

Form 3160-3  
(October 2024)FORM APPROVED  
OMB No. 1004-0137  
Expires: October 31, 2027

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work:	<input type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well:	<input type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	8. Lease Name and Well No.
1c. Type of Completion:	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Single Zone	<input type="checkbox"/> Multiple Zone
2. Name of Operator			9. API Well No. <b>30-045-38515</b>
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. *)			11. Sec., T. R. M. or Blk. and Survey or Area
At surface			
At proposed prod. zone			
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	
24. Attachments			

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

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

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

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

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

**APPROVED WITH CONDITIONS**

(Continued on page 2)

\*(Instructions on page 2)

## Additional Operator Remarks

### Location of Well

0. SHL: NENW / 1181 FNL / 2411 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.201903 / LONG: -107.77692 ( TVD: 0 feet, MD: 0 feet )  
PPP: NENW / 1142 FNL / 2449 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.202009 / LONG: -107.776787 ( TVD: 4407 feet, MD: 4528 feet )  
PPP: SWNE / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.2018 / LONG: -107.77605 ( TVD: 4507 feet, MD: 13899 feet )  
PPP: NWSE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.19792 / LONG: -107.77198 ( TVD: 4507 feet, MD: 13899 feet )  
PPP: NENW / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 9W / SECTION: 35 / LAT: 36.19065 / LONG: -107.76301 ( TVD: 4507 feet, MD: 13899 feet )  
PPP: SWSW / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 26 / LAT: 36.19451 / LONG: -107.7672 ( TVD: 4507 feet, MD: 13899 feet )  
BHL: SWNE / 2406 FNL / 1610 FEL / TWSP: 23N / RANGE: 9W / SECTION: 35 / LAT: 36.184058 / LONG: -107.754897 ( TVD: 4507 feet, MD: 13899 feet )

### BLM Point of Contact

Name: CHRISTOPHER P WENMAN  
Title: Natural Resource Specialist  
Phone: (505) 564-7727  
Email: cwenman@blm.gov

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

## WELL LOCATION INFORMATION

API Number <b>30-045-38515</b>	Pool Code 98157	Pool Name LYBROOK MANCOS W
Property Code 332891	Property Name GREATER LYBROOK UNIT	Well Number 044H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6640'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal	

## Surface Location

UL C 27	Section 23N	Township Range 9W	Lot	Feet from N/S Line 1181' NORTH	Feet from E/W Line 2411' WEST	Latitude 36.201903 °N	Longitude -107.776920 °W	County SAN JUAN
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## Bottom Hole Location

UL G 35	Section 23N	Township Range 9W	Lot	Feet from N/S Line 2406' NORTH	Feet from E/W Line 1610' EAST	Latitude 36.184058 °N	Longitude -107.754897 °W	County SAN JUAN
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Dedicated Acres 640.00	Penetrated Spacing Unit W/2 SW/4, SE/4 SW/4 - Section 26 E/2 NW/4, W/2 NE/4, SE/4 NE/4 N/2 SE/4, SE/4 SE/4 - Section 27 N/2 NW/4, SE/4 NW/4, W/2 NE/4 - Section 35	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit	Consolidation Code <b>UNIT</b>
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		Order Numbers R-22081		Well setbacks are under Common Ownership	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

## Kick Off Point (KOP)

UL C 27	Section 23N	Township Range 9W	Lot	Feet from N/S Line 1181' NORTH	Feet from E/W Line 2411' WEST	Latitude 36.201903 °N	Longitude -107.776920 °W	County SAN JUAN
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## First Take Point (FTP)

UL C 27	Section 23N	Township Range 9W	Lot	Feet from N/S Line 1142' NORTH	Feet from E/W Line 2449' WEST	Latitude 36.202009 °N	Longitude -107.776787 °W	County SAN JUAN
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## Last Take Point (LTP)

UL G 35	Section 23N	Township Range 9W	Lot	Feet from N/S Line 2406' NORTH	Feet from E/W Line 1610' EAST	Latitude 36.184058 °N	Longitude -107.754897 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest GREATER LYBROOK UNIT	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Directional	Ground Floor Elevation
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## OPERATOR CERTIFICATION

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

*Shaw-Marie Ford*  
Signature

10/29/2025  
Date

Shaw-Marie Ford  
Printed Name

sford@enduringresources.com  
E-mail Address

## SURVEYOR CERTIFICATION

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



**JASON C. EDWARDS**

Signature and Seal of Professional Surveyor

Certificate Number 15269 Date of Survey DECEMBER 20, 2023

SURFACE LOCATION (SHL)  
1181' FNL 2411' FWL  
SECTION 27, T23N, R9W  
LAT 36.201903 °N  
LONG -107.776920 °W  
DATUM: NAD1983

KICK OFF POINT (KOP)  
1181' FNL 2411' FWL  
SECTION 27, T23N, R9W  
LAT 36.201903 °N  
LONG -107.776920 °W  
DATUM: NAD1983

FIRST TAKE POINT (FTP)  
1142' FNL 2449' FWL  
SECTION 27, T23N, R9W  
LAT 36.202009 °N  
LONG -107.776787 °W  
DATUM: NAD1983

LAST TAKE POINT (LTP)  
2406' FNL 1610' FEL  
SECTION 35, T23N, R9W  
LAT 36.184058 °N  
LONG -107.754897 °W  
DATUM: NAD1983

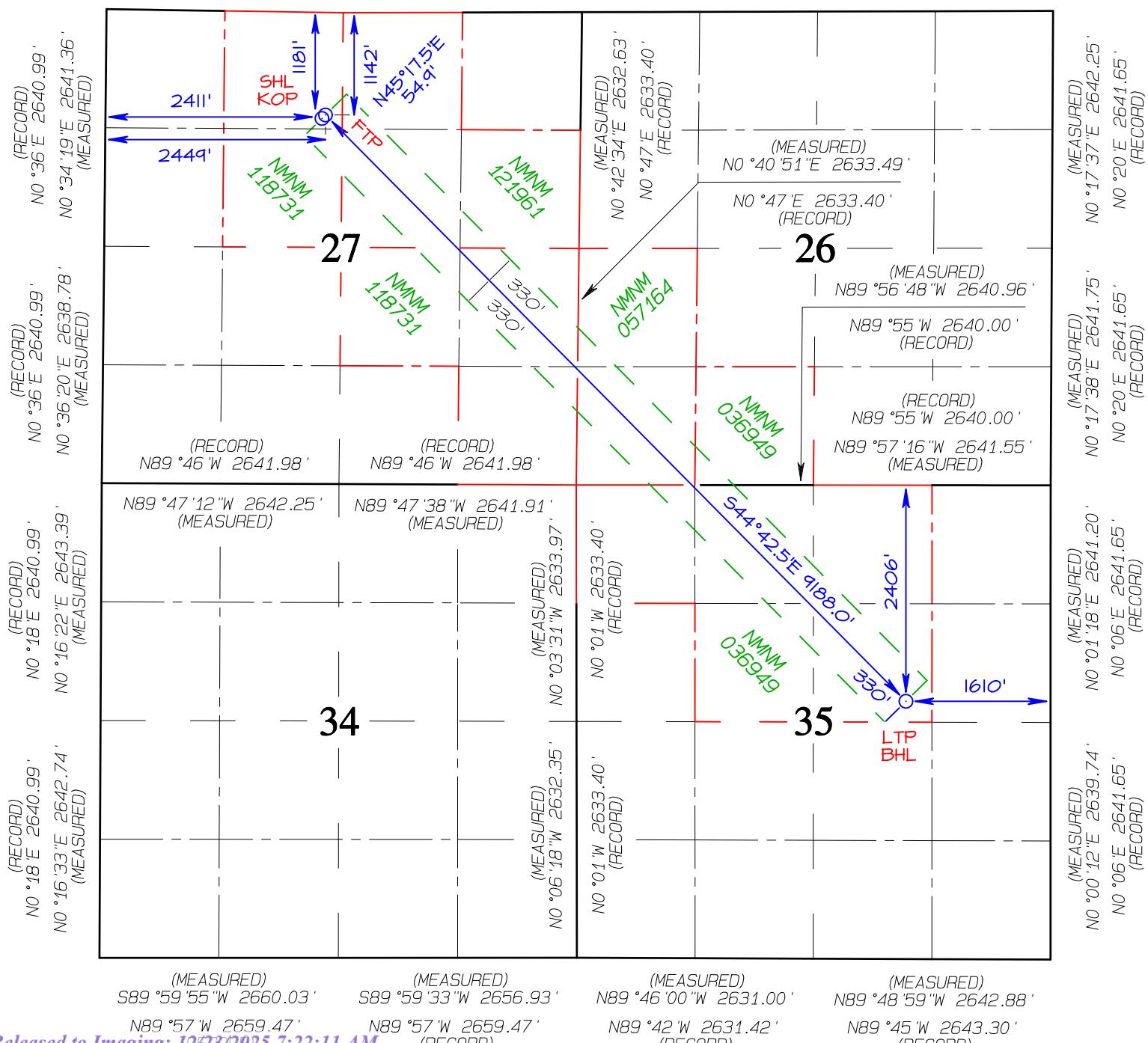
BOTTOM HOLE LOCATION (BHL)  
2406' FNL 1610' FEL  
SECTION 35, T23N, R9W  
LAT 36.184058 °N  
LONG -107.754897 °W  
DATUM: NAD1983

(RECORD)  
N89 °06' W 2636.04'  
N89 °07' 58" W 2635.41'  
(MEASURED)

(RECORD)  
S89 °56' W 2657.16'  
S89 °51' 43" W 2658.67'  
(MEASURED)

(RECORD)  
S89 °54' W 2623.17'  
S89 °51' 35" W 2623.23'  
(MEASURED)

(RECORD)  
S89 °54' W 2623.17'  
S89 °50' 32" W 2622.50'  
(MEASURED)



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:** 10 / 02 / 2024

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

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

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Greater Lybrook Unit 043H	TBD	C-27-23N-9W	1201 FNL x 2411 FWL	210	210	84
Greater Lybrook Unit 044H	TBD	C-27-23N-9W	1181 FNL x 2411 FWL	391	782	156
Greater Lybrook Unit 045H	TBD	C-27-23N-9W	1161 FNL x 2411 FWL	189	189	76
Greater Lybrook Unit 046H	TBD	C-27-23N-9W	1141 FNL x 2411 FWL	340	680	136
Greater Lybrook Unit 047H	TBD	C-27-23N-9W	1121 FNL x 2411 FWL	158	158	63
				3-year Decline	3-year Decline	3-year Decline
Greater Lybrook Unit 043H	TBD	C-27-23N-9W	1201 FNL x 2411 FWL	80	80	32
Greater Lybrook Unit 044H	TBD	C-27-23N-9W	1181 FNL x 2411 FWL	88	177	35
Greater Lybrook Unit 045H	TBD	C-27-23N-9W	1161 FNL x 2411 FWL	72	72	29
Greater Lybrook Unit 046H	TBD	C-27-23N-9W	1141 FNL x 2411 FWL	77	154	31
Greater Lybrook Unit 047H	TBD	C-27-23N-9W	1121 FNL x 2411 FWL	60	60	24

**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
Greater Lybrook Unit 043H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 044H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 045H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 046H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 047H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025

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

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

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

## **Section 2 – Enhanced Plan**

**EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

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

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

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

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

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

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

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

## Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

## Section 4 - Notices

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

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

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

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

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

Signature: *Shaw-Marie Ford*

Printed Name: Shaw-Marie Ford

Title: Regulatory Specialist

E-mail Address: sford@enduringresources.com

Date: 10/02/2024

Phone: 505-716-3297

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

Approved By:

Title:

Approval Date:

Conditions of Approval:



Enduring Resources, LLC.

NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN

Greater Lybrook Unit 043H, 044H, 045H, 046H, 047H

## SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



Enduring Resources, LLC.

NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Greater Lybrook Unit 043H, 044H, 045H, 046H, 047H

## VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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



Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Greater Lybrook Unit 043H, 044H, 045H, 046H, 047H

## OPERATIONAL PRACTICES

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

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

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

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

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

During Completion Operations, Enduring utilizes the following:

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



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

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

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

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

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



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

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

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



Enduring Resources, LLC.

NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Greater Lybrook Unit 043H, 044H, 045H, 046H, 047H

## **BEST MANAGEMENT PRACTICES**

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

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

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

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

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

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

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

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



**ENDURING RESOURCES IV, LLC**  
**6300 S SYRACUSE WAY, SUITE 525**  
**CENTENNIAL, COLORADO 80211**

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

**WELL INFORMATION:**

**Name:** Greater Lybrook Unit 044H

**API Number:** 30-045-unassigned

**AFE Number:** Not yet assigned

**ER Well Number:** Not yet assigned

**State:** New Mexico

**County:** San Juan

**Surface Elevation:** 6,640 ft ASL (GL) 6,664 ft ASL (KB)

**Surface Location:** 27-23-9 Sec-Twn-Rng 1,181 ft FNL 2,411 ft FWL

36.201903 ° N latitude 107.77692 ° W longitude (NAD 83)

**BH Location:** 35-23-9 Sec-Twn-Rng 2,406 ft FNL 1,610 ft FEL

36.184058 ° N latitude 107.754897 ° W longitude (NAD 83)

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

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to hard right, Right (Southwest) on CR #7890 for 0.6 miles to 4-way, Right (West) exiting CR #7890 onto access road for 0.6 miles to fork, Left (West) onto access road for 0.7 miles to fork, Left (West) which is straight for 1.4 miles to fork. Left (Southeast) for 0.6 miles to W Lybrook Unit 730H Pad (existing wells: GLU 863H, 763H, 830H, 730H, 861H). New wells from South to North: GLU 043H, 044H, 045H, 046H, 047H.

**GEOLOGIC AND RESERVOIR INFORMATION:**

<b>Prognosis:</b>	<b>Formation Tops</b>	<b>TVD (ft ASL)</b>	<b>TVD (ft KB)</b>	<b>MD (ft KB)</b>	<b>O / G / W</b>	<b>Pressure</b>
	Ojo Alamo	6,490	174	174	W	normal
	Kirtland	6,375	289	289	W	normal
	Fruitland	6,165	499	499	G, W	sub
	Pictured Cliffs	5,770	894	894	G, W	sub
	Lewis	5,610	1,054	1,054	G, W	normal
	Chacra	5,405	1,259	1,260	G, W	normal
	Cliff House	4,389	2,275	2,294	G, W	sub
	Menefee	4,377	2,287	2,306	G, W	normal
	Point Lookout	3,388	3,276	3,313	G, W	normal
	Mancos	3,219	3,445	3,482	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,888	3,776	3,813	O,G	sub (~0.38)
	MNCS_B	2,788	3,876	3,913	O,G	sub (~0.38)
	MNCS_C	2,701	3,963	4,000	O,G	sub (~0.38)
	MNCS_Cms	2,658	4,006	4,044	O,G	sub (~0.38)
	MNCS_D	2,525	4,139	4,181	O,G	sub (~0.38)
	MNCS_E	2,381	4,283	4,347	O,G	sub (~0.38)
	MNCS_F	2,328	4,336	4,417	O,G	sub (~0.38)
	MNCS_G	2,257	4,407	4,528	O,G	sub (~0.38)
	MNCS_H	2,217	4,447	4,608	O,G	sub (~0.38)

MNCS_I	2,171	4,493	4,745	O,G	sub (~0.38)
<b>FTP TARGET</b>	<b>2,257</b>	<b>4,407</b>	<b>4,528</b>	<b>O,G</b>	<b>sub (~0.38)</b>
<b>PROJECTED TD</b>	<b>2,157</b>	<b>4,507</b>	<b>13,899</b>	<b>O,G</b>	<b>sub (~0.38)</b>

**Surface:** Nacimiento

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

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

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

**Maximum anticipated BH pressure, assuming maximum pressure gradient:** 1,940 psi

**Maximum anticipated surface pressure, assuming partially evacuated hole:** 950 psi

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

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

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

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

## LOGGING, CORING, AND TESTING:

**Mud Logs:** None planned; remote geo-steering from drill out of 7" casing to TD; gas detection from drillout of 9-5/8" casing to TD.

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

**Open Hole Logs:** None planned

**Testing:** None planned

**Coring:** None planned

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

## DRILLING RIG INFORMATION:

**Contractor:** Ensign

**Rig No.:** 140

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

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

**Top Drive:** Tesco 400-EXI-600 (400 ton)

**Prime Movers:** 3 - CAT 3512C (1,350 hp)

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

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

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

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

**KB-GL (ft):** 23.5

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

## BOPE REQUIREMENTS:

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

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 3) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

- 4) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 6) Manual locking devices (hand wheels) shall be installed on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

## FLUIDS AND SOLIDS CONTROL PROGRAM:

### Fluid Measurement:

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

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

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

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

**Fluid Program:** See "Detailed Drilling Plan" section 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	K-55	STC	2,020	3,520	564,000
Loading					153	966	110,988

Min. S.F.	13.21	3.64	5.08	3.81
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**Assumptions:** Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient  
 Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient  
 Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

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

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	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	4,821 ft (MD)	Hole Section Length: 4,471 ft
350 ft (TVD)	to	4,504 ft (TVD)	Casing Required: 4,821 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	12-Jun	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	K-55	4,320	4,980	415,000	367,000
Loading				1,967	1,208	209,308	209,308
Min. S.F.				2.20	4.12	1.98	1.75

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

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

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

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

**Centralizers:** 1 per joint in non-vertical hole; 1 per 2-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)
Lead	III:POZ Blend	12.5	2.150	12.06	80%	0	409	879
Tail	Type III	13.5	1.710	8.88	30%	3,382	170	291

Annular Capacity	0.16681 cuft/ft	7" casing x 9-5/8" casing annulus	Shoe Track L	44
	0.1503 cuft/ft	9-5/8" casing x 12-1/4" hole annulus	Casing ID	6.276
	0.2148 cuft/ft	7" casing casing volume		

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

Drake Intermediate Cementing Program

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

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

4,821	ft (MD)	to	13,899	ft (MD)	Hole Section Length:		9,078 ft
4,504	ft (TVD)	to	4,507	ft (TVD)	Casing Required:		9,228 ft
<i>Estimated KOP:</i>		3,971	ft (MD)	3,944	ft (TVD)		
<i>Estimated Liner Top:</i>		4,671	ft (MD)	4,472	ft (TVD)		
<i>Estimated Landing Point (FTP):</i>		4,528	ft (MD)	4,407	ft (TVD)		
<i>Estimated Lateral Length:</i>		9,371	ft (MD)				

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

**Hole Size:** 6.125**Bit / Motor:** 6-1/8" PDC bit w/mud motor**MWD / Survey:** MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100' minimum before KOP and after Landing Point)**Logging:** GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs**Pressure Test:** NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

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					2,226	8,758	239,125	239,125
Min. S.F.					<b>3.40</b>	<b>1.22</b>	<b>1.53</b>	<b>1.61</b>

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

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

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull. Tension calculations assume vertical hole to approximate drag in lateral.

**MU Torque (ft lbs):** Minimum: 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	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu)
Spacer	IntegraGuard Star	11		31.6		0	20 bbls	
Tail	G:POZ blend	13.3	1.520	7.54	30%	4,671	775	1,179
Displacement		190	est bbls					

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

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

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

0.0102 bbls/ft 4" DP capacity

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

American Cementing Liner &amp; Production Blend

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

Notify NMOCD &amp; 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

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

**COMPLETION AND PRODUCTION PLAN:**

***Est Lateral Length:*** 9,271

***Est Frac Inform:*** 39 Frac Stages 149,000 bbls slick water 12,060,000 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:*** 5/16/2024

***Completion:*** 7/15/2024

***Production:*** 8/29/2024

***Prepared by:*** Greg Olson 1/25/2024

***Updated:*** Greg Olson 4/11/2024

Greg Olson 9/9/2024

**WELL NAME: Greater Lybrook Unit 044H****OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation****API Number: 30-045-unassigned****AFE Number: Not yet assigned****ER Well Number: Not yet assigned****State: New Mexico****County: San Juan**

Surface Elev.:	6,640	ft ASL (GL)	6,664	ft ASL (KB)		
Surface Location:	27-23-9	Sec-Twn- Rng	1,181	ft FNL	2,411	ft FWL
BH Location:	35-23-9	Sec-Twn- Rng	2406	ft FNL	1610	ft FEL

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

South on US Hwy 550 for 38.3 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Left (South) remaining on CR #7890 for 1.3 miles to 4-way intersection, Left (Southeast) remaining on CR #7890 for 0.6 miles to hard right, Right (Southwest) on CR #7890 for 0.6 miles to 4-way, Right (West) exiting CR #7890 onto access road for 0.6 miles to fork, Left (West) onto access road for 0.7 miles to fork, Left (West) which is straight for 1.4 miles to fork. Left (Southwest) for 0.6 miles to W Lybrook Unit 730H Pad (existing wells: GLU 863H, 763H, 830H, 730H, 861H). New wells from South to North: GLU 043H, 044H, 045H, 046H, 047H.

**WELL CONSTRUCTION SUMMARY:**

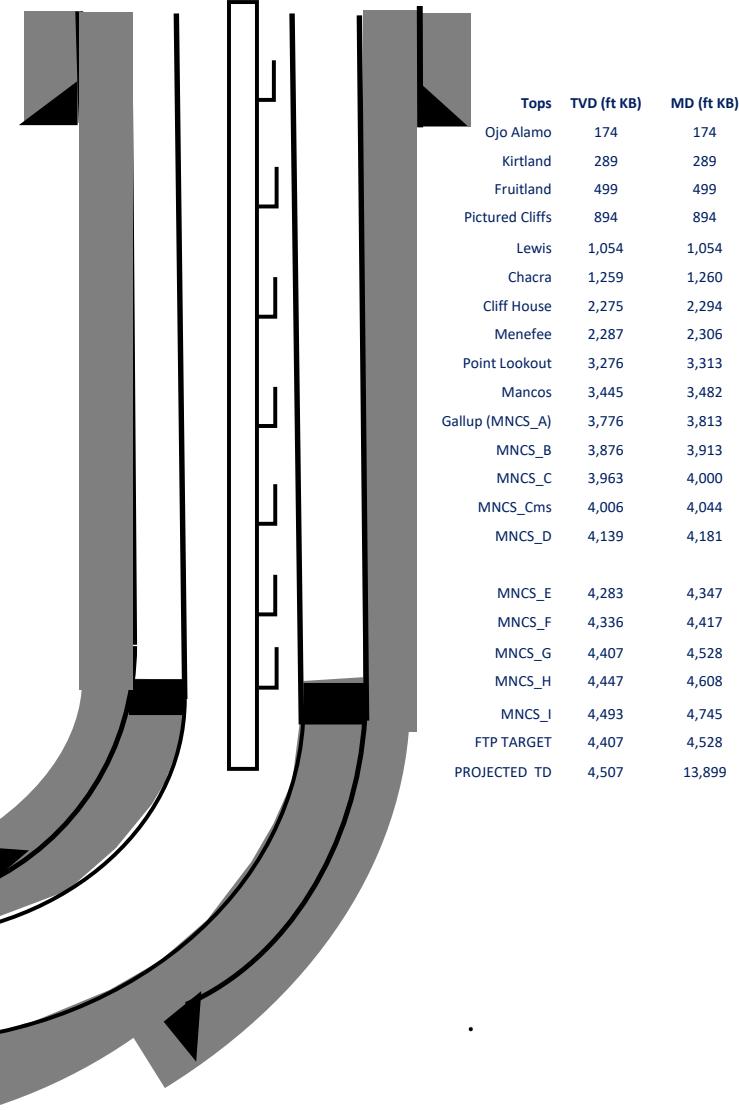
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	350	9.625	36	K-55	STC	0	350
Intermediate	8.750	4,821	7	26.0	K-55	LTC	0	4,821
Production	6.125	13,899	4.500	11.6	P-110	BTC	4,671	13,899

**CEMENT PROPERTIES SUMMARY:**

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	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)	III:POZ Blend	12.5	2.15	12.06	0.1668	80%	0	409
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	30%	3,382	170
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.54	0.0873	30%	4,671	775

**COMPLETION / PRODUCTION SUMMARY:****Flowback: Flow back through production tubing as pressures allow****Production: Produce through production tubing via gas-lift into permanent production and storage facilities**

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	4,821 ft
KOP (MD)	3,971 ft
KOP (TVD)	3,944 ft
Target (TVD)	4,407 ft
Curve BUR	10 °/100 ft
POE (MD)	4,528 ft
TD (MD)	13,899 ft
Lat Len (ft)	9,371 ft

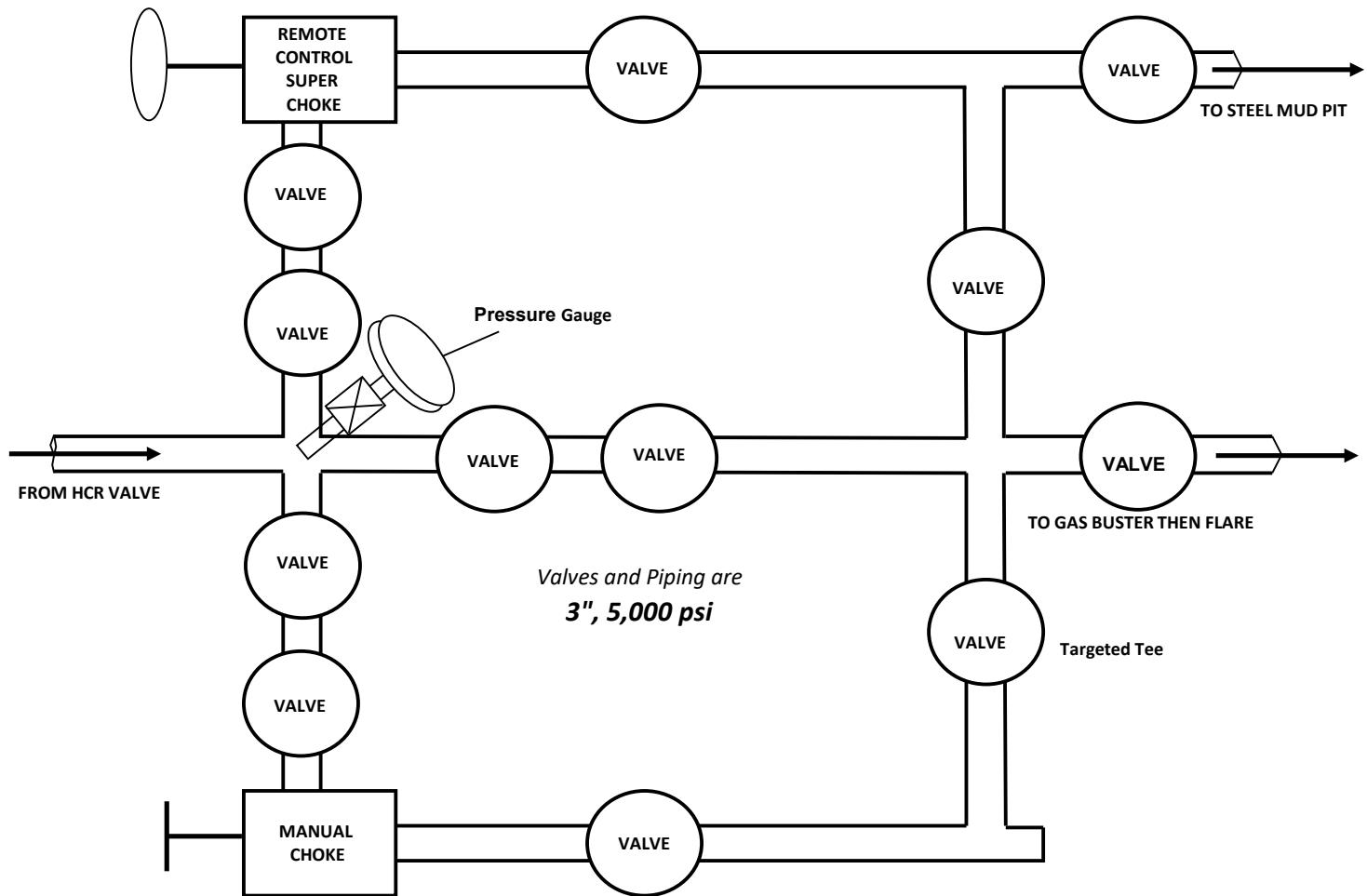


	Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	174	174	
Kirtland	289	289	
Fruitland	499	499	
Pictured Cliffs	894	894	
Lewis	1,054	1,054	
Chacra	1,259	1,260	
Cliff House	2,275	2,294	
Menefee	2,287	2,306	
Point Lookout	3,276	3,313	
Mancos	3,445	3,482	
Gallup (MNCS_A)	3,776	3,813	
MNCS_B	3,876	3,913	
MNCS_C	3,963	4,000	
MNCS_Cms	4,006	4,044	
MNCS_D	4,139	4,181	
MNCS_E	4,283	4,347	
MNCS_F	4,336	4,417	
MNCS_G	4,407	4,528	
MNCS_H	4,447	4,608	
MNCS_I	4,493	4,745	
FTP TARGET	4,407	4,528	
PROJECTED TD	4,507	13,899	

## Greater Lybrook Unit 044H

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

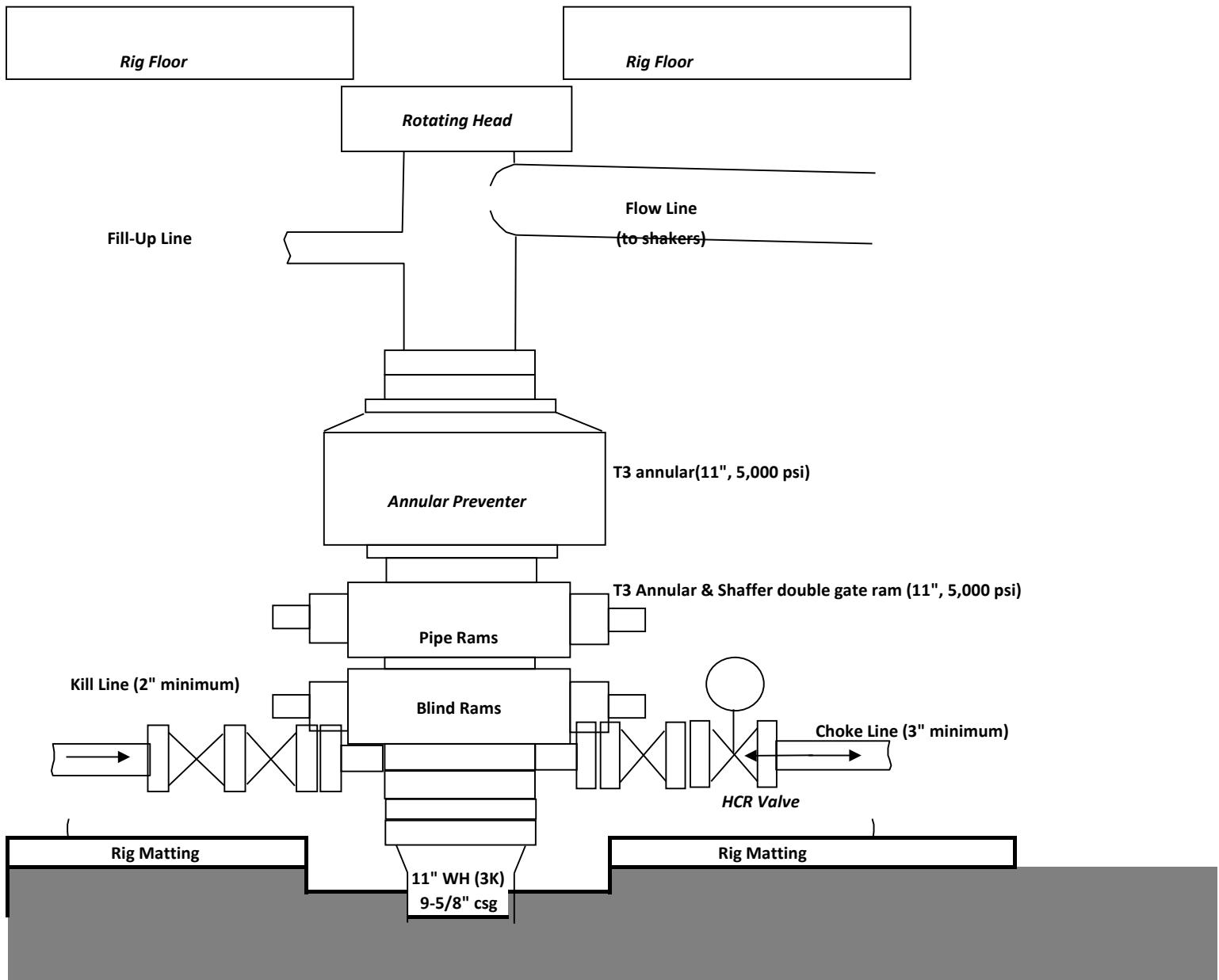
### CHOKE MANIFOLD



## Greater Lybrook Unit 044H

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

### BOPE





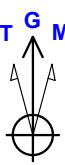
Well: Greater Lybrook Unit 44H  
 Site: Greater Lybrook Unit 730 (43,44,45,46&47)  
 Project: San Juan County, New Mexico NAD83 NM W  
 Design: rev0  
 Rig:

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: New Mexico Western Zone  
 System Datum: Mean Sea Level  
 Depth Reference: RKB=6640+23.5 @ 6663.50ft

Surface location:

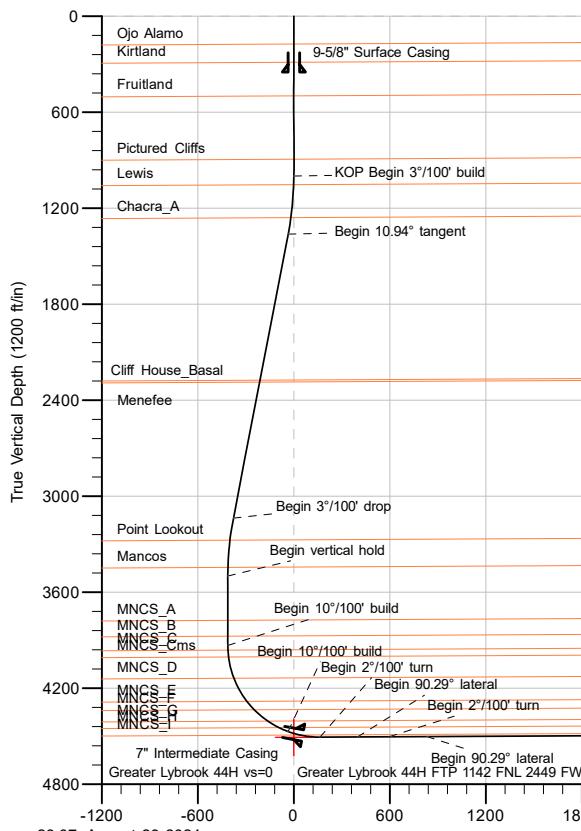
Northing 1892795.01 Easting 2739735.38 Latitude 36.20190300 Longitude -107.77692000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.43°



Azimuths to Grid North  
 True North: -0.03°  
 Magnetic North: 8.43°

Magnetic Field  
 Strength: 48963.6nT  
 Dip Angle: 62.65°  
 Date: 8/29/2024  
 Model: IGRF2020



#### CASING DETAILS

Sec	TVD	MD	Size
1	0.00	0.00	0.000
2	1000.00	0.00	1000.00
3	1364.62	10.94	318.003
4	3172.65	10.94	318.003
5	3537.27	0.00	3500.00
6	3970.88	0.00	3933.61
7	4670.88	70.00	135.293
8	4873.78	90.29	135.293
9	5107.93	90.29	130.610
10	5307.93	90.29	130.610
11	5542.06	90.29	135.293
12	13899.36	90.29	135.293

4496.84

4765.14

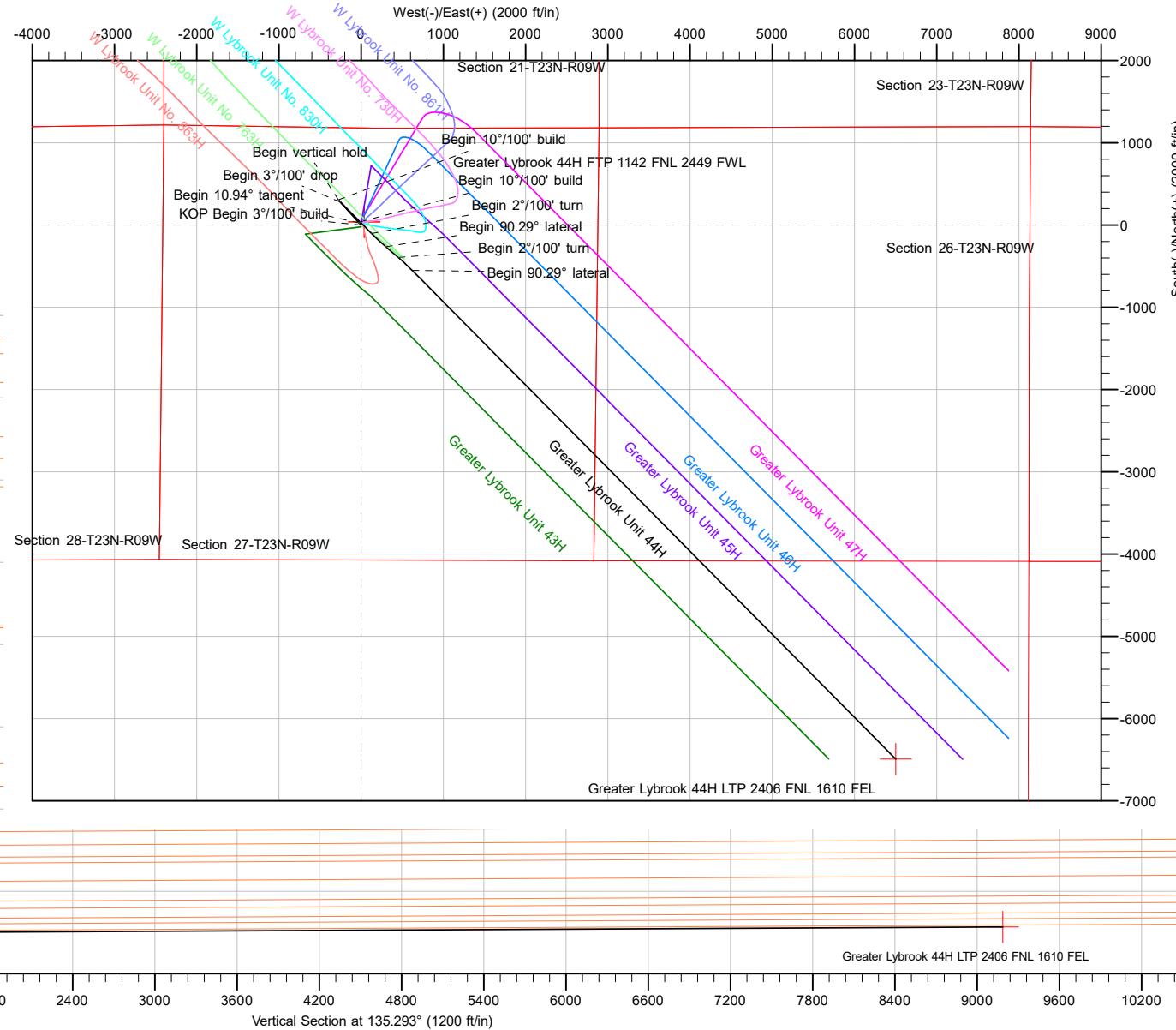
9-5/8

7

Section Details											
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Deg	TFace	VSec	Annotation	
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3°/100' build	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.000	0.00	Begin 10.94° tangent	
3	1364.62	10.94	318.003	1362.41	25.79	-23.22	3.00	318.003	-34.66	Begin 3°/100' drop	
4	3172.65	10.94	318.003	3137.59	280.76	-252.77	0.00	0.000	-377.36	Begin vertical hold	
5	3537.27	0.00	0.000	3500.00	306.55	-275.99	3.00	180.000	-412.02	Begin 10°/100' build	
6	3970.88	0.00	0.000	3933.61	306.55	-275.99	0.00	0.000	-412.02	Begin 10°/100' turn	
7	4670.88	70.00	135.293	4472.01	38.61	-10.78	10.00	135.293	-35.03	Begin 10°/100' build	
8	4873.78	90.29	135.293	4506.56	-102.72	129.12	10.00	0.000	163.83	Begin 2°/100' turn	
9	5107.93	90.29	130.610	4505.37	-262.22	300.44	2.00	-89.988	397.72	Begin 90.29° lateral	
10	5307.93	90.29	130.610	4504.36	-392.40	452.27	0.00	0.000	597.05	Begin 2°/100' turn	
11	5542.06	90.29	135.293	4503.18	-551.88	623.60	2.00	89.988	830.92	Begin 90.29° lateral	
12	13899.36	90.29	135.293	4461.00	-6491.42	6502.75	0.00	0.000	9188.11	PBHL/TD @ 13899.36 MD 4461.00 TVD	

#### DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
Greater Lybrook 44H FTP 1142 FNL 2449 FWL	4508.00	38.61	39.22	1892833.62	2739774.60	36.2020090	-107.77678700
Greater Lybrook 44H LTP 2406 FNL 1610 FEL	4461.00	-6491.42	6502.75	1886303.60	2746238.12	36.18405800	-107.75489700
Greater Lybrook 44H vs=0	4508.00	38.72	39.11	1892833.73	2739774.49	36.20200930	-107.77678736





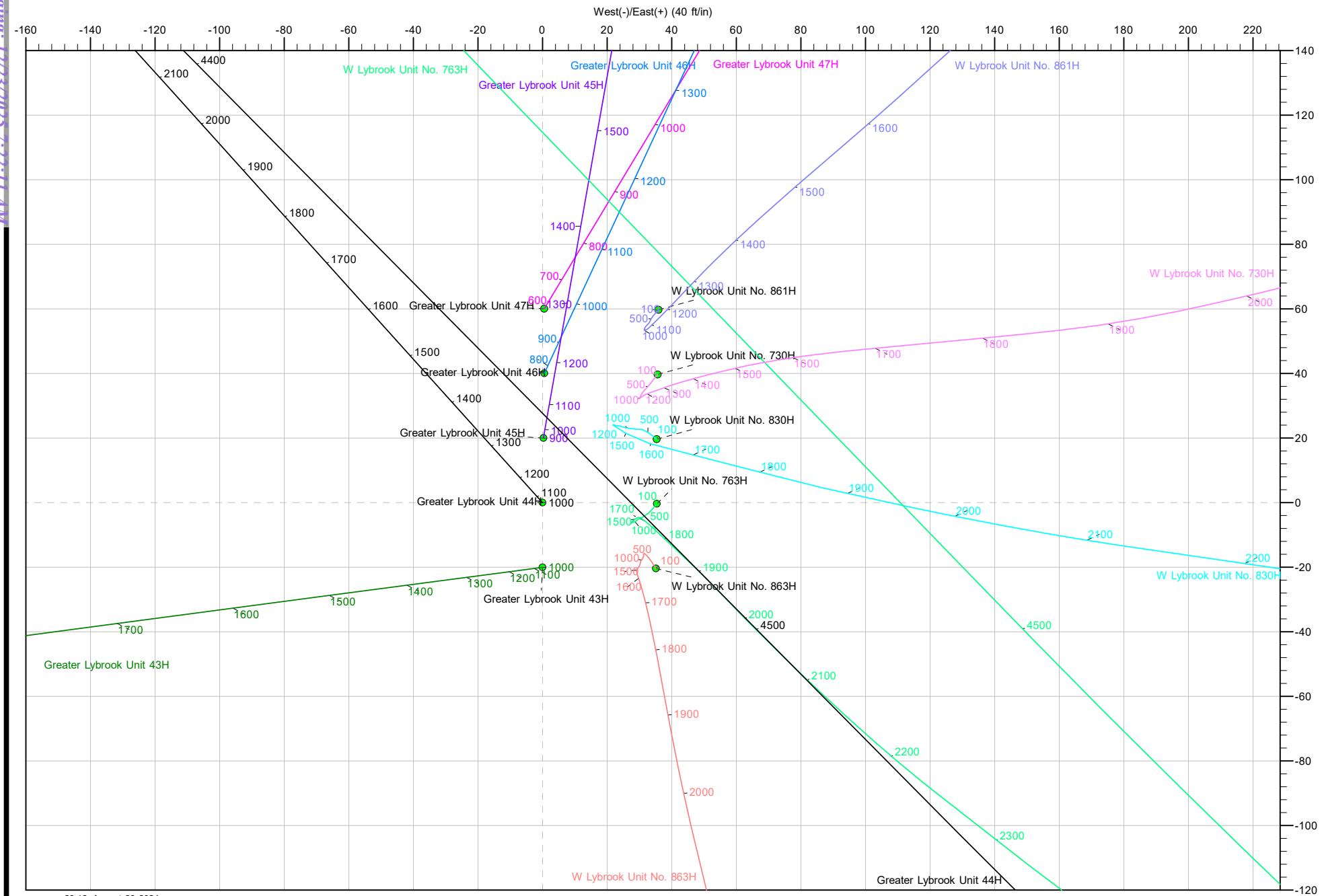
Well: Greater Lybrook Unit 44H  
Site: Greater Lybrook Unit 730 (43,44,45,46&47)  
Project: San Juan County, New Mexico NAD83 NM W  
Design: rev0  
Rig:



Received by OCB: 11/16/2025 12:33:24 PM

South(-)/North(+) (40 ft/in)

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## Planning Report

<b>Database:</b> DT_Jul1724_v17	<b>Local Co-ordinate Reference:</b> Well Greater Lybrook Unit 44H
<b>Company:</b> Enduring Resources LLC	<b>TVD Reference:</b> RKB=6640+23.5 @ 6663.50ft
<b>Project:</b> San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b> RKB=6640+23.5 @ 6663.50ft
<b>Site:</b> Greater Lybrook Unit 730 (43,44,45,46&47)	<b>North Reference:</b> Grid
<b>Well:</b> Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Wellbore:</b> Original Hole	
<b>Design:</b> rev0	

<b>Project</b>	San Juan County, New Mexico NAD83 NM W	
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b> Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983	
<b>Map Zone:</b>	New Mexico Western Zone	

<b>Site</b>	Greater Lybrook Unit 730 (43,44,45,46&47)
<b>Site Position:</b>	<b>Northing:</b> 1,892,775.00 usft
<b>From:</b> Lat/Long	<b>Easting:</b> 2,739,735.40 usft
<b>Position Uncertainty:</b>	<b>Slot Radius:</b> 13-3/16 "

<b>Well</b>	Greater Lybrook Unit 44H, Surf loc: 1181 FNL 2411 FWL Section 27-T23N-R09W
<b>Well Position</b>	<b>+N/S</b> 0.00 ft <b>Northing:</b> 1,892,795.02 usft <b>Latitude:</b> 36.20184800
	<b>+E/W</b> 0.00 ft <b>Easting:</b> 2,739,735.38 usft <b>Longitude:</b> -107.77692000
<b>Position Uncertainty</b>	0.00 ft <b>Wellhead Elevation:</b> ft <b>Ground Level:</b> 6,640.00 ft
<b>Grid Convergence:</b>	0.033 °

<b>Wellbore</b>	Original Hole
<b>Magnetics</b>	<b>Model Name</b> Sample Date <b>Declination</b> (°) <b>Dip Angle</b> (°) <b>Field Strength</b> (nT)
	IGRF2020    8/29/2024    8.467    62.646    48,963.57347211

<b>Design</b>	rev0
<b>Audit Notes:</b>	
<b>Version:</b>	
<b>Phase:</b> PLAN	
<b>Tie On Depth:</b> 0.00	
<b>Vertical Section:</b>	
<b>Depth From (TVD)</b> (ft)	
0.00	
<b>+N/S (ft)</b>	
0.00	
<b>+E/W (ft)</b>	
0.00	
<b>Direction (°)</b>	
135.293	

<b>Plan Survey Tool Program</b>	<b>Date</b> 8/29/2024
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>
1    0.00	13,899.13 rev0 (Original Hole)
	<b>Survey (Wellbore)</b>
	<b>Tool Name</b>
	MWD
	OWSG MWD - Standard
	<b>Remarks</b>



## Planning Report

Database:	DT_Jul1724_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 44H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	North Reference:	Grid
Well:	Greater Lybrook Unit 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original 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	
1,364.62	10.94	318.003	1,362.41	25.79	-23.22	3.00	3.00	0.00	318.003	
3,172.65	10.94	318.003	3,137.59	280.76	-252.77	0.00	0.00	0.00	0.000	
3,537.27	0.00	0.000	3,500.00	306.55	-275.99	3.00	-3.00	0.00	180.000	
3,970.88	0.00	0.000	3,933.61	306.55	-275.99	0.00	0.00	0.00	0.000	
4,670.88	70.00	135.293	4,472.01	38.61	-10.78	10.00	10.00	0.00	135.293	
4,873.78	90.29	135.293	4,506.56	-102.72	129.12	10.00	10.00	0.00	0.000	
5,107.93	90.29	130.610	4,505.37	-262.22	300.44	2.00	0.00	-2.00	-89.988	
5,307.93	90.29	130.610	4,504.36	-392.40	452.27	0.00	0.00	0.00	0.000	
5,542.06	90.29	135.293	4,503.18	-551.88	623.60	2.00	0.00	2.00	89.998	
13,899.36	90.29	135.293	4,461.00	-6,491.43	6,502.75	0.00	0.00	0.00	0.000	Greater Lybrook 44H



## Planning Report



<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	DT_Jul1724_v17 Enduring Resources LLC San Juan County, New Mexico NAD83 NM W Greater Lybrook Unit 730 (43,44,45,46&47) Greater Lybrook Unit 44H Original Hole rev0	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Greater Lybrook Unit 44H RKB=6640+23.5 @ 6663.50ft RKB=6640+23.5 @ 6663.50ft Grid Minimum Curvature
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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	
174.00	0.00	0.000	174.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Ojo Alamo</b>										
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
289.00	0.00	0.000	289.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Kirtland</b>										
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	
<b>9-5/8" Surface Casing</b>										
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
499.00	0.00	0.000	499.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Fruitland</b>										
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	
894.00	0.00	0.000	894.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Pictured Cliffs</b>										
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	
<b>KOP Begin 3°/100' build</b>										
1,054.01	1.62	318.003	1,054.00	0.57	-0.51	-0.76	3.00	3.00	0.00	
<b>Lewis</b>										
1,100.00	3.00	318.003	1,099.95	1.95	-1.75	-2.61	3.00	3.00	0.00	
1,200.00	6.00	318.003	1,199.63	7.78	-7.00	-10.45	3.00	3.00	0.00	
1,259.89	7.80	318.003	1,259.09	13.12	-11.81	-17.64	3.00	3.00	0.00	
<b>Chacra_A</b>										
1,300.00	9.00	318.003	1,298.77	17.47	-15.73	-23.49	3.00	3.00	0.00	
1,364.62	10.94	318.003	1,362.41	25.79	-23.22	-34.66	3.00	3.00	0.00	
<b>Begin 10.94° tangent</b>										
1,400.00	10.94	318.003	1,397.15	30.78	-27.71	-41.37	0.00	0.00	0.00	
1,500.00	10.94	318.003	1,495.33	44.88	-40.41	-60.32	0.00	0.00	0.00	
1,600.00	10.94	318.003	1,593.51	58.98	-53.10	-79.28	0.00	0.00	0.00	
1,700.00	10.94	318.003	1,691.70	73.08	-65.80	-98.23	0.00	0.00	0.00	
1,800.00	10.94	318.003	1,789.88	87.19	-78.50	-117.18	0.00	0.00	0.00	
1,900.00	10.94	318.003	1,888.06	101.29	-91.19	-136.14	0.00	0.00	0.00	
2,000.00	10.94	318.003	1,986.25	115.39	-103.89	-155.09	0.00	0.00	0.00	
2,100.00	10.94	318.003	2,084.43	129.49	-116.58	-174.05	0.00	0.00	0.00	
2,200.00	10.94	318.003	2,182.61	143.60	-129.28	-193.00	0.00	0.00	0.00	
2,294.17	10.94	318.003	2,275.07	156.88	-141.24	-210.85	0.00	0.00	0.00	
<b>Cliff House_Basal</b>										
2,300.00	10.94	318.003	2,280.79	157.70	-141.98	-211.96	0.00	0.00	0.00	
2,306.40	10.94	318.003	2,287.08	158.60	-142.79	-213.17	0.00	0.00	0.00	
<b>Menefee</b>										
2,400.00	10.94	318.003	2,378.98	171.80	-154.67	-230.91	0.00	0.00	0.00	
2,500.00	10.94	318.003	2,477.16	185.90	-167.37	-249.87	0.00	0.00	0.00	
2,600.00	10.94	318.003	2,575.34	200.00	-180.07	-268.82	0.00	0.00	0.00	
2,700.00	10.94	318.003	2,673.53	214.11	-192.76	-287.77	0.00	0.00	0.00	
2,800.00	10.94	318.003	2,771.71	228.21	-205.46	-306.73	0.00	0.00	0.00	
2,900.00	10.94	318.003	2,869.89	242.31	-218.16	-325.68	0.00	0.00	0.00	
3,000.00	10.94	318.003	2,968.08	256.41	-230.85	-344.64	0.00	0.00	0.00	
3,100.00	10.94	318.003	3,066.26	270.52	-243.55	-363.59	0.00	0.00	0.00	



## Planning Report



<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	DT_Jul1724_v17 Enduring Resources LLC San Juan County, New Mexico NAD83 NM W Greater Lybrook Unit 730 (43,44,45,46&47) Greater Lybrook Unit 44H Original Hole rev0	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Greater Lybrook Unit 44H RKB=6640+23.5 @ 6663.50ft RKB=6640+23.5 @ 6663.50ft Grid Minimum Curvature
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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)	
3,172.65	10.94	318.003	3,137.59	280.76	-252.77	-377.36	0.00	0.00	0.00	
<b>Begin 3°/100' drop</b>										
3,200.00	10.12	318.003	3,164.48	284.48	-256.12	-382.35	3.00	-3.00	0.00	
3,300.00	7.12	318.003	3,263.34	295.61	-266.14	-397.32	3.00	-3.00	0.00	
3,312.77	6.73	318.003	3,276.02	296.76	-267.17	-398.86	3.00	-3.00	0.00	
<b>Point Lookout</b>										
3,400.00	4.12	318.003	3,362.85	302.89	-272.69	-407.10	3.00	-3.00	0.00	
3,482.35	1.65	318.003	3,445.08	305.96	-275.46	-411.23	3.00	-3.00	0.00	
<b>Mancos</b>										
3,500.00	1.12	318.003	3,462.73	306.28	-275.75	-411.66	3.00	-3.00	0.00	
3,537.27	0.00	0.000	3,500.00	306.55	-275.99	-412.02	3.00	-3.00	0.00	
<b>Begin vertical hold</b>										
3,600.00	0.00	0.000	3,562.73	306.55	-275.99	-412.02	0.00	0.00	0.00	
3,700.00	0.00	0.000	3,662.73	306.55	-275.99	-412.02	0.00	0.00	0.00	
3,800.00	0.00	0.000	3,762.73	306.55	-275.99	-412.02	0.00	0.00	0.00	
3,813.36	0.00	0.000	3,776.09	306.55	-275.99	-412.02	0.00	0.00	0.00	
<b>MNCS_A</b>										
3,900.00	0.00	0.000	3,862.73	306.55	-275.99	-412.02	0.00	0.00	0.00	
3,913.36	0.00	0.000	3,876.09	306.55	-275.99	-412.02	0.00	0.00	0.00	
<b>MNCS_B</b>										
3,970.88	0.00	0.000	3,933.61	306.55	-275.99	-412.02	0.00	0.00	0.00	
<b>Begin 10°/100' build</b>										
4,000.00	2.91	135.293	3,962.72	306.02	-275.47	-411.28	10.00	10.00	0.00	
4,000.37	2.95	135.293	3,963.08	306.01	-275.46	-411.26	10.00	10.00	0.00	
<b>MNCS_C</b>										
4,043.53	7.26	135.293	4,006.06	303.28	-272.75	-407.42	10.00	10.00	0.00	
<b>MNCS_Cms</b>										
4,050.00	7.91	135.293	4,012.48	302.67	-272.15	-406.57	10.00	10.00	0.00	
4,100.00	12.91	135.293	4,061.64	296.25	-265.80	-397.54	10.00	10.00	0.00	
4,150.00	17.91	135.293	4,109.83	286.81	-256.45	-384.25	10.00	10.00	0.00	
4,180.83	20.99	135.293	4,138.89	279.52	-249.23	-373.99	10.00	10.00	0.00	
<b>MNCS_D</b>										
4,200.00	22.91	135.293	4,156.67	274.42	-244.19	-366.82	10.00	10.00	0.00	
4,250.00	27.91	135.293	4,201.82	259.18	-229.10	-345.37	10.00	10.00	0.00	
4,300.00	32.91	135.293	4,244.93	241.20	-211.30	-320.07	10.00	10.00	0.00	
4,347.24	37.64	135.293	4,283.48	221.81	-192.11	-292.79	10.00	10.00	0.00	
<b>MNCS_E</b>										
4,350.00	37.91	135.293	4,285.66	220.61	-190.93	-291.10	10.00	10.00	0.00	
4,400.00	42.91	135.293	4,323.72	197.58	-168.13	-258.70	10.00	10.00	0.00	
4,417.35	44.65	135.293	4,336.25	189.05	-159.69	-246.70	10.00	10.00	0.00	
<b>MNCS_F</b>										
4,450.00	47.91	135.293	4,358.81	172.28	-143.09	-223.10	10.00	10.00	0.00	
4,500.00	52.91	135.293	4,390.66	144.91	-115.99	-184.58	10.00	10.00	0.00	
4,527.69	55.68	135.293	4,406.82	128.93	-100.17	-162.10	10.00	10.00	0.00	
<b>MNCS_G</b>										
4,550.00	57.91	135.293	4,419.04	115.66	-87.04	-143.43	10.00	10.00	0.00	
4,600.00	62.91	135.293	4,443.72	84.77	-56.46	-99.97	10.00	10.00	0.00	
4,608.35	63.75	135.293	4,447.47	79.46	-51.21	-92.50	10.00	10.00	0.00	
<b>MNCS_H</b>										
4,650.00	67.91	135.293	4,464.52	52.46	-24.49	-54.52	10.00	10.00	0.00	
4,670.88	70.00	135.293	4,472.01	38.61	-10.78	-35.03	10.00	10.00	0.00	
<b>Begin 10°/100' build</b>										



## Planning Report



<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	DT_Jul1724_v17 Enduring Resources LLC San Juan County, New Mexico NAD83 NM W Greater Lybrook Unit 730 (43,44,45,46&47) Greater Lybrook Unit 44H Original Hole rev0	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Greater Lybrook Unit 44H RKB=6640+23.5 @ 6663.50ft RKB=6640+23.5 @ 6663.50ft Grid Minimum Curvature
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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)
4,700.00	72.91	135.293	4,481.27	19.00	8.64	-7.42	10.00	10.00	0.00
4,745.10	77.42	135.293	4,492.82	-11.98	39.30	36.16	10.00	10.00	0.00
<b>MNCS_I</b>									
4,750.00	77.91	135.293	4,493.86	-15.38	42.67	40.95	10.00	10.00	0.00
4,765.14	79.43	135.293	4,496.84	-25.93	53.11	55.79	10.00	10.00	0.00
<b>7" Intermediate Casing</b>									
4,800.00	82.91	135.293	4,502.19	-50.41	77.34	90.23	10.00	10.00	0.00
4,850.00	87.91	135.293	4,506.19	-85.82	112.39	140.06	10.00	10.00	0.00
4,873.78	90.29	135.293	4,506.56	-102.72	129.12	163.83	10.00	10.00	0.00
<b>Begin 2°/100' turn</b>									
4,900.00	90.29	134.769	4,506.43	-121.27	147.64	190.05	2.00	0.00	-2.00
5,000.00	90.29	132.769	4,505.92	-190.44	219.85	290.01	2.00	0.00	-2.00
5,107.93	90.29	130.610	4,505.37	-262.22	300.44	397.72	2.00	0.00	-2.00
<b>Begin 90.29° lateral</b>									
5,200.00	90.29	130.610	4,504.91	-322.15	370.34	489.48	0.00	0.00	0.00
5,307.93	90.29	130.610	4,504.36	-392.40	452.27	597.05	0.00	0.00	0.00
<b>Begin 2°/100' turn</b>									
5,400.00	90.29	132.451	4,503.90	-453.44	521.20	688.92	2.00	0.00	2.00
5,500.00	90.29	134.451	4,503.39	-522.21	593.79	788.86	2.00	0.00	2.00
5,542.06	90.29	135.293	4,503.18	-551.88	623.60	830.92	2.00	0.00	2.00
<b>Begin 90.29° lateral</b>									
5,600.00	90.29	135.293	4,502.89	-593.06	664.35	888.86	0.00	0.00	0.00
5,700.00	90.29	135.293	4,502.38	-664.13	734.70	988.85	0.00	0.00	0.00
5,800.00	90.29	135.293	4,501.88	-735.20	805.05	1,088.85	0.00	0.00	0.00
5,900.00	90.29	135.293	4,501.37	-806.27	875.40	1,188.85	0.00	0.00	0.00
6,000.00	90.29	135.293	4,500.87	-877.34	945.74	1,288.85	0.00	0.00	0.00
6,100.00	90.29	135.293	4,500.36	-948.41	1,016.09	1,388.85	0.00	0.00	0.00
6,200.00	90.29	135.293	4,499.86	-1,019.48	1,086.44	1,488.85	0.00	0.00	0.00
6,300.00	90.29	135.293	4,499.35	-1,090.55	1,156.79	1,588.85	0.00	0.00	0.00
6,400.00	90.29	135.293	4,498.85	-1,161.62	1,227.13	1,688.84	0.00	0.00	0.00
6,500.00	90.29	135.293	4,498.34	-1,232.69	1,297.48	1,788.84	0.00	0.00	0.00
6,600.00	90.29	135.293	4,497.84	-1,303.76	1,367.83	1,888.84	0.00	0.00	0.00
6,700.00	90.29	135.293	4,497.33	-1,374.83	1,438.18	1,988.84	0.00	0.00	0.00
6,800.00	90.29	135.293	4,496.83	-1,445.90	1,508.52	2,088.84	0.00	0.00	0.00
6,900.00	90.29	135.293	4,496.33	-1,516.97	1,578.87	2,188.84	0.00	0.00	0.00
7,000.00	90.29	135.293	4,495.82	-1,588.04	1,649.22	2,288.84	0.00	0.00	0.00
7,100.00	90.29	135.293	4,495.32	-1,659.11	1,719.57	2,388.84	0.00	0.00	0.00
7,200.00	90.29	135.293	4,494.81	-1,730.18	1,789.91	2,488.83	0.00	0.00	0.00
7,300.00	90.29	135.293	4,494.31	-1,801.25	1,860.26	2,588.83	0.00	0.00	0.00
7,400.00	90.29	135.293	4,493.80	-1,872.32	1,930.61	2,688.83	0.00	0.00	0.00
7,500.00	90.29	135.293	4,493.30	-1,943.39	2,000.96	2,788.83	0.00	0.00	0.00
7,600.00	90.29	135.293	4,492.79	-2,014.46	2,071.30	2,888.83	0.00	0.00	0.00
7,700.00	90.29	135.293	4,492.29	-2,085.53	2,141.65	2,988.83	0.00	0.00	0.00
7,800.00	90.29	135.293	4,491.78	-2,156.60	2,212.00	3,088.83	0.00	0.00	0.00
7,900.00	90.29	135.293	4,491.28	-2,227.67	2,282.35	3,188.83	0.00	0.00	0.00
8,000.00	90.29	135.293	4,490.77	-2,298.74	2,352.69	3,288.82	0.00	0.00	0.00
8,100.00	90.29	135.293	4,490.27	-2,369.81	2,423.04	3,388.82	0.00	0.00	0.00
8,200.00	90.29	135.293	4,489.76	-2,440.88	2,493.39	3,488.82	0.00	0.00	0.00
8,300.00	90.29	135.293	4,489.26	-2,511.95	2,563.74	3,588.82	0.00	0.00	0.00
8,400.00	90.29	135.293	4,488.75	-2,583.02	2,634.08	3,688.82	0.00	0.00	0.00
8,500.00	90.29	135.293	4,488.25	-2,654.09	2,704.43	3,788.82	0.00	0.00	0.00
8,600.00	90.29	135.293	4,487.75	-2,725.16	2,774.78	3,888.82	0.00	0.00	0.00
8,700.00	90.29	135.293	4,487.24	-2,796.23	2,845.13	3,988.82	0.00	0.00	0.00



## Planning Report



**Database:** DT\_Jul1724\_v17  
**Company:** Enduring Resources LLC  
**Project:** San Juan County, New Mexico NAD83 NM W  
**Site:** Greater Lybrook Unit 730 (43,44,45,46&47)  
**Well:** Greater Lybrook Unit 44H  
**Wellbore:** Original Hole  
**Design:** rev0

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**

Well Greater Lybrook Unit 44H  
 RKB=6640+23.5 @ 6663.50ft  
 RKB=6640+23.5 @ 6663.50ft  
 Grid  
 Minimum Curvature

## 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)
8,800.00	90.29	135.293	4,486.74	-2,867.30	2,915.47	4,088.81	0.00	0.00	0.00
8,900.00	90.29	135.293	4,486.23	-2,938.37	2,985.82	4,188.81	0.00	0.00	0.00
9,000.00	90.29	135.293	4,485.73	-3,009.44	3,056.17	4,288.81	0.00	0.00	0.00
9,100.00	90.29	135.293	4,485.22	-3,080.52	3,126.52	4,388.81	0.00	0.00	0.00
9,200.00	90.29	135.293	4,484.72	-3,151.59	3,196.86	4,488.81	0.00	0.00	0.00
9,300.00	90.29	135.293	4,484.21	-3,222.66	3,267.21	4,588.81	0.00	0.00	0.00
9,400.00	90.29	135.293	4,483.71	-3,293.73	3,337.56	4,688.81	0.00	0.00	0.00
9,500.00	90.29	135.293	4,483.20	-3,364.80	3,407.91	4,788.81	0.00	0.00	0.00
9,600.00	90.29	135.293	4,482.70	-3,435.87	3,478.25	4,888.80	0.00	0.00	0.00
9,700.00	90.29	135.293	4,482.19	-3,506.94	3,548.60	4,988.80	0.00	0.00	0.00
9,800.00	90.29	135.293	4,481.69	-3,578.01	3,618.95	5,088.80	0.00	0.00	0.00
9,900.00	90.29	135.293	4,481.18	-3,649.08	3,689.30	5,188.80	0.00	0.00	0.00
10,000.00	90.29	135.293	4,480.68	-3,720.15	3,759.64	5,288.80	0.00	0.00	0.00
10,100.00	90.29	135.293	4,480.18	-3,791.22	3,829.99	5,388.80	0.00	0.00	0.00
10,200.00	90.29	135.293	4,479.67	-3,862.29	3,900.34	5,488.80	0.00	0.00	0.00
10,300.00	90.29	135.293	4,479.17	-3,933.36	3,970.69	5,588.80	0.00	0.00	0.00
10,400.00	90.29	135.293	4,478.66	-4,004.43	4,041.03	5,688.79	0.00	0.00	0.00
10,500.00	90.29	135.293	4,478.16	-4,075.50	4,111.38	5,788.79	0.00	0.00	0.00
10,600.00	90.29	135.293	4,477.65	-4,146.57	4,181.73	5,888.79	0.00	0.00	0.00
10,700.00	90.29	135.293	4,477.15	-4,217.64	4,252.08	5,988.79	0.00	0.00	0.00
10,800.00	90.29	135.293	4,476.64	-4,288.71	4,322.43	6,088.79	0.00	0.00	0.00
10,900.00	90.29	135.293	4,476.14	-4,359.78	4,392.77	6,188.79	0.00	0.00	0.00
11,000.00	90.29	135.293	4,475.63	-4,430.85	4,463.12	6,288.79	0.00	0.00	0.00
11,100.00	90.29	135.293	4,475.13	-4,501.92	4,533.47	6,388.79	0.00	0.00	0.00
11,200.00	90.29	135.293	4,474.62	-4,572.99	4,603.82	6,488.78	0.00	0.00	0.00
11,300.00	90.29	135.293	4,474.12	-4,644.06	4,674.16	6,588.78	0.00	0.00	0.00
11,400.00	90.29	135.293	4,473.61	-4,715.13	4,744.51	6,688.78	0.00	0.00	0.00
11,500.00	90.29	135.293	4,473.11	-4,786.20	4,814.86	6,788.78	0.00	0.00	0.00
11,600.00	90.29	135.293	4,472.60	-4,857.27	4,885.21	6,888.78	0.00	0.00	0.00
11,700.00	90.29	135.293	4,472.10	-4,928.34	4,955.55	6,988.78	0.00	0.00	0.00
11,800.00	90.29	135.293	4,471.60	-4,999.41	5,025.90	7,088.78	0.00	0.00	0.00
11,900.00	90.29	135.293	4,471.09	-5,070.48	5,096.25	7,188.78	0.00	0.00	0.00
12,000.00	90.29	135.293	4,470.59	-5,141.55	5,166.60	7,288.77	0.00	0.00	0.00
12,100.00	90.29	135.293	4,470.08	-5,212.62	5,236.94	7,388.77	0.00	0.00	0.00
12,200.00	90.29	135.293	4,469.58	-5,283.69	5,307.29	7,488.77	0.00	0.00	0.00
12,300.00	90.29	135.293	4,469.07	-5,354.76	5,377.64	7,588.77	0.00	0.00	0.00
12,400.00	90.29	135.293	4,468.57	-5,425.83	5,447.99	7,688.77	0.00	0.00	0.00
12,500.00	90.29	135.293	4,468.06	-5,496.90	5,518.33	7,788.77	0.00	0.00	0.00
12,600.00	90.29	135.293	4,467.56	-5,567.97	5,588.68	7,888.77	0.00	0.00	0.00
12,700.00	90.29	135.293	4,467.05	-5,639.04	5,659.03	7,988.76	0.00	0.00	0.00
12,800.00	90.29	135.293	4,466.55	-5,710.11	5,729.38	8,088.76	0.00	0.00	0.00
12,900.00	90.29	135.293	4,466.04	-5,781.18	5,799.72	8,188.76	0.00	0.00	0.00
13,000.00	90.29	135.293	4,465.54	-5,852.25	5,870.07	8,288.76	0.00	0.00	0.00
13,100.00	90.29	135.293	4,465.03	-5,923.32	5,940.42	8,388.76	0.00	0.00	0.00
13,200.00	90.29	135.293	4,464.53	-5,994.39	6,010.77	8,488.76	0.00	0.00	0.00
13,300.00	90.29	135.293	4,464.02	-6,065.46	6,081.11	8,588.76	0.00	0.00	0.00
13,400.00	90.29	135.293	4,463.52	-6,136.53	6,151.46	8,688.76	0.00	0.00	0.00
13,500.00	90.29	135.293	4,463.02	-6,207.60	6,221.81	8,788.75	0.00	0.00	0.00
13,600.00	90.29	135.293	4,462.51	-6,278.67	6,292.16	8,888.75	0.00	0.00	0.00
13,700.00	90.29	135.293	4,462.01	-6,349.74	6,362.50	8,988.75	0.00	0.00	0.00
13,800.00	90.29	135.293	4,461.50	-6,420.81	6,432.85	9,088.75	0.00	0.00	0.00
13,899.36	90.29	135.293	4,461.00	-6,491.43	6,502.75	9,188.11	0.00	0.00	0.00

PBHL/TD @ 13899.36 MD 4461.00 TVD



## Planning Report

<b>Database:</b> DT_Jul1724_v17	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Company:</b> Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Project:</b> San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site:</b> Greater Lybrook Unit 730 (43,44,45,46&47)	<b>North Reference:</b>	Grid
<b>Well:</b> Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> 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
4,765.14	4,496.84	7" Intermediate Casing	7	8-3/4

## Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
174.00	174.00	Ojo Alamo		-0.290	135.293
289.00	289.00	Kirtland		-0.290	135.293
499.00	499.00	Fruitland		-0.290	135.293
894.00	894.00	Pictured Cliffs		-0.290	135.293
1,054.01	1,054.00	Lewis		-0.290	135.293
1,259.89	1,259.09	Chacra_A		-0.290	135.293
2,294.17	2,275.07	Cliff House_Basal		-0.290	135.293
2,306.40	2,287.08	Menefee		-0.290	135.293
3,312.77	3,276.02	Point Lookout		-0.290	135.293
3,482.35	3,445.08	Mancos		-0.290	135.293
3,813.36	3,776.09	MNCS_A		-0.290	135.293
3,913.36	3,876.09	MNCS_B		-0.290	135.293
4,000.37	3,963.08	MNCS_C		-0.290	135.293
4,043.53	4,006.06	MNCS_Cms		-0.290	135.293
4,180.83	4,138.89	MNCS_D		-0.290	135.293
4,347.24	4,283.48	MNCS_E		-0.290	135.293
4,417.35	4,336.25	MNCS_F		-0.290	135.293
4,527.69	4,406.82	MNCS_G		-0.290	135.293
4,608.35	4,447.47	MNCS_H		-0.290	135.293
4,745.10	4,492.82	MNCS_I		-0.290	135.293

## Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			Comment
		+N/S (ft)	+E/W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP	Begin 3°/100' build
1,364.62	1,362.41	25.79	-23.22		Begin 10.94° tangent
3,172.65	3,137.59	280.76	-252.77		Begin 3°/100' drop
3,537.27	3,500.00	306.55	-275.99		Begin vertical hold
3,970.88	3,933.61	306.55	-275.99		Begin 10°/100' build
4,670.88	4,472.01	38.61	-10.78		Begin 10°/100' build
4,873.78	4,506.56	-102.72	129.12		Begin 2°/100' turn
5,107.93	4,505.37	-262.22	300.44		Begin 90.29° lateral
5,307.93	4,504.36	-392.40	452.27		Begin 2°/100' turn
5,542.06	4,503.18	-551.88	623.60		Begin 90.29° lateral
13,899.36	4,461.00	-6,491.43	6,502.75		PBHL/TD @ 13899.36 MD 4461.00 TVD



## Planning Report - Geographic



<b>Database:</b>	DT_Jul1724_v17	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>North Reference:</b>	Grid
<b>Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev0		

<b>Project</b>	San Juan County, New Mexico NAD83 NM W	
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>
<b>Geo Datum:</b>	North American Datum 1983	Mean Sea Level
<b>Map Zone:</b>	New Mexico Western Zone	

<b>Site</b>	Greater Lybrook Unit 730 (43,44,45,46&47)				
<b>Site Position:</b>		<b>Northing:</b>	1,892,775.00 usft	<b>Latitude:</b>	36.20184800
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,739,735.40 usft	<b>Longitude:</b>	-107.77692000
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	13-3/16 "		

<b>Well</b>	Greater Lybrook Unit 44H, Surf loc: 1181 FNL 2411 FWL Section 27-T23N-R09W				
<b>Well Position</b>	<b>+N-S</b> +E/W	0.00 ft	<b>Northing:</b> Easting:	1,892,795.02 usft 2,739,735.38 usft	<b>Latitude:</b> <b>Longitude:</b>
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>
<b>Grid Convergence:</b>		0.033 °			6,640.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	IGRF2020	8/29/2024	8.467	62.646	48,963.57347211

<b>Design</b>	rev0				
<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>		<b>Depth From (TVD)</b> (ft)	<b>+N-S</b> (ft)	<b>+E/W</b> (ft)	<b>Direction</b> (°)
		0.00	0.00	0.00	135.293

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/29/2024		
<b>Depth From</b> (ft)	<b>Depth To</b> (ft)	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	13,899.13 rev0 (Original Hole)	MWD OWSG MWD - Standard	



## Planning Report - Geographic



<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	DT_Jul1724_v17 Enduring Resources LLC San Juan County, New Mexico NAD83 NM W Greater Lybrook Unit 730 (43,44,45,46&47) Greater Lybrook Unit 44H Original Hole rev0	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Greater Lybrook Unit 44H RKB=6640+23.5 @ 6663.50ft RKB=6640+23.5 @ 6663.50ft Grid Minimum Curvature
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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	
1,364.62	10.94	318.003	1,362.41	25.79	-23.22	3.00	3.00	0.00	318.003	
3,172.65	10.94	318.003	3,137.59	280.76	-252.77	0.00	0.00	0.00	0.000	
3,537.27	0.00	0.000	3,500.00	306.55	-275.99	3.00	-3.00	0.00	180.000	
3,970.88	0.00	0.000	3,933.61	306.55	-275.99	0.00	0.00	0.00	0.000	
4,670.88	70.00	135.293	4,472.01	38.61	-10.78	10.00	10.00	0.00	135.293	
4,873.78	90.29	135.293	4,506.56	-102.72	129.12	10.00	10.00	0.00	0.000	
5,107.93	90.29	130.610	4,505.37	-262.22	300.44	2.00	0.00	-2.00	-89.988	
5,307.93	90.29	130.610	4,504.36	-392.40	452.27	0.00	0.00	0.00	0.000	
5,542.06	90.29	135.293	4,503.18	-551.88	623.60	2.00	0.00	2.00	89.998	
13,899.36	90.29	135.293	4,461.00	-6,491.43	6,502.75	0.00	0.00	0.00	0.000	Greater Lybrook 44H



<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	DT_Jul1724_v17 Enduring Resources LLC San Juan County, New Mexico NAD83 NM W Greater Lybrook Unit 730 (43,44,45,46&47) Greater Lybrook Unit 44H Original Hole rev0	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Greater Lybrook Unit 44H RKB=6640+23.5 @ 6663.50ft RKB=6640+23.5 @ 6663.50ft Grid Minimum Curvature
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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	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
100.00	0.00	0.000	100.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
174.00	0.00	0.000	174.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>Ojo Alamo</b>										
200.00	0.00	0.000	200.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
289.00	0.00	0.000	289.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>Kirtland</b>										
300.00	0.00	0.000	300.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
350.00	0.00	0.000	350.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>9-5/8" Surface Casing</b>										
400.00	0.00	0.000	400.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
499.00	0.00	0.000	499.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>Fruitland</b>										
500.00	0.00	0.000	500.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
600.00	0.00	0.000	600.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
700.00	0.00	0.000	700.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
800.00	0.00	0.000	800.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
894.00	0.00	0.000	894.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>Pictured Cliffs</b>										
900.00	0.00	0.000	900.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,892,795.02	2,739,735.38	36.20190300	-107.77692000	
<b>KOP Begin 3°/100' build</b>										
1,054.01	1.62	318.003	1,054.00	0.57	-0.51	1,892,795.58	2,739,734.87	36.20190456	-107.77692173	
<b>Lewis</b>										
1,100.00	3.00	318.003	1,099.95	1.95	-1.75	1,892,796.96	2,739,733.63	36.20190835	-107.77692593	
1,200.00	6.00	318.003	1,199.63	7.78	-7.00	1,892,802.79	2,739,728.38	36.20192437	-107.77694371	
1,259.89	7.80	318.003	1,259.09	13.12	-11.81	1,892,808.14	2,739,723.57	36.20193906	-107.77696001	
<b>Chacra_A</b>										
1,300.00	9.00	318.003	1,298.77	17.47	-15.73	1,892,812.49	2,739,719.65	36.20195103	-107.77697329	
1,364.62	10.94	318.003	1,362.41	25.79	-23.22	1,892,820.80	2,739,712.17	36.20197388	-107.77699864	
<b>Begin 10.94° tangent</b>										
1,400.00	10.94	318.003	1,397.15	30.78	-27.71	1,892,825.79	2,739,707.67	36.20198759	-107.77701385	
1,500.00	10.94	318.003	1,495.33	44.88	-40.41	1,892,839.90	2,739,694.98	36.20202635	-107.77705686	
1,600.00	10.94	318.003	1,593.51	58.98	-53.10	1,892,854.00	2,739,682.28	36.20206511	-107.77709987	
1,700.00	10.94	318.003	1,691.70	73.08	-65.80	1,892,868.10	2,739,669.58	36.20210388	-107.77714287	
1,800.00	10.94	318.003	1,789.88	87.19	-78.50	1,892,882.20	2,739,656.89	36.20214264	-107.77718588	
1,900.00	10.94	318.003	1,888.06	101.29	-91.19	1,892,896.31	2,739,644.19	36.20218140	-107.77722889	
2,000.00	10.94	318.003	1,986.25	115.39	-103.89	1,892,910.41	2,739,631.50	36.20222016	-107.77727189	
2,100.00	10.94	318.003	2,084.43	129.49	-116.58	1,892,924.51	2,739,618.80	36.20225892	-107.77731490	
2,200.00	10.94	318.003	2,182.61	143.60	-129.28	1,892,938.61	2,739,606.10	36.20229768	-107.77735791	
2,294.17	10.94	318.003	2,275.07	156.88	-141.24	1,892,951.89	2,739,594.15	36.20233418	-107.77739840	
<b>Cliff House_Basal</b>										
2,300.00	10.94	318.003	2,280.79	157.70	-141.98	1,892,952.71	2,739,593.41	36.20233644	-107.77740091	
2,306.40	10.94	318.003	2,287.08	158.60	-142.79	1,892,953.62	2,739,592.59	36.20233892	-107.77740367	
<b>Menefee</b>										
2,400.00	10.94	318.003	2,378.98	171.80	-154.67	1,892,966.82	2,739,580.71	36.20237520	-107.77744392	
2,500.00	10.94	318.003	2,477.16	185.90	-167.37	1,892,980.92	2,739,568.01	36.20241396	-107.77748693	
2,600.00	10.94	318.003	2,575.34	200.00	-180.07	1,892,995.02	2,739,555.32	36.20245272	-107.77752993	
2,700.00	10.94	318.003	2,673.53	214.11	-192.76	1,893,009.12	2,739,542.62	36.20249148	-107.77757294	
2,800.00	10.94	318.003	2,771.71	228.21	-205.46	1,893,023.23	2,739,529.92	36.20253024	-107.77761595	
2,900.00	10.94	318.003	2,869.89	242.31	-218.16	1,893,037.33	2,739,517.23	36.20256900	-107.77765895	
3,000.00	10.94	318.003	2,968.08	256.41	-230.85	1,893,051.43	2,739,504.53	36.20260776	-107.77770196	
3,100.00	10.94	318.003	3,066.26	270.52	-243.55	1,893,065.53	2,739,491.84	36.20264652	-107.77774497	



## Planning Report - Geographic



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Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,172.65	10.94	318.003	3,137.59	280.76	-252.77	1,893,075.78	2,739,482.61	36.20267468	-107.7777621	
<b>Begin 3°/100' drop</b>										
3,200.00	10.12	318.003	3,164.48	284.48	-256.12	1,893,079.49	2,739,479.27	36.20268489	-107.77778754	
3,300.00	7.12	318.003	3,263.34	295.61	-266.14	1,893,090.63	2,739,469.24	36.20271549	-107.77782150	
3,312.77	6.73	318.003	3,276.02	296.76	-267.17	1,893,091.77	2,739,468.21	36.20271864	-107.77782499	
<b>Point Lookout</b>										
3,400.00	4.12	318.003	3,362.85	302.89	-272.69	1,893,097.90	2,739,462.69	36.20273549	-107.77784368	
3,482.35	1.65	318.003	3,445.08	305.96	-275.46	1,893,100.98	2,739,459.92	36.20274395	-107.77785307	
<b>Mancos</b>										
3,500.00	1.12	318.003	3,462.73	306.28	-275.75	1,893,101.30	2,739,459.64	36.20274482	-107.77785403	
3,537.27	0.00	0.000	3,500.00	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
<b>Begin vertical hold</b>										
3,600.00	0.00	0.000	3,562.73	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
3,700.00	0.00	0.000	3,662.73	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
3,800.00	0.00	0.000	3,762.73	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
3,813.36	0.00	0.000	3,776.09	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
<b>MNCS_A</b>										
3,900.00	0.00	0.000	3,862.73	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
3,913.36	0.00	0.000	3,876.09	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
<b>MNCS_B</b>										
3,970.88	0.00	0.000	3,933.61	306.55	-275.99	1,893,101.57	2,739,459.39	36.20274556	-107.77785486	
<b>Begin 10°/100' build</b>										
4,000.00	2.91	135.293	3,962.72	306.02	-275.47	1,893,101.04	2,739,459.91	36.20274411	-107.77785309	
4,000.37	2.95	135.293	3,963.08	306.01	-275.46	1,893,101.03	2,739,459.93	36.20274408	-107.77785305	
<b>MNCS_C</b>										
4,043.53	7.26	135.293	4,006.06	303.28	-272.75	1,893,098.30	2,739,462.63	36.20273657	-107.77784390	
<b>MNCS_Cms</b>										
4,050.00	7.91	135.293	4,012.48	302.67	-272.15	1,893,097.69	2,739,463.23	36.20273490	-107.77784186	
4,100.00	12.91	135.293	4,061.64	296.25	-265.80	1,893,091.27	2,739,469.59	36.20271726	-107.77782033	
4,150.00	17.91	135.293	4,109.83	286.81	-256.45	1,893,081.83	2,739,478.93	36.20269131	-107.77778868	
4,180.83	20.99	135.293	4,138.89	279.52	-249.23	1,893,074.53	2,739,486.15	36.20267125	-107.77776421	
<b>MNCS_D</b>										
4,200.00	22.91	135.293	4,156.67	274.42	-244.19	1,893,069.44	2,739,491.19	36.20265725	-107.77774713	
4,250.00	27.91	135.293	4,201.82	259.18	-229.10	1,893,054.20	2,739,506.28	36.20261535	-107.77769602	
4,300.00	32.91	135.293	4,244.93	241.20	-211.30	1,893,036.21	2,739,524.08	36.20256592	-107.77763572	
4,347.24	37.64	135.293	4,283.48	221.81	-192.11	1,893,016.83	2,739,543.27	36.20251265	-107.77757073	
<b>MNCS_E</b>										
4,350.00	37.91	135.293	4,285.66	220.61	-190.93	1,893,015.63	2,739,544.46	36.20250934	-107.77756670	
4,400.00	42.91	135.293	4,323.72	197.58	-168.13	1,892,992.60	2,739,567.25	36.20244604	-107.77748948	
4,417.35	44.65	135.293	4,336.25	189.05	-159.69	1,892,984.07	2,739,575.70	36.20242259	-107.77746087	
<b>MNCS_F</b>										
4,450.00	47.91	135.293	4,358.81	172.28	-143.09	1,892,967.30	2,739,592.30	36.20237650	-107.77740465	
4,500.00	52.91	135.293	4,390.66	144.91	-115.99	1,892,939.92	2,739,619.39	36.20230125	-107.77731286	
4,527.69	55.68	135.293	4,406.82	128.93	-100.17	1,892,923.94	2,739,635.21	36.20225734	-107.77725928	
<b>MNCS_G</b>										
4,550.00	57.91	135.293	4,419.04	115.66	-87.04	1,892,910.68	2,739,648.34	36.20222087	-107.77721479	
4,600.00	62.91	135.293	4,443.72	84.77	-56.46	1,892,879.78	2,739,678.92	36.20213596	-107.77711121	
4,608.35	63.75	135.293	4,447.47	79.46	-51.21	1,892,874.48	2,739,684.17	36.20212137	-107.77709342	
<b>MNCS_H</b>										
4,650.00	67.91	135.293	4,464.52	52.46	-24.49	1,892,847.48	2,739,710.89	36.20204717	-107.77700290	
4,670.88	70.00	135.293	4,472.01	38.61	-10.78	1,892,833.63	2,739,724.60	36.20200910	-107.77695646	
<b>Begin 10°/100' build</b>										
4,700.00	72.91	135.293	4,481.27	19.00	8.64	1,892,814.01	2,739,744.02	36.20195517	-107.77689068	



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Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,745.10	77.42	135.293	4,492.82	-11.98	39.30	1,892,783.04	2,739,774.68	36.20187002	-107.77678681
<b>MNCS_I</b>									
4,750.00	77.91	135.293	4,493.86	-15.38	42.67	1,892,779.63	2,739,778.05	36.20186067	-107.77677541
4,765.14	79.43	135.293	4,496.84	-25.93	53.11	1,892,769.08	2,739,788.49	36.20183167	-107.77674003
<b>7" Intermediate Casing</b>									
4,800.00	82.91	135.293	4,502.19	-50.41	77.34	1,892,744.61	2,739,812.72	36.20176439	-107.77665796
4,850.00	87.91	135.293	4,506.19	-85.82	112.39	1,892,709.20	2,739,847.77	36.20166706	-107.77653923
4,873.78	90.29	135.293	4,506.56	-102.72	129.12	1,892,692.30	2,739,864.50	36.20162061	-107.77648257
<b>Begin 2°/100' turn</b>									
4,900.00	90.29	134.769	4,506.43	-121.27	147.64	1,892,673.75	2,739,883.03	36.20156963	-107.77641980
5,000.00	90.29	132.769	4,505.92	-190.44	219.85	1,892,604.58	2,739,955.24	36.20137949	-107.77617519
5,107.93	90.29	130.610	4,505.37	-262.22	300.44	1,892,532.80	2,740,035.83	36.20118218	-107.77590218
<b>Begin 90.29° lateral</b>									
5,200.00	90.29	130.610	4,504.91	-322.15	370.34	1,892,472.87	2,740,105.72	36.20101744	-107.77566539
5,307.93	90.29	130.610	4,504.36	-392.40	452.27	1,892,402.62	2,740,187.66	36.20082432	-107.77538782
<b>Begin 2°/100' turn</b>									
5,400.00	90.29	132.451	4,503.90	-453.44	521.20	1,892,341.58	2,740,256.58	36.20065652	-107.77515435
5,500.00	90.29	134.451	4,503.39	-522.21	593.79	1,892,272.81	2,740,329.17	36.20046748	-107.77490846
5,542.06	90.29	135.293	4,503.18	-551.88	623.60	1,892,243.13	2,740,358.98	36.20038591	-107.77480748
<b>Begin 90.29° lateral</b>									
5,600.00	90.29	135.293	4,502.89	-593.06	664.35	1,892,201.96	2,740,399.73	36.20027273	-107.77466943
5,700.00	90.29	135.293	4,502.38	-664.13	734.70	1,892,130.89	2,740,470.08	36.20007737	-107.77443114
5,800.00	90.29	135.293	4,501.88	-735.20	805.05	1,892,059.82	2,740,540.43	36.19988202	-107.77419285
5,900.00	90.29	135.293	4,501.37	-806.27	875.40	1,891,988.75	2,740,610.78	36.19968666	-107.77395456
6,000.00	90.29	135.293	4,500.87	-877.34	945.74	1,891,917.68	2,740,681.12	36.19949131	-107.77371628
6,100.00	90.29	135.293	4,500.36	-948.41	1,016.09	1,891,846.61	2,740,751.47	36.19929595	-107.77347799
6,200.00	90.29	135.293	4,499.86	-1,019.48	1,086.44	1,891,775.54	2,740,821.82	36.19910060	-107.77323971
6,300.00	90.29	135.293	4,499.35	-1,090.55	1,156.79	1,891,704.47	2,740,892.17	36.19890524	-107.77300143
6,400.00	90.29	135.293	4,498.85	-1,161.62	1,227.13	1,891,633.40	2,740,962.51	36.19870988	-107.77276315
6,500.00	90.29	135.293	4,498.34	-1,232.69	1,297.48	1,891,562.33	2,741,032.86	36.19851453	-107.77252487
6,600.00	90.29	135.293	4,497.84	-1,303.76	1,367.83	1,891,491.26	2,741,103.21	36.19831917	-107.77228659
6,700.00	90.29	135.293	4,497.33	-1,374.83	1,438.18	1,891,420.19	2,741,173.56	36.19812381	-107.77204831
6,800.00	90.29	135.293	4,496.83	-1,445.90	1,508.52	1,891,349.12	2,741,243.90	36.19792845	-107.77181004
6,900.00	90.29	135.293	4,496.33	-1,516.97	1,578.87	1,891,278.05	2,741,314.25	36.19773309	-107.77157176
7,000.00	90.29	135.293	4,495.82	-1,588.04	1,649.22	1,891,206.98	2,741,384.60	36.19753773	-107.77133349
7,100.00	90.29	135.293	4,495.32	-1,659.11	1,719.57	1,891,135.91	2,741,454.95	36.19734237	-107.77109522
7,200.00	90.29	135.293	4,494.81	-1,730.18	1,789.91	1,891,064.84	2,741,525.29	36.19714701	-107.77085694
7,300.00	90.29	135.293	4,494.31	-1,801.25	1,860.26	1,890,993.77	2,741,595.64	36.19695165	-107.77061867
7,400.00	90.29	135.293	4,493.80	-1,872.32	1,930.61	1,890,922.70	2,741,665.99	36.19675629	-107.77038041
7,500.00	90.29	135.293	4,493.30	-1,943.39	2,000.96	1,890,851.63	2,741,736.34	36.19656092	-107.77014214
7,600.00	90.29	135.293	4,492.79	-2,014.46	2,071.30	1,890,780.56	2,741,806.68	36.19636556	-107.76990387
7,700.00	90.29	135.293	4,492.29	-2,085.53	2,141.65	1,890,709.49	2,741,877.03	36.19617020	-107.76966561
7,800.00	90.29	135.293	4,491.78	-2,156.60	2,212.00	1,890,638.42	2,741,947.38	36.19597484	-107.76942734
7,900.00	90.29	135.293	4,491.28	-2,227.67	2,282.35	1,890,567.35	2,742,017.73	36.19577947	-107.76918908
8,000.00	90.29	135.293	4,490.77	-2,298.74	2,352.69	1,890,496.28	2,742,088.07	36.19558411	-107.76895082
8,100.00	90.29	135.293	4,490.27	-2,369.81	2,423.04	1,890,425.21	2,742,158.42	36.19538874	-107.76871256
8,200.00	90.29	135.293	4,489.76	-2,440.88	2,493.39	1,890,354.14	2,742,228.77	36.19519338	-107.76847430
8,300.00	90.29	135.293	4,489.26	-2,511.95	2,563.74	1,890,283.07	2,742,299.11	36.19499801	-107.76823604
8,400.00	90.29	135.293	4,488.75	-2,583.02	2,634.08	1,890,212.00	2,742,369.46	36.19480264	-107.76799778
8,500.00	90.29	135.293	4,488.25	-2,654.09	2,704.43	1,890,140.93	2,742,439.81	36.19460728	-107.76775953
8,600.00	90.29	135.293	4,487.75	-2,725.16	2,774.78	1,890,069.86	2,742,510.16	36.19441191	-107.76752127
8,700.00	90.29	135.293	4,487.24	-2,796.23	2,845.13	1,889,998.79	2,742,580.50	36.19421654	-107.76728302
8,800.00	90.29	135.293	4,486.74	-2,867.30	2,915.47	1,889,927.72	2,742,650.85	36.19402117	-107.76704477
8,900.00	90.29	135.293	4,486.23	-2,938.37	2,985.82	1,889,856.65	2,742,721.20	36.19382580	-107.76680652



## Planning Report - Geographic



Database:	DT_Jul1724_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 44H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	North Reference:	Grid
Well:	Greater Lybrook Unit 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original 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	
9,000.00	90.29	135.293	4,485.73	-3,009.44	3,056.17	1,889,785.58	2,742,791.55	36.19363043	-107.76656827	
9,100.00	90.29	135.293	4,485.22	-3,080.52	3,126.52	1,889,714.51	2,742,861.89	36.19343506	-107.76633002	
9,200.00	90.29	135.293	4,484.72	-3,151.59	3,196.86	1,889,643.44	2,742,932.24	36.19323969	-107.76609177	
9,300.00	90.29	135.293	4,484.21	-3,222.66	3,267.21	1,889,572.37	2,743,002.59	36.19304432	-107.76585352	
9,400.00	90.29	135.293	4,483.71	-3,293.73	3,337.56	1,889,501.30	2,743,072.94	36.19284895	-107.76561528	
9,500.00	90.29	135.293	4,483.20	-3,364.80	3,407.91	1,889,430.23	2,743,143.28	36.19265358	-107.76537703	
9,600.00	90.29	135.293	4,482.70	-3,435.87	3,478.25	1,889,359.16	2,743,213.63	36.19245821	-107.76513879	
9,700.00	90.29	135.293	4,482.19	-3,506.94	3,548.60	1,889,288.09	2,743,283.98	36.19226283	-107.76490055	
9,800.00	90.29	135.293	4,481.69	-3,578.01	3,618.95	1,889,217.02	2,743,354.33	36.19206746	-107.76466231	
9,900.00	90.29	135.293	4,481.18	-3,649.08	3,689.30	1,889,145.95	2,743,424.67	36.19187209	-107.76442407	
10,000.00	90.29	135.293	4,480.68	-3,720.15	3,759.64	1,889,074.88	2,743,495.02	36.19167671	-107.76418583	
10,100.00	90.29	135.293	4,480.18	-3,791.22	3,829.99	1,889,003.81	2,743,565.37	36.19148134	-107.76394759	
10,200.00	90.29	135.293	4,479.67	-3,862.29	3,900.34	1,888,932.74	2,743,635.72	36.19128596	-107.76370936	
10,300.00	90.29	135.293	4,479.17	-3,933.36	3,970.69	1,888,861.67	2,743,706.06	36.19109059	-107.76347112	
10,400.00	90.29	135.293	4,478.66	-4,004.43	4,041.03	1,888,790.60	2,743,776.41	36.19089521	-107.76323289	
10,500.00	90.29	135.293	4,478.16	-4,075.50	4,111.38	1,888,719.53	2,743,846.76	36.19069983	-107.76299466	
10,600.00	90.29	135.293	4,477.65	-4,146.57	4,181.73	1,888,648.46	2,743,917.11	36.19050446	-107.76275643	
10,700.00	90.29	135.293	4,477.15	-4,217.64	4,252.08	1,888,577.39	2,743,987.45	36.19030908	-107.76251820	
10,800.00	90.29	135.293	4,476.64	-4,288.71	4,322.43	1,888,506.32	2,744,057.80	36.19011370	-107.76227997	
10,900.00	90.29	135.293	4,476.14	-4,359.78	4,392.77	1,888,435.25	2,744,128.15	36.18991832	-107.76204174	
11,000.00	90.29	135.293	4,475.63	-4,430.85	4,463.12	1,888,364.18	2,744,198.49	36.18972294	-107.76180352	
11,100.00	90.29	135.293	4,475.13	-4,501.92	4,533.47	1,888,293.11	2,744,268.84	36.18952756	-107.76156529	
11,200.00	90.29	135.293	4,474.62	-4,572.99	4,603.82	1,888,222.04	2,744,339.19	36.18933218	-107.76132707	
11,300.00	90.29	135.293	4,474.12	-4,644.06	4,674.16	1,888,150.97	2,744,409.54	36.18913680	-107.76108884	
11,400.00	90.29	135.293	4,473.61	-4,715.13	4,744.51	1,888,079.90	2,744,479.88	36.18894142	-107.76085062	
11,500.00	90.29	135.293	4,473.11	-4,786.20	4,814.86	1,888,008.83	2,744,550.23	36.18874604	-107.76061240	
11,600.00	90.29	135.293	4,472.60	-4,857.27	4,885.21	1,887,937.76	2,744,620.58	36.18855066	-107.76037418	
11,700.00	90.29	135.293	4,472.10	-4,928.34	4,955.55	1,887,866.69	2,744,690.93	36.18835528	-107.76013597	
11,800.00	90.29	135.293	4,471.60	-4,999.41	5,025.90	1,887,795.62	2,744,761.27	36.18815989	-107.75989775	
11,900.00	90.29	135.293	4,471.09	-5,070.48	5,096.25	1,887,724.55	2,744,831.62	36.18796451	-107.75965953	
12,000.00	90.29	135.293	4,470.59	-5,141.55	5,166.60	1,887,653.48	2,744,901.97	36.18776913	-107.75942132	
12,100.00	90.29	135.293	4,470.08	-5,212.62	5,236.94	1,887,582.41	2,744,972.32	36.18757374	-107.75918311	
12,200.00	90.29	135.293	4,469.58	-5,283.69	5,307.29	1,887,511.34	2,745,042.66	36.18737836	-107.75894489	
12,300.00	90.29	135.293	4,469.07	-5,354.76	5,377.64	1,887,440.27	2,745,113.01	36.18718297	-107.75870668	
12,400.00	90.29	135.293	4,468.57	-5,425.83	5,447.99	1,887,369.20	2,745,183.36	36.18698759	-107.75846847	
12,500.00	90.29	135.293	4,468.06	-5,496.90	5,518.33	1,887,298.13	2,745,253.71	36.18679220	-107.75823027	
12,600.00	90.29	135.293	4,467.56	-5,567.97	5,588.68	1,887,227.06	2,745,324.05	36.18659681	-107.75799206	
12,700.00	90.29	135.293	4,467.05	-5,639.04	5,659.03	1,887,155.99	2,745,394.40	36.18640143	-107.75775385	
12,800.00	90.29	135.293	4,466.55	-5,710.11	5,729.38	1,887,084.92	2,745,464.75	36.18620604	-107.75751565	
12,900.00	90.29	135.293	4,466.04	-5,781.18	5,799.72	1,887,013.85	2,745,535.10	36.18601065	-107.75727744	
13,000.00	90.29	135.293	4,465.54	-5,852.25	5,870.07	1,886,942.78	2,745,605.44	36.18581526	-107.75703924	
13,100.00	90.29	135.293	4,465.03	-5,923.32	5,940.42	1,886,871.71	2,745,675.79	36.18561987	-107.75680104	
13,200.00	90.29	135.293	4,464.53	-5,994.39	6,010.77	1,886,800.64	2,745,746.14	36.18542448	-107.75656284	
13,300.00	90.29	135.293	4,464.02	-6,065.46	6,081.11	1,886,729.57	2,745,816.49	36.18522909	-107.75632464	
13,400.00	90.29	135.293	4,463.52	-6,136.53	6,151.46	1,886,658.50	2,745,886.83	36.18503370	-107.75608644	
13,500.00	90.29	135.293	4,463.02	-6,207.60	6,221.81	1,886,587.43	2,745,957.18	36.18483831	-107.75584825	
13,600.00	90.29	135.293	4,462.51	-6,278.67	6,292.16	1,886,516.36	2,746,027.53	36.18464292	-107.75561005	
13,700.00	90.29	135.293	4,462.01	-6,349.74	6,362.50	1,886,445.29	2,746,097.88	36.18444753	-107.75531786	
13,800.00	90.29	135.293	4,461.50	-6,420.81	6,432.85	1,886,374.22	2,746,168.22	36.18425213	-107.75513366	
13,899.36	90.29	135.293	4,461.00	-6,491.43	6,502.75	1,886,303.60	2,746,238.12	36.18405800	-107.75489700	

PBHL/TD @ 13899.36 MD 4461.00 TVD



Database:	DT_Jul1724_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 44H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	North Reference:	Grid
Well:	Greater Lybrook Unit 44H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Design Targets										
Target Name		Dip Angle	Dip Dir.	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
- hit/miss target	- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
Greater Lybrook 44H LTI		0.00	0.000	4,461.00	-6,491.43	6,502.75	1,886,303.60	2,746,238.12	36.18405800	-107.75489700
- plan hits target center										
- Point										
Greater Lybrook 44H vs:		0.00	0.000	4,508.00	38.72	39.11	1,892,833.74	2,739,774.49	36.20200930	-107.77678736
- plan misses target center by 42.63ft at 4714.02ft MD (4485.23 TVD, 9.44 N, 18.10 E)										
- Point										
Greater Lybrook 44H FT		0.00	0.000	4,508.00	38.61	39.22	1,892,833.63	2,739,774.60	36.20200900	-107.77678700
- plan misses target center by 42.61ft at 4714.17ft MD (4485.27 TVD, 9.34 N, 18.20 E)										
- Point										

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
4,765.14	4,496.84	7" Intermediate Casing			7	8-3/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
174.00	174.00	Ojo Alamo		-0.290	135.293
289.00	289.00	Kirtland		-0.290	135.293
499.00	499.00	Fruitland		-0.290	135.293
894.00	894.00	Pictured Cliffs		-0.290	135.293
1,054.01	1,054.00	Lewis		-0.290	135.293
1,259.89	1,259.09	Chacra_A		-0.290	135.293
2,294.17	2,275.07	Cliff House_Basal		-0.290	135.293
2,306.40	2,287.08	Menefee		-0.290	135.293
3,312.77	3,276.02	Point Lookout		-0.290	135.293
3,482.35	3,445.08	Mancos		-0.290	135.293
3,813.36	3,776.09	MNCS_A		-0.290	135.293
3,913.36	3,876.09	MNCS_B		-0.290	135.293
4,000.37	3,963.08	MNCS_C		-0.290	135.293
4,043.53	4,006.06	MNCS_Cms		-0.290	135.293
4,180.83	4,138.89	MNCS_D		-0.290	135.293
4,347.24	4,283.48	MNCS_E		-0.290	135.293
4,417.35	4,336.25	MNCS_F		-0.290	135.293
4,527.69	4,406.82	MNCS_G		-0.290	135.293
4,608.35	4,447.47	MNCS_H		-0.290	135.293
4,745.10	4,492.82	MNCS_I		-0.290	135.293



## Planning Report - Geographic



<b>Database:</b>	DT_Jul1724_v17	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>North Reference:</b>	Grid
<b>Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev0		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			Comment
		+N/S (ft)	+E/W (ft)		
1,000.00	1,000.00	0.00	0.00		KOP Begin 3°/100' build
1,364.62	1,362.41	25.79	-23.22		Begin 10.94° tangent
3,172.65	3,137.59	280.76	-252.77		Begin 3°/100' drop
3,537.27	3,500.00	306.55	-275.99		Begin vertical hold
3,970.88	3,933.61	306.55	-275.99		Begin 10°/100' build
4,670.88	4,472.01	38.61	-10.78		Begin 10°/100' build
4,873.78	4,506.56	-102.72	129.12		Begin 2°/100' turn
5,107.93	4,505.37	-262.22	300.44		Begin 90.29° lateral
5,307.93	4,504.36	-392.40	452.27		Begin 2°/100' turn
5,542.06	4,503.18	-551.88	623.60		Begin 90.29° lateral
13,899.36	4,461.00	-6,491.43	6,502.75		PBHL/TD @ 13899.36 MD 4461.00 TVD



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	rev0		
<b>Filter type:</b>	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
<b>Interpolation Method:</b>	MD Interval 100.00ft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 1,589.94ft	<b>Error Surface:</b>	Ellipsoid Separation
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>		<b>Date</b>	8/29/2024	
<b>From</b> (ft)	<b>To</b> (ft)	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	13,899.13	rev0 (Original Hole)	MWD	OWSG MWD - Standard

<b>Summary</b>		<b>Reference</b>	<b>Offset</b>	<b>Distance</b>			<b>Separation</b>	<b>Warning</b>
<b>Site Name</b>		<b>Measured</b>	<b>Measured</b>	<b>Between</b>	<b>Between</b>	<b>Factor</b>		
<b>Offset Well - Wellbore - Design</b>								
Greater Lybrook Unit 730 (43,44,45,46&47)		Depth (ft)	Depth (ft)	Centres (ft)	Ellipses (ft)			
Greater Lybrook Unit 43H - Original Hole - rev0		1,000.00	1,000.00	20.02	13.02	2.860	CC, ES	
Greater Lybrook Unit 43H - Original Hole - rev0		13,300.00	12,946.93	715.44	417.81	2.404	SF	
Greater Lybrook Unit 45H - Original Hole - rev0		900.00	900.00	20.02	13.74	3.186	CC, ES	
Greater Lybrook Unit 45H - Original Hole - rev0		13,899.36	13,597.67	708.19	389.45	2.222	SF	
Greater Lybrook Unit 46H - Original Hole - rev0		700.00	700.00	40.05	35.20	8.257	CC, ES	
Greater Lybrook Unit 46H - Original Hole - rev0		13,899.36	14,097.16	1,154.76	723.58	2.678	SF	
Greater Lybrook Unit 47H - Original Hole - rev0		500.00	500.00	60.07	56.65	17.583	CC, ES	
Greater Lybrook Unit 47H - Original Hole - rev0		700.00	694.05	69.02	64.20	14.309	SF	
<b>W Lybrook 730 Pad (730, 763, 830, 861 &amp; 863)</b>								
W Lybrook Unit No. 730H - Original Hole - Surveys Origin		1,059.56	1,065.01	43.86	37.10	6.491	CC	
W Lybrook Unit No. 730H - Original Hole - Surveys Origin		1,100.00	1,104.91	44.09	37.06	6.267	ES	
W Lybrook Unit No. 730H - Original Hole - Surveys Origin		1,200.00	1,203.46	47.16	39.44	6.112	SF	
W Lybrook Unit No. 763H - Original Hole - Surveys Origin		1,010.40	1,016.08	29.31	22.95	4.613	CC, ES	
W Lybrook Unit No. 763H - Original Hole - Surveys Origin		4,828.20	4,887.89	58.82	24.79	1.728	Level 3<2.00, SF	
W Lybrook Unit No. 830H - Original Hole - Surveys Origin		1,153.70	1,159.46	33.71	26.33	4.569	CC	
W Lybrook Unit No. 830H - Original Hole - Surveys Origin		1,200.00	1,205.59	34.00	26.29	4.412	ES, SF	
W Lybrook Unit No. 861H - Original Hole - Surveys Origin		971.93	977.47	61.86	55.73	10.095	CC	
W Lybrook Unit No. 861H - Original Hole - Surveys Origin		1,000.00	1,004.99	61.98	55.66	9.804	ES	
W Lybrook Unit No. 861H - Original Hole - Surveys Origin		1,200.00	1,199.32	69.07	61.41	9.016	SF	
W Lybrook Unit No. 863H - Original Hole - Surveys Origin		729.40	734.93	35.07	30.68	7.991	CC	
W Lybrook Unit No. 863H - Original Hole - Surveys Origin		1,004.45	1,010.00	35.42	29.10	5.609	ES	
W Lybrook Unit No. 863H - Original Hole - Surveys Origin		1,100.00	1,105.49	37.94	30.95	5.429	SF	

<b>Offset Design:</b>	Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 43H - Original Hole - rev0	<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b>	0-MWD	<b>Offset Well Error:</b>	0.00 ft
<b>Reference</b>			
<b>Measured</b>	<b>Vertical</b>	<b>Offset</b>	<b>Distance</b>
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)
Reference	Major Axis	Semi Major Axis	Rule Assigned:
Measured Depth (ft)	Vertical Depth (ft)	Offset	Distance
		Highside Toolface (°)	Between Centres (ft)
		+N-S (ft)	Between Ellipses (ft)
		+E-W (ft)	Minimum Separation (ft)
			Separation Factor
			Warning

0.00	0.00	0.00	0.00	179.967	-20.02	0.01	20.02
100.00	100.00	100.00	100.00	179.967	-20.02	0.01	20.02
200.00	200.00	200.00	200.00	179.967	-20.02	0.01	20.02
300.00	300.00	300.00	300.00	179.967	-20.02	0.01	20.02
400.00	400.00	400.00	400.00	179.967	-20.02	0.01	20.02
500.00	500.00	500.00	500.00	179.967	-20.02	0.01	20.02

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 43H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning	
							+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
600.00	600.00	600.00	600.00	2.07	2.07	179.967	-20.02	0.01	20.02	15.89	4.13	4.844		
700.00	700.00	700.00	700.00	2.43	2.43	179.967	-20.02	0.01	20.02	15.17	4.85	4.128		
800.00	800.00	800.00	800.00	2.78	2.78	179.967	-20.02	0.01	20.02	14.45	5.57	3.596		
900.00	900.00	900.00	900.00	3.14	3.14	179.967	-20.02	0.01	20.02	13.74	6.28	3.186		
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	179.967	-20.02	0.01	20.02	13.02	7.00	2.860	CC, ES	
1,100.00	1,099.95	1,099.80	1,099.76	3.86	3.85	-135.836	-20.36	-2.57	22.32	14.62	7.71	2.897		
1,200.00	1,199.63	1,199.26	1,198.89	4.22	4.19	-131.308	-21.38	-10.28	29.35	20.94	8.41	3.491		
1,300.00	1,298.77	1,298.01	1,296.80	4.58	4.55	-127.164	-23.06	-22.99	41.23	32.11	9.12	4.521		
1,400.00	1,397.15	1,395.76	1,392.94	4.96	4.92	-124.020	-25.37	-40.49	57.74	47.89	9.85	5.862		
1,500.00	1,495.33	1,492.44	1,487.00	5.36	5.31	-119.647	-28.29	-62.58	76.91	66.32	10.59	7.263		
1,600.00	1,593.51	1,587.68	1,578.45	5.77	5.74	-114.515	-31.77	-88.92	98.72	87.39	11.33	8.713		
1,700.00	1,691.70	1,681.04	1,666.70	6.18	6.21	-109.430	-35.76	-119.10	123.74	111.68	12.06	10.257		
1,800.00	1,789.88	1,773.72	1,752.84	6.61	6.72	-104.742	-40.24	-153.00	152.19	139.38	12.80	11.886		
1,900.00	1,888.06	1,868.66	1,840.71	7.04	7.29	-101.196	-44.95	-188.64	182.00	168.37	13.63	13.357		
2,000.00	1,986.25	1,963.60	1,928.58	7.47	7.88	-98.648	-49.65	-224.27	212.27	197.80	14.47	14.672		
2,100.00	2,084.43	2,058.54	2,016.45	7.91	8.50	-96.734	-54.36	-259.91	242.83	227.50	15.33	15.844		
2,200.00	2,182.61	2,153.48	2,104.33	8.36	9.13	-95.247	-59.07	-295.55	273.58	257.38	16.20	16.889		
2,300.00	2,280.79	2,248.42	2,192.20	8.80	9.78	-94.060	-63.78	-331.18	304.47	287.38	17.08	17.824		
2,400.00	2,378.98	2,343.36	2,280.07	9.25	10.43	-93.092	-68.49	-366.82	335.45	317.48	17.97	18.664		
2,500.00	2,477.16	2,438.30	2,367.94	9.70	11.10	-92.287	-73.20	-402.45	366.50	347.63	18.87	19.420		
2,600.00	2,575.34	2,533.24	2,455.81	10.15	11.77	-91.607	-77.90	-438.09	397.61	377.84	19.78	20.104		
2,700.00	2,673.53	2,628.18	2,543.69	10.61	12.45	-91.026	-82.61	-473.72	428.77	408.08	20.69	20.725		
2,800.00	2,771.71	2,723.12	2,631.56	11.07	13.14	-90.524	-87.32	-509.36	459.95	438.35	21.60	21.291		
2,900.00	2,869.89	2,824.74	2,725.71	11.52	13.87	-90.076	-92.33	-547.25	491.00	468.38	22.61	21.713		
3,000.00	2,968.08	2,947.08	2,841.05	11.98	14.68	-89.986	-97.66	-587.63	518.46	494.59	23.86	21.727		
3,100.00	3,066.26	3,072.65	2,961.89	12.44	15.41	-90.420	-102.12	-621.38	540.84	515.77	25.07	21.573		
3,200.00	3,164.48	3,200.48	3,086.94	12.90	16.05	-91.443	-105.58	-647.57	558.03	531.81	26.21	21.288		
3,300.00	3,263.34	3,330.00	3,215.15	13.33	16.57	-92.670	-107.96	-665.59	569.87	542.66	27.21	20.940		
3,400.00	3,362.85	3,460.60	3,345.38	13.72	17.00	-93.557	-109.21	-675.00	576.17	548.12	28.05	20.538		
3,500.00	3,462.73	3,577.97	3,462.73	14.06	17.32	-94.056	-109.39	-676.41	577.33	548.59	28.74	20.088		
3,600.00	3,562.73	3,676.85	3,561.57	14.38	17.55	-136.246	-110.52	-675.29	577.40	548.06	29.34	19.680		
3,700.00	3,662.73	3,771.85	3,655.29	14.69	17.71	-137.719	-121.08	-664.84	578.04	548.08	29.96	19.295		
3,800.00	3,762.73	3,859.76	3,738.75	15.01	17.81	-140.420	-140.53	-645.58	580.57	549.97	30.59	18.976		
3,900.00	3,862.73	3,937.80	3,808.56	15.33	17.88	-143.810	-165.22	-621.15	587.06	555.88	31.18	18.829		
4,000.00	3,962.72	4,000.00	3,860.42	15.64	17.92	-77.207	-189.59	-597.03	599.58	568.05	31.53	19.018		
4,100.00	4,061.64	4,068.95	3,913.19	15.87	17.96	72.156	-221.08	-565.86	616.20	584.57	31.63	19.482		
4,200.00	4,156.67	4,130.77	3,955.67	16.03	17.99	67.802	-252.97	-534.29	634.59	603.18	31.40	20.207		
4,300.00	4,244.93	4,200.00	3,997.20	16.15	18.03	63.709	-292.30	-495.36	653.20	622.06	31.15	20.972		
4,400.00	4,323.72	4,250.00	4,022.89	16.30	18.06	60.796	-322.77	-465.20	670.46	639.85	30.61	21.900		
4,500.00	4,390.66	4,310.14	4,048.69	16.52	18.13	58.203	-361.36	-427.00	685.55	655.17	30.38	22.565		
4,600.00	4,443.72	4,368.71	4,068.21	16.90	18.22	56.287	-400.59	-388.17	697.57	667.13	30.44	22.919		
4,700.00	4,481.27	4,426.97	4,081.95	17.47	18.38	55.015	-440.81	-348.36	705.93	675.14	30.79	22.929		
4,800.00	4,502.19	4,485.04	4,089.85	18.27	18.64	54.377	-481.68	-307.91	710.23	678.59	31.64	22.447		
4,900.00	4,506.43	4,549.20	4,091.88	19.25	19.07	54.315	-527.22	-262.80	710.71	677.72	32.99	21.543		
5,000.00	4,505.92	4,674.44	4,091.11	20.45	20.44	54.299	-613.91	-172.43	710.83	675.47	35.36	20.103		
5,100.00	4,505.41	4,794.17	4,090.38	21.85	22.18	54.247	-693.08	-82.63	710.32	672.36	37.96	18.712		
5,170.40	4,505.06	4,864.57	4,089.95	22.94	23.35	54.235	-738.90	-29.18	710.26	670.45	39.81	17.842		
5,200.00	4,504.91	4,894.17	4,089.77	23.40	23.85	54.238	-758.16	-6.71	710.36	669.77	40.60	17.498		
5,204.45	4,504.89	4,898.62	4,089.74	23.48	23.92	54.238	-761.06	-3.33	710.37	669.64	40.72	17.445		
5,300.00	4,504.40	4,990.52	4,089.18	25.09	25.55	54.234	-820.91	66.41	710.47	667.09	43.37	16.380		
5,400.00	4,503.90	5,073.76	4,088.67	26.86	27.09	54.266	-876.38	128.47	711.00	664.88	46.12	15.416		
5,500.00	4,503.39	5,157.00	4,088.17	28.69	28.66	54.272	-933.64	188.88	711.08	662.16	48.91	14.538		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 43H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/S (ft)	+E/W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
5,589.69	4,502.94	5,236.62	4,087.69	30.37	30.18	54.281	-989.91	245.20	711.29	659.76	51.53	13.804		
5,600.00	4,502.89	5,246.93	4,087.63	30.56	30.38	54.261	-997.24	252.46	710.96	659.12	51.84	13.715		
5,700.00	4,502.38	5,346.93	4,087.02	32.49	32.34	54.254	-1,068.31	322.80	711.02	656.03	54.99	12.931		
5,800.00	4,501.88	5,446.93	4,086.42	34.46	34.34	54.248	-1,139.38	393.15	711.07	652.88	58.19	12.219		
5,900.00	4,501.37	5,546.93	4,085.82	36.47	36.38	54.242	-1,210.45	463.50	711.13	649.68	61.45	11.572		
6,000.00	4,500.87	5,646.93	4,085.21	38.51	38.44	54.235	-1,281.52	533.84	711.19	646.43	64.76	10.983		
6,100.00	4,500.36	5,746.93	4,084.61	40.58	40.53	54.229	-1,352.59	604.19	711.25	643.16	68.09	10.446		
6,200.00	4,499.86	5,846.93	4,084.01	42.66	42.64	54.222	-1,423.66	674.54	711.31	639.86	71.45	9.955		
6,300.00	4,499.35	5,946.93	4,083.40	44.77	44.77	54.216	-1,494.73	744.88	711.36	636.53	74.83	9.506		
6,400.00	4,498.85	6,046.93	4,082.80	46.90	46.92	54.209	-1,565.80	815.23	711.42	633.19	78.23	9.094		
6,500.00	4,498.34	6,146.93	4,082.20	49.04	49.07	54.203	-1,636.87	885.58	711.48	629.83	81.65	8.714		
6,600.00	4,497.84	6,246.93	4,081.59	51.19	51.24	54.196	-1,707.94	955.93	711.54	626.46	85.07	8.364		
6,700.00	4,497.33	6,346.93	4,080.99	53.36	53.42	54.190	-1,779.01	1,026.27	711.60	623.09	88.51	8.040		
6,800.00	4,496.83	6,446.93	4,080.39	55.53	55.60	54.184	-1,850.08	1,096.62	711.65	619.71	91.95	7.740		
6,900.00	4,496.33	6,546.93	4,079.78	57.72	57.80	54.177	-1,921.15	1,166.97	711.71	616.32	95.39	7.461		
7,000.00	4,495.82	6,646.93	4,079.18	59.91	60.00	54.171	-1,992.22	1,237.31	711.77	612.93	98.84	7.201		
7,100.00	4,495.32	6,746.93	4,078.58	62.11	62.21	54.164	-2,063.29	1,307.66	711.83	609.54	102.28	6.959		
7,200.00	4,494.81	6,846.93	4,077.97	64.31	64.42	54.158	-2,134.36	1,378.01	711.89	606.15	105.73	6.733		
7,300.00	4,494.31	6,946.93	4,077.37	66.52	66.64	54.152	-2,205.43	1,448.35	711.94	602.77	109.18	6.521		
7,400.00	4,493.80	7,046.93	4,076.77	68.74	68.87	54.145	-2,276.50	1,518.70	712.00	599.38	112.62	6.322		
7,500.00	4,493.30	7,146.93	4,076.16	70.96	71.09	54.139	-2,347.57	1,589.05	712.06	596.00	116.06	6.135		
7,600.00	4,492.79	7,246.93	4,075.56	73.19	73.33	54.132	-2,418.64	1,659.39	712.12	592.62	119.50	5.959		
7,700.00	4,492.29	7,346.93	4,074.96	75.42	75.56	54.126	-2,489.71	1,729.74	712.18	589.25	122.93	5.793		
7,800.00	4,491.78	7,446.93	4,074.35	77.65	77.80	54.119	-2,560.78	1,800.09	712.23	585.88	126.35	5.637		
7,900.00	4,491.28	7,546.93	4,073.75	79.88	80.04	54.113	-2,631.85	1,870.43	712.29	582.52	129.77	5.489		
8,000.00	4,490.77	7,646.93	4,073.15	82.12	82.29	54.107	-2,702.92	1,940.78	712.35	579.16	133.19	5.349		
8,100.00	4,490.27	7,746.93	4,072.54	84.36	84.53	54.100	-2,773.99	2,011.13	712.41	575.82	136.59	5.216		
8,200.00	4,489.76	7,846.93	4,071.94	86.61	86.78	54.094	-2,845.06	2,081.48	712.47	572.48	139.99	5.089		
8,300.00	4,489.26	7,946.93	4,071.34	88.85	89.03	54.087	-2,916.13	2,151.82	712.52	569.14	143.38	4.969		
8,400.00	4,488.75	8,046.93	4,070.73	91.10	91.28	54.081	-2,987.20	2,222.17	712.58	565.82	146.76	4.855		
8,500.00	4,488.25	8,146.93	4,070.13	93.35	93.54	54.075	-3,058.27	2,292.52	712.64	562.51	150.13	4.747		
8,600.00	4,487.75	8,246.93	4,069.53	95.61	95.79	54.068	-3,129.34	2,362.86	712.70	559.20	153.50	4.643		
8,700.00	4,487.24	8,346.93	4,068.92	97.86	98.05	54.062	-3,200.41	2,433.21	712.76	555.91	156.85	4.544		
8,800.00	4,486.74	8,446.93	4,068.32	100.12	100.31	54.055	-3,271.48	2,503.56	712.82	552.62	160.20	4.450		
8,900.00	4,486.23	8,546.93	4,067.72	102.37	102.57	54.049	-3,342.55	2,573.90	712.87	549.34	163.53	4.359		
9,000.00	4,485.73	8,646.93	4,067.11	104.63	104.83	54.043	-3,413.62	2,644.25	712.93	546.08	166.85	4.273		
9,100.00	4,485.22	8,746.93	4,066.51	106.89	107.10	54.036	-3,484.69	2,714.60	712.99	542.82	170.17	4.190		
9,200.00	4,484.72	8,846.93	4,065.91	109.15	109.36	54.030	-3,555.76	2,784.94	713.05	539.58	173.47	4.111		
9,300.00	4,484.21	8,946.93	4,065.30	111.41	111.62	54.023	-3,626.83	2,855.29	713.11	536.35	176.76	4.034		
9,400.00	4,483.71	9,046.93	4,064.70	113.68	113.89	54.017	-3,697.90	2,925.64	713.16	533.12	180.04	3.961		
9,500.00	4,483.20	9,146.93	4,064.10	115.94	116.16	54.011	-3,768.97	2,995.99	713.22	529.91	183.31	3.891		
9,600.00	4,482.70	9,246.93	4,063.49	118.21	118.43	54.004	-3,840.04	3,066.33	713.28	526.72	186.56	3.823		
9,700.00	4,482.19	9,346.93	4,062.89	120.47	120.69	53.998	-3,911.11	3,136.68	713.34	523.53	189.81	3.758		
9,800.00	4,481.69	9,446.93	4,062.29	122.74	122.96	53.991	-3,982.18	3,207.03	713.40	520.36	193.04	3.696		
9,900.00	4,481.18	9,546.93	4,061.68	125.01	125.23	53.985	-4,053.25	3,277.37	713.46	517.19	196.26	3.635		
10,000.00	4,480.68	9,646.93	4,061.08	127.28	127.50	53.979	-4,124.32	3,347.72	713.51	514.04	199.47	3.577		
10,100.00	4,480.18	9,746.93	4,060.48	129.55	129.78	53.972	-4,195.39	3,418.07	713.57	510.91	202.67	3.521		
10,200.00	4,479.67	9,846.93	4,059.87	131.82	132.05	53.966	-4,266.46	3,488.41	713.63	507.78	205.85	3.467		
10,300.00	4,479.17	9,946.93	4,059.27	134.09	134.32	53.959	-4,337.53	3,558.76	713.69	504.67	209.02	3.415		
10,400.00	4,478.66	10,046.93	4,058.67	136.36	136.59	53.953	-4,408.60	3,629.11	713.75	501.57	212.17	3.364		
10,500.00	4,478.16	10,146.93	4,058.06	138.63	138.87	53.947	-4,479.67	3,699.45	713.81	498.49	215.32	3.315		
10,600.00	4,477.65	10,246.93	4,057.46	140.91	141.14	53.940	-4,550.74	3,769.80	713.86	495.42	218.45	3.268		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 43H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (")	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,700.00	4,477.15	10,346.93	4,056.86	143.18	143.42	53.934	-4,621.81	3,840.15	713.92	492.36	221.56	3.222		
10,800.00	4,476.64	10,446.93	4,056.25	145.45	145.69	53.928	-4,692.88	3,910.49	713.98	489.31	224.67	3.178		
10,900.00	4,476.14	10,546.93	4,055.65	147.73	147.97	53.921	-4,763.95	3,980.84	714.04	486.28	227.76	3.135		
11,000.00	4,475.63	10,646.93	4,055.05	150.00	150.25	53.915	-4,835.02	4,051.19	714.10	483.27	230.83	3.094		
11,100.00	4,475.13	10,746.93	4,054.44	152.28	152.52	53.908	-4,906.09	4,121.54	714.16	480.26	233.89	3.053		
11,200.00	4,474.62	10,846.93	4,053.84	154.55	154.80	53.902	-4,977.16	4,191.88	714.21	477.27	236.94	3.014		
11,300.00	4,474.12	10,946.93	4,053.24	156.83	157.08	53.896	-5,048.23	4,262.23	714.27	474.30	239.97	2.976		
11,400.00	4,473.61	11,046.93	4,052.63	159.11	159.35	53.889	-5,119.30	4,332.58	714.33	471.34	242.99	2.940		
11,500.00	4,473.11	11,146.93	4,052.03	161.38	161.63	53.883	-5,190.37	4,402.92	714.39	468.39	246.00	2.904		
11,600.00	4,472.60	11,246.93	4,051.43	163.66	163.91	53.876	-5,261.44	4,473.27	714.45	465.46	248.99	2.869		
11,700.00	4,472.10	11,346.93	4,050.82	165.94	166.19	53.870	-5,332.51	4,543.62	714.51	462.54	251.97	2.836		
11,800.00	4,471.60	11,446.93	4,050.22	168.22	168.47	53.864	-5,403.58	4,613.96	714.56	459.63	254.93	2.803		
11,900.00	4,471.09	11,546.93	4,049.62	170.49	170.75	53.857	-5,474.65	4,684.31	714.62	456.74	257.88	2.771		
12,000.00	4,470.59	11,646.93	4,049.01	172.77	173.03	53.851	-5,545.72	4,754.66	714.68	453.87	260.81	2.740		
12,100.00	4,470.08	11,746.93	4,048.41	175.05	175.31	53.845	-5,616.79	4,825.00	714.74	451.01	263.73	2.710		
12,200.00	4,469.58	11,846.93	4,047.81	177.33	177.59	53.838	-5,687.86	4,895.35	714.80	448.16	266.64	2.681		
12,300.00	4,469.07	11,946.93	4,047.20	179.61	179.87	53.832	-5,758.93	4,965.70	714.86	445.33	269.53	2.652		
12,400.00	4,468.57	12,046.93	4,046.60	181.89	182.15	53.826	-5,830.00	5,036.05	714.92	442.51	272.40	2.624		
12,500.00	4,468.06	12,146.93	4,046.00	184.17	184.43	53.819	-5,901.07	5,106.39	714.97	439.71	275.26	2.597		
12,600.00	4,467.56	12,246.93	4,045.39	186.45	186.71	53.813	-5,972.14	5,176.74	715.03	436.92	278.11	2.571		
12,700.00	4,467.05	12,346.93	4,044.79	188.73	188.99	53.806	-6,043.21	5,247.09	715.09	434.15	280.94	2.545		
12,800.00	4,466.55	12,446.93	4,044.19	191.01	191.27	53.800	-6,114.28	5,317.43	715.15	431.39	283.76	2.520		
12,900.00	4,466.04	12,546.93	4,043.58	193.29	193.55	53.794	-6,185.35	5,387.78	715.21	428.65	286.56	2.496		
13,000.00	4,465.54	12,646.93	4,042.98	195.57	195.84	53.787	-6,256.42	5,458.13	715.27	425.92	289.35	2.472		
13,100.00	4,465.03	12,746.93	4,042.38	197.85	198.12	53.781	-6,327.49	5,528.47	715.32	423.20	292.12	2.449		
13,200.00	4,464.53	12,846.93	4,041.77	200.14	200.40	53.775	-6,398.56	5,598.82	715.38	420.50	294.88	2.426		
13,300.00	4,464.02	12,946.93	4,041.17	202.42	202.68	53.768	-6,469.63	5,669.17	715.44	417.81	297.63	2.404 SF		
13,400.00	4,463.52	12,974.92	4,041.00	204.70	203.32	53.766	-6,489.52	5,688.86	719.11	421.80	297.32	2.419		
13,500.00	4,463.02	12,974.92	4,041.00	206.98	203.32	53.766	-6,489.52	5,688.86	735.94	447.64	288.31	2.553		
13,600.00	4,462.51	12,974.92	4,041.00	209.26	203.32	53.766	-6,489.52	5,688.86	765.57	492.50	273.07	2.804		
13,700.00	4,462.01	12,974.92	4,041.00	211.54	203.32	53.766	-6,489.52	5,688.86	806.59	551.77	254.81	3.165		
13,800.00	4,461.50	12,974.92	4,041.00	213.83	203.32	53.766	-6,489.52	5,688.86	857.36	621.35	236.01	3.633		
13,899.36	4,461.00	12,974.92	4,041.00	216.10	203.32	53.766	-6,489.52	5,688.86	915.87	697.64	218.23	4.197		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
							+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.811	20.02	0.28	20.02				
100.00	100.00	100.00	100.00	0.27	0.27	0.811	20.02	0.28	20.02	19.47	0.55	36.508	
200.00	200.00	200.00	200.00	0.63	0.63	0.811	20.02	0.28	20.02	18.76	1.27	15.824	
300.00	300.00	300.00	300.00	0.99	0.99	0.811	20.02	0.28	20.02	18.04	1.98	10.101	
400.00	400.00	400.00	400.00	1.35	1.35	0.811	20.02	0.28	20.02	17.32	2.70	7.418	
500.00	500.00	500.00	500.00	1.71	1.71	0.811	20.02	0.28	20.02	16.61	3.42	5.861	
600.00	600.00	600.00	600.00	2.07	2.07	0.811	20.02	0.28	20.02	15.89	4.13	4.845	
700.00	700.00	700.00	700.00	2.43	2.43	0.811	20.02	0.28	20.02	15.17	4.85	4.128	
800.00	800.00	800.00	800.00	2.78	2.78	0.811	20.02	0.28	20.02	14.46	5.57	3.597	
900.00	900.00	900.00	900.00	3.14	3.14	0.811	20.02	0.28	20.02	13.74	6.28	3.186 CC, ES	
1,000.00	1,000.00	998.89	998.84	3.50	3.50	1.849	22.54	0.73	22.58	15.59	6.99	3.231	
1,100.00	1,099.95	1,097.37	1,097.01	3.86	3.85	49.505	30.06	2.05	28.52	20.84	7.67	3.716	
1,200.00	1,199.63	1,195.19	1,194.01	4.22	4.21	59.295	42.44	4.24	36.87	28.54	8.34	4.424	
1,300.00	1,298.77	1,292.06	1,289.32	4.58	4.57	69.222	59.51	7.24	48.83	39.84	9.00	5.428	
1,400.00	1,397.15	1,387.75	1,382.47	4.96	4.96	77.361	81.03	11.04	65.13	55.45	9.68	6.730	
1,500.00	1,495.33	1,482.09	1,473.12	5.36	5.37	81.392	106.71	15.56	86.30	75.93	10.37	8.323	
1,600.00	1,593.51	1,574.70	1,560.75	5.77	5.82	82.503	136.17	20.76	111.74	100.69	11.06	10.107	
1,700.00	1,691.70	1,668.39	1,648.11	6.18	6.30	82.343	169.51	26.63	140.51	128.70	11.80	11.904	
1,800.00	1,789.88	1,764.05	1,737.15	6.61	6.83	82.155	203.94	32.70	169.64	157.01	12.62	13.437	
1,900.00	1,888.06	1,859.71	1,826.19	7.04	7.37	82.022	238.38	38.77	198.77	185.31	13.46	14.766	
2,000.00	1,986.25	1,955.37	1,915.23	7.47	7.93	81.923	272.81	44.84	227.91	213.60	14.31	15.924	
2,100.00	2,084.43	2,051.03	2,004.28	7.91	8.51	81.846	307.24	50.91	257.05	241.87	15.17	16.939	
2,200.00	2,182.61	2,146.69	2,093.32	8.36	9.09	81.785	341.67	56.98	286.18	270.14	16.05	17.836	
2,300.00	2,280.79	2,242.35	2,182.36	8.80	9.68	81.736	376.11	63.05	315.32	298.40	16.92	18.631	
2,400.00	2,378.98	2,338.01	2,271.40	9.25	10.29	81.695	410.54	69.12	344.46	326.65	17.81	19.341	
2,500.00	2,477.16	2,433.67	2,360.45	9.70	10.89	81.660	444.97	75.19	373.60	354.89	18.70	19.977	
2,600.00	2,575.34	2,529.33	2,449.49	10.15	11.50	81.630	479.40	81.26	402.73	383.13	19.60	20.549	
2,700.00	2,673.53	2,624.99	2,538.53	10.61	12.12	81.604	513.84	87.33	431.87	411.37	20.50	21.068	
2,800.00	2,771.71	2,720.65	2,627.57	11.07	12.74	81.582	548.27	93.40	461.01	439.60	21.40	21.538	
2,900.00	2,869.89	2,816.31	2,716.62	11.52	13.36	81.562	582.70	99.47	490.15	467.83	22.31	21.967	
3,000.00	2,968.08	2,932.79	2,825.77	11.98	14.10	81.665	622.69	106.51	517.90	494.42	23.48	22.059	
3,100.00	3,066.26	3,060.30	2,947.80	12.44	14.83	82.210	659.05	112.92	540.43	515.72	24.71	21.874	
3,200.00	3,164.48	3,190.31	3,074.46	12.90	15.49	83.289	687.79	117.99	557.42	531.55	25.87	21.550	
3,300.00	3,263.34	3,322.13	3,204.62	13.33	16.05	84.522	708.19	121.58	569.21	542.33	26.89	21.172	
3,400.00	3,362.85	3,455.14	3,337.07	13.72	16.51	85.376	719.77	123.63	575.78	548.04	27.73	20.760	
3,500.00	3,462.73	3,580.84	3,462.73	14.06	16.87	85.850	722.48	124.10	577.15	548.73	28.42	20.307	
3,600.00	3,562.73	3,681.41	3,563.29	14.38	17.13	43.937	722.13	124.45	577.11	548.08	29.03	19.877	
3,700.00	3,662.73	3,781.97	3,662.89	14.69	17.31	45.220	712.94	133.54	576.95	547.31	29.64	19.463	
3,704.45	3,667.18	3,786.31	3,667.12	14.71	17.32	45.315	712.27	134.21	576.95	547.28	29.67	19.444	
3,800.00	3,762.73	3,875.37	3,752.06	15.01	17.41	47.942	693.45	152.84	577.67	547.40	30.27	19.083	
3,900.00	3,862.73	3,958.09	3,826.41	15.33	17.45	51.505	667.80	178.24	581.50	550.63	30.87	18.839	
4,000.00	3,962.72	4,029.39	3,885.76	15.64	17.44	-79.660	639.77	205.98	590.85	559.54	31.30	18.875	
4,100.00	4,061.64	4,100.00	3,939.26	15.87	17.42	-74.711	607.07	238.35	604.77	573.34	31.43	19.239	
4,200.00	4,156.67	4,159.99	3,979.98	16.03	17.38	-70.506	575.79	269.31	621.07	589.85	31.22	19.891	
4,300.00	4,244.93	4,222.70	4,017.38	16.15	17.32	-66.567	540.04	304.70	638.23	607.35	30.88	20.667	
4,400.00	4,323.72	4,284.26	4,048.54	16.30	17.27	-63.189	502.34	342.02	654.87	624.34	30.53	21.449	
4,500.00	4,390.66	4,350.00	4,075.32	16.52	17.20	-60.319	459.70	384.23	669.89	639.51	30.38	22.050	
4,600.00	4,443.72	4,400.00	4,091.00	16.90	17.14	-58.362	425.97	417.62	682.34	651.97	30.37	22.469	
4,700.00	4,481.27	4,464.71	4,105.03	17.47	17.03	-56.788	381.10	462.03	691.55	660.59	30.96	22.338	
4,800.00	4,502.19	4,524.09	4,111.58	18.27	17.29	-55.913	339.18	503.53	697.13	665.29	31.84	21.895	
4,900.00	4,506.43	4,592.14	4,112.35	19.25	18.07	-55.670	290.94	551.51	698.80	665.49	33.31	20.976	
5,000.00	4,505.92	4,675.37	4,111.78	20.45	19.14	-55.665	233.29	611.53	698.79	663.55	35.24	19.831	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
							+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,100.00	4,505.41	4,758.61	4,111.21	21.85	20.35	-55.632	177.39	673.21	698.29	660.85	37.43	18.654	
5,134.12	4,505.24	4,787.02	4,111.02	22.38	20.78	-55.621	158.73	694.62	698.16	659.92	38.24	18.258	
5,200.00	4,504.91	4,850.76	4,110.59	23.40	21.81	-55.612	117.26	743.03	698.19	658.24	39.95	17.478	
5,300.00	4,504.40	4,950.76	4,109.90	25.09	23.52	-55.603	52.23	818.99	698.34	655.59	42.75	16.335	
5,400.00	4,503.90	5,064.13	4,109.13	26.86	25.57	-55.622	-22.09	904.60	699.21	653.35	45.86	15.245	
5,500.00	4,503.39	5,189.37	4,108.28	28.69	27.90	-55.621	-107.73	995.96	699.75	650.58	49.17	14.231	
5,600.00	4,502.89	5,298.33	4,107.54	30.56	29.98	-55.601	-184.93	1,072.85	699.82	647.46	52.36	13.366	
5,700.00	4,502.38	5,398.33	4,106.85	32.49	31.93	-55.589	-256.00	1,143.20	699.92	644.36	55.56	12.598	
5,800.00	4,501.88	5,498.33	4,106.17	34.46	33.92	-55.577	-327.07	1,213.54	700.02	641.20	58.82	11.901	
5,900.00	4,501.37	5,598.33	4,105.49	36.47	35.94	-55.565	-398.14	1,283.89	700.12	637.99	62.13	11.268	
6,000.00	4,500.87	5,698.33	4,104.81	38.51	38.00	-55.553	-469.21	1,354.23	700.22	634.73	65.49	10.692	
6,100.00	4,500.36	5,798.33	4,104.13	40.58	40.08	-55.541	-540.28	1,424.58	700.32	631.44	68.88	10.167	
6,200.00	4,499.86	5,898.33	4,103.44	42.66	42.18	-55.529	-611.35	1,494.93	700.41	628.12	72.30	9.688	
6,300.00	4,499.35	5,998.33	4,102.76	44.77	44.29	-55.517	-682.42	1,565.27	700.51	624.78	75.74	9.249	
6,400.00	4,498.85	6,098.33	4,102.08	46.90	46.43	-55.505	-753.49	1,635.62	700.61	621.42	79.20	8.846	
6,500.00	4,498.34	6,198.33	4,101.40	49.04	48.58	-55.493	-824.56	1,705.97	700.71	618.04	82.67	8.476	
6,600.00	4,497.84	6,298.33	4,100.72	51.19	50.74	-55.481	-895.63	1,776.31	700.81	614.65	86.16	8.134	
6,700.00	4,497.33	6,398.33	4,100.03	53.36	52.91	-55.469	-966.70	1,846.66	700.91	611.26	89.66	7.818	
6,800.00	4,496.83	6,498.33	4,099.35	55.53	55.09	-55.457	-1,037.77	1,917.00	701.01	607.86	93.16	7.525	
6,900.00	4,496.33	6,598.33	4,098.67	57.72	57.27	-55.446	-1,108.84	1,987.35	701.11	604.45	96.67	7.253	
7,000.00	4,495.82	6,698.33	4,097.99	59.91	59.47	-55.434	-1,179.91	2,057.70	701.21	601.04	100.18	7.000	
7,100.00	4,495.32	6,798.33	4,097.31	62.11	61.67	-55.422	-1,250.97	2,128.04	701.31	597.63	103.69	6.764	
7,200.00	4,494.81	6,898.33	4,096.62	64.31	63.88	-55.410	-1,322.04	2,198.39	701.41	594.22	107.20	6.543	
7,300.00	4,494.31	6,998.33	4,095.94	66.52	66.09	-55.398	-1,393.11	2,268.73	701.51	590.81	110.71	6.337	
7,400.00	4,493.80	7,098.33	4,095.26	68.74	68.31	-55.386	-1,464.18	2,339.08	701.61	587.40	114.21	6.143	
7,500.00	4,493.30	7,198.33	4,094.58	70.96	70.54	-55.374	-1,535.25	2,409.43	701.71	584.00	117.72	5.961	
7,600.00	4,492.79	7,298.33	4,093.90	73.19	72.76	-55.362	-1,606.32	2,479.77	701.81	580.60	121.22	5.790	
7,700.00	4,492.29	7,398.33	4,093.21	75.42	74.99	-55.350	-1,677.39	2,550.12	701.91	577.20	124.71	5.628	
7,800.00	4,491.78	7,498.32	4,092.53	77.65	77.23	-55.338	-1,748.46	2,620.47	702.01	573.82	128.20	5.476	
7,900.00	4,491.28	7,598.32	4,091.85	79.88	79.47	-55.326	-1,819.53	2,690.81	702.12	570.43	131.68	5.332	
8,000.00	4,490.77	7,698.32	4,091.17	82.12	81.71	-55.314	-1,890.60	2,761.16	702.22	567.06	135.16	5.195	
8,100.00	4,490.27	7,798.32	4,090.48	84.36	83.95	-55.302	-1,961.67	2,831.50	702.32	563.69	138.63	5.066	
8,200.00	4,489.76	7,898.32	4,089.80	86.61	86.20	-55.290	-2,032.74	2,901.85	702.42	560.33	142.09	4.943	
8,300.00	4,489.26	7,998.32	4,089.12	88.85	88.44	-55.278	-2,103.81	2,972.20	702.52	556.97	145.54	4.827	
8,400.00	4,488.75	8,098.32	4,088.44	91.10	90.69	-55.266	-2,174.88	3,042.54	702.62	553.63	148.99	4.716	
8,500.00	4,488.25	8,198.32	4,087.76	93.35	92.94	-55.254	-2,245.95	3,112.89	702.72	550.29	152.42	4.610	
8,600.00	4,487.75	8,298.32	4,087.07	95.61	95.20	-55.243	-2,317.02	3,183.23	702.82	546.97	155.85	4.510	
8,700.00	4,487.24	8,398.32	4,086.39	97.86	97.45	-55.231	-2,388.09	3,253.58	702.92	543.65	159.27	4.413	
8,800.00	4,486.74	8,498.32	4,085.71	100.12	99.71	-55.219	-2,459.16	3,323.93	703.02	540.34	162.67	4.322	
8,900.00	4,486.23	8,598.32	4,085.03	102.37	101.97	-55.207	-2,530.23	3,394.27	703.12	537.05	166.07	4.234	
9,000.00	4,485.73	8,698.32	4,084.35	104.63	104.23	-55.195	-2,601.30	3,464.62	703.22	533.76	169.46	4.150	
9,100.00	4,485.22	8,798.32	4,083.66	106.89	106.49	-55.183	-2,672.37	3,534.97	703.32	530.49	172.83	4.069	
9,200.00	4,484.72	8,898.32	4,082.98	109.15	108.75	-55.171	-2,743.44	3,605.31	703.42	527.23	176.19	3.992	
9,300.00	4,484.21	8,998.32	4,082.30	111.41	111.01	-55.159	-2,814.51	3,675.66	703.52	523.98	179.55	3.918	
9,400.00	4,483.71	9,098.32	4,081.62	113.68	113.28	-55.147	-2,885.58	3,746.00	703.62	520.74	182.89	3.847	
9,500.00	4,483.20	9,198.32	4,080.94	115.94	115.54	-55.135	-2,956.65	3,816.35	703.72	517.51	186.22	3.779	
9,600.00	4,482.70	9,298.32	4,080.25	118.21	117.81	-55.124	-3,027.72	3,886.70	703.82	514.29	189.53	3.713	
9,700.00	4,482.19	9,398.32	4,079.57	120.47	120.08	-55.112	-3,098.79	3,957.04	703.93	511.09	192.84	3.650	
9,800.00	4,481.69	9,498.32	4,078.89	122.74	122.34	-55.100	-3,169.86	4,027.39	704.03	507.90	196.13	3.590	
9,900.00	4,481.18	9,598.32	4,078.21	125.01	124.61	-55.088	-3,240.93	4,097.74	704.13	504.72	199.41	3.531	
10,000.00	4,480.68	9,698.32	4,077.53	127.28	126.88	-55.076	-3,312.00	4,168.08	704.23	501.55	202.67	3.475	
10,100.00	4,480.18	9,798.32	4,076.84	129.55	129.15	-55.064	-3,383.07	4,238.43	704.33	498.40	205.93	3.420	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,200.00	4,479.67	9,898.32	4,076.16	131.82	131.42	-55.052	-3,454.14	4,308.77	704.43	495.26	209.17	3.368		
10,300.00	4,479.17	9,998.32	4,075.48	134.09	133.69	-55.040	-3,525.21	4,379.12	704.53	492.14	212.39	3.317		
10,400.00	4,478.66	10,098.32	4,074.80	136.36	135.97	-55.029	-3,596.28	4,449.47	704.63	489.03	215.60	3.268		
10,500.00	4,478.16	10,198.32	4,074.12	138.63	138.24	-55.017	-3,667.35	4,519.81	704.73	485.93	218.80	3.221		
10,600.00	4,477.65	10,298.32	4,073.43	140.91	140.51	-55.005	-3,738.42	4,590.16	704.83	482.84	221.99	3.175		
10,700.00	4,477.15	10,398.32	4,072.75	143.18	142.78	-54.993	-3,809.49	4,660.50	704.93	479.77	225.16	3.131		
10,800.00	4,476.64	10,498.32	4,072.07	145.45	145.06	-54.981	-3,880.56	4,730.85	705.04	476.72	228.32	3.088		
10,900.00	4,476.14	10,598.32	4,071.39	147.73	147.33	-54.969	-3,951.63	4,801.20	705.14	473.68	231.46	3.046		
11,000.00	4,475.63	10,698.32	4,070.71	150.00	149.61	-54.958	-4,022.70	4,871.54	705.24	470.65	234.59	3.006		
11,100.00	4,475.13	10,798.32	4,070.02	152.28	151.88	-54.946	-4,093.77	4,941.89	705.34	467.64	237.70	2.967		
11,200.00	4,474.62	10,898.32	4,069.34	154.55	154.16	-54.934	-4,164.84	5,012.24	705.44	464.64	240.80	2.930		
11,300.00	4,474.12	10,998.32	4,068.66	156.83	156.44	-54.922	-4,235.91	5,082.58	705.54	461.66	243.89	2.893		
11,400.00	4,473.61	11,098.32	4,067.98	159.11	158.71	-54.910	-4,306.98	5,152.93	705.64	458.69	246.96	2.857		
11,500.00	4,473.11	11,198.32	4,067.30	161.38	160.99	-54.898	-4,378.05	5,223.27	705.74	455.73	250.01	2.823		
11,600.00	4,472.60	11,298.32	4,066.61	163.66	163.27	-54.887	-4,449.12	5,293.62	705.85	452.79	253.05	2.789		
11,700.00	4,472.10	11,398.32	4,065.93	165.94	165.55	-54.875	-4,520.19	5,363.97	705.95	449.87	256.08	2.757		
11,800.00	4,471.60	11,498.32	4,065.25	168.22	167.82	-54.863	-4,591.26	5,434.31	706.05	446.96	259.09	2.725		
11,900.00	4,471.09	11,598.32	4,064.57	170.49	170.10	-54.851	-4,662.33	5,504.66	706.15	444.07	262.08	2.694		
12,000.00	4,470.59	11,698.32	4,063.89	172.77	172.38	-54.839	-4,733.40	5,575.00	706.25	441.19	265.06	2.664		
12,100.00	4,470.08	11,798.32	4,063.20	175.05	174.66	-54.828	-4,804.47	5,645.35	706.35	438.33	268.03	2.635		
12,200.00	4,469.58	11,898.32	4,062.52	177.33	176.94	-54.816	-4,875.54	5,715.70	706.46	435.48	270.97	2.607		
12,300.00	4,469.07	11,998.32	4,061.84	179.61	179.22	-54.804	-4,946.61	5,786.04	706.56	432.65	273.91	2.580		
12,400.00	4,468.57	12,098.32	4,061.16	181.89	181.50	-54.792	-5,017.68	5,856.39	706.66	429.83	276.83	2.553		
12,500.00	4,468.06	12,198.32	4,060.48	184.17	183.78	-54.780	-5,088.75	5,926.74	706.76	427.03	279.73	2.527		
12,600.00	4,467.56	12,298.32	4,059.79	186.45	186.06	-54.769	-5,159.82	5,997.08	706.86	424.25	282.62	2.501		
12,700.00	4,467.05	12,398.32	4,059.11	188.73	188.34	-54.757	-5,230.89	6,067.43	706.96	421.47	285.49	2.476		
12,800.00	4,466.55	12,498.32	4,058.43	191.01	190.62	-54.745	-5,301.96	6,137.77	707.07	418.72	288.35	2.452		
12,900.00	4,466.04	12,598.32	4,057.75	193.29	192.90	-54.733	-5,373.02	6,208.12	707.17	415.98	291.19	2.429		
13,000.00	4,465.54	12,698.32	4,057.07	195.57	195.18	-54.722	-5,444.09	6,278.47	707.27	413.26	294.01	2.406		
13,100.00	4,465.03	12,798.32	4,056.38	197.85	197.46	-54.710	-5,515.16	6,348.81	707.37	410.55	296.82	2.383		
13,200.00	4,464.53	12,898.32	4,055.70	200.14	199.75	-54.698	-5,586.23	6,419.16	707.47	407.86	299.62	2.361		
13,300.00	4,464.02	12,998.32	4,055.02	202.42	202.03	-54.686	-5,657.30	6,489.50	707.57	405.18	302.40	2.340		
13,400.00	4,463.52	13,098.32	4,054.34	204.70	204.31	-54.675	-5,728.37	6,559.85	707.68	402.51	305.16	2.319		
13,500.00	4,463.02	13,198.32	4,053.66	206.98	206.59	-54.663	-5,799.44	6,630.20	707.78	399.87	307.91	2.299		
13,600.00	4,462.51	13,298.32	4,052.97	209.26	208.87	-54.651	-5,870.51	6,700.54	707.88	397.24	310.64	2.279		
13,700.00	4,462.01	13,398.32	4,052.29	211.54	211.16	-54.639	-5,941.58	6,770.89	707.98	394.62	313.36	2.259		
13,800.00	4,461.50	13,498.32	4,051.61	213.83	213.44	-54.628	-6,012.65	6,841.24	708.08	392.02	316.07	2.240		
13,899.36	4,461.00	13,597.67	4,050.93	216.10	215.71	-54.616	-6,083.27	6,911.13	708.19	389.45	318.74	2.222 SF		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 46H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/S (ft)	+E/W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.811	40.04	0.57	40.05					
100.00	100.00	100.00	100.00	0.27	0.27	0.811	40.04	0.57	40.05	39.50	0.55	73.016		
200.00	200.00	200.00	200.00	0.63	0.63	0.811	40.04	0.57	40.05	38.78	1.27	31.647		
300.00	300.00	300.00	300.00	0.99	0.99	0.811	40.04	0.57	40.05	38.06	1.98	20.202		
400.00	400.00	400.00	400.00	1.35	1.35	0.811	40.04	0.57	40.05	37.35	2.70	14.836		
500.00	500.00	500.00	500.00	1.71	1.71	0.811	40.04	0.57	40.05	36.63	3.42	11.722		
600.00	600.00	600.00	600.00	2.07	2.07	0.811	40.04	0.57	40.05	35.91	4.13	9.689		
700.00	700.00	700.00	700.00	2.43	2.43	0.811	40.04	0.57	40.05	35.20	4.85	8.257 CC, ES		
800.00	800.00	798.04	797.99	2.78	2.78	2.200	42.32	1.63	42.40	36.85	5.56	7.631		
900.00	900.00	895.56	895.22	3.14	3.13	5.558	49.12	4.78	49.58	43.33	6.25	7.930		
1,000.00	1,000.00	992.07	990.93	3.50	3.48	9.379	60.26	9.95	61.75	54.82	6.93	8.912		
1,100.00	1,099.95	1,087.25	1,084.61	3.86	3.85	55.859	75.53	17.04	77.48	69.91	7.58	10.227		
1,200.00	1,199.63	1,180.86	1,175.80	4.22	4.23	61.527	94.66	25.92	95.92	87.72	8.20	11.701		
1,300.00	1,298.77	1,272.53	1,263.99	4.58	4.65	67.263	117.30	36.43	117.88	109.07	8.81	13.380		
1,400.00	1,397.15	1,361.96	1,348.79	4.96	5.09	72.663	143.06	48.39	144.00	134.59	9.41	15.299		
1,500.00	1,495.33	1,453.43	1,434.31	5.36	5.57	76.972	172.47	62.05	174.65	164.52	10.12	17.253		
1,600.00	1,593.51	1,547.76	1,522.37	5.77	6.11	80.080	203.15	76.29	206.37	195.46	10.91	18.914		
1,700.00	1,691.70	1,642.08	1,610.42	6.18	6.66	82.361	233.82	90.54	238.50	226.78	11.72	20.351		
1,800.00	1,789.88	1,736.41	1,698.47	6.61	7.22	84.102	264.49	104.78	270.89	258.35	12.54	21.597		
1,900.00	1,888.06	1,830.73	1,786.53	7.04	7.80	85.473	295.17	119.02	303.46	290.08	13.38	22.679		
2,000.00	1,986.25	1,925.06	1,874.58	7.47	8.38	86.578	325.84	133.26	336.15	321.92	14.23	23.624		
2,100.00	2,084.43	2,019.38	1,962.64	7.91	8.98	87.488	356.51	147.50	368.93	353.85	15.09	24.454		
2,200.00	2,182.61	2,113.70	2,050.69	8.36	9.58	88.249	387.19	161.74	401.79	385.84	15.95	25.187		
2,300.00	2,280.79	2,208.03	2,138.74	8.80	10.18	88.896	417.86	175.98	434.70	417.87	16.83	25.836		
2,400.00	2,378.98	2,302.35	2,226.80	9.25	10.79	89.451	448.53	190.22	467.65	449.94	17.70	26.415		
2,500.00	2,477.16	2,396.68	2,314.85	9.70	11.40	89.934	479.21	204.46	500.63	482.04	18.59	26.934		
2,600.00	2,575.34	2,491.00	2,402.91	10.15	12.02	90.357	509.88	218.71	533.65	514.17	19.48	27.401		
2,700.00	2,673.53	2,585.33	2,490.96	10.61	12.63	90.731	540.55	232.95	566.68	546.31	20.37	27.823		
2,800.00	2,771.71	2,679.65	2,579.01	11.07	13.25	91.063	571.23	247.19	599.74	578.47	21.26	28.207		
2,900.00	2,869.89	2,773.98	2,667.07	11.52	13.87	91.361	601.90	261.43	632.81	610.65	22.16	28.556		
3,000.00	2,968.08	2,868.30	2,755.12	11.98	14.49	91.629	632.57	275.67	665.89	642.83	23.06	28.876		
3,100.00	3,066.26	2,962.63	2,843.18	12.44	15.12	91.872	663.25	289.91	698.99	675.02	23.96	29.169		
3,200.00	3,164.48	3,056.96	2,931.24	12.90	15.74	92.365	693.92	304.15	732.09	707.22	24.87	29.441		
3,300.00	3,263.34	3,151.35	3,019.35	13.33	16.37	93.292	724.62	318.41	765.03	739.31	25.72	29.740		
3,400.00	3,362.85	3,245.62	3,107.36	13.72	17.00	93.823	755.27	332.64	797.72	771.20	26.52	30.081		
3,500.00	3,462.73	3,339.51	3,195.00	14.06	17.62	94.011	785.80	346.81	830.18	802.93	27.25	30.467		
3,600.00	3,562.73	3,432.91	3,282.19	14.38	18.24	95.335	816.18	360.92	862.59	834.67	27.93	30.886		
3,700.00	3,662.73	3,526.26	3,369.34	14.69	18.87	95.325	846.53	375.01	895.24	866.64	28.61	31.295		
3,800.00	3,762.73	3,619.61	3,456.48	15.01	19.49	95.386	876.89	389.10	928.13	898.84	29.29	31.690		
3,900.00	3,862.73	3,712.97	3,543.63	15.33	20.12	95.509	907.25	403.20	961.23	931.26	29.97	32.072		
4,000.00	3,962.72	3,806.21	3,630.68	15.64	20.74	-88.621	937.57	417.28	994.48	963.84	30.65	32.452		
4,100.00	4,061.64	3,896.84	3,715.28	15.87	21.35	-84.655	967.04	430.96	1,027.32	996.15	31.17	32.955		
4,200.00	4,156.67	3,981.72	3,794.52	16.03	21.91	-83.394	994.64	443.78	1,059.80	1,028.24	31.55	33.587		
4,300.00	4,244.93	4,058.27	3,865.98	16.15	22.43	-82.459	1,019.54	455.33	1,092.62	1,060.79	31.83	34.330		
4,400.00	4,323.72	4,154.89	3,956.58	16.30	23.06	-82.595	1,048.42	472.05	1,126.30	1,093.95	32.34	34.824		
4,500.00	4,390.66	4,318.13	4,110.04	16.52	23.92	-84.918	1,069.49	521.79	1,157.75	1,124.36	33.38	34.680		
4,600.00	4,443.72	4,538.34	4,299.11	16.90	24.61	-88.055	1,038.03	627.29	1,182.00	1,147.51	34.49	34.268		
4,700.00	4,481.27	4,892.27	4,499.16	17.47	24.95	-90.908	860.35	850.14	1,190.09	1,154.08	36.01	33.048		
4,800.00	4,502.19	4,995.85	4,522.88	18.27	25.08	-91.006	788.79	920.97	1,190.13	1,152.65	37.48	31.756		
4,900.00	4,506.43	5,098.99	4,528.44	19.25	25.38	-91.063	715.68	993.34	1,190.03	1,150.69	39.34	30.252		
5,000.00	4,505.92	5,198.95	4,527.92	20.45	25.88	-91.075	644.64	1,063.66	1,187.37	1,145.76	41.61	28.538		
5,100.00	4,505.41	5,298.75	4,527.39	21.85	26.61	-91.092	573.71	1,133.87	1,181.23	1,136.97	44.26	26.690		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 46H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (")	Offset Wellbore Centre		Rule Assigned:				Warning
							+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,200.00	4,504.91	5,398.42	4,526.87	23.40	27.59	-91.100	502.88	1,203.98	1,173.07	1,125.87	47.21	24.850	
5,300.00	4,504.40	5,498.09	4,526.34	25.09	28.77	-91.107	432.04	1,274.10	1,164.91	1,114.52	50.40	23.114	
5,400.00	4,503.90	5,597.86	4,525.82	26.86	30.13	-91.100	361.14	1,344.29	1,158.23	1,104.42	53.80	21.527	
5,500.00	4,503.39	5,697.80	4,525.29	28.69	31.63	-91.091	290.11	1,414.59	1,155.02	1,097.65	57.36	20.136	
5,597.88	4,502.90	5,795.68	4,524.78	30.52	33.20	-91.086	220.55	1,483.44	1,154.28	1,093.32	60.96	18.936	
5,600.00	4,502.89	5,797.80	4,524.77	30.56	33.24	-91.086	219.04	1,484.94	1,154.71	1,093.67	61.04	18.918	
5,700.00	4,502.38	5,897.80	4,524.24	32.49	34.94	-91.085	147.97	1,555.29	1,154.71	1,089.88	64.83	17.811	
5,800.00	4,501.88	5,997.80	4,523.72	34.46	36.72	-91.084	76.90	1,625.64	1,154.71	1,085.99	68.72	16.804	
5,900.00	4,501.37	6,097.80	4,523.19	36.47	38.55	-91.083	5.83	1,695.99	1,154.71	1,082.03	72.68	15.887	
6,000.00	4,500.87	6,197.80	4,522.67	38.51	40.44	-91.082	-65.24	1,766.33	1,154.71	1,077.99	76.72	15.051	
6,100.00	4,500.36	6,297.80	4,522.14	40.58	42.36	-91.081	-136.31	1,836.68	1,154.71	1,073.90	80.81	14.289	
6,200.00	4,499.86	6,397.80	4,521.61	42.66	44.33	-91.080	-207.38	1,907.03	1,154.71	1,069.76	84.95	13.592	
6,300.00	4,499.35	6,497.80	4,521.09	44.77	46.32	-91.079	-278.45	1,977.38	1,154.71	1,065.57	89.14	12.954	
6,400.00	4,498.85	6,597.80	4,520.56	46.90	48.35	-91.077	-349.51	2,047.73	1,154.71	1,061.35	93.36	12.368	
6,500.00	4,498.34	6,697.80	4,520.04	49.04	50.39	-91.076	-420.58	2,118.07	1,154.71	1,057.10	97.62	11.829	
6,600.00	4,497.84	6,797.80	4,519.51	51.19	52.46	-91.075	-491.65	2,188.42	1,154.71	1,052.81	101.90	11.332	
6,700.00	4,497.33	6,897.80	4,518.98	53.36	54.54	-91.074	-562.72	2,258.77	1,154.71	1,048.51	106.21	10.872	
6,800.00	4,496.83	6,997.80	4,518.46	55.53	56.64	-91.073	-633.79	2,329.12	1,154.71	1,044.18	110.53	10.447	
6,900.00	4,496.33	7,097.80	4,517.93	57.72	58.76	-91.072	-704.86	2,399.47	1,154.72	1,039.83	114.88	10.051	
7,000.00	4,495.82	7,197.80	4,517.41	59.91	60.89	-91.071	-775.93	2,469.82	1,154.72	1,035.47	119.25	9.683	
7,100.00	4,495.32	7,297.80	4,516.88	62.11	63.03	-91.070	-847.00	2,540.16	1,154.72	1,031.09	123.63	9.340	
7,200.00	4,494.81	7,397.80	4,516.35	64.31	65.17	-91.069	-918.07	2,610.51	1,154.72	1,026.69	128.02	9.020	
7,300.00	4,494.31	7,497.80	4,515.83	66.52	67.33	-91.068	-989.14	2,680.86	1,154.72	1,022.29	132.43	8.719	
7,400.00	4,493.80	7,597.80	4,515.30	68.74	69.50	-91.067	-1,060.21	2,751.21	1,154.72	1,017.87	136.85	8.438	
7,500.00	4,493.30	7,697.80	4,514.78	70.96	71.67	-91.066	-1,131.28	2,821.56	1,154.72	1,013.44	141.28	8.173	
7,600.00	4,492.79	7,797.80	4,514.25	73.19	73.86	-91.065	-1,202.35	2,891.90	1,154.72	1,009.00	145.72	7.924	
7,700.00	4,492.29	7,897.80	4,513.73	75.42	76.04	-91.064	-1,273.42	2,962.25	1,154.72	1,004.56	150.16	7.690	
7,800.00	4,491.78	7,997.80	4,513.20	77.65	78.24	-91.063	-1,344.49	3,032.60	1,154.72	1,000.11	154.62	7.468	
7,900.00	4,491.28	8,097.80	4,512.67	79.88	80.44	-91.062	-1,415.56	3,102.95	1,154.72	995.65	159.08	7.259	
8,000.00	4,490.77	8,197.80	4,512.15	82.12	82.64	-91.061	-1,486.62	3,173.30	1,154.72	991.18	163.54	7.061	
8,100.00	4,490.27	8,297.80	4,511.62	84.36	84.85	-91.060	-1,557.69	3,243.65	1,154.72	986.71	168.02	6.873	
8,200.00	4,489.76	8,397.80	4,511.10	86.61	87.06	-91.059	-1,628.76	3,313.99	1,154.72	982.23	172.50	6.694	
8,300.00	4,489.26	8,497.80	4,510.57	88.85	89.28	-91.057	-1,699.83	3,384.34	1,154.72	977.75	176.98	6.525	
8,400.00	4,488.75	8,597.80	4,510.04	91.10	91.50	-91.056	-1,770.90	3,454.69	1,154.73	973.26	181.47	6.363	
8,500.00	4,488.25	8,697.80	4,509.52	93.35	93.72	-91.055	-1,841.97	3,525.04	1,154.73	968.77	185.96	6.210	
8,600.00	4,487.75	8,797.80	4,508.99	95.61	95.95	-91.054	-1,913.04	3,595.39	1,154.73	964.27	190.46	6.063	
8,700.00	4,487.24	8,897.80	4,508.47	97.86	98.17	-91.053	-1,984.11	3,665.73	1,154.73	959.77	194.96	5.923	
8,800.00	4,486.74	8,997.80	4,507.94	100.12	100.41	-91.052	-2,055.18	3,736.08	1,154.73	955.27	199.46	5.789	
8,900.00	4,486.23	9,097.80	4,507.41	102.37	102.64	-91.051	-2,126.25	3,806.43	1,154.73	950.76	203.97	5.661	
9,000.00	4,485.73	9,197.80	4,506.89	104.63	104.88	-91.050	-2,197.32	3,876.78	1,154.73	946.25	208.48	5.539	
9,100.00	4,485.22	9,297.80	4,506.36	106.89	107.12	-91.049	-2,268.39	3,947.13	1,154.73	941.74	212.99	5.421	
9,200.00	4,484.72	9,397.80	4,505.84	109.15	109.36	-91.048	-2,339.46	4,017.48	1,154.73	937.22	217.51	5.309	
9,300.00	4,484.21	9,497.80	4,505.31	111.41	111.60	-91.047	-2,410.53	4,087.82	1,154.73	932.70	222.03	5.201	
9,400.00	4,483.71	9,597.80	4,504.79	113.68	113.85	-91.046	-2,481.60	4,158.17	1,154.73	928.18	226.55	5.097	
9,500.00	4,483.20	9,697.80	4,504.26	115.94	116.09	-91.045	-2,552.66	4,228.52	1,154.73	923.66	231.07	4.997	
9,600.00	4,482.70	9,797.80	4,503.73	118.21	118.34	-91.044	-2,623.73	4,298.87	1,154.73	919.14	235.60	4.901	
9,700.00	4,482.19	9,897.80	4,503.21	120.47	120.59	-91.043	-2,694.80	4,369.22	1,154.73	914.61	240.12	4.809	
9,800.00	4,481.69	9,997.80	4,502.68	122.74	122.84	-91.042	-2,765.87	4,439.57	1,154.73	910.08	244.65	4.720	
9,900.00	4,481.18	10,097.80	4,502.16	125.01	125.09	-91.041	-2,836.94	4,509.91	1,154.73	905.55	249.18	4.634	
10,000.00	4,480.68	10,197.80	4,501.63	127.28	127.35	-91.040	-2,908.01	4,580.26	1,154.74	901.02	253.72	4.551	
10,100.00	4,480.18	10,297.80	4,501.10	129.55	129.60	-91.039	-2,979.08	4,650.61	1,154.74	896.49	258.25	4.471	
10,200.00	4,479.67	10,397.80	4,500.58	131.82	131.86	-91.037	-3,050.15	4,720.96	1,154.74	891.95	262.79	4.394	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 46H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
10,300.00	4,479.17	10,497.80	4,500.05	134.09	134.12	-91.036	-3,121.22	4,791.31	1,154.74	887.41	267.32	4.320		
10,400.00	4,478.66	10,597.80	4,499.53	136.36	136.38	-91.035	-3,192.29	4,861.65	1,154.74	882.88	271.86	4.248		
10,500.00	4,478.16	10,697.80	4,499.00	138.63	138.64	-91.034	-3,263.36	4,932.00	1,154.74	878.34	276.40	4.178		
10,600.00	4,477.65	10,797.80	4,498.47	140.91	140.90	-91.033	-3,334.43	5,002.35	1,154.74	873.80	280.94	4.110		
10,700.00	4,477.15	10,897.80	4,497.95	143.18	143.16	-91.032	-3,405.50	5,072.70	1,154.74	869.26	285.48	4.045		
10,800.00	4,476.64	10,997.80	4,497.42	145.45	145.42	-91.031	-3,476.57	5,143.05	1,154.74	864.71	290.03	3.982		
10,900.00	4,476.14	11,097.80	4,496.90	147.73	147.68	-91.030	-3,547.64	5,213.40	1,154.74	860.17	294.57	3.920		
11,000.00	4,475.63	11,197.80	4,496.37	150.00	149.95	-91.029	-3,618.71	5,283.74	1,154.74	855.63	299.11	3.861		
11,100.00	4,475.13	11,297.80	4,495.85	152.28	152.21	-91.028	-3,689.77	5,354.09	1,154.74	851.08	303.66	3.803		
11,200.00	4,474.62	11,397.80	4,495.32	154.55	154.48	-91.027	-3,760.84	5,424.44	1,154.74	846.54	308.21	3.747		
11,300.00	4,474.12	11,497.80	4,494.79	156.83	156.74	-91.026	-3,831.91	5,494.79	1,154.74	841.99	312.76	3.692		
11,400.00	4,473.61	11,597.80	4,494.27	159.11	159.01	-91.025	-3,902.98	5,565.14	1,154.74	837.44	317.30	3.639		
11,500.00	4,473.11	11,697.80	4,493.74	161.38	161.28	-91.024	-3,974.05	5,635.48	1,154.74	832.89	321.85	3.588		
11,600.00	4,472.60	11,797.80	4,493.22	163.66	163.55	-91.023	-4,045.12	5,705.83	1,154.75	828.34	326.40	3.538		
11,700.00	4,472.10	11,897.80	4,492.69	165.94	165.82	-91.022	-4,116.19	5,776.18	1,154.75	823.79	330.96	3.489		
11,800.00	4,471.60	11,997.80	4,492.16	168.22	168.09	-91.021	-4,187.26	5,846.53	1,154.75	819.24	335.51	3.442		
11,900.00	4,471.09	12,097.80	4,491.64	170.49	170.36	-91.020	-4,258.33	5,916.88	1,154.75	814.69	340.06	3.396		
12,000.00	4,470.59	12,197.80	4,491.11	172.77	172.63	-91.019	-4,329.40	5,987.23	1,154.75	810.14	344.61	3.351		
12,100.00	4,470.08	12,297.80	4,490.59	175.05	174.90	-91.017	-4,400.47	6,057.57	1,154.75	805.58	349.17	3.307		
12,200.00	4,469.58	12,397.80	4,490.06	177.33	177.17	-91.016	-4,471.54	6,127.92	1,154.75	801.03	353.72	3.265		
12,300.00	4,469.07	12,497.80	4,489.53	179.61	179.44	-91.015	-4,542.61	6,198.27	1,154.75	796.47	358.28	3.223		
12,400.00	4,468.57	12,597.80	4,489.01	181.89	181.71	-91.014	-4,613.68	6,268.62	1,154.75	791.92	362.83	3.183		
12,500.00	4,468.06	12,697.80	4,488.48	184.17	183.98	-91.013	-4,684.75	6,338.97	1,154.75	787.37	367.39	3.143		
12,600.00	4,467.56	12,797.80	4,487.96	186.45	186.26	-91.012	-4,755.82	6,409.31	1,154.75	782.81	371.94	3.105		
12,700.00	4,467.05	12,897.80	4,487.43	188.73	188.53	-91.011	-4,826.88	6,479.66	1,154.75	778.25	376.50	3.067		
12,800.00	4,466.55	12,997.80	4,486.91	191.01	190.81	-91.010	-4,897.95	6,550.01	1,154.75	773.70	381.06	3.030		
12,900.00	4,466.04	13,097.80	4,486.38	193.29	193.08	-91.009	-4,969.02	6,620.36	1,154.75	769.14	385.61	2.995		
13,000.00	4,465.54	13,197.80	4,485.85	195.57	195.35	-91.008	-5,040.09	6,690.71	1,154.75	764.58	390.17	2.960		
13,100.00	4,465.03	13,297.80	4,485.33	197.85	197.63	-91.007	-5,111.16	6,761.06	1,154.76	760.02	394.73	2.925		
13,200.00	4,464.53	13,397.80	4,484.80	200.14	199.90	-91.006	-5,182.23	6,831.40	1,154.76	755.47	399.29	2.892		
13,300.00	4,464.02	13,497.80	4,484.28	202.42	202.18	-91.005	-5,253.30	6,901.75	1,154.76	750.91	403.85	2.859		
13,400.00	4,463.52	13,597.80	4,483.75	204.70	204.46	-91.004	-5,324.37	6,972.10	1,154.76	746.35	408.41	2.827		
13,500.00	4,463.02	13,697.80	4,483.22	206.98	206.73	-91.003	-5,395.44	7,042.45	1,154.76	741.79	412.97	2.796		
13,600.00	4,462.51	13,797.80	4,482.70	209.26	209.01	-91.002	-5,466.51	7,112.80	1,154.76	737.23	417.53	2.766		
13,700.00	4,462.01	13,897.80	4,482.17	211.54	211.29	-91.001	-5,537.58	7,183.15	1,154.76	732.67	422.09	2.736		
13,800.00	4,461.50	13,997.80	4,481.65	213.83	213.56	-91.000	-5,608.65	7,253.49	1,154.76	728.11	426.65	2.707		
13,899.36	4,461.00	14,097.16	4,481.12	216.10	215.83	-90.999	-5,679.26	7,323.39	1,154.76	723.58	431.18	2.678 SF		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 47H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:			Warning	
							+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.530	60.06	0.56	60.07	59.52	0.55	109.518		
100.00	100.00	100.00	100.00	0.27	0.27	0.530	60.06	0.56	60.07	58.80	1.27	47.468		
200.00	200.00	200.00	200.00	0.63	0.63	0.530	60.06	0.56	60.07	58.08	1.98	30.301		
300.00	300.00	300.00	300.00	0.99	0.99	0.530	60.06	0.56	60.07	57.37	2.70	22.253		
400.00	400.00	400.00	400.00	1.35	1.35	0.530	60.06	0.56	60.07	56.65	3.42	17.583 CC, ES		
500.00	500.00	500.00	500.00	1.71	1.71	0.530	60.06	0.56	60.07	55.94	4.12	15.105		
600.00	600.00	597.28	597.23	2.07	2.06	1.687	62.19	1.83	62.27	58.15	4.82	14.309 SF		
700.00	700.00	694.05	693.72	2.43	2.41	4.699	68.51	5.63	69.02	64.20	5.51	14.613		
800.00	800.00	789.84	788.73	2.78	2.76	8.555	78.88	11.87	80.56	75.04	6.18	15.690		
900.00	900.00	884.18	881.59	3.14	3.13	12.362	93.07	20.40	97.04	90.85	7.85	16.731		
1,000.00	1,000.00	976.66	971.72	3.50	3.52	15.655	110.78	31.04	118.47	111.63	8.64	17.331		
1,100.00	1,099.95	1,067.08	1,058.78	3.86	3.95	60.521	131.69	43.62	143.48	136.02	9.46	19.242		
1,200.00	1,199.63	1,155.25	1,142.48	4.22	4.40	63.932	155.46	57.91	171.14	163.10	10.05	21.271		
1,300.00	1,298.77	1,240.88	1,222.44	4.58	4.88	67.401	181.68	73.67	201.95	193.33	8.62	23.430		
1,400.00	1,397.15	1,323.71	1,298.41	4.96	5.39	70.967	209.95	90.67	236.36	227.17	9.19	25.706		
1,500.00	1,495.33	1,400.00	1,367.06	5.36	5.90	74.111	238.47	107.81	275.50	265.78	9.72	28.345		
1,600.00	1,593.51	1,481.56	1,438.92	5.77	6.50	76.646	271.52	127.68	318.99	308.62	10.37	30.771		
1,700.00	1,691.70	1,569.88	1,515.93	6.18	7.18	78.714	308.58	149.97	364.56	353.41	11.15	32.698		
1,800.00	1,789.88	1,658.21	1,592.94	6.61	7.88	80.327	345.64	172.25	410.43	398.48	11.95	34.343		
1,900.00	1,888.06	1,746.53	1,669.95	7.04	8.59	81.618	382.71	194.53	456.51	443.75	12.77	35.754		
2,000.00	1,986.25	1,834.85	1,746.96	7.47	9.32	82.674	419.77	216.81	502.74	489.15	13.60	36.971		
2,100.00	2,084.43	1,923.18	1,823.97	7.91	10.05	83.553	456.83	239.10	549.09	534.65	14.44	38.025		
2,200.00	2,182.61	2,011.50	1,900.99	8.36	10.79	84.296	493.90	261.38	595.52	580.22	15.29	38.945		
2,300.00	2,280.79	2,099.82	1,978.00	8.80	11.53	84.932	530.96	283.66	642.01	625.86	16.15	39.752		
2,400.00	2,378.98	2,188.14	2,055.01	9.25	12.28	85.483	568.02	305.95	688.56	671.55	17.02	40.465		
2,500.00	2,477.16	2,276.47	2,132.02	9.70	13.03	85.963	605.09	328.23	735.16	717.27	17.89	41.099		
2,600.00	2,575.34	2,364.79	2,209.03	10.15	13.79	86.387	642.15	350.51	781.79	763.02	18.76	41.664		
2,700.00	2,673.53	2,453.11	2,286.04	10.61	14.55	86.763	679.21	372.79	828.45	808.80	19.64	42.172		
2,800.00	2,771.71	2,541.44	2,363.06	11.07	15.31	87.099	716.28	395.08	875.13	854.60	20.53	42.629		
2,900.00	2,869.89	2,629.76	2,440.07	11.52	16.07	87.401	753.34	417.36	921.84	900.42	21.42	43.042		
3,000.00	2,968.08	2,718.08	2,517.08	11.98	16.83	87.674	790.40	439.64	968.56	946.25	22.31	43.418		
3,100.00	3,066.26	2,806.41	2,594.09	12.44	17.60	87.922	827.47	461.93	1,015.30	992.10	23.20	43.760		
3,200.00	3,164.48	2,894.74	2,671.11	12.90	18.36	88.571	864.53	484.21	1,062.06	1,037.96	24.10	44.077		
3,300.00	3,263.34	2,983.08	2,748.13	13.33	19.13	90.132	901.60	506.50	1,108.89	1,083.94	24.95	44.448		
3,400.00	3,362.85	3,071.24	2,825.01	13.72	19.90	91.402	938.60	528.74	1,155.72	1,129.98	25.74	44.898		
3,500.00	3,462.73	3,158.99	2,901.51	14.06	20.66	92.417	975.42	550.88	1,202.51	1,176.03	26.47	45.422		
3,600.00	3,562.73	3,246.23	2,977.58	14.38	21.42	90.271	1,012.03	572.89	1,249.28	1,222.12	27.16	45.995		
3,700.00	3,662.73	3,333.42	3,053.61	14.69	22.18	94.566	1,048.62	594.89	1,296.19	1,268.35	27.85	46.546		
3,800.00	3,762.73	3,420.62	3,129.63	15.01	22.94	48.909	1,085.21	616.88	1,343.26	1,314.72	28.54	47.070		
3,900.00	3,862.73	3,507.81	3,205.66	15.33	23.70	48.296	1,121.80	638.88	1,390.45	1,361.22	29.23	47.569		
4,000.00	3,962.72	3,594.90	3,281.60	15.64	24.46	-86.045	1,158.34	660.85	1,437.73	1,407.81	29.92	48.058		
4,100.00	4,061.64	3,679.49	3,355.36	15.87	25.20	-81.887	1,193.84	682.20	1,484.31	1,453.85	30.47	48.716		
4,200.00	4,156.67	3,758.65	3,424.37	16.03	25.90	-78.439	1,227.06	702.17	1,529.50	1,498.61	30.89	49.521		
4,300.00	4,244.93	3,829.95	3,486.55	16.15	26.52	-75.497	1,256.98	720.16	1,573.07	1,541.87	31.21	50.411		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 730H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 401-MWD, 2583-MWD, 12844-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
							+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	5.51	5.51	0.00	0.01	41.945	39.70	35.68	53.37				
100.00	100.00	105.74	105.74	0.27	0.18	41.957	39.52	35.53	53.14	52.69	0.45	117.833	
200.00	200.00	205.96	205.96	0.63	0.34	41.992	39.00	35.11	52.48	51.50	0.98	53.733	
300.00	300.00	306.17	306.16	0.99	0.51	42.052	38.16	34.43	51.40	49.90	1.50	34.214	
400.00	400.00	406.35	406.33	1.35	0.69	42.140	37.00	33.48	49.90	47.86	2.04	24.483	
500.00	500.00	506.12	506.09	1.71	1.05	42.259	35.89	32.61	48.49	45.74	2.75	17.606	
600.00	600.00	606.07	606.04	2.07	1.41	42.176	35.04	31.75	47.29	43.82	3.47	13.625	
700.00	700.00	705.94	705.90	2.43	1.77	42.270	34.27	31.15	46.31	42.12	4.19	11.060	
800.00	800.00	805.87	805.83	2.78	2.13	42.430	33.60	30.72	45.53	40.62	4.90	9.284	
900.00	900.00	905.86	905.81	3.14	2.48	42.679	32.96	30.39	44.84	39.22	5.62	7.978	
1,000.00	1,000.00	1,005.82	1,005.77	3.50	2.84	42.946	32.32	30.09	44.16	37.82	6.34	6.969	
1,059.56	1,059.55	1,065.01	1,064.96	3.71	3.05	86.138	32.16	29.92	43.86	37.10	6.76	6.491 CC	
1,100.00	1,099.95	1,104.91	1,104.85	3.86	3.18	88.332	32.36	30.16	44.09	37.06	7.04	6.267 ES	
1,200.00	1,199.63	1,203.46	1,203.37	4.22	3.51	98.378	33.69	32.37	47.16	39.44	7.72	6.112 SF	
1,300.00	1,298.77	1,300.48	1,300.25	4.58	3.84	112.406	35.45	37.27	56.11	47.72	8.39	6.686	
1,400.00	1,397.15	1,395.30	1,394.68	4.96	4.16	124.853	38.04	45.43	73.93	64.87	9.06	8.158	
1,500.00	1,495.33	1,488.49	1,487.10	5.36	4.48	132.633	40.97	56.93	98.38	88.66	9.71	10.128	
1,600.00	1,593.51	1,578.14	1,575.49	5.77	4.81	136.945	43.95	71.58	127.77	117.44	10.32	12.377	
1,700.00	1,691.70	1,662.79	1,658.06	6.18	5.15	139.404	46.49	89.95	162.78	151.91	10.87	14.976	
1,800.00	1,789.88	1,743.74	1,735.81	6.61	5.49	140.760	48.71	112.35	203.60	192.22	11.38	17.894	
1,900.00	1,888.06	1,823.32	1,810.99	7.04	5.87	141.415	51.12	138.32	249.02	237.14	11.88	20.953	
2,000.00	1,986.25	1,903.70	1,885.92	7.47	6.29	141.609	54.23	167.23	297.40	284.95	12.44	23.898	
2,100.00	2,084.43	1,981.00	1,957.18	7.91	6.73	141.286	59.27	196.75	347.47	334.49	12.98	26.768	
2,200.00	2,182.61	2,059.31	2,028.32	8.36	7.23	140.603	66.50	228.67	399.50	385.94	13.56	29.454	
2,300.00	2,280.79	2,131.09	2,092.37	8.80	7.73	139.853	74.36	260.08	454.09	440.02	14.07	32.274	
2,400.00	2,378.98	2,204.52	2,156.92	9.25	8.27	139.090	83.08	293.99	510.83	496.21	14.63	34.922	
2,500.00	2,477.16	2,283.59	2,226.05	9.70	8.89	138.419	92.37	331.21	568.49	553.19	15.29	37.172	
2,600.00	2,575.34	2,368.83	2,300.68	10.15	9.59	137.848	102.24	371.21	626.06	610.00	16.06	38.978	
2,700.00	2,673.53	2,458.11	2,379.21	10.61	10.32	137.363	112.62	412.38	682.93	666.03	16.89	40.430	
2,800.00	2,771.71	2,545.12	2,456.08	11.07	10.97	136.998	122.52	451.94	739.23	721.62	17.61	41.972	
2,900.00	2,869.89	2,646.60	2,546.36	11.52	11.47	136.647	134.17	496.78	794.41	776.15	18.26	43.495	
3,000.00	2,968.08	2,732.91	2,623.92	11.98	11.86	136.437	143.74	533.42	847.98	829.26	18.71	45.310	
3,100.00	3,066.26	2,809.41	2,692.67	12.44	12.23	136.388	150.63	566.25	902.14	883.04	19.10	47.229	
3,200.00	3,164.48	2,887.32	2,762.40	12.90	12.64	136.697	157.64	600.29	956.89	937.38	19.52	49.028	
3,300.00	3,263.34	2,973.99	2,839.87	13.33	13.13	137.692	165.79	638.29	1,009.39	989.38	20.00	50.462	
3,400.00	3,362.85	3,089.14	2,943.56	13.72	13.80	138.191	176.99	687.07	1,057.09	1,036.37	20.72	51.010	
3,500.00	3,462.73	3,159.33	3,006.85	14.06	14.22	138.690	183.75	716.65	1,101.24	1,080.21	21.03	52.366	
3,600.00	3,562.73	3,263.12	3,100.54	14.38	14.86	96.212	193.77	760.19	1,142.42	1,120.80	21.62	52.837	
3,700.00	3,662.73	3,336.93	3,167.26	14.69	15.34	95.674	200.53	791.00	1,183.51	1,161.54	21.97	53.876	
3,800.00	3,762.73	3,446.21	3,265.59	15.01	16.07	94.982	209.46	837.83	1,225.83	1,203.20	22.64	54.146	
3,900.00	3,862.73	3,518.98	3,331.33	15.33	16.56	94.548	215.51	868.46	1,267.40	1,244.40	23.00	55.094	
4,000.00	3,962.72	3,615.65	3,418.22	15.64	17.24	-40.478	223.61	910.04	1,309.47	1,285.89	23.58	55.526	
4,100.00	4,061.64	3,714.14	3,507.18	15.87	17.94	-39.227	231.97	951.47	1,341.43	1,317.34	24.09	55.692	
4,200.00	4,156.67	5,524.49	4,537.44	16.03	23.05	-95.978	1,167.29	676.11	1,336.03	1,301.19	34.84	38.348	
4,300.00	4,244.93	5,470.77	4,535.52	16.15	22.78	-96.158	1,129.00	713.74	1,313.46	1,278.60	34.86	37.677	
4,400.00	4,323.72	5,393.12	4,532.98	16.30	22.63	-95.013	1,073.07	767.53	1,297.48	1,263.12	34.36	37.762	
4,500.00	4,390.66	5,297.36	4,533.37	16.52	22.61	-93.349	1,002.45	832.20	1,285.79	1,252.19	33.61	38.261	
4,600.00	4,443.72	5,204.65	4,533.43	16.90	22.66	-92.031	933.47	894.13	1,277.11	1,244.04	33.07	38.617	
4,700.00	4,481.27	4,817.45	4,431.85	17.47	22.86	-82.930	635.78	1,106.10	1,260.10	1,229.70	30.40	41.455	
4,800.00	4,502.19	4,608.75	4,297.13	18.27	22.71	-77.485	489.82	1,165.61	1,233.10	1,202.72	30.38	40.594	
4,900.00	4,506.43	4,529.12	4,234.58	19.25	22.58	-76.219	441.68	1,175.99	1,204.71	1,173.45	31.26	38.538	
5,000.00	4,505.92	4,325.46	4,061.74	20.45	21.95	-66.514	335.61	1,169.33	1,174.92	1,143.69	31.23	37.622	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 730H - Original Hole - Surveys Original												Offset Site Error:	0.00 ft
Survey Program: 401-MWD, 2583-MWD, 12844-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis Reference	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
		Measured Depth (ft)	Vertical Depth (ft)				+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,100.00	4,505.41	4,272.19	4,015.08	21.85	21.70	-63.594	312.05	1,159.13	1,147.79	1,115.26	32.53	35.283	
5,200.00	4,504.91	4,259.37	4,003.81	23.40	21.63	-62.918	306.72	1,156.14	1,126.76	1,092.25	34.51	32.646	
5,300.00	4,504.40	4,251.69	3,997.04	25.09	21.58	-62.523	303.63	1,154.24	1,114.26	1,077.50	36.76	30.314	
5,368.88	4,504.05	4,247.49	3,993.33	26.30	21.56	-62.325	301.98	1,153.17	1,111.46	1,073.09	38.37	28.966	
5,400.00	4,503.90	4,245.74	3,991.78	26.86	21.55	-62.224	301.29	1,152.72	1,111.92	1,072.82	39.10	28.441	
5,500.00	4,503.39	4,239.00	3,985.82	28.69	21.51	-61.776	298.71	1,150.93	1,121.57	1,080.19	41.38	27.105	
5,600.00	4,502.89	4,239.00	3,985.82	30.56	21.51	-61.698	298.71	1,150.93	1,142.40	1,098.79	43.61	26.195	
5,700.00	4,502.38	4,239.00	3,985.82	32.49	21.51	-61.698	298.71	1,150.93	1,171.69	1,126.06	45.62	25.681	
5,800.00	4,501.88	4,239.00	3,985.82	34.46	21.51	-61.698	298.71	1,150.93	1,208.56	1,161.19	47.37	25.512	
5,900.00	4,501.37	4,239.00	3,985.82	36.47	21.51	-61.698	298.71	1,150.93	1,252.35	1,203.50	48.85	25.636	
6,000.00	4,500.87	4,227.19	3,975.33	38.51	21.44	-61.088	294.37	1,147.69	1,302.19	1,252.34	49.84	26.126	
6,100.00	4,500.36	4,225.53	3,973.85	40.58	21.43	-61.002	293.78	1,147.22	1,357.67	1,306.88	50.79	26.731	
6,200.00	4,499.86	4,224.05	3,972.53	42.66	21.42	-60.926	293.26	1,146.80	1,418.04	1,366.51	51.53	27.516	
6,300.00	4,499.35	4,222.73	3,971.35	44.77	21.41	-60.858	292.80	1,146.42	1,482.70	1,430.60	52.11	28.456	
6,400.00	4,498.85	4,221.53	3,970.28	46.90	21.41	-60.796	292.39	1,146.08	1,551.11	1,498.58	52.53	29.526	



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 763H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2584-MWD, 13747-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	5.50	5.50	0.00	0.01	90.556	-0.34	35.40	35.41			78.086	
100.00	100.00	105.58	105.58	0.27	0.18	90.805	-0.50	35.28	35.28	34.83	0.45		
200.00	200.00	205.66	205.66	0.63	0.35	91.510	-0.92	34.92	34.93	33.95	0.98	35.698	
300.00	300.00	305.73	305.73	0.99	0.51	92.699	-1.62	34.33	34.37	32.87	1.51	22.834	
400.00	400.00	405.80	405.78	1.35	0.68	94.419	-2.59	33.52	33.62	31.59	2.03	16.544	
500.00	500.00	505.89	505.87	1.71	0.99	96.129	-3.48	32.42	32.61	29.90	2.70	12.071	
600.00	600.00	605.77	605.74	2.07	1.35	97.555	-4.18	31.49	31.76	28.35	3.42	9.294	
700.00	700.00	705.83	705.79	2.43	1.71	98.883	-4.76	30.43	30.80	26.66	4.13	7.449	
800.00	800.00	805.74	805.70	2.78	2.07	99.971	-5.20	29.60	30.05	25.20	4.85	6.195	
900.00	900.00	905.63	905.59	3.14	2.43	101.185	-5.72	28.91	29.47	23.90	5.57	5.294	
1,000.00	1,000.00	1,005.65	1,005.61	3.50	2.78	101.670	-5.93	28.72	29.32	23.05	6.28	4.670	
1,010.40	1,010.40	1,016.08	1,016.03	3.54	2.82	143.728	-5.94	28.67	29.31	22.95	6.35	4.613 CC, ES	
1,100.00	1,099.95	1,105.67	1,105.62	3.86	3.13	146.798	-5.97	28.15	30.93	23.94	6.99	4.426	
1,200.00	1,199.63	1,205.35	1,205.30	4.22	3.49	154.024	-6.28	27.54	37.29	29.59	7.70	4.841	
1,300.00	1,298.77	1,304.26	1,304.20	4.58	3.83	160.981	-6.54	27.23	49.22	40.82	8.40	5.857	
1,400.00	1,397.15	1,402.68	1,402.62	4.96	4.16	165.220	-5.92	27.78	66.52	57.43	9.09	7.317	
1,500.00	1,495.33	1,500.42	1,500.36	5.36	4.48	167.708	-5.15	28.60	85.24	75.47	9.77	8.725	
1,600.00	1,593.51	1,598.86	1,598.79	5.77	4.81	169.420	-4.66	29.49	104.26	93.81	10.46	9.972	
1,700.00	1,691.70	1,692.45	1,692.36	6.18	5.13	170.699	-5.34	31.27	124.88	113.76	11.12	11.230	
1,800.00	1,789.88	1,780.79	1,780.48	6.61	5.44	171.867	-9.31	35.82	150.33	138.60	11.73	12.818	
1,900.00	1,888.06	1,867.21	1,866.20	7.04	5.74	172.855	-16.77	43.70	181.34	169.04	12.30	14.744	
2,000.00	1,986.25	1,951.77	1,949.47	7.47	6.05	173.656	-27.03	54.22	216.95	204.10	12.85	16.889	
2,100.00	2,084.43	2,031.68	2,027.45	7.91	6.36	174.376	-39.56	66.31	256.78	243.45	13.33	19.267	
2,200.00	2,182.61	2,106.73	2,099.74	8.36	6.66	174.803	-53.62	80.72	301.34	287.60	13.75	21.924	
2,300.00	2,280.79	2,177.97	2,167.29	8.80	6.97	175.038	-69.05	97.22	350.41	336.29	14.12	24.820	
2,400.00	2,378.98	2,248.17	2,232.82	9.25	7.31	175.031	-85.41	116.32	403.23	388.73	14.50	27.808	
2,500.00	2,477.16	2,321.87	2,300.70	9.70	7.69	174.831	-103.19	138.87	458.76	443.80	14.97	30.653	
2,600.00	2,575.34	2,402.00	2,374.02	10.15	8.14	174.596	-122.91	164.47	515.52	499.96	15.55	33.150	
2,700.00	2,673.53	2,487.74	2,452.60	10.61	8.59	174.359	-143.60	191.84	571.96	555.80	16.16	35.396	
2,800.00	2,771.71	2,573.37	2,531.28	11.07	8.95	174.268	-164.67	218.27	627.99	611.32	16.67	37.665	
2,900.00	2,869.89	2,662.69	2,613.60	11.52	9.22	174.285	-186.97	244.78	683.47	666.37	17.10	39.971	
3,000.00	2,968.08	2,756.60	2,700.58	11.98	9.51	174.329	-209.97	271.71	737.97	720.41	17.56	42.024	
3,100.00	3,066.26	2,857.74	2,794.91	12.44	9.87	174.365	-233.57	299.52	790.99	772.90	18.10	43.709	
3,200.00	3,164.48	2,923.24	2,856.04	12.90	10.13	174.433	-248.77	317.45	843.73	825.40	18.33	46.026	
3,300.00	3,263.34	2,985.58	2,913.56	13.33	10.38	174.600	-264.35	335.75	895.57	877.05	18.52	48.351	
3,400.00	3,362.85	3,104.34	3,023.29	13.72	10.93	174.686	-293.73	370.40	942.64	923.41	19.24	49.006	
3,500.00	3,462.73	3,262.70	3,172.31	14.06	11.65	174.621	-327.38	411.94	980.82	960.58	20.25	48.447	
3,600.00	3,562.73	5,399.42	4,529.51	14.38	23.12	61.739	339.40	-214.87	963.78	948.22	15.56	61.930	
3,700.00	3,662.73	5,401.31	4,529.54	14.69	23.15	60.217	340.79	-216.17	864.07	848.33	15.74	54.904	
3,800.00	3,762.73	5,403.20	4,529.58	15.01	23.19	58.684	342.16	-217.46	764.42	748.49	15.93	47.981	
3,900.00	3,862.73	5,405.07	4,529.61	15.33	23.22	57.145	343.52	-218.74	664.88	648.73	16.15	41.165	
4,000.00	3,962.72	5,406.18	4,529.63	15.64	23.24	-103.799	344.34	-219.50	565.50	549.09	16.41	34.457	
4,100.00	4,061.64	5,394.17	4,529.41	15.87	23.02	-144.514	335.58	-211.28	467.13	450.50	16.63	28.087	
4,200.00	4,156.67	5,365.11	4,528.85	16.03	22.50	-154.004	314.43	-191.36	372.62	355.80	16.82	22.151	
4,300.00	4,244.93	5,320.14	4,527.94	16.15	21.72	-155.931	281.82	-160.40	285.05	267.94	17.11	16.660	
4,400.00	4,323.72	5,260.60	4,526.72	16.30	20.70	-154.025	238.79	-119.28	207.58	189.82	17.76	11.691	
4,500.00	4,390.66	5,188.41	4,525.34	16.52	19.53	-148.243	186.72	-69.29	143.58	124.28	19.31	7.437	
4,600.00	4,443.72	5,103.27	4,523.48	16.90	18.24	-136.407	125.36	-10.29	96.41	73.65	22.76	4.235	
4,700.00	4,481.27	5,011.59	4,518.59	17.47	16.98	-116.216	59.47	53.26	68.13	38.92	29.21	2.332	
4,800.00	4,502.19	4,915.20	4,511.52	18.27	15.83	-93.551	-9.62	120.07	59.20	25.29	33.91	1.746 Level 3<2.00	
4,828.20	4,505.16	4,887.89	4,507.88	18.54	15.54	-87.284	-29.04	138.92	58.82	24.79	34.03	1.728 Level 3<2.00, SF	
4,900.00	4,506.43	4,820.23	4,493.47	19.25	14.91	-72.487	-76.09	185.30	61.64	29.56	32.08	1.922 Level 3<2.00	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 763H - Original Hole - Surveys Original												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2584-MWD, 13747-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,505.92	4,734.11	4,462.83	20.45	14.30	-50.200	-132.13	242.90	79.32	53.04	26.28	3.018	
5,100.00	4,505.41	4,652.75	4,422.82	21.85	13.93	-32.871	-181.22	293.92	116.24	93.93	22.30	5.211	
5,200.00	4,504.91	4,581.10	4,383.21	23.40	13.74	-22.686	-222.93	336.60	164.81	143.51	21.30	7.739	
5,300.00	4,504.40	4,515.56	4,342.67	25.09	13.68	-16.534	-259.02	373.31	222.99	201.57	21.42	10.408	
5,400.00	4,503.90	4,460.00	4,304.91	26.86	13.69	-11.496	-287.84	402.09	288.83	266.76	22.07	13.084	
5,500.00	4,503.39	4,428.00	4,281.27	28.69	13.72	-8.087	-303.30	417.11	361.86	338.64	23.22	15.586	
5,600.00	4,502.89	4,384.12	4,246.93	30.56	13.77	-6.024	-322.94	436.06	439.82	416.07	23.75	18.518	
5,700.00	4,502.38	4,350.81	4,219.69	32.49	13.82	-5.444	-336.63	449.48	521.21	496.91	24.30	21.450	
5,800.00	4,501.88	4,322.64	4,195.88	34.46	13.86	-5.057	-347.25	460.15	605.39	580.63	24.76	24.452	
5,900.00	4,501.37	4,302.00	4,178.02	36.47	13.90	-4.818	-354.48	467.56	691.80	666.64	25.16	27.494	
6,000.00	4,500.87	4,271.00	4,150.61	38.51	13.94	-4.506	-364.52	477.97	779.97	754.57	25.41	30.698	
6,100.00	4,500.36	4,255.06	4,136.25	40.58	13.97	-4.353	-369.37	482.94	869.57	843.89	25.68	33.857	
6,200.00	4,499.86	4,240.00	4,122.56	42.66	13.99	-4.204	-373.80	487.37	960.38	934.47	25.90	37.073	
6,300.00	4,499.35	4,219.33	4,103.57	44.77	14.02	-3.993	-379.66	493.02	1,052.13	1,026.06	26.07	40.354	
6,400.00	4,498.85	4,208.00	4,093.06	46.90	14.03	-3.874	-382.77	495.90	1,144.75	1,118.52	26.23	43.637	
6,500.00	4,498.34	4,190.89	4,077.07	49.04	14.06	-3.696	-387.29	500.00	1,238.07	1,211.71	26.36	46.964	
6,600.00	4,497.84	4,177.00	4,063.99	51.19	14.07	-3.558	-390.76	503.11	1,332.04	1,305.56	26.48	50.302	
6,700.00	4,497.33	4,177.00	4,063.99	53.36	14.07	-3.558	-390.76	503.11	1,426.65	1,400.06	26.59	53.653	
6,800.00	4,496.83	4,159.95	4,047.80	55.53	14.09	-3.400	-394.73	506.65	1,521.61	1,494.93	26.68	57.027	



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 830H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2554-MWD, 12753-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:				Warning
							+N/S (ft)	+E/W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
0.00	0.00	5.50	5.50	0.00	0.01	60.926	19.68	35.39	40.49					
100.00	100.00	105.55	105.55	0.27	0.18	60.720	19.78	35.27	40.43	39.98	0.45	89.605		
200.00	200.00	205.59	205.59	0.63	0.34	60.140	20.05	34.92	40.27	39.29	0.98	41.194		
300.00	300.00	305.63	305.62	0.99	0.51	59.177	20.50	34.35	40.00	38.50	1.50	26.602		
400.00	400.00	405.66	405.65	1.35	0.68	57.817	21.12	33.56	39.65	37.62	2.03	19.533		
500.00	500.00	505.72	505.71	1.71	0.99	56.265	21.78	32.61	39.21	36.52	2.70	14.530		
600.00	600.00	605.77	605.75	2.07	1.35	54.442	22.42	31.37	38.56	35.14	3.42	11.287		
700.00	700.00	705.70	705.67	2.43	1.71	53.392	22.73	30.60	38.12	33.98	4.13	9.225		
800.00	800.00	805.86	805.83	2.78	2.07	52.690	22.69	29.77	37.43	32.59	4.85	7.723		
900.00	900.00	906.01	905.97	3.14	2.42	51.052	22.86	28.28	36.36	30.80	5.56	6.536		
1,000.00	1,000.00	1,006.00	1,005.94	3.50	2.78	48.697	23.10	26.29	35.00	28.72	6.28	5.572		
1,100.00	1,099.95	1,105.88	1,105.79	3.86	3.14	92.487	23.55	24.42	33.94	26.95	6.99	4.852		
1,153.70	1,153.53	1,159.46	1,159.37	4.05	3.33	97.288	23.80	23.56	33.71	26.33	7.38	4.569 CC		
1,200.00	1,199.63	1,205.59	1,205.50	4.22	3.50	103.688	23.89	22.93	34.00	26.29	7.71	4.412 ES, SF		
1,300.00	1,298.77	1,304.64	1,304.54	4.58	3.85	121.870	24.02	21.93	38.23	29.81	8.42	4.540		
1,400.00	1,397.15	1,401.83	1,401.73	4.96	4.19	139.300	23.80	22.22	50.42	41.30	9.12	5.529		
1,500.00	1,495.33	1,496.99	1,496.80	5.36	4.50	150.596	21.77	25.37	69.83	60.05	9.77	7.144		
1,600.00	1,593.51	1,590.47	1,590.00	5.77	4.81	156.536	18.73	31.91	94.49	84.08	10.41	9.079		
1,700.00	1,691.70	1,680.09	1,678.93	6.18	5.11	158.956	15.77	42.49	123.87	112.88	10.99	11.270		
1,800.00	1,789.88	1,765.11	1,762.51	6.61	5.41	159.779	12.05	57.51	158.82	147.31	11.51	13.796		
1,900.00	1,888.06	1,848.15	1,843.13	7.04	5.72	160.011	6.97	76.72	199.08	187.06	12.02	16.564		
2,000.00	1,986.25	1,929.08	1,920.75	7.47	6.05	159.747	1.78	99.05	243.17	230.65	12.52	19.424		
2,100.00	2,084.43	2,006.42	1,993.92	7.91	6.40	159.263	-3.39	123.52	290.74	277.76	12.97	22.411		
2,200.00	2,182.61	2,075.00	2,057.78	8.36	6.74	158.688	-8.11	148.06	341.93	328.61	13.32	25.668		
2,300.00	2,280.79	2,147.15	2,123.67	8.80	7.15	157.936	-12.95	177.05	396.67	382.91	13.76	28.822		
2,400.00	2,378.98	2,219.23	2,188.21	9.25	7.60	157.116	-17.59	208.79	454.42	440.18	14.23	31.925		
2,500.00	2,477.16	2,298.63	2,258.87	9.70	8.13	156.368	-22.87	244.63	513.24	498.39	14.85	34.568		
2,600.00	2,575.34	2,384.91	2,335.92	10.15	8.74	155.753	-28.58	283.02	571.57	555.99	15.58	36.696		
2,700.00	2,673.53	2,470.10	2,412.30	10.61	9.32	155.285	-34.15	320.35	629.33	613.08	16.25	38.716		
2,800.00	2,771.71	2,556.27	2,489.79	11.07	9.77	154.911	-39.72	357.60	686.61	669.80	16.81	40.846		
2,900.00	2,869.89	2,645.05	2,569.91	11.52	10.10	154.558	-44.89	395.52	743.24	725.99	17.25	43.098		
3,000.00	2,968.08	2,733.85	2,650.30	11.98	10.47	154.237	-49.55	432.93	799.20	781.51	17.70	45.161		
3,100.00	3,066.26	2,824.00	2,732.20	12.44	10.87	153.954	-53.98	470.34	854.54	836.36	18.18	47.006		
3,200.00	3,164.48	2,915.83	2,815.97	12.90	11.32	153.936	-58.29	507.73	908.99	890.30	18.69	48.625		
3,300.00	3,263.34	3,011.37	2,903.45	13.33	11.80	154.344	-62.32	545.91	959.72	940.48	19.23	49.900		
3,400.00	3,362.85	4,964.00	4,114.23	13.72	21.19	93.511	738.28	188.98	979.31	955.36	23.95	40.883		
3,500.00	3,462.73	4,964.00	4,114.23	14.06	21.19	90.226	738.28	188.98	905.49	879.88	25.61	35.353		
3,600.00	3,562.73	4,965.58	4,114.26	14.38	21.22	46.980	739.42	187.88	837.08	809.60	27.48	30.459		
3,700.00	3,662.73	4,967.52	4,114.30	14.69	21.26	46.805	740.81	186.54	775.56	746.01	29.55	26.245		
3,800.00	3,762.73	4,969.39	4,114.34	15.01	21.29	46.636	742.16	185.24	722.69	690.95	31.74	22.772		
3,900.00	3,862.73	4,971.20	4,114.37	15.33	21.33	46.473	743.46	183.98	680.48	646.59	33.89	20.081		
4,000.00	3,962.72	4,972.26	4,114.39	15.64	21.35	-89.655	744.22	183.25	651.00	615.26	35.75	18.212		
4,100.00	4,061.64	4,964.00	4,114.23	15.87	21.19	-90.442	738.28	188.98	635.95	599.14	36.80	17.280		
4,150.00	4,109.83	4,952.38	4,114.00	15.95	20.98	-89.610	729.95	197.07	634.08	597.18	36.90	17.185		
4,200.00	4,156.67	4,939.85	4,113.75	16.03	20.76	-88.364	721.02	205.85	635.87	599.08	36.79	17.283		
4,300.00	4,244.93	4,905.67	4,113.09	16.15	20.14	-84.293	696.93	230.10	649.14	613.20	35.94	18.062		
4,400.00	4,323.72	4,856.32	4,112.14	16.30	19.27	-78.513	662.85	265.78	672.22	637.70	34.52	19.475		
4,500.00	4,390.66	4,779.50	4,110.57	16.52	17.98	-71.448	609.87	321.39	699.33	666.60	32.72	21.370		
4,600.00	4,443.72	4,681.00	4,108.33	16.90	16.51	-64.900	540.79	391.55	724.48	693.50	30.98	23.385		
4,700.00	4,481.27	4,618.00	4,103.92	17.47	15.76	-60.975	496.02	435.63	745.96	715.76	30.20	24.700		
4,800.00	4,502.19	4,566.71	4,095.27	18.27	15.33	-58.033	459.97	471.04	765.23	735.21	30.02	25.490		
4,900.00	4,506.43	4,507.40	4,079.98	19.25	15.05	-55.916	418.84	510.92	781.20	751.06	30.14	25.916		

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 830H - Original Hole - Surveys Original												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2554-MWD, 12753-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (")	Offset Wellbore Centre		Rule Assigned:				Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (")	+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,505.92	4,451.58	4,060.78	20.45	14.94	-54.879	381.00	547.17	797.97	767.44	30.54	26.131	
5,100.00	4,505.41	4,398.00	4,038.12	21.85	14.92	-53.647	345.92	580.70	817.96	786.84	31.12	26.286	
5,200.00	4,504.91	4,348.13	4,014.02	23.40	14.94	-52.139	314.55	611.06	842.46	810.67	31.79	26.501	
5,300.00	4,504.40	4,250.33	3,963.63	25.09	15.07	-49.015	252.89	667.83	870.21	838.29	31.92	27.263	
5,400.00	4,503.90	4,183.97	3,926.41	26.86	15.19	-46.294	209.99	702.07	901.51	869.10	32.42	27.810	
5,500.00	4,503.39	4,128.36	3,891.87	28.69	15.28	-43.602	173.72	726.20	939.44	906.49	32.96	28.507	
5,600.00	4,502.89	4,083.00	3,861.57	30.56	15.34	-41.513	144.40	742.89	984.07	950.55	33.51	29.363	
5,700.00	4,502.38	4,040.87	3,831.92	32.49	15.40	-39.775	117.48	755.95	1,033.58	999.61	33.97	30.427	
5,800.00	4,501.88	4,010.11	3,809.29	34.46	15.43	-38.475	98.31	764.11	1,087.99	1,053.54	34.45	31.583	
5,900.00	4,501.37	3,989.00	3,793.31	36.47	15.45	-37.574	85.45	769.09	1,147.01	1,112.07	34.94	32.824	
6,000.00	4,500.87	3,957.00	3,768.39	38.51	15.47	-36.200	66.47	775.60	1,210.10	1,174.94	35.16	34.421	
6,100.00	4,500.36	3,926.00	3,743.57	40.58	15.49	-34.856	48.57	780.57	1,276.92	1,241.64	35.28	36.191	
6,200.00	4,499.86	3,908.43	3,729.30	42.66	15.49	-34.090	38.57	782.79	1,346.83	1,311.32	35.50	37.934	
6,300.00	4,499.35	3,894.00	3,717.47	44.77	15.50	-33.460	30.45	784.33	1,419.62	1,383.93	35.69	39.774	
6,400.00	4,498.85	3,875.49	3,702.10	46.90	15.49	-32.656	20.26	785.95	1,495.03	1,459.26	35.76	41.802	
6,500.00	4,498.34	3,863.00	3,691.57	49.04	15.49	-32.118	13.61	786.84	1,572.84	1,536.97	35.86	43.858	



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 861H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program:	401-MWD, 2682-MWD, 11416-MWD												Offset Well Error:	0.00 ft
	Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre			Rule Assigned:			
								+N/S (ft)	+E/W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	5.51	5.51	0.00	0.01	31.053	59.72	35.96	69.71					
100.00	100.00	105.72	105.72	0.27	0.18	31.027	59.59	35.85	69.54	69.09	0.45	0.45	154.299	
200.00	200.00	205.93	205.93	0.63	0.34	30.954	59.24	35.53	69.08	68.10	0.98	0.98	70.752	
300.00	300.00	306.13	306.13	0.99	0.51	30.832	58.65	35.01	68.31	66.81	1.50	1.50	45.483	
400.00	400.00	406.31	406.30	1.35	0.69	30.658	57.84	34.29	67.25	65.21	2.04	2.04	33.002	
500.00	500.00	506.27	506.25	1.71	1.05	30.589	56.88	33.62	66.08	63.32	2.75	2.75	23.991	
600.00	600.00	606.17	606.15	2.07	1.41	30.679	55.89	33.16	64.99	61.52	3.47	3.47	18.726	
700.00	700.00	706.07	706.05	2.43	1.77	30.535	55.22	32.57	64.11	59.93	4.19	4.19	15.315	
800.00	800.00	806.09	806.06	2.78	2.12	30.360	54.53	31.94	63.19	58.29	4.90	4.90	12.888	
900.00	900.00	906.07	906.04	3.14	2.48	30.409	53.79	31.57	62.38	56.76	5.62	5.62	11.100	
971.93	971.93	977.47	977.43	3.40	2.73	30.627	53.23	31.51	61.86	55.73	6.13	6.13	10.095 CC	
1,000.00	1,000.00	1,004.99	1,004.96	3.50	2.83	30.777	53.25	31.72	61.98	55.66	6.32	6.32	9.804 ES	
1,100.00	1,099.95	1,102.66	1,102.58	3.86	3.15	75.753	54.93	33.81	63.88	56.88	7.00	7.00	9.127	
1,200.00	1,199.63	1,199.32	1,199.01	4.22	3.47	82.756	59.50	38.36	69.07	61.41	7.66	7.66	9.016 SF	
1,300.00	1,298.77	1,294.20	1,293.28	4.58	3.80	91.757	67.22	45.78	79.87	71.56	8.31	8.31	9.611	
1,400.00	1,397.15	1,385.90	1,383.67	4.96	4.13	100.350	78.12	56.58	98.52	89.58	8.94	8.94	11.019	
1,500.00	1,495.33	1,476.02	1,471.47	5.36	4.48	106.375	91.86	71.52	124.89	115.32	9.57	9.57	13.051	
1,600.00	1,593.51	1,564.92	1,557.12	5.77	4.86	110.000	107.44	89.51	156.34	146.13	10.21	10.21	15.320	
1,700.00	1,691.70	1,651.51	1,639.50	6.18	5.27	111.917	124.96	109.57	191.76	180.94	10.83	10.83	17.712	
1,800.00	1,789.88	1,733.55	1,716.29	6.61	5.69	112.671	144.25	131.00	231.09	219.68	11.41	11.41	20.259	
1,900.00	1,888.06	1,810.89	1,787.13	7.04	6.14	112.897	164.58	154.44	275.08	263.14	11.94	11.94	23.042	
2,000.00	1,986.25	1,886.00	1,854.46	7.47	6.62	112.770	186.38	179.57	322.85	310.39	12.46	12.46	25.901	
2,100.00	2,084.43	1,967.67	1,926.33	7.91	7.19	112.291	212.53	208.21	373.03	359.88	13.14	13.14	28.381	
2,200.00	2,182.61	2,037.99	1,986.97	8.36	7.73	111.631	237.38	233.71	425.46	411.80	13.66	13.66	31.146	
2,300.00	2,280.79	2,102.59	2,041.02	8.80	8.27	110.869	262.43	258.66	481.29	467.19	14.11	14.11	34.116	
2,400.00	2,378.98	2,170.00	2,095.69	9.25	8.87	110.063	290.21	286.65	540.55	525.92	14.63	14.63	36.940	
2,500.00	2,477.16	2,233.33	2,146.03	9.70	9.48	109.385	317.02	314.17	602.00	586.87	15.13	15.13	39.798	
2,600.00	2,575.34	2,310.67	2,207.24	10.15	10.24	108.719	349.69	348.33	664.22	648.35	15.88	15.88	41.837	
2,700.00	2,673.53	2,397.61	2,276.45	10.61	11.11	108.155	385.85	386.55	726.06	709.27	16.79	16.79	43.243	
2,800.00	2,771.71	2,483.22	2,345.51	11.07	11.98	107.761	420.50	423.44	786.68	768.99	17.69	17.69	44.482	
2,900.00	2,869.89	2,555.54	2,403.74	11.52	12.71	107.496	449.62	454.92	847.63	829.25	18.38	18.38	46.108	
3,000.00	2,968.08	2,645.13	2,475.93	11.98	13.49	107.225	485.55	493.96	908.57	889.39	19.18	19.18	47.359	
3,100.00	3,066.26	2,738.02	2,551.66	12.44	14.15	107.029	521.90	533.61	968.34	948.47	19.86	19.86	48.749	
3,200.00	3,164.48	2,829.77	2,627.07	12.90	14.75	107.419	557.41	571.95	1,027.10	1,006.64	20.46	20.46	50.191	
3,300.00	3,263.34	2,905.52	2,689.56	13.33	15.28	109.072	586.71	603.15	1,084.42	1,063.54	20.89	20.89	51.915	
3,400.00	3,362.85	2,966.25	2,739.13	13.72	15.72	110.555	610.55	628.90	1,141.68	1,120.56	21.13	21.13	54.043	
3,500.00	3,462.73	3,049.92	2,806.88	14.06	16.37	111.573	643.74	665.09	1,198.51	1,176.95	21.56	21.56	55.578	
3,600.00	3,562.73	3,156.29	2,893.81	14.38	17.21	68.977	685.48	709.98	1,253.23	1,231.02	22.21	22.21	56.434	
3,700.00	3,662.73	3,220.07	2,946.21	14.69	17.74	68.259	710.32	736.54	1,307.50	1,285.06	22.45	22.45	58.253	
3,800.00	3,762.73	3,277.15	2,992.40	15.01	18.22	67.650	733.00	761.24	1,363.67	1,341.04	22.63	22.63	60.260	
3,900.00	3,862.73	3,390.16	3,083.91	15.33	19.20	66.526	778.09	809.85	1,420.05	1,396.66	23.39	23.39	60.700	
4,000.00	3,962.72	3,483.54	3,161.00	15.64	20.02	-67.904	814.51	847.93	1,473.84	1,449.87	23.96	23.96	61.506	
4,100.00	4,061.64	3,522.52	3,192.75	15.87	20.37	-62.995	829.91	864.49	1,525.42	1,501.53	23.89	23.89	63.846	
4,200.00	4,156.67	3,570.18	3,230.82	16.03	20.81	-59.241	849.11	885.78	1,573.06	1,549.24	23.83	23.83	66.024	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 863H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 400-MWD, 2583-MWD, 13910-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	5.51	5.51	0.00	0.01	120.107	-20.36	35.12	40.60				
100.00	100.00	105.63	105.63	0.27	0.18	119.984	-20.20	35.02	40.43	39.98	0.45	89.734	
200.00	200.00	205.75	205.75	0.63	0.34	119.634	-19.75	34.72	39.95	38.97	0.98	40.934	
300.00	300.00	305.87	305.86	0.99	0.51	119.041	-19.01	34.24	39.17	37.67	1.50	26.089	
400.00	400.00	405.96	405.95	1.35	0.69	118.176	-17.98	33.57	38.09	36.05	2.04	18.689	
500.00	500.00	505.82	505.80	1.71	1.05	117.511	-17.17	32.96	37.17	34.41	2.75	13.494	
600.00	600.00	605.98	605.96	2.07	1.41	116.827	-16.24	32.11	35.99	32.52	3.47	10.366	
700.00	700.00	705.66	705.63	2.43	1.76	116.448	-15.64	31.45	35.12	30.94	4.18	8.397	
729.40	729.40	734.93	734.90	2.53	1.86	116.600	-15.70	31.36	35.07	30.68	4.39	7.991 CC	
800.00	800.00	805.41	805.38	2.78	2.10	117.434	-16.25	31.30	35.27	30.39	4.88	7.228	
900.00	900.00	905.52	905.49	3.14	2.44	118.516	-16.95	31.19	35.50	29.92	5.58	6.364	
1,000.00	1,000.00	1,005.55	1,005.51	3.50	2.78	120.042	-17.73	30.66	35.42	29.13	6.28	5.637	
1,004.45	1,004.45	1,010.00	1,009.96	3.52	2.80	162.087	-17.75	30.64	35.42	29.10	6.31	5.609 ES	
1,100.00	1,099.95	1,105.49	1,105.45	3.86	3.13	163.910	-18.12	30.45	37.94	30.95	6.99	5.429 SF	
1,200.00	1,199.63	1,204.99	1,204.95	4.22	3.48	167.295	-18.68	30.27	45.71	38.01	7.70	5.940	
1,300.00	1,298.77	1,304.28	1,304.24	4.58	3.83	170.768	-19.47	30.09	58.86	50.46	8.40	7.004	
1,400.00	1,397.15	1,402.55	1,402.50	4.96	4.18	173.431	-20.07	29.65	76.66	67.54	9.11	8.412	
1,500.00	1,495.33	1,500.73	1,500.68	5.36	4.53	175.258	-20.83	29.21	95.73	85.92	9.81	9.755	
1,600.00	1,593.51	1,594.60	1,594.52	5.77	4.86	176.632	-22.93	29.61	116.49	106.00	10.49	11.105	
1,700.00	1,691.70	1,685.47	1,685.16	6.18	5.18	178.338	-28.98	31.40	141.45	130.32	11.13	12.708	
1,800.00	1,789.88	1,772.66	1,771.62	6.61	5.49	-179.490	-39.81	33.90	171.25	159.53	11.72	14.609	
1,900.00	1,888.06	1,859.54	1,857.03	7.04	5.82	-177.133	-55.38	36.95	205.67	193.36	12.31	16.709	
2,000.00	1,986.25	1,945.08	1,940.51	7.47	6.15	-175.044	-73.75	40.37	243.33	230.44	12.89	18.877	
2,100.00	2,084.43	2,024.90	2,017.76	7.91	6.48	-173.409	-93.36	44.46	284.27	270.88	13.39	21.223	
2,200.00	2,182.61	2,098.31	2,087.81	8.36	6.81	-172.068	-114.71	49.49	329.76	315.94	13.82	23.865	
2,300.00	2,280.79	2,170.00	2,154.97	8.80	7.15	-170.811	-139.09	55.30	379.80	365.57	14.23	26.690	
2,400.00	2,378.98	2,234.85	2,214.58	9.25	7.49	-169.718	-163.96	61.08	433.76	419.20	14.56	29.793	
2,500.00	2,477.16	2,307.42	2,280.21	9.70	7.90	-168.585	-194.15	67.91	490.69	475.66	15.04	32.630	
2,600.00	2,575.34	2,386.09	2,351.05	10.15	8.37	-167.573	-227.49	75.47	548.51	532.87	15.63	35.087	
2,700.00	2,673.53	2,466.90	2,423.80	10.61	8.85	-166.799	-261.67	83.93	606.68	590.44	16.24	37.351	
2,800.00	2,771.71	2,555.83	2,504.17	11.07	9.27	-166.190	-298.44	93.71	664.39	647.56	16.83	39.482	
2,900.00	2,869.89	2,635.18	2,576.22	11.52	9.57	-165.856	-330.28	103.32	721.60	704.39	17.21	41.937	
3,000.00	2,968.08	2,711.66	2,645.56	11.98	9.84	-165.818	-360.26	115.20	779.51	761.99	17.52	44.490	
3,100.00	3,066.26	2,792.57	2,718.84	12.44	10.16	-165.844	-391.86	128.54	837.70	819.80	17.90	46.808	
3,200.00	3,164.48	2,879.78	2,797.97	12.90	10.53	-166.029	-425.53	143.07	895.46	877.11	18.35	48.805	
3,300.00	3,263.34	2,973.30	2,883.16	13.33	10.96	-166.491	-460.75	158.76	949.40	930.55	18.85	50.368	
3,400.00	3,362.85	5,000.19	4,093.54	13.72	22.41	-99.859	-76.50	-635.75	895.35	871.91	23.44	38.194	
3,500.00	3,462.73	5,008.02	4,093.72	14.06	22.56	-95.230	-70.90	-641.23	816.75	791.51	25.24	32.365	
3,600.00	3,562.73	5,010.99	4,093.79	14.38	22.62	-135.618	-68.78	-643.30	742.97	715.71	27.26	27.253	
3,700.00	3,662.73	5,013.48	4,093.84	14.69	22.66	-135.347	-66.99	-645.04	675.93	646.34	29.59	22.842	
3,800.00	3,762.73	5,015.92	4,093.90	15.01	22.71	-135.081	-65.25	-646.74	617.86	585.70	32.16	19.212	
3,900.00	3,862.73	5,018.30	4,093.95	15.33	22.75	-134.821	-63.55	-648.40	571.50	536.74	34.76	16.440	
4,000.00	3,962.72	5,019.83	4,093.98	15.64	22.78	90.831	-62.45	-649.48	539.88	502.88	37.00	14.592	
4,100.00	4,061.64	5,007.58	4,093.71	15.87	22.55	90.938	-71.21	-640.92	525.79	487.72	38.07	13.812	
4,126.40	4,087.23	5,001.37	4,093.57	15.91	22.43	90.341	-75.65	-636.58	525.16	487.07	38.09	13.787	
4,200.00	4,156.67	4,977.79	4,092.98	16.03	21.99	87.431	-92.48	-620.08	529.81	492.17	37.64	14.077	
4,300.00	4,244.93	4,926.26	4,091.76	16.15	21.04	80.580	-129.07	-583.80	548.66	512.71	35.95	15.263	
4,400.00	4,323.72	4,854.79	4,091.34	16.30	19.74	72.012	-179.05	-532.73	575.65	542.03	33.62	17.123	
4,500.00	4,390.66	4,784.65	4,091.35	16.52	18.53	64.668	-228.03	-482.51	605.25	573.78	31.47	19.232	
4,600.00	4,443.72	4,707.89	4,091.10	16.90	17.28	58.616	-282.09	-428.04	633.17	603.46	29.70	21.316	
4,700.00	4,481.27	4,627.76	4,090.23	17.47	16.08	54.317	-339.26	-371.90	656.05	627.56	28.49	23.027	
4,800.00	4,502.19	4,553.00	4,087.46	18.27	15.08	51.762	-393.11	-320.13	672.32	644.40	27.93	24.075	

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



## Anticollision Report



<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Greater Lybrook Unit 44H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)	<b>MD Reference:</b>	RKB=6640+23.5 @ 6663.50ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Greater Lybrook Unit 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DT_Jul1724_v17
<b>Reference Design:</b>	rev0	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 863H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft	
Survey Program:	400-MWD, 2583-MWD, 13910-MWD											Offset Well Error:	0.00 ft	
	Reference Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Offset Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				
								+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,900.00	4,506.43	4,499.01	4,080.10	19.25	14.48	50.440	-431.35	-282.77	684.02	655.97	28.05	24.382		
5,000.00	4,505.92	4,434.64	4,064.31	20.45	13.99	49.249	-474.83	-238.06	700.34	672.03	28.31	24.737		
5,100.00	4,505.41	4,377.20	4,044.24	21.85	13.80	47.697	-510.93	-198.18	724.50	695.70	28.80	25.153		
5,200.00	4,504.91	4,325.89	4,021.60	23.40	13.77	46.324	-540.84	-163.21	755.94	726.50	29.44	25.678		
5,300.00	4,504.40	4,262.49	3,989.46	25.09	13.82	44.478	-575.85	-121.24	792.77	762.83	29.94	26.477		
5,400.00	4,503.90	4,207.00	3,959.56	26.86	13.91	43.402	-605.65	-85.25	832.62	802.08	30.54	27.262		
5,500.00	4,503.39	4,163.45	3,933.58	28.69	14.00	42.620	-627.19	-57.75	875.50	844.34	31.16	28.097		
5,600.00	4,502.89	4,123.18	3,907.64	30.56	14.08	41.439	-645.40	-32.90	921.85	890.18	31.67	29.110		
5,700.00	4,502.38	4,081.00	3,878.57	32.49	14.17	39.799	-662.58	-7.65	973.20	941.15	32.05	30.369		
5,800.00	4,501.88	4,049.00	3,855.38	34.46	14.23	38.516	-674.17	11.11	1,029.16	996.74	32.42	31.741		
5,900.00	4,501.37	4,018.00	3,831.94	36.47	14.28	37.238	-683.98	28.86	1,089.55	1,056.85	32.70	33.320		
6,000.00	4,500.87	3,987.00	3,807.59	38.51	14.33	35.932	-692.32	46.13	1,154.05	1,121.17	32.88	35.100		
6,100.00	4,500.36	3,974.03	3,797.14	40.58	14.35	35.380	-695.39	53.18	1,222.09	1,188.93	33.17	36.848		
6,200.00	4,499.86	3,955.00	3,781.52	42.66	14.37	34.567	-699.40	63.27	1,293.55	1,260.24	33.32	38.827		
6,300.00	4,499.35	3,938.22	3,767.49	44.77	14.39	33.849	-702.53	71.92	1,367.92	1,334.49	33.43	40.919		
6,400.00	4,498.85	3,924.00	3,755.44	46.90	14.40	33.244	-704.91	79.09	1,444.80	1,411.29	33.52	43.104		
6,500.00	4,498.34	3,903.45	3,737.82	49.04	14.42	32.377	-707.98	89.21	1,523.82	1,490.30	33.52	45.461		



## Anticollision Report



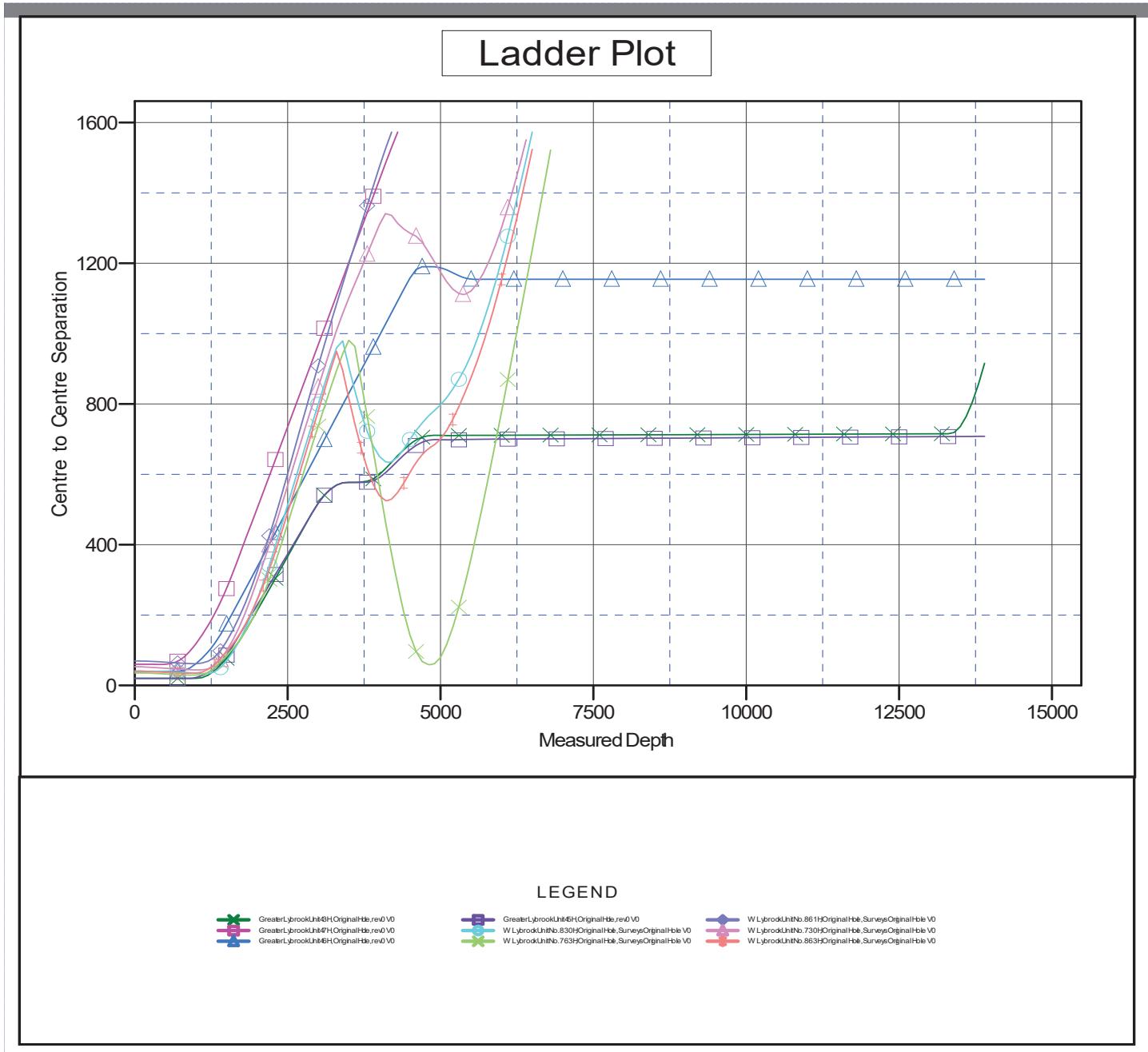
<b>Company:</b>	Enduring Resources LLC
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)
<b>Site Error:</b>	0.00 ft
<b>Reference Well:</b>	Greater Lybrook Unit 44H
<b>Well Error:</b>	0.00 ft
<b>Reference Wellbore</b>	Original Hole
<b>Reference Design:</b>	rev0

<b>Local Co-ordinate Reference:</b>
<b>TVD Reference:</b>
<b>MD Reference:</b>
<b>North Reference:</b>
<b>Survey Calculation Method:</b>
<b>Output errors are at</b>
<b>Database:</b>
<b>Offset TVD Reference:</b>

Well Greater Lybrook Unit 44H
RKB=6640+23.5 @ 6663.50ft
RKB=6640+23.5 @ 6663.50ft
Grid
Minimum Curvature
2.00 sigma
DT_Jul1724_v17
Offset Datum

Reference Depths are relative to RKB=6640+23.5 @ 6663.50ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.83333333

Coordinates are relative to: Greater Lybrook Unit 44H  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: 0.033°





## Anticollision Report



<b>Company:</b>	Enduring Resources LLC
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W
<b>Reference Site:</b>	Greater Lybrook Unit 730 (43,44,45,46&47)
<b>Site Error:</b>	0.00 ft
<b>Reference Well:</b>	Greater Lybrook Unit 44H
<b>Well Error:</b>	0.00 ft
<b>Reference Wellbore</b>	Original Hole
<b>Reference Design:</b>	rev0

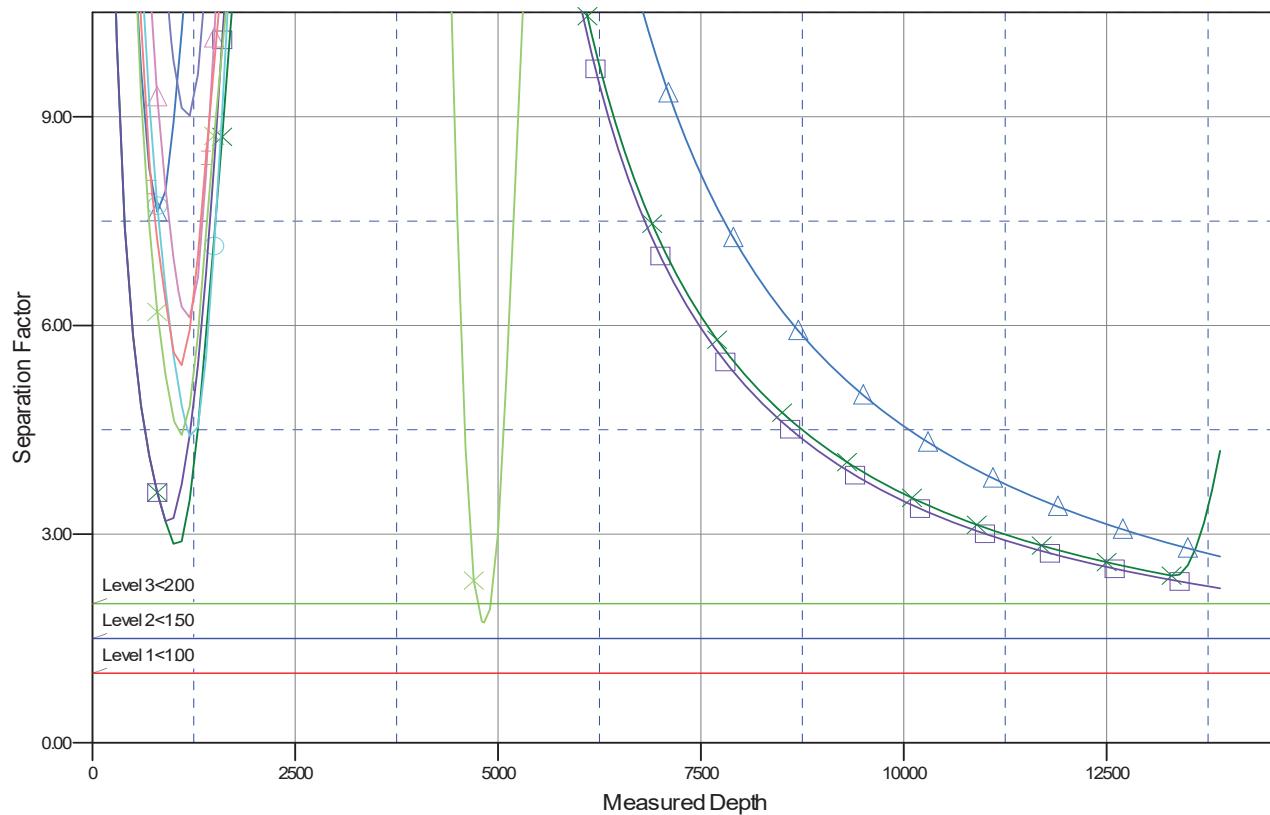
<b>Local Co-ordinate Reference:</b>
<b>TVD Reference:</b>
<b>MD Reference:</b>
<b>North Reference:</b>
<b>Survey Calculation Method:</b>
<b>Output errors are at</b>
<b>Database:</b>
<b>Offset TVD Reference:</b>

Well Greater Lybrook Unit 44H
RKB=6640+23.5 @ 6663.50ft
RKB=6640+23.5 @ 6663.50ft
Grid
Minimum Curvature
2.00 sigma
DT_Jul1724_v17
Offset Datum

Reference Depths are relative to RKB=6640+23.5 @ 6663.50ft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -107.83333333

Coordinates are relative to: Greater Lybrook Unit 44H  
 Coordinate System is US State Plane 1983, New Mexico Western Zone  
 Grid Convergence at Surface is: 0.033°

## Separation Factor Plot



### LEGEND

GreaterLybrookUnit44H_OriginalHole_rev0_V0	GreaterLybrookUnit44H_OriginalHole_rev0_V0	W_LybrookUnitNb_861H_OriginalHole_SurveysOriginalHole_V0
GreaterLybrookUnit44H_OriginalHole_rev0_V0	W_LybrookUnitNb_830H_OriginalHole_SurveysOriginalHole_V0	W_LybrookUnitNb_830H_OriginalHole_SurveysOriginalHole_V0
GreaterLybrookUnit44H_OriginalHole_rev0_V0	W_LybrookUnitNb_763H_OriginalHole_SurveysOriginalHole_V0	W_LybrookUnitNb_763H_OriginalHole_SurveysOriginalHole_V0



# 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

#044H GREATER LYBROOK UNIT

Lease: NMNM118731 Agreement: NMNM144419X

SH: NE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 27, T. 23N., R. 09W.  
San Juan County, New Mexico

BH: SW $\frac{1}{4}$ NE $\frac{1}{4}$  Section 35, T. 23N., R. 09W.  
San Juan County, New Mexico

\*Above Data Required on Well Sign

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

The following special requirements apply and are effective when checked:

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

## **I. GENERAL**

- A. Full compliance with all applicable laws 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.
- C. Production Startup Notification is required no later than the 5<sup>th</sup> business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

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

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

### **IV. GAS FLARING**

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

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

### **V. SAFETY**

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

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

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

### **VII. PHONE NUMBERS**

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

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

General Information  
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 524939

**ACKNOWLEDGMENTS**

Operator:	OGRID:
ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	372286
	Action Number:
	524939

Action Type:  
[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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**Santa Fe, NM 87505**

CONDITIONS

Action 524939

**CONDITIONS**

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 524939
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**CONDITIONS**

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/10/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/10/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/23/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/23/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/23/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/23/2025