1,500.00 | 1,494.33 | 1,502.62 | 1,497.16 | 5.28 | 5.32 | 127.664 | 26.78 | -66.15 | 90.08 | 79.51 | 10.57 | 8.524 | |
| 1,600.00 | 1,591.13 | 1,601.81 | 1,593.84 | 5.70 | 5.74 | 126.362 | 15.65 | -85.32 | 102.56 | 91.18 | 11.38 | 9.010 | |
| 1,700.00 | 1,687.94 | 1,701.01 | 1,690.53 | 6.14 | 6.17 | 125.342 | 4.53 | -104.49 | 115.08 | 102.85 | 12.23 | 9.410 | |
| 1,800.00 | 1,784.74 | 1,800.20 | 1,787.22 | 6.60 | 6.61 | 124.523 | -6.60 | -123.66 | 127.63 | 114.53 | 13.10 | 9.741 | |
| 1,900.00 | 1,881.55 | 1,899.39 | 1,883.90 | 7.08 | 7.07 | 123.850 | -17.73 | -142.84 | 140.20 | 126.20 | 14.00 | 10.017 | |
| 2,000.00 | 1,978.36 | 1,998.59 | 1,980.59 | 7.56 | 7.53 | 123.288 | -28.85 | -162.01 | 152.79 | 137.88 | 14.91 | 10.248 | |
| 2,100.00 | 2,075.16 | 2,097.78 | 2,077.27 | 8.05 | 8.00 | 122.812 | -39.98 | -181.18 | 165.39 | 149.55 | 15.84 | 10.444 | |
| 2,200.00 | 2,171.97 | 2,196.98 | 2,173.96 | 8.55 | 8.47 | 122.403 | -51.11 | -200.35 | 178.00 | 161.22 | 16.77 | 10.611 | |
| 2,300.00 | 2,268.78 | 2,296.17 | 2,270.65 | 9.05 | 8.95 | 122.048 | -62.23 | -219.52 | 190.61 | 172.89 | 17.72 | 10.754 | |
| 2,400.00 | 2,365.58 | 2,395.37 | 2,367.33 | 9.56 | 9.43 | 121.737 | -73.36 | -238.69 | 203.23 | 184.55 | 18.68 | 10.878 | |
| 2,500.00 | 2,462.39 | 2,494.56 | 2,464.02 | 10.08 | 9.92 | 121.463 | -84.49 | -257.86 | 215.86 | 196.21 | 19.65 | 10.986 | |
| 2,600.00 | 2,559.20 | 2,593.76 | 2,560.70 | 10.60 | 10.41 | 121.219 | -95.61 | -277.03 | 228.49 | 207.87 | 20.62 | 11.081 | |
| 2,700.00 | 2,656.00 | 2,692.95 | 2,657.39 | 11.12 | 10.90 | 121.000 | -106.74 | -296.20 | 241.13 | 219.53 | 21.60 | 11.164 | |
| 2,800.00 | 2,752.81 | 2,792.15 | 2,754.08 | 11.64 | 11.39 | 120.804 | -117.87 | -315.38 | 253.77 | 231.19 | 22.58 | 11.238 | |
| 2,900.00 | 2,849.62 | 2,891.34 | 2,850.76 | 12.17 | 11.89 | 120.626 | -129.00 | -334.55 | 266.41 | 242.84 | 23.57 | 11.304 | |
| 3,000.00 | 2,946.42 | 2,990.53 | 2,947.45 | 12.70 | 12.38 | 120.464 | -140.12 | -353.72 | 279.05 | 254.49 | 24.56 | 11.362 | |
| 3,100.00 | 3,043.23 | 3,089.73 | 3,044.14 | 13.23 | 12.88 | 120.316 | -151.25 | -372.89 | 291.70 | 266.14 | 25.55 | 11.415 | |
| 3,200.00 | 3,140.04 | 3,188.92 | 3,140.82 | 13.76 | 13.38 | 120.180 | -162.38 | -392.06 | 304.34 | 277.79 | 26.55 | 11.463 | |
| 3,300.00 | 3,236.84 | 3,288.12 | 3,237.51 | 14.29 | 13.88 | 120.055 | -173.50 | -411.23 | 316.99 | 289.44 | 27.55 | 11.506 | |
| 3,400.00 | 3,333.65 | 3,387.31 | 3,334.19 | 14.82 | 14.38 | 119.940 | -184.63 | -430.40 | 329.64 | 301.09 | 28.55 | 11.545 | |
| 3,500.00 | 3,430.46 | 3,486.51 | 3,430.88 | 15.36 | 14.89 | 119.834 | -195.76 | -449.57 | 342.29 | 312.74 | 29.56 | 11.581 | |
| 3,600.00 | 3,527.26 | 3,585.70 | 3,527.57 | 15.90 | 15.39 | 119.734 | -206.88 | -468.75 | 354.95 | 324.38 | 30.56 | 11.613 | |
| 3,700.00 | 3,624.07 | 3,684.90 | 3,624.25 | 16.43 | 15.90 | 119.642 | -218.01 | -487.92 | 367.60 | 336.03 | 31.57 | 11.643 | |
| 3,800.00 | 3,720.88 | 3,784.09 | 3,720.94 | 16.97 | 16.40 | 119.556 | -229.14 | -507.09 | 380.26 | 347.67 | 32.58 | 11.671 | |
| 3,900.00 | 3,817.68 | 3,883.29 | 3,817.62 | 17.51 | 16.91 | 119.475 | -240.26 | -526.26 | 392.91 | 359.32 | 33.59 | 11.696 | |
| 4,000.00 | 3,914.49 | 3,982.48 | 3,914.31 | 18.05 | 17.41 | 119.400 | -251.39 | -545.43 | 405.57 | 370.96 | 34.61 | 11.720 | |
| 4,100.00 | 4,011.30 | 4,081.67 | 4,011.00 | 18.59 | 17.92 | 119.329 | -262.52 | -564.60 | 418.22 | 382.60 | 35.62 | 11.742 | |
| 4,200.00 | 4,108.10 | 4,180.87 | 4,107.68 | 19.13 | 18.43 | 119.262 | -273.64 | -583.77 | 430.88 | 394.25 | 36.63 | 11.762 | |
| 4,300.00 | 4,204.91 | 4,280.06 | 4,204.37 | 19.67 | 18.94 | 119.199 | -284.77 | -602.94 | 443.54 | 405.89 | 37.65 | 11.781 | |
| 4,400.00 | 4,301.98 | 4,379.36 | 4,301.19 | 20.20 | 19.44 | 119.240 | -295.83 | -622.00 | 455.67 | 417.01 | 38.66 | 11.787 | |
| 4,500.00 | 4,400.10 | 4,479.11 | 4,399.20 | 20.68 | 19.91 | 119.273 | -305.11 | -637.99 | 465.39 | 425.79 | 39.60 | 11.753 | |
| 4,600.00 | 4,499.10 | 4,579.18 | 4,498.36 | 21.11 | 20.33 | 119.322 | -311.82 | -649.55 | 472.50 | 432.07 | 40.43 | 11.686 | |
| 4,700.00 | 4,598.69 | 4,679.45 | 4,598.29 | 21.48 | 20.69 | 119.387 | -315.93 | -656.63 | 476.98 | 435.81 | 41.17 | 11.587 | |
| 4,800.00 | 4,698.62 | 4,779.82 | 4,698.60 | 21.79 | 21.01 | 119.465 | -317.39 | -659.15 | 478.81 | 437.01 | 41.79 | 11.457 | |
| 4,900.00 | 4,798.62 | 4,879.83 | 4,798.62 | 22.04 | 21.28 | -30.973 | -317.40 | -659.16 | 478.85 | 436.52 | 42.33 | 11.311 | |
| 5,000.00 | 4,898.62 | 4,979.83 | 4,898.62 | 22.30 | 21.55 | -30.973 | -317.40 | -659.16 | 478.85 | 435.98 | 42.88 | 11.168 | |
| 5,100.00 | 4,998.35 | 5,403.87 | 5,286.38 | 22.55 | 22.48 | 15.659 | -429.97 | -565.77 | 437.64 | 402.68 | 34.96 | 12.518 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 037H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,095.64 | 5,548.13 | 5,380.62 | 22.75 | 22.69 | 39.726 | -513.64 | -496.35 | 350.26 | 321.01 | 29.25 | 11.975 | |
| 5,300.00 | 5,187.53 | 5,580.28 | 5,397.71 | 22.90 | 22.74 | 82.952 | -534.60 | -478.96 | 254.76 | 226.14 | 28.62 | 8.902 | |
| 5,400.00 | 5,271.23 | 5,574.31 | 5,394.65 | 23.00 | 22.73 | 103.698 | -530.65 | -482.24 | 162.18 | 131.46 | 30.72 | 5.279 | |
| 5,500.00 | 5,344.20 | 5,551.79 | 5,382.65 | 23.06 | 22.70 | 99.345 | -515.98 | -494.40 | 88.37 | 50.51 | 37.86 | 2.334 | |
| 5,546.90 | 5,374.09 | 5,538.01 | 5,374.93 | 23.07 | 22.68 | 90.780 | -507.20 | -501.70 | 76.01 | 36.72 | 39.28 | 1.935 | Level 3<2.00, ES, SF |
| 5,600.00 | 5,404.22 | 5,520.73 | 5,364.88 | 23.09 | 22.66 | 77.150 | -496.38 | -510.67 | 90.95 | 58.43 | 32.52 | 2.797 | |
| 5,700.00 | 5,449.47 | 5,484.74 | 5,342.61 | 23.11 | 22.60 | 49.653 | -474.63 | -528.71 | 159.94 | 130.27 | 29.67 | 5.391 | |
| 5,800.00 | 5,478.74 | 5,450.00 | 5,319.46 | 23.20 | 22.56 | 30.906 | -454.70 | -545.25 | 239.43 | 207.41 | 32.03 | 7.476 | |
| 5,900.00 | 5,491.52 | 5,400.00 | 5,283.49 | 23.48 | 22.48 | 18.621 | -427.99 | -567.41 | 317.81 | 284.61 | 33.20 | 9.572 | |
| 6,000.00 | 5,492.77 | 5,365.75 | 5,257.17 | 24.13 | 22.42 | 16.012 | -411.13 | -581.40 | 394.76 | 359.19 | 35.57 | 11.099 | |
| 6,100.00 | 5,493.66 | 5,332.21 | 5,230.17 | 25.14 | 22.36 | 14.839 | -395.82 | -594.09 | 475.54 | 438.47 | 37.08 | 12.826 | |
| 6,200.00 | 5,494.56 | 5,300.00 | 5,203.18 | 26.40 | 22.30 | 13.835 | -382.29 | -605.32 | 559.46 | 521.35 | 38.12 | 14.678 | |
| 6,300.00 | 5,495.45 | 5,279.02 | 5,185.09 | 27.83 | 22.26 | 13.236 | -374.11 | -612.11 | 645.80 | 606.59 | 39.21 | 16.472 | |
| 6,400.00 | 5,496.34 | 5,250.00 | 5,159.46 | 29.39 | 22.20 | 12.472 | -363.65 | -620.78 | 734.21 | 694.46 | 39.75 | 18.471 | |
| 6,500.00 | 5,497.23 | 5,250.00 | 5,159.46 | 31.05 | 22.20 | 12.472 | -363.65 | -620.78 | 824.21 | 783.38 | 40.83 | 20.188 | |
| 6,600.00 | 5,498.13 | 5,222.93 | 5,134.96 | 32.79 | 22.15 | 11.819 | -354.81 | -628.12 | 915.25 | 874.16 | 41.09 | 22.275 | |
| 6,700.00 | 5,499.02 | 5,200.00 | 5,113.79 | 34.61 | 22.10 | 11.304 | -348.02 | -633.75 | 1,007.63 | 966.26 | 41.36 | 24.360 | |
| 6,800.00 | 5,499.91 | 5,200.00 | 5,113.79 | 36.48 | 22.10 | 11.304 | -348.02 | -633.75 | 1,100.73 | 1,058.80 | 41.93 | 26.253 | |
| 6,900.00 | 5,500.80 | 5,200.00 | 5,113.79 | 38.40 | 22.10 | 11.304 | -348.02 | -633.75 | 1,194.94 | 1,152.57 | 42.37 | 28.203 | |
| 7,000.00 | 5,501.70 | 5,174.12 | 5,089.50 | 40.36 | 22.04 | 10.762 | -341.15 | -639.45 | 1,289.19 | 1,246.77 | 42.43 | 30.387 | |
| 7,100.00 | 5,502.59 | 5,150.00 | 5,066.52 | 42.36 | 21.98 | 10.290 | -335.51 | -644.13 | 1,384.57 | 1,342.07 | 42.49 | 32.583 | |
| 7,200.00 | 5,503.48 | 5,150.00 | 5,066.52 | 44.39 | 21.98 | 10.290 | -335.51 | -644.13 | 1,479.92 | 1,437.13 | 42.79 | 34.588 | |
| 7,300.00 | 5,504.37 | 5,150.00 | 5,066.52 | 46.44 | 21.98 | 10.290 | -335.51 | -644.13 | 1,575.85 | 1,532.82 | 43.03 | 36.622 | |
| 7,400.00 | 5,505.27 | 5,150.00 | 5,066.52 | 48.52 | 21.98 | 10.290 | -335.51 | -644.13 | 1,672.25 | 1,629.02 | 43.24 | 38.675 | |
| 7,500.00 | 5,506.16 | 5,150.00 | 5,066.52 | 50.62 | 21.98 | 10.290 | -335.51 | -644.13 | 1,769.06 | 1,725.64 | 43.42 | 40.746 | |
| 7,600.00 | 5,507.05 | 5,129.53 | 5,046.79 | 52.74 | 21.93 | 9.912 | -331.31 | -647.61 | 1,865.73 | 1,822.29 | 43.44 | 42.954 | |
| 7,700.00 | 5,507.94 | 5,124.08 | 5,041.51 | 54.87 | 21.92 | 9.814 | -330.29 | -648.46 | 1,962.88 | 1,919.33 | 43.55 | 45.075 | |
| 7,800.00 | 5,508.84 | 5,100.00 | 5,018.02 | 57.02 | 21.86 | 9.399 | -326.22 | -651.84 | 2,060.65 | 2,017.11 | 43.54 | 47.329 | |
| 7,900.00 | 5,509.73 | 5,100.00 | 5,018.02 | 59.18 | 21.86 | 9.399 | -326.22 | -651.84 | 2,158.03 | 2,114.36 | 43.67 | 49.420 | |
| 8,000.00 | 5,510.62 | 5,100.00 | 5,018.02 | 61.35 | 21.86 | 9.399 | -326.22 | -651.84 | 2,255.64 | 2,211.86 | 43.78 | 51.519 | |
| 8,100.00 | 5,511.51 | 5,100.00 | 5,018.02 | 63.53 | 21.86 | 9.399 | -326.22 | -651.84 | 2,353.45 | 2,309.56 | 43.89 | 53.624 | |
| 8,200.00 | 5,512.41 | 5,100.00 | 5,018.02 | 65.72 | 21.86 | 9.399 | -326.22 | -651.84 | 2,451.44 | 2,407.45 | 43.98 | 55.734 | |
| 8,300.00 | 5,513.30 | 5,100.00 | 5,018.02 | 67.92 | 21.86 | 9.399 | -326.22 | -651.84 | 2,549.58 | 2,505.51 | 44.07 | 57.847 | |
| 8,400.00 | 5,514.19 | 5,100.00 | 5,018.02 | 70.13 | 21.86 | 9.399 | -326.22 | -651.84 | 2,647.87 | 2,603.71 | 44.16 | 59.965 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 038H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -10.121 | 78.47 | -14.01 | 79.71 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -10.121 | 78.47 | -14.01 | 79.71 | 79.16 | 0.55 | 145.329 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -10.121 | 78.47 | -14.01 | 79.71 | 78.44 | 1.27 | 62.990 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -10.121 | 78.47 | -14.01 | 79.71 | 77.73 | 1.98 | 40.209 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.35 | 1.35 | -10.121 | 78.47 | -14.01 | 79.71 | 77.01 | 2.70 | 29.529 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.71 | 1.71 | -10.121 | 78.47 | -14.01 | 79.71 | 76.29 | 3.42 | 23.332 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.07 | 2.07 | -10.121 | 78.47 | -14.01 | 79.71 | 75.57 | 4.13 | 19.285 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.43 | 2.43 | -10.121 | 78.47 | -14.01 | 79.71 | 74.86 | 4.85 | 16.434 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | -10.121 | 78.47 | -14.01 | 79.71 | 74.14 | 5.57 | 14.318 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | -10.121 | 78.47 | -14.01 | 79.71 | 73.42 | 6.28 | 12.684 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | -10.121 | 78.47 | -14.01 | 79.71 | 72.71 | 7.00 | 11.385 | CC, ES |
| 1,100.00 | 1,099.95 | 1,096.38 | 1,096.33 | 3.84 | 3.85 | 142.266 | 80.70 | -13.05 | 83.89 | 76.20 | 7.68 | 10.916 | SF |
| 1,200.00 | 1,199.63 | 1,191.25 | 1,190.93 | 4.18 | 4.19 | 146.992 | 87.26 | -10.24 | 96.89 | 88.55 | 8.34 | 11.614 | |
| 1,300.00 | 1,298.77 | 1,283.23 | 1,282.19 | 4.52 | 4.52 | 152.402 | 97.74 | -5.76 | 119.49 | 110.51 | 8.98 | 13.306 | |
| 1,400.00 | 1,397.08 | 1,371.68 | 1,369.35 | 4.88 | 4.85 | 157.123 | 111.60 | 0.17 | 151.91 | 142.31 | 9.59 | 15.839 | |
| 1,500.00 | 1,494.33 | 1,462.80 | 1,458.82 | 5.28 | 5.20 | 160.965 | 127.43 | 6.94 | 191.39 | 181.13 | 10.26 | 18.648 | |
| 1,600.00 | 1,591.13 | 1,553.16 | 1,547.55 | 5.70 | 5.56 | 163.895 | 143.12 | 13.66 | 233.09 | 222.18 | 10.90 | 21.376 | |
| 1,700.00 | 1,687.94 | 1,643.51 | 1,636.28 | 6.14 | 5.93 | 165.940 | 158.82 | 20.37 | 275.14 | 263.58 | 11.56 | 23.807 | |
| 1,800.00 | 1,784.74 | 1,733.87 | 1,725.01 | 6.60 | 6.31 | 167.445 | 174.52 | 27.09 | 317.40 | 305.18 | 12.22 | 25.984 | |
| 1,900.00 | 1,881.55 | 1,824.22 | 1,813.73 | 7.08 | 6.69 | 168.597 | 190.21 | 33.80 | 359.80 | 346.92 | 12.88 | 27.937 | |
| 2,000.00 | 1,978.36 | 1,914.58 | 1,902.46 | 7.56 | 7.07 | 169.507 | 205.91 | 40.52 | 402.30 | 388.75 | 13.55 | 29.697 | |
| 2,100.00 | 2,075.16 | 2,004.93 | 1,991.19 | 8.05 | 7.46 | 170.244 | 221.61 | 47.24 | 444.86 | 430.64 | 14.22 | 31.286 | |
| 2,200.00 | 2,171.97 | 2,095.29 | 2,079.92 | 8.55 | 7.86 | 170.852 | 237.31 | 53.95 | 487.47 | 472.58 | 14.90 | 32.727 | |
| 2,300.00 | 2,268.78 | 2,185.64 | 2,168.64 | 9.05 | 8.25 | 171.363 | 253.00 | 60.67 | 530.13 | 514.55 | 15.57 | 34.038 | |
| 2,400.00 | 2,365.58 | 2,276.00 | 2,257.37 | 9.56 | 8.65 | 171.797 | 268.70 | 67.38 | 572.81 | 556.55 | 16.26 | 35.236 | |
| 2,500.00 | 2,462.39 | 2,366.35 | 2,346.10 | 10.08 | 9.05 | 172.172 | 284.40 | 74.10 | 615.51 | 598.57 | 16.94 | 36.333 | |
| 2,600.00 | 2,559.20 | 2,456.71 | 2,434.82 | 10.60 | 9.45 | 172.498 | 300.09 | 80.81 | 658.23 | 640.61 | 17.63 | 37.341 | |
| 2,700.00 | 2,656.00 | 2,547.06 | 2,523.55 | 11.12 | 9.85 | 172.784 | 315.79 | 87.53 | 700.97 | 682.66 | 18.32 | 38.271 | |
| 2,800.00 | 2,752.81 | 2,637.42 | 2,612.28 | 11.64 | 10.26 | 173.037 | 331.49 | 94.25 | 743.72 | 724.72 | 19.01 | 39.130 | |
| 2,900.00 | 2,849.62 | 2,727.77 | 2,701.01 | 12.17 | 10.66 | 173.263 | 347.18 | 100.96 | 786.48 | 766.79 | 19.70 | 39.926 | |
| 3,000.00 | 2,946.42 | 2,818.13 | 2,789.73 | 12.70 | 11.07 | 173.466 | 362.88 | 107.68 | 829.26 | 808.86 | 20.39 | 40.665 | |
| 3,100.00 | 3,043.23 | 2,908.48 | 2,878.46 | 13.23 | 11.48 | 173.648 | 378.58 | 114.39 | 872.03 | 850.95 | 21.09 | 41.354 | |
| 3,200.00 | 3,140.04 | 2,998.84 | 2,967.19 | 13.76 | 11.89 | 173.814 | 394.28 | 121.11 | 914.82 | 893.03 | 21.78 | 41.996 | |
| 3,300.00 | 3,236.84 | 3,089.19 | 3,055.92 | 14.29 | 12.30 | 173.965 | 409.97 | 127.83 | 957.61 | 935.13 | 22.48 | 42.597 | |
| 3,400.00 | 3,333.65 | 3,179.55 | 3,144.64 | 14.82 | 12.71 | 174.103 | 425.67 | 134.54 | 1,000.40 | 977.22 | 23.18 | 43.160 | |
| 3,500.00 | 3,430.46 | 3,269.90 | 3,233.37 | 15.36 | 13.12 | 174.229 | 441.37 | 141.26 | 1,043.20 | 1,019.32 | 23.88 | 43.688 | |
| 3,600.00 | 3,527.26 | 3,360.26 | 3,322.10 | 15.90 | 13.53 | 174.346 | 457.06 | 147.97 | 1,086.01 | 1,061.43 | 24.58 | 44.185 | |
| 3,700.00 | 3,624.07 | 3,450.61 | 3,410.82 | 16.43 | 13.95 | 174.454 | 472.76 | 154.69 | 1,128.81 | 1,103.53 | 25.28 | 44.653 | |
| 3,800.00 | 3,720.88 | 3,540.97 | 3,499.55 | 16.97 | 14.36 | 174.554 | 488.46 | 161.40 | 1,171.62 | 1,145.64 | 25.98 | 45.094 | |
| 3,900.00 | 3,817.68 | 3,631.32 | 3,588.28 | 17.51 | 14.77 | 174.647 | 504.15 | 168.12 | 1,214.44 | 1,187.75 | 26.68 | 45.512 | |
| 4,000.00 | 3,914.49 | 3,804.77 | 3,759.30 | 18.05 | 15.53 | 174.813 | 530.50 | 179.39 | 1,255.82 | 1,227.82 | 28.00 | 44.857 | |
| 4,100.00 | 4,011.30 | 4,057.37 | 4,011.30 | 18.59 | 16.43 | 175.060 | 543.97 | 185.15 | 1,285.82 | 1,256.27 | 29.55 | 43.515 | |
| 4,200.00 | 4,108.10 | 4,154.18 | 4,108.10 | 19.13 | 16.73 | 175.154 | 543.97 | 185.15 | 1,310.80 | 1,280.54 | 30.27 | 43.310 | |
| 4,300.00 | 4,204.91 | 4,250.99 | 4,204.91 | 19.67 | 17.03 | 175.245 | 543.97 | 185.15 | 1,335.79 | 1,304.81 | 30.98 | 43.114 | |
| 4,400.00 | 4,301.98 | 4,348.06 | 4,301.98 | 20.20 | 17.33 | 175.367 | 543.97 | 185.15 | 1,359.72 | 1,328.02 | 31.70 | 42.894 | |
| 4,500.00 | 4,400.10 | 4,446.18 | 4,400.10 | 20.68 | 17.64 | 175.478 | 543.97 | 185.15 | 1,378.88 | 1,346.47 | 32.41 | 42.543 | |
| 4,600.00 | 4,499.10 | 4,545.18 | 4,499.10 | 21.11 | 17.95 | 175.556 | 543.97 | 185.15 | 1,392.90 | 1,359.78 | 33.12 | 42.059 | |
| 4,700.00 | 4,598.69 | 4,644.77 | 4,598.69 | 21.48 | 18.27 | 175.605 | 543.97 | 185.15 | 1,401.73 | 1,367.91 | 33.82 | 41.453 | |
| 4,800.00 | 4,698.62 | 4,744.69 | 4,698.62 | 21.79 | 18.59 | 175.624 | 543.97 | 185.15 | 1,405.35 | 1,370.85 | 34.50 | 40.733 | |
| 4,900.00 | 4,798.62 | 4,844.69 | 4,798.62 | 22.04 | 18.91 | 25.176 | 543.97 | 185.15 | 1,405.45 | 1,370.28 | 35.16 | 39.968 | |
| 5,000.00 | 4,898.62 | 5,751.57 | 5,484.41 | 22.30 | 20.99 | 43.877 | 180.78 | 461.08 | 1,390.14 | 1,353.67 | 36.47 | 38.122 | |
| 5,100.00 | 4,998.35 | 5,767.07 | 5,487.54 | 22.55 | 21.10 | 88.559 | 169.25 | 470.94 | 1,350.55 | 1,312.89 | 37.66 | 35.861 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 038H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,095.64 | 5,763.98 | 5,486.95 | 22.75 | 21.08 | 91.996 | 171.54 | 468.97 | 1,316.89 | 1,278.28 | 38.61 | 34.107 | |
| 5,300.00 | 5,187.53 | 5,750.00 | 5,484.07 | 22.90 | 20.97 | 94.099 | 181.95 | 460.09 | 1,290.57 | 1,251.26 | 39.31 | 32.830 | |
| 5,400.00 | 5,271.23 | 5,725.49 | 5,478.27 | 23.00 | 20.80 | 94.898 | 200.26 | 444.87 | 1,272.35 | 1,232.60 | 39.75 | 32.010 | |
| 5,500.00 | 5,344.20 | 5,700.00 | 5,471.26 | 23.06 | 20.65 | 94.855 | 219.38 | 429.54 | 1,262.47 | 1,222.41 | 40.05 | 31.521 | |
| 5,575.52 | 5,390.83 | 5,669.08 | 5,461.40 | 23.08 | 20.49 | 93.890 | 242.61 | 411.67 | 1,260.36 | 1,220.20 | 40.16 | 31.383 | |
| 5,600.00 | 5,404.22 | 5,659.05 | 5,457.89 | 23.09 | 20.45 | 93.501 | 250.12 | 406.02 | 1,260.60 | 1,220.41 | 40.19 | 31.368 | |
| 5,700.00 | 5,449.47 | 5,594.47 | 5,431.40 | 23.11 | 20.31 | 90.760 | 297.17 | 370.66 | 1,265.10 | 1,224.89 | 40.21 | 31.464 | |
| 5,800.00 | 5,478.74 | 5,533.39 | 5,400.40 | 23.20 | 20.26 | 88.243 | 339.21 | 339.06 | 1,275.92 | 1,235.56 | 40.36 | 31.610 | |
| 5,900.00 | 5,491.52 | 5,475.00 | 5,365.70 | 23.48 | 20.21 | 84.851 | 376.72 | 310.87 | 1,294.81 | 1,254.13 | 40.68 | 31.828 | |
| 6,000.00 | 5,492.77 | 5,421.00 | 5,329.50 | 24.13 | 20.17 | 82.760 | 408.73 | 286.80 | 1,319.82 | 1,278.66 | 41.16 | 32.068 | |
| 6,100.00 | 5,493.66 | 5,375.51 | 5,296.19 | 25.14 | 20.12 | 81.294 | 433.49 | 268.19 | 1,349.26 | 1,307.50 | 41.76 | 32.310 | |
| 6,200.00 | 5,494.56 | 5,337.21 | 5,266.32 | 26.40 | 20.08 | 79.996 | 452.64 | 253.80 | 1,383.39 | 1,340.95 | 42.44 | 32.599 | |
| 6,300.00 | 5,495.45 | 5,300.00 | 5,235.83 | 27.83 | 20.03 | 78.685 | 469.67 | 240.99 | 1,422.29 | 1,379.16 | 43.13 | 32.979 | |
| 6,400.00 | 5,496.34 | 5,277.20 | 5,216.49 | 29.39 | 20.00 | 77.862 | 479.32 | 233.75 | 1,465.86 | 1,421.98 | 43.88 | 33.410 | |
| 6,500.00 | 5,497.23 | 5,250.00 | 5,192.80 | 31.05 | 19.96 | 76.863 | 490.01 | 225.71 | 1,513.96 | 1,469.40 | 44.57 | 33.970 | |
| 6,600.00 | 5,498.13 | 5,233.00 | 5,177.68 | 32.79 | 19.93 | 76.230 | 496.23 | 221.03 | 1,566.31 | 1,521.05 | 45.26 | 34.606 | |
| 6,700.00 | 5,499.02 | 5,215.13 | 5,161.56 | 34.61 | 19.90 | 75.559 | 502.38 | 216.41 | 1,622.64 | 1,576.74 | 45.89 | 35.356 | |
| 6,800.00 | 5,499.91 | 5,200.00 | 5,147.72 | 36.48 | 19.87 | 74.987 | 507.27 | 212.74 | 1,682.62 | 1,636.14 | 46.48 | 36.197 | |
| 6,900.00 | 5,500.80 | 5,200.00 | 5,147.72 | 38.40 | 19.87 | 74.987 | 507.27 | 212.74 | 1,746.12 | 1,699.04 | 47.08 | 37.088 | |
| 7,000.00 | 5,501.70 | 5,173.28 | 5,122.91 | 40.36 | 19.82 | 73.969 | 515.18 | 206.79 | 1,812.34 | 1,764.84 | 47.50 | 38.154 | |
| 7,100.00 | 5,502.59 | 5,150.00 | 5,100.93 | 42.36 | 19.77 | 73.076 | 521.32 | 202.17 | 1,881.61 | 1,833.73 | 47.88 | 39.297 | |
| 7,200.00 | 5,503.48 | 5,150.00 | 5,100.93 | 44.39 | 19.77 | 73.076 | 521.32 | 202.17 | 1,953.14 | 1,904.83 | 48.32 | 40.422 | |
| 7,300.00 | 5,504.37 | 5,150.00 | 5,100.93 | 46.44 | 19.77 | 73.076 | 521.32 | 202.17 | 2,027.09 | 1,978.38 | 48.71 | 41.619 | |
| 7,400.00 | 5,505.27 | 5,150.00 | 5,100.93 | 48.52 | 19.77 | 73.076 | 521.32 | 202.17 | 2,103.19 | 2,054.14 | 49.05 | 42.881 | |
| 7,500.00 | 5,506.16 | 5,127.98 | 5,079.87 | 50.62 | 19.72 | 72.229 | 526.47 | 198.31 | 2,180.81 | 2,131.54 | 49.27 | 44.265 | |
| 7,600.00 | 5,507.05 | 5,121.23 | 5,073.37 | 52.74 | 19.71 | 71.969 | 527.91 | 197.22 | 2,260.27 | 2,210.76 | 49.51 | 45.648 | |
| 7,700.00 | 5,507.94 | 5,100.00 | 5,052.79 | 54.87 | 19.66 | 71.150 | 532.06 | 194.10 | 2,341.44 | 2,291.76 | 49.68 | 47.130 | |
| 7,800.00 | 5,508.84 | 5,100.00 | 5,052.79 | 57.02 | 19.66 | 71.150 | 532.06 | 194.10 | 2,423.65 | 2,373.75 | 49.90 | 48.569 | |
| 7,900.00 | 5,509.73 | 5,100.00 | 5,052.79 | 59.18 | 19.66 | 71.150 | 532.06 | 194.10 | 2,507.16 | 2,457.06 | 50.10 | 50.048 | |
| 8,000.00 | 5,510.62 | 5,100.00 | 5,052.79 | 61.35 | 19.66 | 71.150 | 532.06 | 194.10 | 2,591.83 | 2,541.56 | 50.27 | 51.560 | |
| 8,100.00 | 5,511.51 | 5,100.00 | 5,052.79 | 63.53 | 19.66 | 71.150 | 532.06 | 194.10 | 2,677.56 | 2,627.14 | 50.42 | 53.103 | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 039H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -10.278 | 39.42 | -7.15 | 40.06 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -10.278 | 39.42 | -7.15 | 40.06 | 39.51 | 0.55 | 73.041 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -10.278 | 39.42 | -7.15 | 40.06 | 38.80 | 1.27 | 31.658 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -10.278 | 39.42 | -7.15 | 40.06 | 38.08 | 1.98 | 20.209 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.35 | 1.35 | -10.278 | 39.42 | -7.15 | 40.06 | 37.36 | 2.70 | 14.841 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.71 | 1.71 | -10.278 | 39.42 | -7.15 | 40.06 | 36.64 | 3.42 | 11.727 | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.07 | 2.07 | -10.278 | 39.42 | -7.15 | 40.06 | 35.93 | 4.13 | 9.692 | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.43 | 2.43 | -10.278 | 39.42 | -7.15 | 40.06 | 35.21 | 4.85 | 8.260 | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | -10.278 | 39.42 | -7.15 | 40.06 | 34.49 | 5.57 | 7.196 | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | -10.278 | 39.42 | -7.15 | 40.06 | 33.78 | 6.28 | 6.375 | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | -10.278 | 39.42 | -7.15 | 40.06 | 33.06 | 7.00 | 5.722 | CC, ES |
| 1,100.00 | 1,099.95 | 1,099.00 | 1,098.96 | 3.84 | 3.85 | 145.505 | 40.75 | -4.96 | 43.19 | 35.50 | 7.69 | 5.614 | |
| 1,200.00 | 1,199.63 | 1,196.51 | 1,196.17 | 4.18 | 4.20 | 157.234 | 44.66 | 1.48 | 54.28 | 45.92 | 8.37 | 6.489 | |
| 1,300.00 | 1,298.77 | 1,291.13 | 1,290.01 | 4.52 | 4.54 | 168.230 | 50.92 | 11.78 | 75.61 | 66.60 | 9.02 | 8.386 | |
| 1,400.00 | 1,397.08 | 1,381.63 | 1,379.10 | 4.88 | 4.88 | 175.903 | 59.15 | 25.33 | 107.44 | 97.81 | 9.63 | 11.153 | |
| 1,500.00 | 1,494.33 | 1,467.04 | 1,462.40 | 5.28 | 5.23 | -179.122 | 68.92 | 41.41 | 148.87 | 138.65 | 10.22 | 14.566 | |
| 1,600.00 | 1,591.13 | 1,548.12 | 1,540.62 | 5.70 | 5.58 | -175.833 | 79.98 | 59.61 | 196.08 | 185.34 | 10.74 | 18.255 | |
| 1,700.00 | 1,687.94 | 1,625.53 | 1,614.40 | 6.14 | 5.93 | -173.486 | 92.13 | 79.62 | 246.97 | 235.73 | 11.24 | 21.972 | |
| 1,800.00 | 1,784.74 | 1,700.00 | 1,684.43 | 6.60 | 6.31 | -171.690 | 105.28 | 101.26 | 301.25 | 289.53 | 11.72 | 25.702 | |
| 1,900.00 | 1,881.55 | 1,769.41 | 1,748.76 | 7.08 | 6.69 | -170.297 | 118.81 | 123.52 | 358.65 | 346.49 | 12.16 | 29.493 | |
| 2,000.00 | 1,978.36 | 1,837.41 | 1,810.84 | 7.56 | 7.09 | -169.126 | 133.22 | 147.24 | 418.92 | 406.32 | 12.60 | 33.242 | |
| 2,100.00 | 2,075.16 | 1,916.02 | 1,882.16 | 8.05 | 7.59 | -168.040 | 150.39 | 175.51 | 480.36 | 467.14 | 13.22 | 36.334 | |
| 2,200.00 | 2,171.97 | 1,994.64 | 1,953.48 | 8.55 | 8.10 | -167.199 | 167.56 | 203.77 | 541.88 | 528.03 | 13.85 | 39.127 | |
| 2,300.00 | 2,268.78 | 2,073.25 | 2,024.79 | 9.05 | 8.64 | -166.528 | 184.73 | 232.04 | 603.46 | 588.97 | 14.49 | 41.651 | |
| 2,400.00 | 2,365.58 | 2,151.86 | 2,096.11 | 9.56 | 9.19 | -165.981 | 201.91 | 260.30 | 665.08 | 649.94 | 15.13 | 43.943 | |
| 2,500.00 | 2,462.39 | 2,230.48 | 2,167.43 | 10.08 | 9.75 | -165.527 | 219.08 | 288.57 | 726.73 | 710.94 | 15.79 | 46.030 | |
| 2,600.00 | 2,559.20 | 2,309.09 | 2,238.75 | 10.60 | 10.31 | -165.144 | 236.25 | 316.83 | 788.41 | 771.96 | 16.45 | 47.935 | |
| 2,700.00 | 2,656.00 | 2,387.70 | 2,310.06 | 11.12 | 10.89 | -164.816 | 253.43 | 345.10 | 850.10 | 832.99 | 17.11 | 49.677 | |
| 2,800.00 | 2,752.81 | 2,466.32 | 2,381.38 | 11.64 | 11.48 | -164.532 | 270.60 | 373.36 | 911.81 | 894.03 | 17.78 | 51.273 | |
| 2,900.00 | 2,849.62 | 2,544.93 | 2,452.70 | 12.17 | 12.07 | -164.285 | 287.77 | 401.63 | 973.54 | 955.08 | 18.46 | 52.743 | |
| 3,000.00 | 2,946.42 | 2,623.54 | 2,524.02 | 12.70 | 12.66 | -164.066 | 304.94 | 429.90 | 1,035.27 | 1,016.13 | 19.14 | 54.100 | |
| 3,100.00 | 3,043.23 | 2,702.15 | 2,595.34 | 13.23 | 13.26 | -163.873 | 322.12 | 458.16 | 1,097.01 | 1,077.19 | 19.82 | 55.355 | |
| 3,200.00 | 3,140.04 | 2,780.77 | 2,666.65 | 13.76 | 13.86 | -163.700 | 339.29 | 486.43 | 1,158.76 | 1,138.26 | 20.50 | 56.517 | |
| 3,300.00 | 3,236.84 | 2,859.38 | 2,737.97 | 14.29 | 14.47 | -163.544 | 356.46 | 514.69 | 1,220.51 | 1,199.32 | 21.19 | 57.597 | |
| 3,400.00 | 3,333.65 | 2,937.99 | 2,809.29 | 14.82 | 15.08 | -163.404 | 373.63 | 542.96 | 1,282.27 | 1,260.39 | 21.88 | 58.602 | |
| 3,500.00 | 3,430.46 | 3,016.61 | 2,880.61 | 15.36 | 15.69 | -163.276 | 390.81 | 571.22 | 1,344.03 | 1,321.46 | 22.57 | 59.541 | |
| 3,600.00 | 3,527.26 | 3,095.22 | 2,951.92 | 15.90 | 16.30 | -163.159 | 407.98 | 599.49 | 1,405.80 | 1,382.53 | 23.27 | 60.417 | |
| 3,700.00 | 3,624.07 | 3,173.83 | 3,023.24 | 16.43 | 16.92 | -163.053 | 425.15 | 627.75 | 1,467.57 | 1,443.60 | 23.97 | 61.237 | |
| 3,800.00 | 3,720.88 | 3,252.45 | 3,094.56 | 16.97 | 17.54 | -162.955 | 442.32 | 656.02 | 1,529.34 | 1,504.68 | 24.66 | 62.006 | |
| 3,900.00 | 3,817.68 | 3,331.06 | 3,165.88 | 17.51 | 18.16 | -162.864 | 459.50 | 684.28 | 1,591.12 | 1,565.75 | 25.36 | 62.729 | |
| 4,000.00 | 3,914.49 | 3,409.67 | 3,237.19 | 18.05 | 18.78 | -162.780 | 476.67 | 712.55 | 1,652.90 | 1,626.83 | 26.07 | 63.409 | |
| 4,100.00 | 4,011.30 | 3,488.29 | 3,308.51 | 18.59 | 19.40 | -162.703 | 493.84 | 740.81 | 1,714.68 | 1,687.90 | 26.77 | 64.049 | |
| 4,200.00 | 4,108.10 | 3,566.90 | 3,379.83 | 19.13 | 20.03 | -162.631 | 511.01 | 769.08 | 1,776.46 | 1,748.98 | 27.48 | 64.653 | |
| 4,300.00 | 4,204.91 | 3,645.51 | 3,451.15 | 19.67 | 20.65 | -162.563 | 528.19 | 797.35 | 1,838.24 | 1,810.06 | 28.18 | 65.224 | |
| 4,400.00 | 4,301.98 | 3,724.75 | 3,523.03 | 20.20 | 21.28 | -162.925 | 545.50 | 825.84 | 1,899.20 | 1,870.31 | 28.89 | 65.737 | |
| 4,500.00 | 4,400.10 | 3,806.71 | 3,597.38 | 20.68 | 21.93 | -163.407 | 563.40 | 855.30 | 1,956.38 | 1,926.77 | 29.60 | 66.085 | |
| 4,600.00 | 4,499.10 | 3,891.36 | 3,674.17 | 21.11 | 22.61 | -163.770 | 581.89 | 885.74 | 2,009.37 | 1,979.05 | 30.32 | 66.265 | |
| 4,700.00 | 4,598.69 | 3,978.46 | 3,753.19 | 21.48 | 23.31 | -164.028 | 600.92 | 917.06 | 2,058.06 | 2,027.01 | 31.05 | 66.290 | |
| 4,800.00 | 4,698.62 | 4,067.77 | 3,834.22 | 21.79 | 24.02 | -164.193 | 620.43 | 949.17 | 2,102.32 | 2,070.55 | 31.77 | 66.173 | |
| 4,900.00 | 4,798.62 | 4,158.45 | 3,916.48 | 22.04 | 24.75 | 45.545 | 640.24 | 981.77 | 2,143.54 | 2,111.06 | 32.48 | 65.996 | |
| 5,000.00 | 4,898.62 | 4,249.17 | 3,998.79 | 22.30 | 25.48 | 45.796 | 660.05 | 1,014.39 | 2,184.71 | 2,151.51 | 33.19 | 65.816 | |
| 5,100.00 | 4,998.35 | 4,339.27 | 4,080.52 | 22.55 | 26.20 | 83.182 | 679.73 | 1,046.79 | 2,225.51 | 2,191.62 | 33.88 | 65.679 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 039H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 5,095.64 | 4,426.00 | 4,159.20 | 22.75 | 26.90 | 79.763 | 698.68 | 1,077.97 | 2,264.67 | 2,230.19 | 34.48 | 65.673 | |
| 5,300.00 | 5,187.53 | 4,506.70 | 4,232.41 | 22.90 | 27.55 | 76.937 | 716.31 | 1,106.99 | 2,301.65 | 2,266.67 | 34.98 | 65.794 | |
| 5,400.00 | 5,271.23 | 4,578.94 | 4,297.94 | 23.00 | 28.13 | 74.578 | 732.09 | 1,132.96 | 2,336.18 | 2,300.79 | 35.39 | 66.008 | |
| 5,500.00 | 5,344.20 | 4,640.50 | 4,353.80 | 23.06 | 28.62 | 72.533 | 745.54 | 1,155.09 | 2,368.21 | 2,332.46 | 35.75 | 66.249 | |
| 5,600.00 | 5,404.22 | 4,689.53 | 4,398.28 | 23.09 | 29.02 | 70.652 | 756.25 | 1,172.72 | 2,397.77 | 2,361.68 | 36.10 | 66.429 | |
| 5,700.00 | 5,449.47 | 4,724.53 | 4,430.03 | 23.11 | 29.30 | 68.813 | 763.89 | 1,185.31 | 2,424.87 | 2,388.38 | 36.49 | 66.459 | |
| 5,800.00 | 5,478.74 | 4,744.00 | 4,447.69 | 23.20 | 29.46 | 67.236 | 768.15 | 1,192.31 | 2,450.76 | 2,413.81 | 36.96 | 66.315 | |
| 5,900.00 | 5,491.52 | 4,746.47 | 4,449.93 | 23.48 | 29.48 | 64.843 | 768.68 | 1,193.19 | 2,477.82 | 2,440.32 | 37.51 | 66.066 | |
| 6,000.00 | 5,492.77 | 6,452.68 | 5,527.41 | 24.13 | 35.38 | 90.793 | 1,548.82 | 888.01 | 2,495.78 | 2,445.21 | 50.57 | 49.356 | |
| 6,100.00 | 5,493.66 | 6,552.68 | 5,528.26 | 25.14 | 35.38 | 90.792 | 1,618.43 | 816.23 | 2,495.37 | 2,442.26 | 53.11 | 46.983 | |
| 6,200.00 | 5,494.56 | 6,652.68 | 5,529.10 | 26.40 | 35.44 | 90.791 | 1,688.05 | 744.44 | 2,494.97 | 2,439.04 | 55.93 | 44.607 | |
| 6,300.00 | 5,495.45 | 6,752.68 | 5,529.95 | 27.83 | 35.59 | 90.790 | 1,757.66 | 672.66 | 2,494.57 | 2,435.58 | 58.99 | 42.289 | |
| 6,400.00 | 5,496.34 | 6,852.68 | 5,530.79 | 29.39 | 35.98 | 90.789 | 1,827.27 | 600.87 | 2,494.17 | 2,431.90 | 62.26 | 40.059 | |
| 6,500.00 | 5,497.23 | 6,952.68 | 5,531.64 | 31.05 | 36.87 | 90.788 | 1,896.89 | 529.09 | 2,493.76 | 2,428.15 | 65.62 | 38.006 | |
| 6,600.00 | 5,498.13 | 7,052.68 | 5,532.48 | 32.79 | 38.20 | 90.787 | 1,966.50 | 457.30 | 2,493.36 | 2,424.25 | 69.12 | 36.075 | |
| 6,700.00 | 5,499.02 | 7,152.68 | 5,533.33 | 34.61 | 39.84 | 90.786 | 2,036.11 | 385.52 | 2,492.96 | 2,420.13 | 72.83 | 34.231 | |
| 6,800.00 | 5,499.91 | 7,252.68 | 5,534.17 | 36.48 | 41.62 | 90.786 | 2,105.73 | 313.73 | 2,492.56 | 2,415.94 | 76.62 | 32.532 | |
| 6,900.00 | 5,500.80 | 7,352.68 | 5,535.02 | 38.40 | 43.48 | 90.785 | 2,175.34 | 241.95 | 2,492.16 | 2,411.66 | 80.50 | 30.960 | |
| 7,000.00 | 5,501.70 | 7,452.68 | 5,535.86 | 40.36 | 45.40 | 90.784 | 2,244.95 | 170.16 | 2,491.75 | 2,407.31 | 84.45 | 29.506 | |
| 7,100.00 | 5,502.59 | 7,552.68 | 5,536.71 | 42.36 | 47.37 | 90.783 | 2,314.57 | 98.38 | 2,491.35 | 2,402.89 | 88.47 | 28.162 | |
| 7,200.00 | 5,503.48 | 7,652.68 | 5,537.55 | 44.39 | 49.36 | 90.782 | 2,384.18 | 26.59 | 2,490.95 | 2,398.41 | 92.54 | 26.917 | |
| 7,300.00 | 5,504.37 | 7,752.67 | 5,538.40 | 46.44 | 51.39 | 90.781 | 2,453.79 | -45.19 | 2,490.55 | 2,393.88 | 96.67 | 25.764 | |
| 7,400.00 | 5,505.27 | 7,852.67 | 5,539.24 | 48.52 | 53.44 | 90.780 | 2,523.41 | -116.98 | 2,490.15 | 2,389.31 | 100.84 | 24.695 | |
| 7,500.00 | 5,506.16 | 7,952.67 | 5,540.09 | 50.62 | 55.52 | 90.779 | 2,593.02 | -188.76 | 2,489.74 | 2,384.70 | 105.04 | 23.702 | |
| 7,600.00 | 5,507.05 | 8,052.67 | 5,540.93 | 52.74 | 57.61 | 90.778 | 2,662.63 | -260.55 | 2,489.34 | 2,380.05 | 109.29 | 22.778 | |
| 7,700.00 | 5,507.94 | 8,152.67 | 5,541.78 | 54.87 | 59.72 | 90.777 | 2,732.25 | -332.33 | 2,488.94 | 2,375.38 | 113.56 | 21.917 | |
| 7,800.00 | 5,508.84 | 8,252.67 | 5,542.62 | 57.02 | 61.85 | 90.776 | 2,801.86 | -404.12 | 2,488.54 | 2,370.67 | 117.86 | 21.114 | |
| 7,900.00 | 5,509.73 | 8,352.67 | 5,543.47 | 59.18 | 63.99 | 90.775 | 2,871.47 | -475.91 | 2,488.13 | 2,365.95 | 122.19 | 20.363 | |
| 8,000.00 | 5,510.62 | 8,452.67 | 5,544.31 | 61.35 | 66.14 | 90.774 | 2,941.09 | -547.69 | 2,487.73 | 2,361.20 | 126.53 | 19.661 | |
| 8,100.00 | 5,511.51 | 8,552.67 | 5,545.16 | 63.53 | 68.30 | 90.773 | 3,010.70 | -619.48 | 2,487.33 | 2,356.43 | 130.90 | 19.002 | |
| 8,200.00 | 5,512.41 | 8,652.67 | 5,546.00 | 65.72 | 70.47 | 90.772 | 3,080.31 | -691.26 | 2,486.93 | 2,351.64 | 135.29 | 18.383 | |
| 8,300.00 | 5,513.30 | 8,752.67 | 5,546.85 | 67.92 | 72.65 | 90.771 | 3,149.93 | -763.05 | 2,486.53 | 2,346.84 | 139.69 | 17.801 | |
| 8,400.00 | 5,514.19 | 8,852.67 | 5,547.69 | 70.13 | 74.84 | 90.770 | 3,219.54 | -834.83 | 2,486.12 | 2,342.02 | 144.10 | 17.252 | |
| 8,500.00 | 5,515.08 | 8,952.66 | 5,548.54 | 72.34 | 77.04 | 90.769 | 3,289.15 | -906.62 | 2,485.72 | 2,337.19 | 148.53 | 16.735 | |
| 8,600.00 | 5,515.97 | 9,052.66 | 5,549.38 | 74.56 | 79.24 | 90.768 | 3,358.77 | -978.40 | 2,485.32 | 2,332.35 | 152.97 | 16.247 | |
| 8,700.00 | 5,516.87 | 9,152.66 | 5,550.23 | 76.79 | 81.45 | 90.767 | 3,428.38 | -1,050.19 | 2,484.92 | 2,327.49 | 157.43 | 15.785 | |
| 8,800.00 | 5,517.76 | 9,252.66 | 5,551.07 | 79.02 | 83.67 | 90.766 | 3,497.99 | -1,121.97 | 2,484.52 | 2,322.63 | 161.89 | 15.347 | |
| 8,900.00 | 5,518.65 | 9,352.66 | 5,551.92 | 81.25 | 85.89 | 90.765 | 3,567.61 | -1,193.76 | 2,484.11 | 2,317.75 | 166.36 | 14.932 | |
| 9,000.00 | 5,519.54 | 9,452.66 | 5,552.76 | 83.49 | 88.11 | 90.764 | 3,637.22 | -1,265.54 | 2,483.71 | 2,312.87 | 170.84 | 14.538 | |
| 9,100.00 | 5,520.44 | 9,552.66 | 5,553.61 | 85.74 | 90.34 | 90.763 | 3,706.83 | -1,337.33 | 2,483.31 | 2,307.98 | 175.33 | 14.163 | |
| 9,200.00 | 5,521.33 | 9,652.66 | 5,554.45 | 87.99 | 92.58 | 90.762 | 3,776.45 | -1,409.11 | 2,482.91 | 2,303.08 | 179.83 | 13.807 | |
| 9,300.00 | 5,522.22 | 9,752.66 | 5,555.30 | 90.24 | 94.82 | 90.761 | 3,846.06 | -1,480.90 | 2,482.51 | 2,298.17 | 184.33 | 13.468 | |
| 9,400.00 | 5,523.11 | 9,852.66 | 5,556.14 | 92.49 | 97.06 | 90.760 | 3,915.67 | -1,552.68 | 2,482.10 | 2,293.26 | 188.84 | 13.144 | |
| 9,500.00 | 5,524.01 | 9,952.66 | 5,556.99 | 94.75 | 99.31 | 90.759 | 3,985.29 | -1,624.47 | 2,481.70 | 2,288.34 | 193.36 | 12.835 | |
| 9,600.00 | 5,524.90 | 10,052.66 | 5,557.83 | 97.01 | 101.55 | 90.758 | 4,054.90 | -1,696.25 | 2,481.30 | 2,283.42 | 197.88 | 12.539 | |
| 9,700.00 | 5,525.79 | 10,152.65 | 5,558.68 | 99.27 | 103.81 | 90.757 | 4,124.51 | -1,768.04 | 2,480.90 | 2,278.49 | 202.41 | 12.257 | |
| 9,800.00 | 5,526.68 | 10,252.65 | 5,559.52 | 101.54 | 106.06 | 90.756 | 4,194.13 | -1,839.82 | 2,480.49 | 2,273.56 | 206.94 | 11.987 | |
| 9,900.00 | 5,527.58 | 10,352.65 | 5,560.37 | 103.80 | 108.32 | 90.756 | 4,263.74 | -1,911.61 | 2,480.09 | 2,268.62 | 211.47 | 11.728 | |
| 10,000.00 | 5,528.47 | 10,452.65 | 5,561.21 | 106.07 | 110.58 | 90.755 | 4,333.35 | -1,983.39 | 2,479.69 | 2,263.68 | 216.01 | 11.479 | |
| 10,100.00 | 5,529.36 | 10,552.65 | 5,562.06 | 108.35 | 112.84 | 90.754 | 4,402.97 | -2,055.18 | 2,479.29 | 2,258.73 | 220.56 | 11.241 | |
| 10,200.00 | 5,530.25 | 10,652.65 | 5,562.90 | 110.62 | 115.11 | 90.753 | 4,472.58 | -2,126.96 | 2,478.89 | 2,253.78 | 225.11 | 11.012 | |
| 10,300.00 | 5,531.15 | 10,752.65 | 5,563.75 | 112.89 | 117.37 | 90.752 | 4,542.19 | -2,198.75 | 2,478.48 | 2,248.83 | 229.66 | 10.792 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 039H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,400.00 | 5,532.04 | 10,852.65 | 5,564.59 | 115.17 | 119.64 | 90.751 | 4,611.81 | -2,270.53 | 2,478.08 | 2,243.87 | 234.21 | 10.581 | |
| 10,500.00 | 5,532.93 | 10,952.65 | 5,565.44 | 117.45 | 121.91 | 90.750 | 4,681.42 | -2,342.32 | 2,477.68 | 2,238.91 | 238.77 | 10.377 | |
| 10,600.00 | 5,533.82 | 11,052.65 | 5,566.28 | 119.73 | 124.19 | 90.749 | 4,751.03 | -2,414.10 | 2,477.28 | 2,233.95 | 243.33 | 10.181 | |
| 10,700.00 | 5,534.72 | 11,152.65 | 5,567.13 | 122.01 | 126.46 | 90.748 | 4,820.65 | -2,485.89 | 2,476.88 | 2,228.98 | 247.89 | 9.992 | |
| 10,800.00 | 5,535.61 | 11,252.65 | 5,567.97 | 124.29 | 128.74 | 90.747 | 4,890.26 | -2,557.67 | 2,476.47 | 2,224.01 | 252.46 | 9.809 | |
| 10,900.00 | 5,536.50 | 11,352.65 | 5,568.82 | 126.58 | 131.01 | 90.746 | 4,959.87 | -2,629.46 | 2,476.07 | 2,219.04 | 257.03 | 9.633 | |
| 11,000.00 | 5,537.39 | 11,452.64 | 5,569.66 | 128.86 | 133.29 | 90.745 | 5,029.49 | -2,701.24 | 2,475.67 | 2,214.07 | 261.60 | 9.464 | |
| 11,100.00 | 5,538.29 | 11,552.64 | 5,570.51 | 131.15 | 135.57 | 90.744 | 5,099.10 | -2,773.03 | 2,475.27 | 2,209.09 | 266.17 | 9.299 | |
| 11,200.00 | 5,539.18 | 11,652.64 | 5,571.35 | 133.44 | 137.85 | 90.743 | 5,168.71 | -2,844.81 | 2,474.87 | 2,204.12 | 270.75 | 9.141 | |
| 11,300.00 | 5,540.07 | 11,752.64 | 5,572.20 | 135.72 | 140.14 | 90.742 | 5,238.33 | -2,916.60 | 2,474.46 | 2,199.14 | 275.33 | 8.987 | |
| 11,400.00 | 5,540.96 | 11,852.64 | 5,573.04 | 138.01 | 142.42 | 90.741 | 5,307.94 | -2,988.38 | 2,474.06 | 2,194.16 | 279.91 | 8.839 | |
| 11,500.00 | 5,541.85 | 11,952.64 | 5,573.89 | 140.30 | 144.71 | 90.740 | 5,377.55 | -3,060.17 | 2,473.66 | 2,189.17 | 284.49 | 8.695 | |
| 11,600.00 | 5,542.75 | 12,052.64 | 5,574.73 | 142.59 | 146.99 | 90.739 | 5,447.17 | -3,131.95 | 2,473.26 | 2,184.19 | 289.07 | 8.556 | |
| 11,700.00 | 5,543.64 | 12,152.64 | 5,575.58 | 144.89 | 149.28 | 90.738 | 5,516.78 | -3,203.74 | 2,472.85 | 2,179.20 | 293.65 | 8.421 | |
| 11,800.00 | 5,544.53 | 12,252.64 | 5,576.42 | 147.18 | 151.57 | 90.737 | 5,586.39 | -3,275.52 | 2,472.45 | 2,174.21 | 298.24 | 8.290 | |
| 11,900.00 | 5,545.42 | 12,352.64 | 5,577.27 | 149.47 | 153.86 | 90.736 | 5,656.01 | -3,347.31 | 2,472.05 | 2,169.22 | 302.83 | 8.163 | |
| 12,000.00 | 5,546.32 | 12,452.64 | 5,578.11 | 151.76 | 156.15 | 90.735 | 5,725.62 | -3,419.09 | 2,471.65 | 2,164.23 | 307.42 | 8.040 | |
| 12,100.00 | 5,547.21 | 12,552.64 | 5,578.96 | 154.06 | 158.44 | 90.734 | 5,795.23 | -3,490.88 | 2,471.25 | 2,159.24 | 312.01 | 7.920 | |
| 12,200.00 | 5,548.10 | 12,652.63 | 5,579.80 | 156.35 | 160.73 | 90.733 | 5,864.85 | -3,562.66 | 2,470.84 | 2,154.25 | 316.60 | 7.804 | |
| 12,300.00 | 5,548.99 | 12,752.63 | 5,580.65 | 158.65 | 163.02 | 90.732 | 5,934.46 | -3,634.45 | 2,470.44 | 2,149.25 | 321.19 | 7.691 | |
| 12,400.00 | 5,549.89 | 12,852.63 | 5,581.49 | 160.95 | 165.31 | 90.731 | 6,004.07 | -3,706.24 | 2,470.04 | 2,144.25 | 325.79 | 7.582 | |
| 12,500.00 | 5,550.78 | 12,952.63 | 5,582.34 | 163.24 | 167.61 | 90.730 | 6,073.69 | -3,778.02 | 2,469.64 | 2,139.26 | 330.38 | 7.475 | |
| 12,600.00 | 5,551.67 | 13,052.63 | 5,583.18 | 165.54 | 169.90 | 90.729 | 6,143.30 | -3,849.81 | 2,469.24 | 2,134.26 | 334.98 | 7.371 | |
| 12,700.00 | 5,552.56 | 13,152.63 | 5,584.03 | 167.84 | 172.20 | 90.728 | 6,212.91 | -3,921.59 | 2,468.83 | 2,129.26 | 339.58 | 7.270 | |
| 12,800.00 | 5,553.46 | 13,252.63 | 5,584.87 | 170.14 | 174.49 | 90.727 | 6,282.53 | -3,993.38 | 2,468.43 | 2,124.26 | 344.17 | 7.172 | |
| 12,900.00 | 5,554.35 | 13,352.63 | 5,585.72 | 172.44 | 176.79 | 90.726 | 6,352.14 | -4,065.16 | 2,468.03 | 2,119.26 | 348.77 | 7.076 | |
| 13,000.00 | 5,555.24 | 13,452.63 | 5,586.56 | 174.74 | 179.08 | 90.725 | 6,421.75 | -4,136.95 | 2,467.63 | 2,114.25 | 353.37 | 6.983 | |
| 13,100.00 | 5,556.13 | 13,552.63 | 5,587.41 | 177.04 | 181.38 | 90.724 | 6,491.37 | -4,208.73 | 2,467.23 | 2,109.25 | 357.98 | 6.892 | |
| 13,200.00 | 5,557.03 | 13,652.63 | 5,588.25 | 179.34 | 183.68 | 90.723 | 6,560.98 | -4,280.52 | 2,466.82 | 2,104.25 | 362.58 | 6.804 | |
| 13,300.00 | 5,557.92 | 13,752.63 | 5,589.10 | 181.64 | 185.98 | 90.722 | 6,630.59 | -4,352.30 | 2,466.42 | 2,099.24 | 367.18 | 6.717 | |
| 13,400.00 | 5,558.81 | 13,852.62 | 5,589.94 | 183.94 | 188.28 | 90.721 | 6,700.21 | -4,424.09 | 2,466.02 | 2,094.23 | 371.79 | 6.633 | |
| 13,500.00 | 5,559.70 | 13,952.62 | 5,590.79 | 186.24 | 190.58 | 90.720 | 6,769.82 | -4,495.87 | 2,465.62 | 2,089.23 | 376.39 | 6.551 | |
| 13,600.00 | 5,560.60 | 14,052.62 | 5,591.63 | 188.54 | 192.88 | 90.719 | 6,839.43 | -4,567.66 | 2,465.22 | 2,084.22 | 381.00 | 6.470 | |
| 13,700.00 | 5,561.49 | 14,152.62 | 5,592.48 | 190.85 | 195.18 | 90.718 | 6,909.05 | -4,639.44 | 2,464.81 | 2,079.21 | 385.60 | 6.392 | |
| 13,800.00 | 5,562.38 | 14,252.62 | 5,593.32 | 193.15 | 197.48 | 90.717 | 6,978.66 | -4,711.23 | 2,464.41 | 2,074.20 | 390.21 | 6.316 | |
| 13,900.00 | 5,563.27 | 14,352.62 | 5,594.17 | 195.45 | 199.78 | 90.716 | 7,048.27 | -4,783.01 | 2,464.01 | 2,069.19 | 394.82 | 6.241 | |
| 14,000.00 | 5,564.17 | 14,452.62 | 5,595.01 | 197.75 | 202.08 | 90.715 | 7,117.89 | -4,854.80 | 2,463.61 | 2,064.18 | 399.43 | 6.168 | |
| 14,100.00 | 5,565.06 | 14,552.62 | 5,595.86 | 200.06 | 204.38 | 90.714 | 7,187.50 | -4,926.58 | 2,463.20 | 2,059.17 | 404.03 | 6.097 | |
| 14,200.00 | 5,565.95 | 14,652.62 | 5,596.70 | 202.36 | 206.69 | 90.713 | 7,257.11 | -4,998.37 | 2,462.80 | 2,054.16 | 408.64 | 6.027 | |
| 14,300.00 | 5,566.84 | 14,752.62 | 5,597.55 | 204.67 | 208.99 | 90.712 | 7,326.73 | -5,070.15 | 2,462.40 | 2,049.15 | 413.25 | 5.959 | |
| 14,400.00 | 5,567.73 | 14,852.62 | 5,598.39 | 206.97 | 211.29 | 90.711 | 7,396.34 | -5,141.94 | 2,462.00 | 2,044.13 | 417.86 | 5.892 | |
| 14,500.00 | 5,568.63 | 14,952.62 | 5,599.24 | 209.28 | 213.60 | 90.710 | 7,465.95 | -5,213.72 | 2,461.60 | 2,039.12 | 422.48 | 5.827 | |
| 14,600.00 | 5,569.52 | 15,052.61 | 5,600.08 | 211.58 | 215.90 | 90.709 | 7,535.57 | -5,285.51 | 2,461.19 | 2,034.11 | 427.09 | 5.763 | |
| 14,700.00 | 5,570.41 | 15,152.61 | 5,600.93 | 213.89 | 218.21 | 90.708 | 7,605.18 | -5,357.29 | 2,460.79 | 2,029.09 | 431.70 | 5.700 | |
| 14,800.00 | 5,571.30 | 15,252.61 | 5,601.77 | 216.19 | 220.51 | 90.707 | 7,674.79 | -5,429.08 | 2,460.39 | 2,024.08 | 436.31 | 5.639 | |
| 14,900.00 | 5,572.20 | 15,352.61 | 5,602.62 | 218.50 | 222.82 | 90.706 | 7,744.41 | -5,500.86 | 2,459.99 | 2,019.06 | 440.93 | 5.579 | |
| 15,000.00 | 5,573.09 | 15,452.61 | 5,603.46 | 220.80 | 225.12 | 90.705 | 7,814.02 | -5,572.65 | 2,459.59 | 2,014.05 | 445.54 | 5.520 | |
| 15,100.00 | 5,573.98 | 15,552.61 | 5,604.31 | 223.11 | 227.43 | 90.704 | 7,883.63 | -5,644.43 | 2,459.18 | 2,009.03 | 450.15 | 5.463 | |
| 15,200.00 | 5,574.87 | 15,652.61 | 5,605.15 | 225.42 | 229.73 | 90.703 | 7,953.25 | -5,716.22 | 2,458.78 | 2,004.01 | 454.77 | 5.407 | |
| 15,300.00 | 5,575.77 | 15,752.61 | 5,606.00 | 227.72 | 232.04 | 90.703 | 8,022.86 | -5,788.00 | 2,458.38 | 1,999.00 | 459.38 | 5.351 | |
| 15,400.00 | 5,576.66 | 15,852.61 | 5,606.84 | 230.03 | 234.34 | 90.702 | 8,092.48 | -5,859.79 | 2,457.98 | 1,993.98 | 464.00 | 5.297 | |
| 15,500.00 | 5,577.55 | 15,952.61 | 5,607.69 | 232.34 | 236.65 | 90.701 | 8,162.09 | -5,931.57 | 2,457.58 | 1,988.96 | 468.62 | 5.244 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 039H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,600.00 | 5,578.44 | 16,052.61 | 5,608.53 | 234.64 | 238.96 | 90.700 | 8,231.70 | -6,003.36 | 2,457.17 | 1,983.94 | 473.23 | 5.192 | |
| 15,700.00 | 5,579.34 | 16,152.61 | 5,609.37 | 236.95 | 241.26 | 90.699 | 8,301.32 | -6,075.14 | 2,456.77 | 1,978.92 | 477.85 | 5.141 | |
| 15,800.00 | 5,580.23 | 16,252.61 | 5,610.22 | 239.26 | 243.57 | 90.698 | 8,370.93 | -6,146.93 | 2,456.37 | 1,973.90 | 482.47 | 5.091 | |
| 15,900.00 | 5,581.12 | 16,352.60 | 5,611.06 | 241.57 | 245.88 | 90.697 | 8,440.54 | -6,218.71 | 2,455.97 | 1,968.88 | 487.08 | 5.042 | |
| 16,000.00 | 5,582.01 | 16,452.60 | 5,611.91 | 243.87 | 248.19 | 90.696 | 8,510.16 | -6,290.50 | 2,455.57 | 1,963.86 | 491.70 | 4.994 | |
| 16,100.00 | 5,582.91 | 16,552.60 | 5,612.75 | 246.18 | 250.50 | 90.695 | 8,579.77 | -6,362.28 | 2,455.16 | 1,958.84 | 496.32 | 4.947 | |
| 16,200.00 | 5,583.80 | 16,652.60 | 5,613.60 | 248.49 | 252.80 | 90.694 | 8,649.38 | -6,434.07 | 2,454.76 | 1,953.82 | 500.94 | 4.900 | |
| 16,300.00 | 5,584.69 | 16,752.60 | 5,614.44 | 250.80 | 255.11 | 90.693 | 8,719.00 | -6,505.85 | 2,454.36 | 1,948.80 | 505.56 | 4.855 | |
| 16,400.00 | 5,585.58 | 16,852.60 | 5,615.29 | 253.11 | 257.42 | 90.692 | 8,788.61 | -6,577.64 | 2,453.96 | 1,943.78 | 510.18 | 4.810 | |
| 16,500.00 | 5,586.48 | 16,952.60 | 5,616.13 | 255.42 | 259.73 | 90.691 | 8,858.22 | -6,649.42 | 2,453.56 | 1,938.76 | 514.80 | 4.766 | |
| 16,600.00 | 5,587.37 | 17,052.60 | 5,616.98 | 257.73 | 262.04 | 90.690 | 8,927.84 | -6,721.21 | 2,453.15 | 1,933.74 | 519.41 | 4.723 | |
| 16,700.00 | 5,588.26 | 17,152.60 | 5,617.82 | 260.03 | 264.35 | 90.689 | 8,997.45 | -6,793.00 | 2,452.75 | 1,928.72 | 524.03 | 4.681 | |
| 16,800.00 | 5,589.15 | 17,252.60 | 5,618.67 | 262.34 | 266.66 | 90.688 | 9,067.06 | -6,864.78 | 2,452.35 | 1,923.69 | 528.66 | 4.639 | |
| 16,900.00 | 5,590.05 | 17,352.60 | 5,619.51 | 264.65 | 268.97 | 90.687 | 9,136.68 | -6,936.57 | 2,451.95 | 1,918.67 | 533.28 | 4.598 | |
| 17,000.00 | 5,590.94 | 17,452.60 | 5,620.36 | 266.96 | 271.28 | 90.686 | 9,206.29 | -7,008.35 | 2,451.55 | 1,913.65 | 537.90 | 4.558 | |
| 17,100.00 | 5,591.83 | 17,552.59 | 5,621.20 | 269.27 | 273.59 | 90.685 | 9,275.90 | -7,080.14 | 2,451.14 | 1,908.63 | 542.52 | 4.518 | |
| 17,200.00 | 5,592.72 | 17,652.59 | 5,622.05 | 271.58 | 275.90 | 90.684 | 9,345.52 | -7,151.92 | 2,450.74 | 1,903.60 | 547.14 | 4.479 | |
| 17,300.00 | 5,593.61 | 17,752.59 | 5,622.89 | 273.89 | 278.21 | 90.683 | 9,415.13 | -7,223.71 | 2,450.34 | 1,898.58 | 551.76 | 4.441 | |
| 17,400.00 | 5,594.51 | 17,852.59 | 5,623.74 | 276.20 | 280.52 | 90.682 | 9,484.74 | -7,295.49 | 2,449.94 | 1,893.55 | 556.38 | 4.403 | |
| 17,500.00 | 5,595.40 | 17,952.59 | 5,624.58 | 278.51 | 282.83 | 90.681 | 9,554.36 | -7,367.28 | 2,449.53 | 1,888.53 | 561.00 | 4.366 | |
| 17,600.00 | 5,596.29 | 18,052.59 | 5,625.43 | 280.82 | 285.14 | 90.680 | 9,623.97 | -7,439.06 | 2,449.13 | 1,883.51 | 565.63 | 4.330 | |
| 17,700.00 | 5,597.18 | 18,152.59 | 5,626.27 | 283.13 | 287.45 | 90.679 | 9,693.58 | -7,510.85 | 2,448.73 | 1,878.48 | 570.25 | 4.294 | |
| 17,800.00 | 5,598.08 | 18,252.59 | 5,627.12 | 285.44 | 289.76 | 90.678 | 9,763.20 | -7,582.63 | 2,448.33 | 1,873.46 | 574.87 | 4.259 | |
| 17,900.00 | 5,598.97 | 18,352.59 | 5,627.96 | 287.75 | 292.07 | 90.677 | 9,832.81 | -7,654.42 | 2,447.93 | 1,868.43 | 579.49 | 4.224 | |
| 18,000.00 | 5,599.86 | 18,452.59 | 5,628.81 | 290.06 | 294.38 | 90.676 | 9,902.42 | -7,726.20 | 2,447.52 | 1,863.41 | 584.12 | 4.190 | |
| 18,100.00 | 5,600.75 | 18,552.59 | 5,629.65 | 292.37 | 296.69 | 90.675 | 9,972.04 | -7,797.99 | 2,447.12 | 1,858.38 | 588.74 | 4.157 | |
| 18,200.00 | 5,601.65 | 18,652.59 | 5,630.50 | 294.68 | 299.01 | 90.674 | 10,041.65 | -7,869.77 | 2,446.72 | 1,853.36 | 593.36 | 4.123 | |
| 18,300.00 | 5,602.54 | 18,752.58 | 5,631.34 | 297.00 | 301.32 | 90.673 | 10,111.26 | -7,941.56 | 2,446.32 | 1,848.33 | 597.99 | 4.091 | |
| 18,400.00 | 5,603.43 | 18,852.58 | 5,632.19 | 299.31 | 303.63 | 90.672 | 10,180.88 | -8,013.34 | 2,445.92 | 1,843.30 | 602.61 | 4.059 | |
| 18,500.00 | 5,604.32 | 18,952.58 | 5,633.03 | 301.62 | 305.94 | 90.671 | 10,250.49 | -8,085.13 | 2,445.51 | 1,838.28 | 607.24 | 4.027 | |
| 18,600.00 | 5,605.22 | 19,052.58 | 5,633.88 | 303.93 | 308.25 | 90.670 | 10,320.10 | -8,156.91 | 2,445.11 | 1,833.25 | 611.86 | 3.996 | |
| 18,700.00 | 5,606.11 | 19,152.58 | 5,634.72 | 306.24 | 310.56 | 90.669 | 10,389.72 | -8,228.70 | 2,444.71 | 1,828.23 | 616.48 | 3.966 | |
| 18,800.00 | 5,607.00 | 19,252.58 | 5,635.57 | 308.55 | 312.88 | 90.668 | 10,459.33 | -8,300.48 | 2,444.31 | 1,823.20 | 621.11 | 3.935 | |
| 18,900.00 | 5,607.89 | 19,352.58 | 5,636.41 | 310.86 | 315.19 | 90.667 | 10,528.94 | -8,372.27 | 2,443.91 | 1,818.17 | 625.73 | 3.906 | |
| 19,000.00 | 5,608.79 | 19,452.58 | 5,637.26 | 313.17 | 317.50 | 90.666 | 10,598.56 | -8,444.05 | 2,443.50 | 1,813.15 | 630.36 | 3.876 | |
| 19,100.00 | 5,609.68 | 19,552.58 | 5,638.10 | 315.48 | 319.81 | 90.665 | 10,668.17 | -8,515.84 | 2,443.10 | 1,808.12 | 634.98 | 3.848 | |
| 19,200.00 | 5,610.57 | 19,652.58 | 5,638.95 | 317.80 | 322.13 | 90.664 | 10,737.78 | -8,587.62 | 2,442.70 | 1,803.09 | 639.61 | 3.819 | |
| 19,300.00 | 5,611.46 | 19,752.58 | 5,639.79 | 320.11 | 324.44 | 90.663 | 10,807.40 | -8,659.41 | 2,442.30 | 1,798.06 | 644.23 | 3.791 | |
| 19,400.00 | 5,612.36 | 19,852.58 | 5,640.64 | 322.42 | 326.75 | 90.662 | 10,877.01 | -8,731.19 | 2,441.90 | 1,793.04 | 648.86 | 3.763 | |
| 19,500.00 | 5,613.25 | 19,952.57 | 5,641.48 | 324.73 | 329.07 | 90.661 | 10,946.62 | -8,802.98 | 2,441.49 | 1,788.01 | 653.49 | 3.736 | |
| 19,600.00 | 5,614.14 | 20,052.57 | 5,642.33 | 327.04 | 331.38 | 90.660 | 11,016.24 | -8,874.76 | 2,441.09 | 1,782.98 | 658.11 | 3.709 | |
| 19,700.00 | 5,615.03 | 20,152.57 | 5,643.17 | 329.36 | 333.69 | 90.659 | 11,085.85 | -8,946.55 | 2,440.69 | 1,777.95 | 662.74 | 3.683 | |
| 19,800.00 | 5,615.92 | 20,252.57 | 5,644.02 | 331.67 | 336.00 | 90.658 | 11,155.46 | -9,018.33 | 2,440.29 | 1,772.93 | 667.36 | 3.657 | |
| 19,900.00 | 5,616.82 | 20,352.57 | 5,644.86 | 333.98 | 338.32 | 90.657 | 11,225.08 | -9,090.12 | 2,439.89 | 1,767.90 | 671.99 | 3.631 | |
| 20,000.00 | 5,617.71 | 20,452.57 | 5,645.71 | 336.29 | 340.63 | 90.656 | 11,294.69 | -9,161.90 | 2,439.48 | 1,762.87 | 676.62 | 3.605 | |
| 20,100.00 | 5,618.60 | 20,552.57 | 5,646.55 | 338.60 | 342.94 | 90.655 | 11,364.30 | -9,233.69 | 2,439.08 | 1,757.84 | 681.24 | 3.580 | |
| 20,200.00 | 5,619.49 | 20,652.57 | 5,647.40 | 340.92 | 345.26 | 90.654 | 11,433.92 | -9,305.47 | 2,438.68 | 1,752.81 | 685.87 | 3.556 | |
| 20,300.00 | 5,620.39 | 20,752.57 | 5,648.24 | 343.23 | 347.57 | 90.653 | 11,503.53 | -9,377.26 | 2,438.28 | 1,747.78 | 690.49 | 3.531 | |
| 20,400.00 | 5,621.28 | 20,852.57 | 5,649.09 | 345.54 | 349.89 | 90.652 | 11,573.14 | -9,449.04 | 2,437.88 | 1,742.75 | 695.12 | 3.507 | |
| 20,500.00 | 5,622.17 | 20,952.57 | 5,649.93 | 347.85 | 352.20 | 90.651 | 11,642.76 | -9,520.83 | 2,437.47 | 1,737.73 | 699.75 | 3.483 | |
| 20,600.00 | 5,623.06 | 21,052.57 | 5,650.78 | 350.17 | 354.51 | 90.650 | 11,712.37 | -9,592.61 | 2,437.07 | 1,732.70 | 704.38 | 3.460 | |
| 20,700.00 | 5,623.96 | 21,152.57 | 5,651.62 | 352.48 | 356.83 | 90.649 | 11,781.98 | -9,664.40 | 2,436.67 | 1,727.67 | 709.00 | 3.437 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Bobby B unit 039H - Orig hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20,800.00 | 5,624.85 | 21,252.56 | 5,652.47 | 354.79 | 359.14 | 90.648 | 11,851.60 | -9,736.18 | 2,436.27 | 1,722.64 | 713.63 | 3.414 | |
| 20,900.00 | 5,625.74 | 21,352.56 | 5,653.31 | 357.10 | 361.46 | 90.647 | 11,921.21 | -9,807.97 | 2,435.87 | 1,717.61 | 718.26 | 3.391 | |
| 21,000.00 | 5,626.63 | 21,452.56 | 5,654.16 | 359.42 | 363.77 | 90.646 | 11,990.82 | -9,879.75 | 2,435.46 | 1,712.58 | 722.88 | 3.369 | |
| 21,100.00 | 5,627.53 | 21,552.56 | 5,655.00 | 361.73 | 366.08 | 90.645 | 12,060.44 | -9,951.54 | 2,435.06 | 1,707.55 | 727.51 | 3.347 | |
| 21,200.00 | 5,628.42 | 21,652.56 | 5,655.85 | 364.04 | 368.40 | 90.644 | 12,130.05 | -10,023.33 | 2,434.66 | 1,702.52 | 732.14 | 3.325 | |
| 21,300.00 | 5,629.31 | 21,752.56 | 5,656.69 | 366.35 | 370.71 | 90.643 | 12,199.66 | -10,095.11 | 2,434.26 | 1,697.49 | 736.77 | 3.304 | |
| 21,400.00 | 5,630.20 | 21,852.56 | 5,657.54 | 368.67 | 373.03 | 90.641 | 12,269.28 | -10,166.90 | 2,433.86 | 1,692.46 | 741.40 | 3.283 | |
| 21,500.00 | 5,631.10 | 21,952.56 | 5,658.38 | 370.98 | 375.34 | 90.640 | 12,338.89 | -10,238.68 | 2,433.45 | 1,687.43 | 746.02 | 3.262 | |
| 21,600.00 | 5,631.99 | 22,052.56 | 5,659.23 | 373.29 | 377.66 | 90.639 | 12,408.50 | -10,310.47 | 2,433.05 | 1,682.40 | 750.65 | 3.241 | |
| 21,700.00 | 5,632.88 | 22,152.56 | 5,660.07 | 375.61 | 379.97 | 90.638 | 12,478.12 | -10,382.25 | 2,432.65 | 1,677.37 | 755.28 | 3.221 | |
| 21,800.00 | 5,633.77 | 22,252.56 | 5,660.92 | 377.92 | 382.29 | 90.637 | 12,547.73 | -10,454.04 | 2,432.25 | 1,672.34 | 759.91 | 3.201 | |
| 21,900.00 | 5,634.67 | 22,352.56 | 5,661.76 | 380.23 | 384.60 | 90.636 | 12,617.34 | -10,525.82 | 2,431.85 | 1,667.31 | 764.54 | 3.181 | |
| 22,000.00 | 5,635.56 | 22,452.55 | 5,662.61 | 382.55 | 386.91 | 90.635 | 12,686.96 | -10,597.61 | 2,431.44 | 1,662.28 | 769.17 | 3.161 | |
| 22,100.00 | 5,636.45 | 22,552.55 | 5,663.45 | 384.86 | 389.23 | 90.634 | 12,756.57 | -10,669.39 | 2,431.04 | 1,657.25 | 773.79 | 3.142 | |
| 22,200.00 | 5,637.34 | 22,652.55 | 5,664.30 | 387.17 | 391.54 | 90.633 | 12,826.18 | -10,741.18 | 2,430.64 | 1,652.22 | 778.42 | 3.123 | |
| 22,300.00 | 5,638.24 | 22,752.55 | 5,665.14 | 389.49 | 393.86 | 90.632 | 12,895.80 | -10,812.96 | 2,430.24 | 1,647.19 | 783.05 | 3.104 | |
| 22,400.00 | 5,639.13 | 22,852.55 | 5,665.99 | 391.80 | 396.17 | 90.631 | 12,965.41 | -10,884.75 | 2,429.84 | 1,642.16 | 787.68 | 3.085 | |
| 22,500.00 | 5,640.02 | 22,952.55 | 5,666.83 | 394.11 | 398.49 | 90.630 | 13,035.02 | -10,956.53 | 2,429.43 | 1,637.12 | 792.31 | 3.066 | |
| 22,600.00 | 5,640.91 | 23,052.55 | 5,667.68 | 396.43 | 400.80 | 90.629 | 13,104.64 | -11,028.32 | 2,429.03 | 1,632.09 | 796.94 | 3.048 | |
| 22,700.00 | 5,641.80 | 23,152.55 | 5,668.52 | 398.74 | 403.12 | 90.628 | 13,174.25 | -11,100.10 | 2,428.63 | 1,627.06 | 801.57 | 3.030 | |
| 22,800.00 | 5,642.70 | 23,252.55 | 5,669.37 | 401.05 | 405.43 | 90.627 | 13,243.86 | -11,171.89 | 2,428.23 | 1,622.03 | 806.20 | 3.012 | |
| 22,900.00 | 5,643.59 | 23,352.55 | 5,670.21 | 403.37 | 407.75 | 90.626 | 13,313.48 | -11,243.67 | 2,427.83 | 1,617.00 | 810.83 | 2.994 | |
| 23,000.00 | 5,644.48 | 23,452.55 | 5,671.06 | 405.68 | 410.07 | 90.625 | 13,383.09 | -11,315.46 | 2,427.42 | 1,611.97 | 815.46 | 2.977 | |
| 23,100.00 | 5,645.37 | 23,552.55 | 5,671.90 | 407.99 | 412.38 | 90.624 | 13,452.70 | -11,387.24 | 2,427.02 | 1,606.94 | 820.08 | 2.959 | |
| 23,200.00 | 5,646.27 | 23,652.54 | 5,672.75 | 410.31 | 414.70 | 90.623 | 13,522.32 | -11,459.03 | 2,426.62 | 1,601.91 | 824.71 | 2.942 | |
| 23,300.00 | 5,647.16 | 23,752.54 | 5,673.59 | 412.62 | 417.01 | 90.622 | 13,591.93 | -11,530.81 | 2,426.22 | 1,596.87 | 829.34 | 2.925 | |
| 23,400.00 | 5,648.05 | 23,852.54 | 5,674.44 | 414.93 | 419.33 | 90.621 | 13,661.54 | -11,602.60 | 2,425.82 | 1,591.84 | 833.97 | 2.909 | |
| 23,500.00 | 5,648.94 | 23,952.54 | 5,675.28 | 417.25 | 421.64 | 90.620 | 13,731.16 | -11,674.38 | 2,425.41 | 1,586.81 | 838.60 | 2.892 | |
| 23,600.00 | 5,649.84 | 24,052.54 | 5,676.13 | 419.56 | 423.96 | 90.619 | 13,800.77 | -11,746.17 | 2,425.01 | 1,581.78 | 843.23 | 2.876 | |
| 23,700.00 | 5,650.73 | 24,152.54 | 5,676.97 | 421.88 | 426.27 | 90.618 | 13,870.38 | -11,817.95 | 2,424.61 | 1,576.75 | 847.86 | 2.860 | |
| 23,800.00 | 5,651.62 | 24,252.54 | 5,677.82 | 424.19 | 428.59 | 90.617 | 13,940.00 | -11,889.74 | 2,424.21 | 1,571.71 | 852.49 | 2.844 | |
| 23,900.00 | 5,652.51 | 24,352.54 | 5,678.66 | 426.50 | 430.91 | 90.616 | 14,009.61 | -11,961.52 | 2,423.81 | 1,566.68 | 857.12 | 2.828 | |
| 24,000.00 | 5,653.41 | 24,452.54 | 5,679.51 | 428.82 | 433.22 | 90.615 | 14,079.22 | -12,033.31 | 2,423.40 | 1,561.65 | 861.75 | 2.812 | |
| 24,100.00 | 5,654.30 | 24,552.54 | 5,680.35 | 431.13 | 435.54 | 90.614 | 14,148.84 | -12,105.09 | 2,423.00 | 1,556.62 | 866.38 | 2.797 | |
| 24,200.00 | 5,655.19 | 24,652.54 | 5,681.20 | 433.45 | 437.85 | 90.613 | 14,218.45 | -12,176.88 | 2,422.60 | 1,551.59 | 871.01 | 2.781 | |
| 24,300.00 | 5,656.08 | 24,752.54 | 5,682.04 | 435.76 | 440.17 | 90.612 | 14,288.06 | -12,248.66 | 2,422.20 | 1,546.55 | 875.64 | 2.766 | |
| 24,400.00 | 5,656.98 | 24,852.54 | 5,682.89 | 438.07 | 442.49 | 90.611 | 14,357.68 | -12,320.45 | 2,421.80 | 1,541.52 | 880.27 | 2.751 | |
| 24,500.00 | 5,657.87 | 24,952.53 | 5,683.73 | 440.39 | 444.80 | 90.610 | 14,427.29 | -12,392.23 | 2,421.39 | 1,536.49 | 884.90 | 2.736 | |
| 24,600.00 | 5,658.76 | 25,052.53 | 5,684.58 | 442.70 | 447.12 | 90.609 | 14,496.90 | -12,464.02 | 2,420.99 | 1,531.46 | 889.53 | 2.722 | |
| 24,700.00 | 5,659.65 | 25,152.53 | 5,685.42 | 445.02 | 449.43 | 90.608 | 14,566.52 | -12,535.80 | 2,420.59 | 1,526.42 | 894.16 | 2.707 | |
| 24,800.00 | 5,660.55 | 25,252.53 | 5,686.27 | 447.33 | 451.75 | 90.607 | 14,636.13 | -12,607.59 | 2,420.19 | 1,521.39 | 898.80 | 2.693 | |
| 24,900.00 | 5,661.44 | 25,352.53 | 5,687.11 | 449.64 | 454.07 | 90.606 | 14,705.74 | -12,679.37 | 2,419.79 | 1,516.36 | 903.43 | 2.678 | |
| 25,000.00 | 5,662.33 | 25,452.53 | 5,687.96 | 451.96 | 456.38 | 90.605 | 14,775.36 | -12,751.16 | 2,419.38 | 1,511.33 | 908.06 | 2.664 | |
| 25,100.00 | 5,663.22 | 25,552.53 | 5,688.80 | 454.27 | 458.70 | 90.604 | 14,844.97 | -12,822.94 | 2,418.98 | 1,506.29 | 912.69 | 2.650 | |
| 25,187.11 | 5,664.00 | 25,639.64 | 5,689.54 | 456.29 | 460.72 | 90.603 | 14,905.61 | -12,885.48 | 2,418.63 | 1,501.91 | 916.72 | 2.638 SF | |

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Escrito A36 2407 #001H - Orig hole - Gyro & MWD surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 101-GYRO-NS, 4887-MWD **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 95.560 | -29.04 | 298.28 | 301.04 | | | | |
| 100.00 | 100.00 | 72.40 | 72.40 | 0.27 | 0.11 | 95.592 | -29.19 | 298.16 | 299.59 | 299.20 | 0.39 | 777.277 | |
| 200.00 | 200.00 | 173.58 | 173.57 | 0.63 | 0.41 | 95.702 | -29.72 | 297.58 | 299.07 | 298.02 | 1.04 | 286.922 | |
| 300.00 | 300.00 | 274.13 | 274.12 | 0.99 | 0.76 | 95.818 | -30.23 | 296.74 | 298.29 | 296.54 | 1.75 | 170.196 | |
| 400.00 | 400.00 | 374.22 | 374.21 | 1.35 | 1.11 | 95.913 | -30.64 | 295.80 | 297.39 | 294.93 | 2.46 | 120.816 | |
| 500.00 | 500.00 | 474.39 | 474.37 | 1.71 | 1.46 | 96.037 | -31.18 | 294.84 | 296.50 | 293.33 | 3.17 | 93.513 | |
| 600.00 | 600.00 | 574.33 | 574.30 | 2.07 | 1.81 | 96.133 | -31.58 | 293.85 | 295.56 | 291.68 | 3.88 | 76.191 | |
| 700.00 | 700.00 | 674.53 | 674.50 | 2.43 | 2.17 | 96.247 | -32.05 | 292.81 | 294.57 | 289.98 | 4.59 | 64.197 | |
| 800.00 | 800.00 | 774.15 | 774.11 | 2.78 | 2.52 | 96.332 | -32.39 | 291.87 | 293.67 | 288.37 | 5.30 | 55.452 | |
| 900.00 | 900.00 | 873.53 | 873.49 | 3.14 | 2.86 | 96.378 | -32.54 | 291.08 | 292.90 | 286.90 | 6.00 | 48.794 | |
| 1,000.00 | 1,000.00 | 973.53 | 973.48 | 3.50 | 3.21 | 96.426 | -32.70 | 290.32 | 292.17 | 285.45 | 6.71 | 43.532 | |
| 1,019.77 | 1,019.77 | 992.50 | 992.46 | 3.57 | 3.28 | -113.134 | -32.74 | 290.21 | 292.10 | 285.25 | 6.85 | 42.670 | |
| 1,100.00 | 1,099.95 | 1,072.61 | 1,072.56 | 3.84 | 3.56 | -113.494 | -33.07 | 289.79 | 292.70 | 285.30 | 7.40 | 39.557 | |
| 1,200.00 | 1,199.63 | 1,172.46 | 1,172.41 | 4.18 | 3.91 | -114.698 | -33.61 | 289.35 | 295.53 | 287.45 | 8.08 | 36.579 | |
| 1,300.00 | 1,298.77 | 1,270.76 | 1,270.71 | 4.52 | 4.26 | -116.636 | -34.32 | 289.01 | 300.92 | 292.16 | 8.76 | 34.335 | |
| 1,400.00 | 1,397.08 | 1,369.72 | 1,369.67 | 4.88 | 4.60 | -119.249 | -35.20 | 288.81 | 309.40 | 299.93 | 9.47 | 32.679 | |
| 1,500.00 | 1,494.33 | 1,468.57 | 1,468.50 | 5.28 | 4.95 | -122.461 | -36.10 | 288.21 | 320.94 | 310.74 | 10.19 | 31.486 | |
| 1,600.00 | 1,591.13 | 1,566.25 | 1,566.18 | 5.70 | 5.29 | -125.882 | -37.07 | 287.41 | 334.41 | 323.49 | 10.92 | 30.610 | |
| 1,700.00 | 1,687.94 | 1,663.00 | 1,662.92 | 6.14 | 5.63 | -129.014 | -38.00 | 286.59 | 348.99 | 337.33 | 11.66 | 29.930 | |
| 1,800.00 | 1,784.74 | 1,760.49 | 1,760.40 | 6.60 | 5.97 | -131.865 | -39.28 | 285.78 | 364.47 | 352.07 | 12.40 | 29.391 | |
| 1,900.00 | 1,881.55 | 1,858.47 | 1,858.36 | 7.08 | 6.32 | -134.440 | -40.95 | 284.98 | 380.69 | 367.54 | 13.14 | 28.963 | |
| 2,000.00 | 1,978.36 | 1,955.95 | 1,955.82 | 7.56 | 6.66 | -136.760 | -42.89 | 284.08 | 397.43 | 383.55 | 13.88 | 28.624 | |
| 2,100.00 | 2,075.16 | 2,053.57 | 2,053.41 | 8.05 | 7.00 | -138.916 | -44.73 | 283.04 | 414.67 | 400.04 | 14.62 | 28.354 | |
| 2,200.00 | 2,171.97 | 2,151.12 | 2,150.95 | 8.55 | 7.34 | -140.928 | -46.36 | 281.95 | 432.47 | 417.11 | 15.36 | 28.151 | |
| 2,300.00 | 2,268.78 | 2,248.28 | 2,248.09 | 9.05 | 7.68 | -142.804 | -47.75 | 280.81 | 450.80 | 434.70 | 16.10 | 28.007 | |
| 2,400.00 | 2,365.58 | 2,346.37 | 2,346.16 | 9.56 | 8.03 | -144.544 | -49.34 | 279.42 | 469.27 | 452.44 | 16.83 | 27.881 | |
| 2,500.00 | 2,462.39 | 2,443.83 | 2,443.59 | 10.08 | 8.37 | -146.142 | -50.92 | 278.02 | 488.12 | 470.56 | 17.56 | 27.794 | |
| 2,600.00 | 2,559.20 | 2,541.43 | 2,541.17 | 10.60 | 8.71 | -147.612 | -52.59 | 276.67 | 507.31 | 489.02 | 18.29 | 27.734 | |
| 2,700.00 | 2,656.00 | 2,638.51 | 2,638.23 | 11.12 | 9.05 | -149.019 | -53.89 | 275.06 | 526.76 | 507.74 | 19.02 | 27.699 | |
| 2,800.00 | 2,752.81 | 2,736.60 | 2,736.29 | 11.64 | 9.39 | -150.388 | -54.82 | 273.19 | 546.50 | 526.75 | 19.74 | 27.678 | |
| 2,900.00 | 2,849.62 | 2,834.63 | 2,834.30 | 12.17 | 9.74 | -151.656 | -55.92 | 271.13 | 566.25 | 545.78 | 20.47 | 27.661 | |
| 3,000.00 | 2,946.42 | 2,932.71 | 2,932.35 | 12.70 | 10.08 | -152.858 | -56.87 | 268.97 | 586.25 | 565.06 | 21.20 | 27.658 | |
| 3,100.00 | 3,043.23 | 3,028.82 | 3,028.43 | 13.23 | 10.42 | -153.936 | -58.00 | 266.96 | 606.46 | 584.55 | 21.91 | 27.678 | |
| 3,200.00 | 3,140.04 | 3,124.89 | 3,124.48 | 13.76 | 10.76 | -154.930 | -59.17 | 265.20 | 627.05 | 604.42 | 22.63 | 27.714 | |
| 3,300.00 | 3,236.84 | 3,221.13 | 3,220.70 | 14.29 | 11.09 | -155.866 | -60.18 | 263.60 | 648.05 | 624.71 | 23.34 | 27.765 | |
| 3,400.00 | 3,333.65 | 3,319.99 | 3,319.54 | 14.82 | 11.44 | -156.763 | -61.25 | 261.99 | 669.21 | 645.14 | 24.07 | 27.804 | |
| 3,500.00 | 3,430.46 | 3,417.52 | 3,417.05 | 15.36 | 11.78 | -157.618 | -62.18 | 260.10 | 690.36 | 665.57 | 24.79 | 27.849 | |
| 3,600.00 | 3,527.26 | 3,516.87 | 3,516.37 | 15.90 | 12.13 | -158.464 | -62.99 | 257.82 | 711.46 | 685.94 | 25.52 | 27.880 | |
| 3,700.00 | 3,624.07 | 3,611.20 | 3,610.67 | 16.43 | 12.46 | -159.202 | -63.96 | 255.79 | 732.68 | 706.46 | 26.22 | 27.942 | |
| 3,800.00 | 3,720.88 | 3,704.84 | 3,704.29 | 16.97 | 12.79 | -159.851 | -65.05 | 254.52 | 754.51 | 727.59 | 26.92 | 28.027 | |
| 3,900.00 | 3,817.68 | 3,800.77 | 3,800.22 | 17.51 | 13.13 | -160.454 | -66.17 | 253.70 | 776.79 | 749.16 | 27.63 | 28.111 | |
| 4,000.00 | 3,914.49 | 3,897.33 | 3,896.77 | 18.05 | 13.47 | -161.023 | -67.34 | 252.92 | 799.16 | 770.81 | 28.35 | 28.189 | |
| 4,100.00 | 4,011.30 | 3,993.15 | 3,992.57 | 18.59 | 13.80 | -161.553 | -68.47 | 252.28 | 821.73 | 792.67 | 29.06 | 28.274 | |
| 4,200.00 | 4,108.10 | 4,092.51 | 4,091.93 | 19.13 | 14.15 | -162.076 | -69.59 | 251.60 | 844.39 | 814.59 | 29.80 | 28.337 | |
| 4,300.00 | 4,204.91 | 4,192.11 | 4,191.52 | 19.67 | 14.50 | -162.591 | -70.77 | 250.48 | 866.75 | 836.22 | 30.53 | 28.386 | |
| 4,400.00 | 4,301.98 | 4,289.63 | 4,289.02 | 20.20 | 14.84 | -163.175 | -71.89 | 249.24 | 888.08 | 856.82 | 31.25 | 28.415 | |
| 4,500.00 | 4,400.10 | 4,387.12 | 4,386.50 | 20.68 | 15.18 | -163.664 | -73.07 | 248.11 | 904.88 | 872.91 | 31.96 | 28.311 | |
| 4,600.00 | 4,499.10 | 4,487.76 | 4,487.12 | 21.11 | 15.54 | -163.995 | -74.47 | 247.09 | 916.70 | 884.03 | 32.68 | 28.052 | |
| 4,700.00 | 4,598.69 | 4,588.64 | 4,587.98 | 21.48 | 15.89 | -164.174 | -76.19 | 246.01 | 923.27 | 889.88 | 33.38 | 27.656 | |
| 4,800.00 | 4,698.62 | 4,684.79 | 4,684.12 | 21.79 | 16.23 | -164.226 | -77.62 | 245.05 | 925.01 | 890.96 | 34.05 | 27.169 | |
| 4,900.00 | 4,798.62 | 4,786.90 | 4,786.21 | 22.04 | 16.59 | 45.357 | -79.11 | 244.29 | 923.55 | 888.83 | 34.72 | 26.600 | |
| 5,000.00 | 4,898.62 | 5,838.20 | 5,459.46 | 22.30 | 22.08 | 2.842 | -55.39 | -379.33 | 894.88 | 860.93 | 33.95 | 26.357 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Escrito A36 2407 #001H - Orig hole - Gyro & MWD surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 101-GYRO-NS, 4887-MWD **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Rule Assigned: Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.00 | 4,998.35 | 5,846.35 | 5,459.44 | 22.55 | 22.21 | 47.705 | -54.99 | -387.48 | 829.25 | 793.21 | 36.04 | 23.010 | |
| 5,200.00 | 5,095.64 | 5,861.57 | 5,459.31 | 22.75 | 22.47 | 53.332 | -54.27 | -402.68 | 761.61 | 723.49 | 38.12 | 19.981 | |
| 5,300.00 | 5,187.53 | 5,885.29 | 5,458.98 | 22.90 | 22.86 | 58.786 | -53.00 | -426.36 | 692.83 | 652.66 | 40.16 | 17.250 | |
| 5,400.00 | 5,271.23 | 5,919.01 | 5,458.24 | 23.00 | 23.44 | 63.646 | -50.94 | -460.01 | 623.76 | 581.57 | 42.19 | 14.785 | |
| 5,500.00 | 5,344.20 | 5,964.74 | 5,456.96 | 23.06 | 24.25 | 67.558 | -47.99 | -505.63 | 554.79 | 510.55 | 44.24 | 12.540 | |
| 5,600.00 | 5,404.22 | 6,012.04 | 5,455.84 | 23.09 | 25.12 | 71.664 | -44.70 | -552.80 | 486.24 | 440.17 | 46.07 | 10.554 | |
| 5,700.00 | 5,449.47 | 6,075.57 | 5,455.64 | 23.11 | 26.33 | 75.007 | -39.73 | -616.13 | 418.14 | 370.07 | 48.07 | 8.698 | |
| 5,800.00 | 5,478.74 | 6,145.28 | 5,455.17 | 23.20 | 27.70 | 79.736 | -35.03 | -685.68 | 349.58 | 299.48 | 50.10 | 6.977 | |
| 5,900.00 | 5,491.52 | 6,214.57 | 5,453.84 | 23.48 | 29.11 | 85.476 | -29.95 | -754.78 | 283.60 | 231.47 | 52.13 | 5.441 | |
| 6,000.00 | 5,492.77 | 6,287.25 | 5,452.62 | 24.13 | 30.63 | 85.728 | -23.33 | -827.14 | 220.60 | 166.19 | 54.41 | 4.054 | |
| 6,100.00 | 5,493.66 | 6,362.90 | 5,453.22 | 25.14 | 32.26 | 84.188 | -14.91 | -902.32 | 159.21 | 102.39 | 56.83 | 2.802 | |
| 6,200.00 | 5,494.56 | 6,441.37 | 5,453.77 | 26.40 | 33.98 | 80.679 | -5.49 | -980.21 | 98.73 | 40.10 | 58.63 | 1.684 | Level 3<2.00 |
| 6,300.00 | 5,495.45 | 6,520.68 | 5,452.45 | 27.83 | 35.74 | 64.319 | 4.90 | -1,058.82 | 40.70 | -3.41 | 44.11 | 0.923 | Level 3<2.00 |
| 6,363.18 | 5,496.01 | 6,571.55 | 5,452.41 | 28.80 | 36.89 | 0.292 | 11.56 | -1,109.25 | 15.11 | -8.67 | 23.78 | 0.635 | Level 3<2.00, CC, SF |
| 6,400.00 | 5,496.34 | 6,600.74 | 5,452.64 | 29.39 | 37.55 | -49.546 | 15.05 | -1,138.24 | 26.95 | -10.24 | 37.19 | 0.725 | Level 3<2.00, ES |
| 6,500.00 | 5,497.23 | 6,678.59 | 5,453.11 | 31.05 | 39.34 | -77.033 | 23.40 | -1,215.64 | 85.51 | 18.21 | 67.30 | 1.271 | Level 3<2.00 |
| 6,600.00 | 5,498.13 | 6,758.43 | 5,452.84 | 32.79 | 41.19 | -82.100 | 31.91 | -1,295.02 | 146.92 | 74.63 | 72.29 | 2.032 | |
| 6,700.00 | 5,499.02 | 6,840.69 | 5,451.24 | 34.61 | 43.11 | -83.715 | 42.14 | -1,376.63 | 207.31 | 131.38 | 75.93 | 2.730 | |
| 6,800.00 | 5,499.91 | 6,916.05 | 5,449.94 | 36.48 | 44.88 | -84.569 | 51.59 | -1,451.38 | 267.67 | 188.59 | 79.08 | 3.385 | |
| 6,900.00 | 5,500.80 | 6,993.40 | 5,449.07 | 38.40 | 46.72 | -85.257 | 60.03 | -1,528.26 | 329.31 | 246.93 | 82.38 | 3.997 | |
| 7,000.00 | 5,501.70 | 7,066.51 | 5,448.44 | 40.36 | 48.47 | -85.753 | 67.36 | -1,600.99 | 391.66 | 306.19 | 85.47 | 4.583 | |
| 7,100.00 | 5,502.59 | 7,138.72 | 5,448.14 | 42.36 | 50.20 | -86.175 | 73.79 | -1,672.92 | 454.89 | 366.36 | 88.53 | 5.138 | |
| 7,200.00 | 5,503.48 | 7,214.72 | 5,447.40 | 44.39 | 52.03 | -86.463 | 79.48 | -1,748.69 | 519.23 | 427.37 | 91.85 | 5.653 | |
| 7,300.00 | 5,504.37 | 7,289.31 | 5,445.99 | 46.44 | 53.84 | -86.593 | 85.72 | -1,823.01 | 582.94 | 487.83 | 95.11 | 6.129 | |
| 7,400.00 | 5,505.27 | 7,355.73 | 5,445.69 | 48.52 | 55.45 | -86.806 | 90.20 | -1,889.28 | 647.84 | 549.91 | 97.93 | 6.615 | |
| 7,500.00 | 5,506.16 | 7,446.22 | 5,444.69 | 50.62 | 57.66 | -86.979 | 96.37 | -1,979.55 | 712.76 | 610.59 | 102.16 | 6.977 | |
| 7,600.00 | 5,507.05 | 7,527.58 | 5,443.51 | 52.74 | 59.65 | -87.072 | 103.49 | -2,060.58 | 776.14 | 670.27 | 105.87 | 7.331 | |
| 7,700.00 | 5,507.94 | 7,598.63 | 5,443.61 | 54.87 | 61.39 | -87.243 | 109.31 | -2,131.40 | 839.93 | 730.89 | 109.03 | 7.703 | |
| 7,800.00 | 5,508.84 | 7,658.20 | 5,443.53 | 57.02 | 62.86 | -87.357 | 113.64 | -2,190.81 | 904.48 | 792.92 | 111.56 | 8.108 | |
| 7,900.00 | 5,509.73 | 7,714.68 | 5,443.75 | 59.18 | 64.25 | -87.483 | 116.33 | -2,247.23 | 970.83 | 856.92 | 113.91 | 8.523 | |
| 8,000.00 | 5,510.62 | 7,788.47 | 5,443.85 | 61.35 | 66.06 | -87.615 | 119.07 | -2,320.96 | 1,038.01 | 920.74 | 117.27 | 8.851 | |
| 8,100.00 | 5,511.51 | 7,878.39 | 5,442.41 | 63.53 | 68.28 | -87.647 | 123.34 | -2,410.76 | 1,104.47 | 982.90 | 121.57 | 9.085 | |
| 8,200.00 | 5,512.41 | 7,931.91 | 5,441.51 | 65.72 | 69.60 | -87.660 | 125.78 | -2,464.22 | 1,171.08 | 1,047.28 | 123.80 | 9.460 | |
| 8,300.00 | 5,513.30 | 7,998.01 | 5,441.13 | 67.92 | 71.24 | -87.724 | 127.85 | -2,530.29 | 1,238.70 | 1,111.95 | 126.76 | 9.772 | |
| 8,400.00 | 5,514.19 | 8,110.20 | 5,439.91 | 70.13 | 74.02 | -87.782 | 132.89 | -2,642.35 | 1,305.32 | 1,172.99 | 132.33 | 9.864 | |
| 8,500.00 | 5,515.08 | 8,190.23 | 5,439.18 | 72.34 | 76.02 | -87.824 | 137.89 | -2,722.22 | 1,370.63 | 1,234.54 | 136.08 | 10.072 | |
| 8,600.00 | 5,515.97 | 8,266.37 | 5,438.98 | 74.56 | 77.91 | -87.885 | 142.61 | -2,798.21 | 1,435.96 | 1,296.33 | 139.63 | 10.284 | |
| 8,700.00 | 5,516.87 | 8,355.16 | 5,438.26 | 76.79 | 80.13 | -87.926 | 148.60 | -2,886.80 | 1,500.89 | 1,357.02 | 143.87 | 10.432 | |
| 8,800.00 | 5,517.76 | 8,437.68 | 5,436.88 | 79.02 | 82.19 | -87.925 | 154.71 | -2,969.08 | 1,565.34 | 1,417.57 | 147.77 | 10.593 | |
| 8,900.00 | 5,518.65 | 8,513.00 | 5,435.66 | 81.25 | 84.08 | -87.926 | 160.48 | -3,044.17 | 1,629.60 | 1,478.31 | 151.29 | 10.771 | |
| 9,000.00 | 5,519.54 | 8,577.00 | 5,435.10 | 83.49 | 85.68 | -87.948 | 165.11 | -3,108.00 | 1,694.17 | 1,539.95 | 154.23 | 10.985 | |
| 9,100.00 | 5,520.44 | 8,653.43 | 5,434.66 | 85.74 | 87.60 | -87.983 | 170.18 | -3,184.25 | 1,759.19 | 1,601.36 | 157.82 | 11.147 | |
| 9,200.00 | 5,521.33 | 8,764.96 | 5,431.74 | 87.99 | 90.40 | -87.936 | 178.79 | -3,295.41 | 1,823.44 | 1,660.19 | 163.25 | 11.170 | |
| 9,300.00 | 5,522.22 | 8,898.54 | 5,428.69 | 90.24 | 93.76 | -87.898 | 192.67 | -3,428.22 | 1,885.50 | 1,715.78 | 169.72 | 11.110 | |
| 9,400.00 | 5,523.11 | 8,957.00 | 5,428.52 | 92.49 | 95.23 | -87.926 | 198.94 | -3,486.35 | 1,947.24 | 1,774.80 | 172.45 | 11.292 | |
| 9,500.00 | 5,524.01 | 9,012.36 | 5,428.63 | 94.75 | 96.63 | -87.961 | 204.33 | -3,541.44 | 2,009.79 | 1,834.79 | 175.00 | 11.484 | |
| 9,600.00 | 5,524.90 | 9,106.46 | 5,427.12 | 97.01 | 99.00 | -87.959 | 213.73 | -3,635.06 | 2,072.21 | 1,892.70 | 179.51 | 11.544 | |
| 9,700.00 | 5,525.79 | 9,171.47 | 5,425.40 | 99.27 | 100.64 | -87.934 | 220.20 | -3,699.72 | 2,134.70 | 1,952.15 | 182.55 | 11.693 | |
| 9,800.00 | 5,526.68 | 9,245.68 | 5,424.74 | 101.54 | 102.51 | -87.951 | 227.21 | -3,773.59 | 2,197.56 | 2,011.49 | 186.07 | 11.811 | |
| 9,900.00 | 5,527.58 | 9,309.04 | 5,425.08 | 103.80 | 104.11 | -87.994 | 233.09 | -3,836.68 | 2,260.53 | 2,071.50 | 189.03 | 11.958 | |
| 10,000.00 | 5,528.47 | 9,358.72 | 5,425.79 | 106.07 | 105.37 | -88.042 | 237.15 | -3,886.18 | 2,324.32 | 2,133.04 | 191.28 | 12.151 | |
| 10,100.00 | 5,529.36 | 9,402.00 | 5,426.47 | 108.35 | 106.46 | -88.084 | 240.16 | -3,929.36 | 2,389.07 | 2,195.90 | 193.17 | 12.367 | |

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

ENDURING RESOURCES, LLC

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Sec 36 T24N R07W Bobby B 27-29,37-39 - Escrito A36 2407 #001H - Orig hole - Gyro & MWD surveys

**Offset Site Error:** 0.00 ft

**Survey Program:** 101-GYRO-NS, 4887-MWD

**Offset Well Error:** 0.00 ft

**Rule Assigned:**

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,200.00 | 5,530.25 | 9,443.04 | 5,426.89 | 110.62 | 107.49 | -88.117 | 242.45 | -3,970.33 | 2,454.89 | 2,259.98 | 194.92 | 12.595 | |
| 10,300.00 | 5,531.15 | 9,506.18 | 5,426.56 | 112.89 | 109.09 | -88.137 | 245.11 | -4,033.41 | 2,521.68 | 2,323.84 | 197.84 | 12.746 | |
| 10,400.00 | 5,532.04 | 9,661.21 | 5,422.83 | 115.17 | 113.00 | -88.094 | 254.18 | -4,188.12 | 2,587.42 | 2,381.76 | 205.66 | 12.581 | |
| 10,500.00 | 5,532.93 | 9,738.77 | 5,420.22 | 117.45 | 114.96 | -88.052 | 260.03 | -4,265.41 | 2,651.80 | 2,442.44 | 209.36 | 12.666 | |
| 10,600.00 | 5,533.82 | 9,745.00 | 5,420.00 | 119.73 | 115.12 | -88.049 | 260.51 | -4,271.63 | 2,717.07 | 2,507.77 | 209.30 | 12.982 | |

ENDURING RESOURCES, LLC

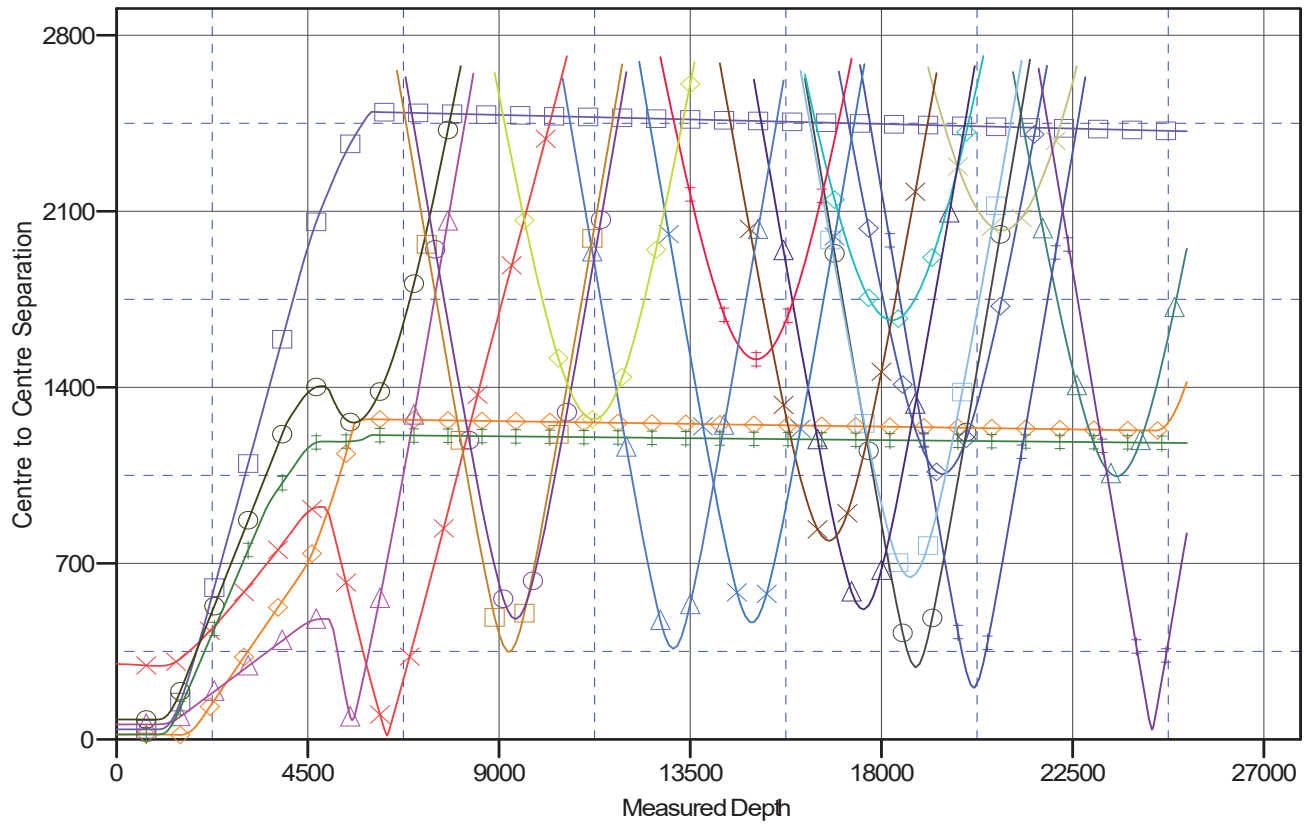
# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB=6715+23.5 @ 6738.50ft
Offset Depths are relative to Offset Datum
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B unit 028H
Coordinate System is US State Plane 1983, New Mexico Central Zone
Grid Convergence at Surface is: -0.752°

## Ladder Plot




LEGEND

BobbyBunit027H,Orig hole,rev0 V0
EscritoA362407 #001H,Orig hole,Gyro &MWDsurveysV0
BobbyBunit037H,Orig hole,rev0 V0
BobbyBunit029H,Orig hole,rev0 V0
BobbyBunit039H,Orig hole,rev0 V0
BobbyBunit038H,Orig hole,rev0 V0
Lybrook004,Orig hole,No surveysV0
Federal6-22 001,Orighole,No surveysV0
Stephenson 001,Orig hde,No surveysV0
Pre ongard 002 (Lybrook2-22),Orig hole,No surveysV0
Lybrook006,Orig hole,No surveysV0
Lybrook002R,Orig hole,Inconlysurveys V0
Pre ongard 006 (Blakely23),Orig hole,No surveysV0
Pre ongard 002 (Love23,Orig hole,No surveysV0
Pre ongard 003 (Kenney23),Orig hole,No surveysV0
Byrd 005,Orig hole,No surveysV0
Federal2-26 #001,Orighole,No surveysV0
Federal4-26 #001,Orighole,No surveysV0
Mesa 25003R,Orig hole,Inconlysurveys V0
Pre ongard 003 (Mesa A3,Orig hole,Inconlysurveys V0
Mesa 25007,Orig hole,Inconlysurveys V0
Brian Nelsen 001,Orig hole,No surveysV0

ENDURING RESOURCES, LLC

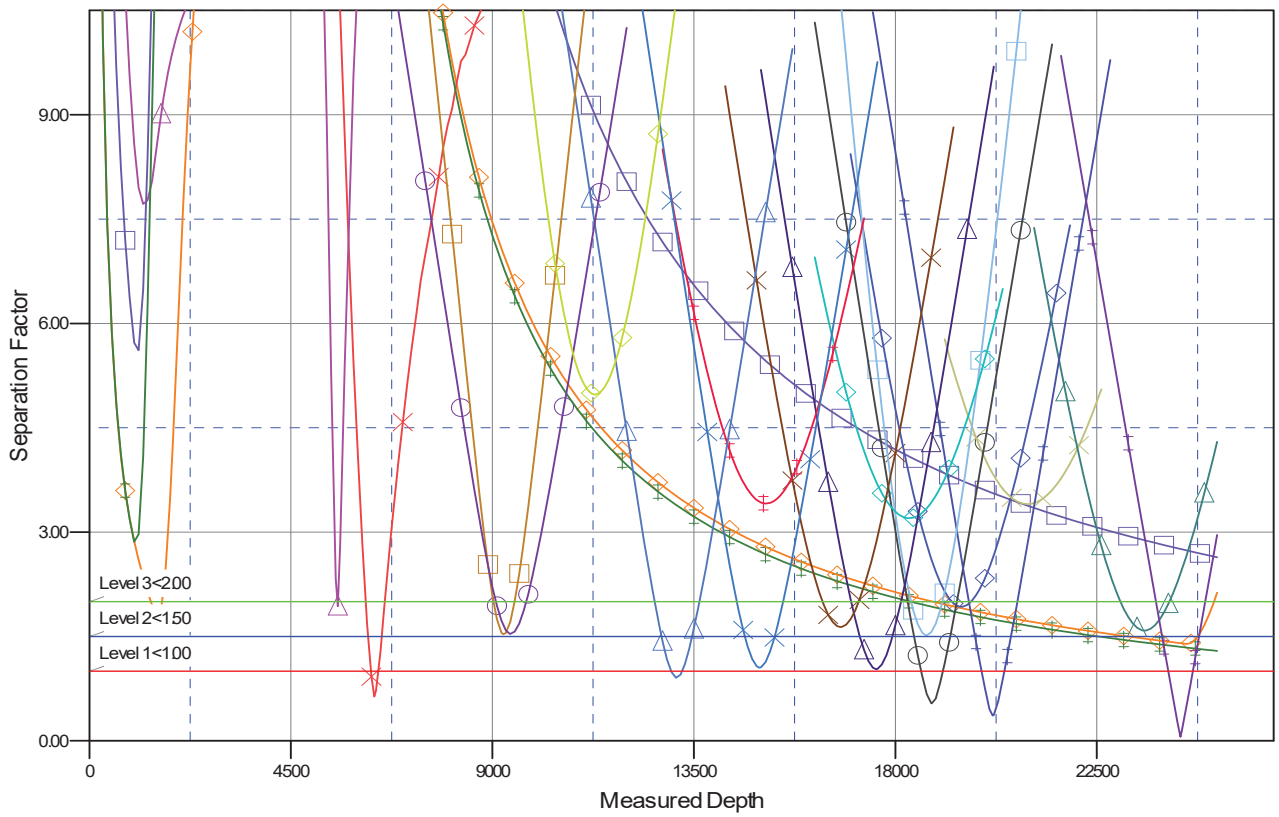
# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Bobby B unit 028H |
| **Project:** | Rio Arriba County, New Mexico NAD83 NM C | **TVD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Reference Site:** | Sec 36 T24N R07W Bobby B 27-29,37-39 | **MD Reference:** | RKB=6715+23.5 @ 6738.50ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Bobby B unit 028H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Orig hole | **Database:** | DT-Oct0825v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB=6715+23.5 @ 6738.50ft
Offset Depths are relative to Offset Datum
Central Meridian is -106.25000000

Coordinates are relative to: Bobby B unit 028H
Coordinate System is US State Plane 1983, New Mexico Central Zone
Grid Convergence at Surface is: -0.752°

## Separation Factor Plot




LEGEND

BobbyBunit027H,Orig hole,rev0 V0
EscritoA36 2407 #001H,Orig hole,Gyro &MWDsurveysV0
BobbyBunit037H,Orig hole,rev0 V0
BobbyBunit029H,Orig hole,rev0 V0
BobbyBunit039H,Orig hole,rev0 V0
BobbyBunit038H,Orig hole,rev0 V0
Lybrook004,Orig hole,No surveysV0
Federal5-22 001,Orig hole,No surveysV0
Stephenson 001,Orig hde,No surveysV0
Pre ongard 002 (Lybrook2-22),Orig hole,No surveysV0
Lybrook006,Orig hole,No surveysV0
Lybrook002R,Orig hole,Inconlysurveys V0
Pre ongard 006 (Blakely23),Orig hole,No surveysV0
Pre ongard 002 (Love 23),Orig hole,No surveysV0
Pre ongard 003 (Kenney23),Orig hole,No surveysV0
Byrd 005,Orig hole,No surveysV0
Federal2-26 #001,Orig hole,No surveysV0
Federal4-26 #001,Orig hole,No surveysV0
Mesa 25003R,Orig hole,Inconlysurveys V0
Pre ongard 003 (Mesa A3),Orig hole,Inconlysurveys V0
Mesa 25007,Orig hole,Inconlysurveys V0
Brian Nelsen 001,Orig hole,No surveysV0

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

# United States Department of the Interior

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

In Reply Refer To:
3162.3-1(NMF0110)

ENDURING RESOURCES LLC
#028H BOBBY B UNIT
APD ID: 10400112909

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

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

A. ☒ Note all surface/drilling conditions of approval attached.

B. ☒ The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated

C. ☒ Test all casing strings below the conductor casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield (burst) for a minimum of 30 minutes. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

D. ☐ Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, New Mexico State Office, Reservoir Management Group, 301 Dinosaur Trail, Santa Fe, New Mexico 87508.
The effective date of the agreement must be **prior** to any sales.

E. ☐ The use of co-flex hose is authorized contingent upon the following:
**1.** From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
**2.** From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
**3**. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

## 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 5th 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.





**Approval Date: 10/06/2026**

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

| | |
|---|---|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way<br>Centennial, CO 80111 | OGRID:<br>372286 |
| | Action Number:<br>634041 |
| | Action Type:<br>[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

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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

| | |
|---|---|
| Operator:<br>ENDURING RESOURCES, LLC<br>6300 S Syracuse Way<br>Centennial, CO 80111 | OGRID:<br>372286 |
| | Action Number:<br>634041 |
| | Action Type:<br>[C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| sford | Cement is required to circulate on both surface and intermediate1 strings of casing. | 10/19/2026 |
| sford | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 10/19/2026 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 10/23/2026 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 10/23/2026 |
| 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. | 10/23/2026 |
| 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. | 10/23/2026 |
| ward.rikala | If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations. | 10/23/2026 |
| ward.rikala | A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud. | 10/23/2026 |