

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30-045-38467
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 07/25/2025

Additional Operator Remarks

Location of Well

0. SHL: NWSW / 2525 FSL / 141 FWL / TWSP: 23N / RANGE: 9W / SECTION: 13 / LAT: 36.226589 / LONG: -107.748781 (TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 2327 FNL / 275 FWL / TWSP: 23N / RANGE: 9W / SECTION: 13 / LAT: 36.227754 / LONG: -107.748329 (TVD: 4270 feet, MD: 4460 feet)
PPP: SWSE / 0 FSL / 0 FEL / TWSP: 23N / RANGE: 9W / SECTION: 13 / LAT: 36.221299 / LONG: -107.740376 (TVD: 4371 feet, MD: 15930 feet)
PPP: NWSW / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 13 / LAT: 36.226927 / LONG: -107.74731 (TVD: 4371 feet, MD: 15930 feet)
PPP: NWNE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 9W / SECTION: 24 / LAT: 36.219536 / LONG: -107.738204 (TVD: 4371 feet, MD: 15930 feet)
PPP: LOT 2 / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 8W / SECTION: 19 / LAT: 36.214122 / LONG: -107.731537 (TVD: 4371 feet, MD: 15930 feet)
BHL: SWSE / 232 FSL / 2258 FEL / TWSP: 23N / RANGE: 8W / SECTION: 19 / LAT: 36.205744 / LONG: -107.721221 (TVD: 4371 feet, MD: 15930 feet)

BLM Point of Contact

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

CONFIDENTIAL

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	☒ Initial Submittal
			☐ Amended Report
			☐ As Drilled

WELL LOCATION INFORMATION

API Number 30-045-38467	Pool Code 98157	Pool Name LYBROOK MANCOS W
Property Code 332891	Property Name GREATER LYBROOK UNIT	Well Number 071H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6707'
Surface Owner: ☐ State ☐ Fee ☒ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location

UL L	Section 13	Township 23N	Range 9W	Lot	Feet from N/S Line 2525' SOUTH	Feet from E/W Line 141' WEST	Latitude 36.226589 °N	Longitude -107.748781 °W	County SAN JUAN
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Bottom Hole Location

UL O	Section 19	Township 23N	Range 8W	Lot	Feet from N/S Line 232' SOUTH	Feet from E/W Line 2258' EAST	Latitude 36.205744 °N	Longitude -107.721221 °W	County SAN JUAN
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Dedicated Acres 520.46	Penetrated Spacing Unit SW/4 NW/4, N/2 SW/4, SE/4 SW/4 SW/4 SE/4 - Sec 13, T23N, R9W N/2 NE/4, SE/4 NE/4 - Sec 24, T23N, R9W SW/4 NW/4 (aka Lot 2), NW/4 SW/4 (aka Lot 3) E/2 SW/4, SW/4 SE/4 - Sec 19, T23N, R8W	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit ☐ Yes ☐ No	Consolidation Code UNIT
Order Numbers R-22081			Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL L	Section 13	Township 23N	Range 9W	Lot	Feet from N/S Line 2525' SOUTH	Feet from E/W Line 141' WEST	Latitude 36.226589 °N	Longitude -107.748781 °W	County SAN JUAN
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First Take Point (FTP)

UL E	Section 13	Township 23N	Range 9W	Lot	Feet from N/S Line 2327' NORTH	Feet from E/W Line 275' WEST	Latitude 36.241990 °N 36.227754 °N	Longitude -107.748329 °W	County SAN JUAN
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Last Take Point (LTP)

UL O	Section 19	Township 23N	Range 8W	Lot	Feet from N/S Line 232' SOUTH	Feet from E/W Line 2258' EAST	Latitude 36.205744 °N	Longitude -107.721221 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest GREATER LYBROOK UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ 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 7/2/2025 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 JUNE 24, 2025
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SURFACE LOCATION (SHL)
2525' FSL 141' FWL
SECTION 13, T23N, R9W

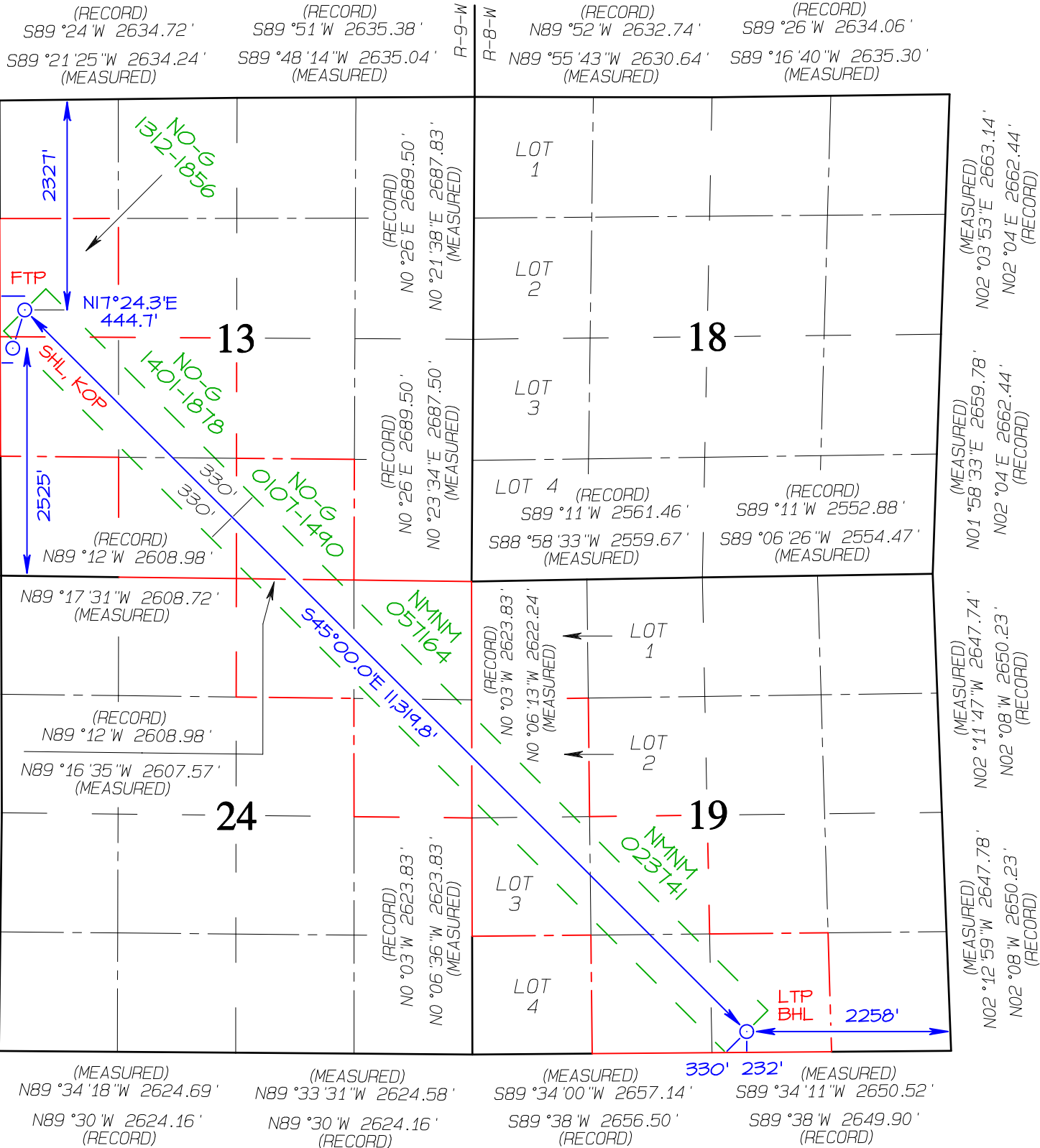
KICK OFF POINT (KOP)
2525' FSL 141' FWL
SECTION 13, T23N, R9W

FIRST TAKE POINT (FTP)
2327' FNL 275' FWL
SECTION 13, T23N, R9W

LAT 36.226589°N
LONG -107.748781°W
DATUM: NAD1983

LAT 36.226589°N
LONG -107.748781°W
DATUM: NAD1983

LAT 36.227754°N
LONG -107.748329°W
DATUM: NAD1983



LAST TAKE POINT (LTP)
232' FSL 2258' FEL
SECTION 19, T23N, R8W

BOTTOM HOLE LOCATION (BHL)
232' FSL 2258' FEL
SECTION 19, T23N, R8W

LAT 36.205744°N
LONG -107.721221°W
DATUM: NAD1983

LAT 36.205744°N
LONG -107.721221°W
DATUM: NAD1983

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Enduring Resources, LLC **OGRID:** 372286 **Date:** 7 / 7 / 2025

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 059H	TBD	L-13-23N-9W	2480 FSL x 101 FWL	294	294	118
Greater Lybrook Unit 061H	TBD	L-13-23N-9W	2495 FSL x 114 FWL	336	336	135
Greater Lybrook Unit 063H	TBD	L-13-23N-9W	2510 FSL x 127 FWL	252	252	101
Greater Lybrook Unit 071H	TBD	L-13-23N-9W	2525 FSL x 141 FWL	378	378	151
				3-year Decline	3-year Decline	3-year Decline
Greater Lybrook Unit 059H	TBD	L-13-23N-9W	2480 FSL x 101 FWL	112	112	45
Greater Lybrook Unit 061H	TBD	L-13-23N-9W	2495 FSL x 114 FWL	128	128	51
Greater Lybrook Unit 063H	TBD	L-13-23N-9W	2510 FSL x 127 FWL	96	96	38
Greater Lybrook Unit 071H	TBD	L-13-23N-9W	2525 FSL x 141 FWL	144	144	58

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 059H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 061H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 063H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 071H	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: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 7/7/2025
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 059H, 061H, 063H, 071H

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 059H, 061H, 063H, 071H

VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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



Enduring Resources, LLC.
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN
Greater Lybrook Unit 059H, 061H, 063H, 071H

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

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



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

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

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



Enduring Resources, LLC.
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN
Greater Lybrook Unit 059H, 061H, 063H, 071H

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-Silt formation*

WELL INFORMATION:

Name: Greater Lybrook Unit 071H

State: New Mexico

County: San Juan

Surface Elevation: 6,707 ft ASL (GL) 6,731 ft ASL (KB)

Surface Location: 13-23-9 Sec-Twn-Rng 2,525 ft FSL 141 ft FWL

36.226589 ° N latitude -107.748781 ° W longitude (NAD 83)

BH Location: 19-23-8 Sec-Twn-Rng 232 ft FSL 2,258 ft FEL

36.205744 ° N latitude -107.721221 ° 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 37.8 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Right (SouthWest) on lease road for 1.2 miles to T; Left (South) remaining on 7890 for 1.3 miles to fork; Right (NW) for 0.7 mi to location access on left into Greater Lybrook Unit 059 PAD -There are 4 wells on this pad: from NorthWest to SouthEast (location entrance) GLU 059H, 061H, 063H, 071H

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,270	461	461	W	normal
	Kirtland	6,165	566	566	W	normal
	Fruitland	5,995	736	736	G, W	sub
	Pictured Cliffs	5,605	1,126	1,126	G, W	sub
	Lewis	5,495	1,236	1,237	G, W	normal
	Chacra	5,260	1,471	1,476	G, W	normal
	Cliff House	4,169	2,562	2,630	G, W	sub
	Menefee	4,154	2,577	2,646	G, W	normal
	Point Lookout	3,178	3,553	3,661	G, W	normal
	Mancos	3,023	3,708	3,816	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,690	4,041	4,156	O,G	sub (~0.38)
	MNCS_B	2,598	4,133	4,263	O,G	sub (~0.38)
	MNCS_C	2,509	4,222	4,383	O,G	sub (~0.38)
	MNCS_Cms	2,461	4,270	4,460	O,G	sub (~0.38)
	FTP TARGET	2,461	4,270	4,460	O,G	sub (~0.38)
	PROJECTED TD	2,397	4,334	15,930	O,G	sub (~0.38)

Surface: Nacimiento

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

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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: **1,870 psi**

Maximum anticipated surface pressure, assuming partially evacuated hole: **920 psi**

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

H₂S 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 casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 5) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 6) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:**Fluid Measurement:**

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

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

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

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

Fluid Program: See "Detailed Drilling Plan" section and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

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

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

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

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

Hole Size: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	STC	2,020	3,520	564,000	423,000
Loading					153	934	110,988	110,988
Min. S.F.					13.21	3.77	5.08	3.81

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

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

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

MU Torque (ft lbs): 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	4,658 ft (MD)	Hole Section Length:	4,308 ft
350 ft (TVD)	to	4,352 ft (TVD)	Casing Required:	4,658 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCI)	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: Specs Loading Min. S.F.		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
	7	26.0	J-55	LTC	4,320	4,980	415,000	367,000
					1,901	1,169	205,612	205,612
					2.27	4.26	2.02	1.78

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	2.140	12.05	70%	0	429	919
Tail	Type III	14.6	1.380	6.64	20%	3,716	130	179

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.

4,658 ft (MD)	to	15,930 ft (MD)	Hole Section Length:	11,272 ft
4,352 ft (TVD)	to	4,334 ft (TVD)	Casing Required:	11,422 ft
Estimated KOP:		3,906 ft (MD)	3,798 ft (TVD)	
Estimated Liner Top:		4,508 ft (MD)	4,291 ft (TVD)	
Estimated Landing Point (FTP):		4,460 ft (MD)	4,270 ft (TVD)	
Estimated Lateral Length:		11,470 ft (MD)		

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
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WBM	8.7 - 9.0	NC	+20	±2	9-9.5	prod water	OBM as contingency
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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					2,141	8,748	259,455	259,455
Min. S.F.					3.53	1.22	1.41	1.48

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	1.560	7.70	30%	4,508	928	1,447

Displacement 222 est bbls

Annular Capacities

0.1044	cuft/ft	4-1/2" casing x 7" casing annulus
0.09417	cuft/ft	4-1/2" casing x 6-1/8" hole annulus
0.0873	cuft/ft	4-1/2" casing volume est shoe jt ft 100
0.0102	bbls/ft	4" DP capacity

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

American Cementing Liner & Production Blend

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

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

Note: This well will not be considered an unorthodox well location as defined by NMAC19.15.16.15.C.5. As defined in

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 11,370

Est Frac Inform: 47 Frac Stages 182,000 bbls slick water 14,790,000 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: 9/16/2025

Completion: 11/15/2025

Production: 12/30/2025

Prepared by: Greg Olson 5/9/2024

Updated: 7/8/2025

WELL NAME: Greater Lybrook Unit 071H

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

API Number: Not yet assigned

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elev.:	6,707	ft ASL (GL)	6,731	ft ASL (KB)		
Surface Location:	13-23-9	Sec-Twn- Rng	2,525	ft FSL	141	ft FWL
BH Location:	19-23-8	Sec-Twn- Rng	232	ft FSL	2258	ft FEL

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

South on US Hwy 550 for 37.8 miles to MM 113.4, Right (Southwest) on CR #7890 for 0.8 miles to fork, Right (SouthWest) on lease road for 1.2 miles to T; Left (South) remaining on 7890 for 1.3 miles to fork; Right (NW) for 0.7 mi to location access on left into Greater Lybrook Unit 059 PAD -There are 4 wells on this pad: from NorthWest to SouthEast (location entrance) GLU 059H, 061H, 063H, 071H

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	4,658 ft
KOP (MD)	3,906 ft
KOP (TVD)	3,798 ft
Target (TVD)	4,270 ft
Curve BUR	10 °/100 ft
POE (MD)	4,460 ft
TD (MD)	15,930 ft
Lat Len (ft)	11,470 ft

WELL CONSTRUCTION SUMMARY:

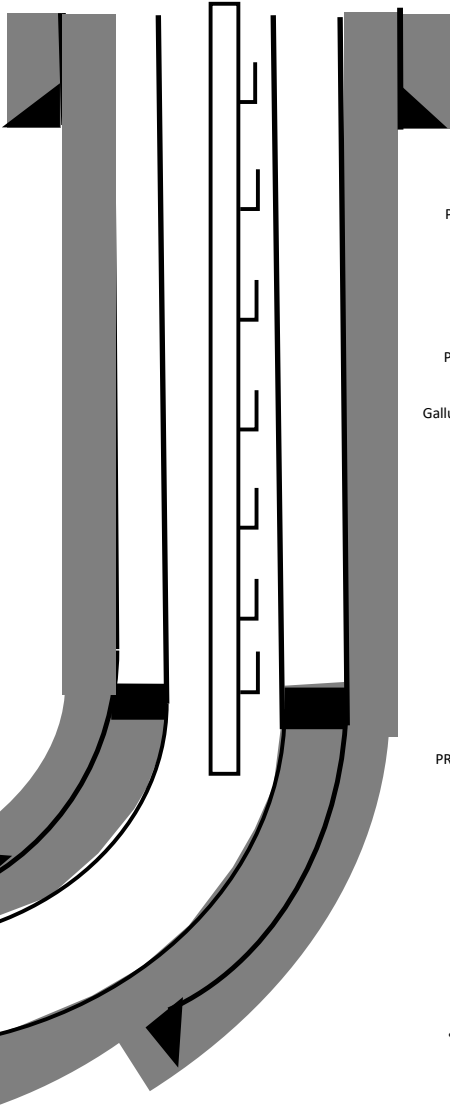
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	350	9.625	36	J-55	STC	0	350
Intermediate	8.750	4,658	7	26.0	J-55	LTC	0	4,658
Production	6.125	15,930	4.500	11.6	P-110	BTC	4,508	15,930

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	2.14	12.05	0.1668	70%	0	429
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	3,716	130
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.0873	30%	4,508	928

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



Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	461	461
Kirtland	566	566
Fruitland	736	736
Pictured Cliffs	1,126	1,126
Lewis	1,236	1,237
Chacra	1,471	1,476
Cliff House	2,562	2,630
Menefee	2,577	2,646
Point Lookout	3,553	3,661
Mancos	3,708	3,816
Gallup (MNCS_A)	4,041	4,156
MNCS_B	4,133	4,263
MNCS_C	4,222	4,383
MNCS_Cms	4,270	4,460
MNCS_D	NA	NA
0	0	0
0	0	0
0	0	0
0	0	0
0	0	0
FTP TARGET	4,270	4,460
PROJECTED TD	4,334	15,930



Well: Greater Lybrook Unit 071H
Site: Greater Lybrook (59, 61, 63 & 71)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
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=6707+23.5 @ 6730.50ft



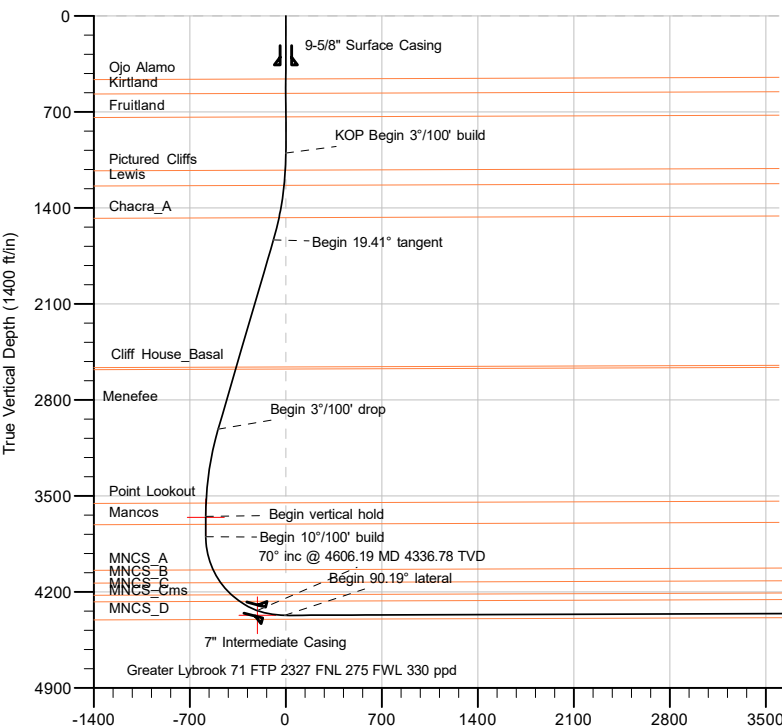
Azimuths to Grid North
True North: -0.05°
Magnetic North: 8.31°

Magnetic Field
Strength: 48893.4nT
Dip Angle: 62.65°
Date: 7/7/2025
Model: IGRF2020

Surface location:
Northing 1901787.26 Easting 2748029.44 Latitude 36.22658900 Longitude -107.74878100
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.314°

CASING DETAILS

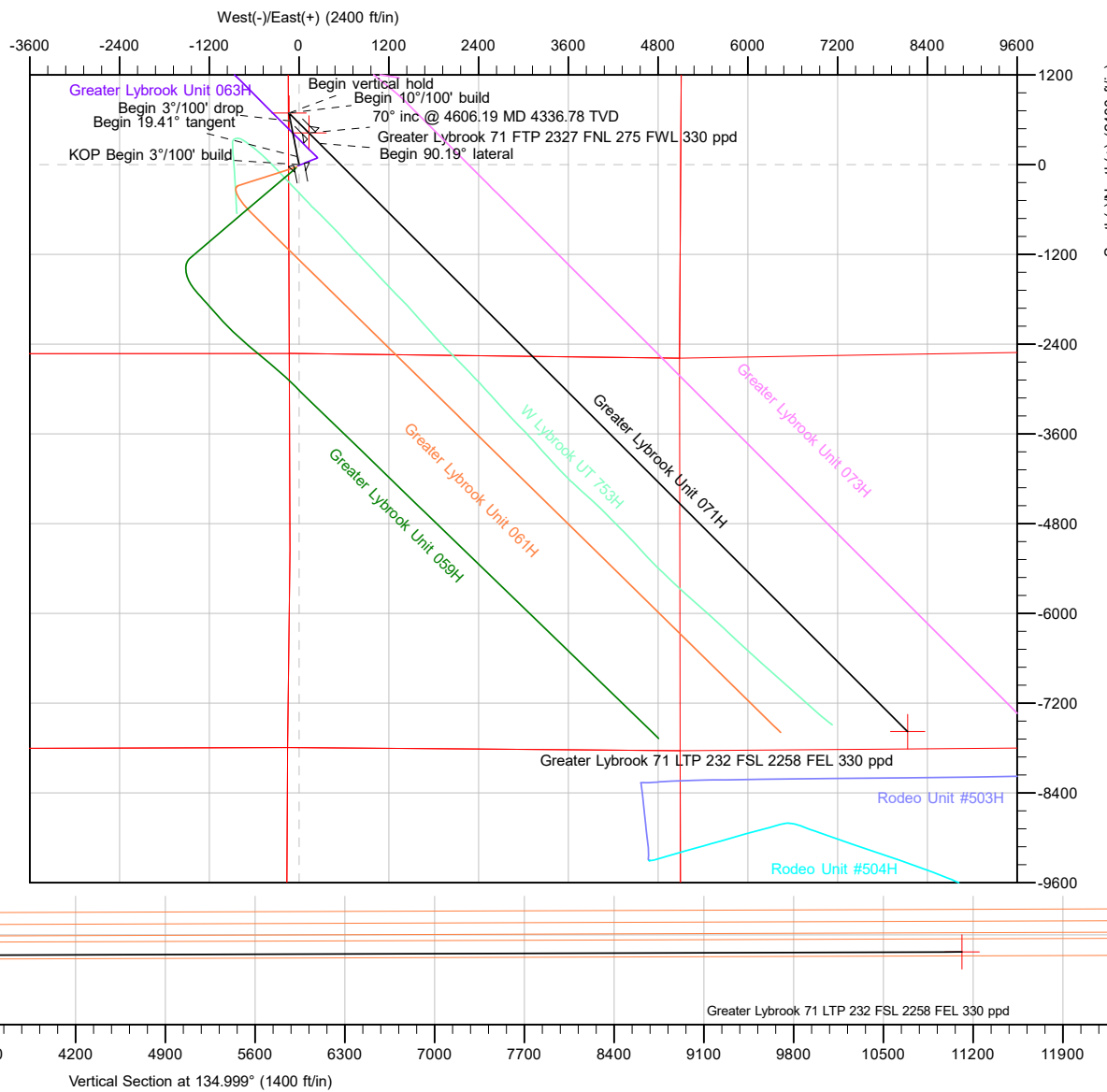
TVD	MD	Name
357.00	357.00	9-5/8" Surface Casing
4352.16	4657.55	7" Intermediate Casing



Section Details										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.000	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.000	0.00	KOP Begin 3"/100' build
3	1647.03	19.41	349.051	1634.72	106.58	-20.62	3.00	349.051	-89.94	Begin 19.41" tangent
4	3110.78	19.41	349.051	3015.28	584.19	-113.02	0.00	0.000	-492.99	Begin 3"/100' drop
5	3757.81	0.00	0.000	3650.00	690.77	-133.64	3.00	180.000	-582.94	Begin vertical hold
6	3906.19	0.00	0.000	3798.38	690.77	-133.64	0.00	0.000	-582.94	Begin 10"/100' build
7	4606.19	70.00	134.999	4336.78	424.20	132.94	10.00	134.999	-205.94	70" inc @ 4606.19 MD 4336.78 TVD
8	4808.12	90.19	134.999	4371.33	284.27	272.87	10.00	-0.001	-8.06	Begin 90.19" lateral
9	15929.91	90.19	134.999	4334.00	-7579.79	8137.31	0.00	0.000	11113.67	PBHL/TD @ 15929.91 MD 4334.00 TVD

DESIGN TARGET DETAILS

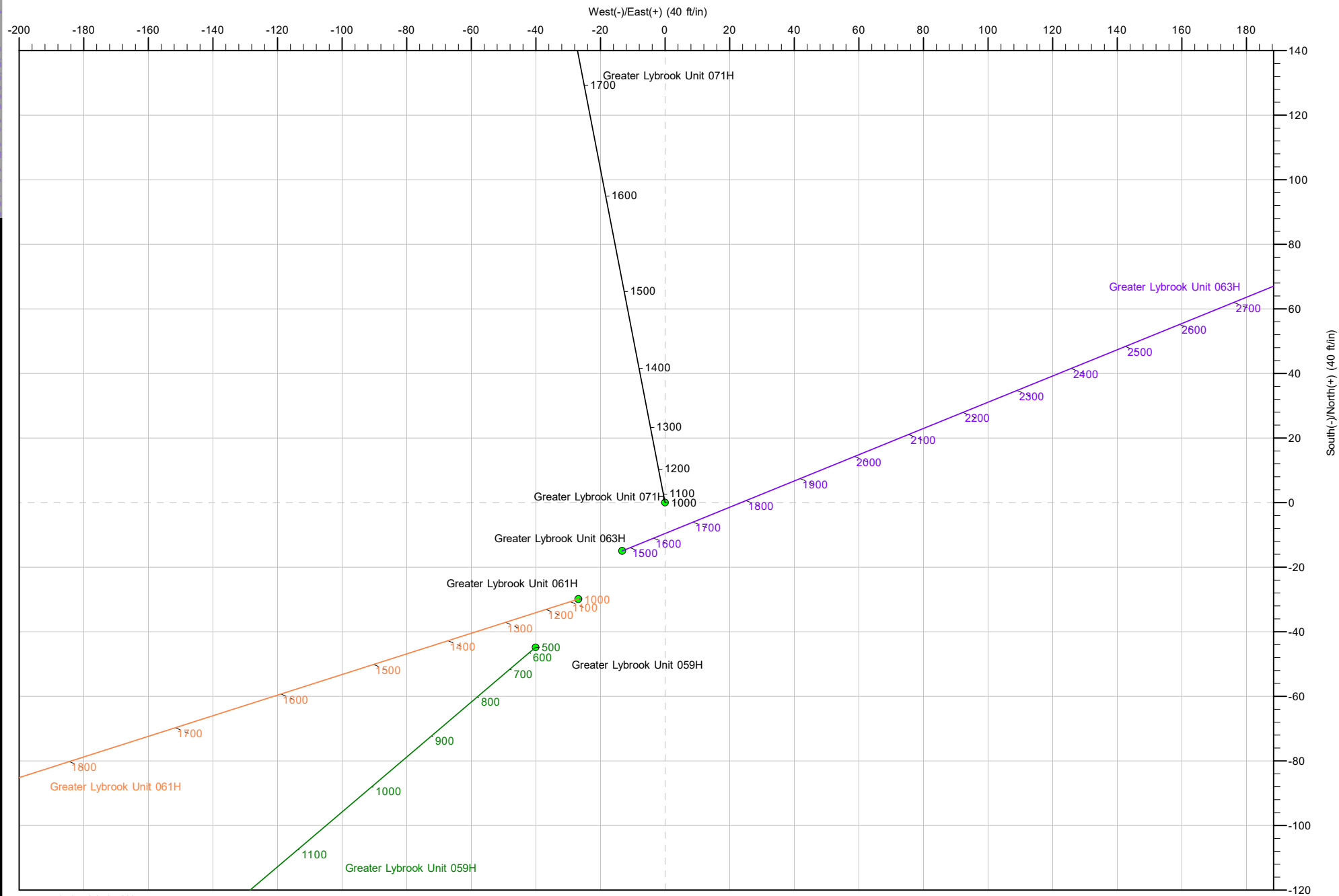
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Greater Lybrook 71 FTP 2327 FNL 275 FWL 330 ppd	4372.00	424.20	132.94	1902211.47	2748162.38	36.22775400	-107.74832900
Greater Lybrook 71 LTP 232 FSL 2258 FEL 330 ppd	4334.00	-7579.79	8137.31	1894207.49	2756166.74	36.20574400	-107.72122100
Greater Lybrook 71 vert	3657.00	690.77	-133.64	1902478.03	2747895.81	36.22848692	-107.74923207



Vertical Section at 134.999° (1400 ft/in)



Well: Greater Lybrook Unit 071H
Site: Greater Lybrook (59, 61, 63 & 71)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig:





Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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

Site		Greater Lybrook (59, 61, 63 & 71)			
Site Position:		Northing:	1,902,013.56 usft	Latitude:	36.22721100
From:	Lat/Long	Easting:	2,747,880.01 usft	Longitude:	-107.74928700
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Greater Lybrook Unit 071H, Surf loc: 2525 FSL 141 FWL Sectopm 13-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,901,787.27 usft	Latitude:	36.22658900
	+E/-W	0.00 ft	Easting:	2,748,029.44 usft	Longitude:	-107.74878100
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,707.00 ft
Grid Convergence:		0.050 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/7/2025	8.364	62.648	48,893.39808481

Design	rev1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	134.999	

Plan Survey Tool Program	Date	7/7/2025			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	15,929.51	rev1 (Original Hole)	MWD	
				OWSG MWD - Standard	



Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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	
1,647.03	19.41	349.051	1,634.72	106.58	-20.62	3.00	3.00	0.00	349.051	
3,110.78	19.41	349.051	3,015.28	584.19	-113.02	0.00	0.00	0.00	0.000	
3,757.81	0.00	0.000	3,650.00	690.77	-133.64	3.00	-3.00	0.00	180.000	
3,906.19	0.00	0.000	3,798.38	690.77	-133.64	0.00	0.00	0.00	0.000	
4,606.19	70.00	134.999	4,336.78	424.20	132.94	10.00	10.00	0.00	134.999	
4,808.12	90.19	134.999	4,371.33	284.27	272.87	10.00	10.00	0.00	-0.001	
15,929.91	90.19	134.999	4,334.00	-7,579.79	8,137.31	0.00	0.00	0.00	0.000	Greater Lybrook 71 L



Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
357.00	0.00	0.000	357.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
461.00	0.00	0.000	461.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
566.00	0.00	0.000	566.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
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
736.00	0.00	0.000	736.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,100.00	3.00	349.051	1,099.95	2.57	-0.50	-2.17	3.00	3.00	0.00
1,126.10	3.78	349.051	1,126.01	4.09	-0.79	-3.45	3.00	3.00	0.00
Pictured Cliffs									
1,200.00	6.00	349.051	1,199.63	10.27	-1.99	-8.67	3.00	3.00	0.00
1,236.65	7.10	349.051	1,236.04	14.38	-2.78	-12.13	3.00	3.00	0.00
Lewis									
1,300.00	9.00	349.051	1,298.77	23.09	-4.47	-19.48	3.00	3.00	0.00
1,400.00	12.00	349.051	1,397.08	40.98	-7.93	-34.58	3.00	3.00	0.00
1,476.08	14.28	349.051	1,471.16	57.96	-11.21	-48.91	3.00	3.00	0.00
Chacra_A									
1,500.00	15.00	349.051	1,494.31	63.89	-12.36	-53.92	3.00	3.00	0.00
1,600.00	18.00	349.051	1,590.18	91.77	-17.75	-77.45	3.00	3.00	0.00
1,647.03	19.41	349.051	1,634.72	106.58	-20.62	-89.94	3.00	3.00	0.00
Begin 19.41° tangent									
1,700.00	19.41	349.051	1,684.68	123.86	-23.96	-104.53	0.00	0.00	0.00
1,800.00	19.41	349.051	1,779.00	156.49	-30.28	-132.06	0.00	0.00	0.00
1,900.00	19.41	349.051	1,873.31	189.12	-36.59	-159.60	0.00	0.00	0.00
2,000.00	19.41	349.051	1,967.63	221.75	-42.90	-187.14	0.00	0.00	0.00
2,100.00	19.41	349.051	2,061.95	254.38	-49.21	-214.67	0.00	0.00	0.00
2,200.00	19.41	349.051	2,156.26	287.01	-55.53	-242.21	0.00	0.00	0.00
2,300.00	19.41	349.051	2,250.58	319.64	-61.84	-269.74	0.00	0.00	0.00
2,400.00	19.41	349.051	2,344.89	352.27	-68.15	-297.28	0.00	0.00	0.00
2,500.00	19.41	349.051	2,439.21	384.90	-74.46	-324.81	0.00	0.00	0.00
2,600.00	19.41	349.051	2,533.53	417.53	-80.78	-352.35	0.00	0.00	0.00
2,630.40	19.41	349.051	2,562.20	427.44	-82.69	-360.72	0.00	0.00	0.00
Cliff House_Basal									
2,646.32	19.41	349.051	2,577.21	432.64	-83.70	-365.10	0.00	0.00	0.00
Menefee									
2,700.00	19.41	349.051	2,627.84	450.15	-87.09	-379.88	0.00	0.00	0.00
2,800.00	19.41	349.051	2,722.16	482.78	-93.40	-407.42	0.00	0.00	0.00
2,900.00	19.41	349.051	2,816.47	515.41	-99.71	-434.95	0.00	0.00	0.00
3,000.00	19.41	349.051	2,910.79	548.04	-106.03	-462.49	0.00	0.00	0.00
3,100.00	19.41	349.051	3,005.11	580.67	-112.34	-490.03	0.00	0.00	0.00



Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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)	
3,110.78	19.41	349.051	3,015.28	584.19	-113.02	-492.99	0.00	0.00	0.00	
Begin 3°/100' drop										
3,200.00	16.73	349.051	3,100.08	611.36	-118.28	-515.92	3.00	-3.00	0.00	
3,300.00	13.73	349.051	3,196.56	637.15	-123.27	-537.69	3.00	-3.00	0.00	
3,400.00	10.73	349.051	3,294.28	657.96	-127.29	-555.25	3.00	-3.00	0.00	
3,500.00	7.73	349.051	3,392.97	673.71	-130.34	-568.54	3.00	-3.00	0.00	
3,600.00	4.73	349.051	3,492.37	684.37	-132.40	-577.54	3.00	-3.00	0.00	
3,660.70	2.91	349.051	3,552.93	688.35	-133.17	-580.89	3.00	-3.00	0.00	
Point Lookout										
3,700.00	1.73	349.051	3,592.20	689.91	-133.47	-582.21	3.00	-3.00	0.00	
3,757.81	0.00	0.000	3,650.00	690.77	-133.64	-582.94	3.00	-3.00	0.00	
Begin vertical hold										
3,764.81	0.00	0.000	3,657.00	690.77	-133.64	-582.94	0.00	0.00	0.00	
Greater Lybrook 71 vert										
3,800.00	0.00	0.000	3,692.19	690.77	-133.64	-582.94	0.00	0.00	0.00	
3,815.75	0.00	0.000	3,707.93	690.77	-133.64	-582.94	0.00	0.00	0.00	
Mancos										
3,906.19	0.00	0.000	3,798.38	690.77	-133.64	-582.94	0.00	0.00	0.00	
Begin 10°/100' build										
3,950.00	4.38	134.999	3,842.14	689.59	-132.45	-581.26	10.00	10.00	0.00	
4,000.00	9.38	134.999	3,891.77	685.35	-128.22	-575.28	10.00	10.00	0.00	
4,050.00	14.38	134.999	3,940.68	678.08	-120.94	-564.98	10.00	10.00	0.00	
4,100.00	19.38	134.999	3,988.51	667.81	-110.68	-550.47	10.00	10.00	0.00	
4,150.00	24.38	134.999	4,034.90	654.64	-97.51	-531.84	10.00	10.00	0.00	
4,156.45	25.03	134.999	4,040.75	652.74	-95.60	-529.15	10.00	10.00	0.00	
MNCS_A										
4,200.00	29.38	134.999	4,079.48	638.66	-81.53	-509.24	10.00	10.00	0.00	
4,250.00	34.38	134.999	4,121.92	619.99	-62.86	-482.84	10.00	10.00	0.00	
4,263.01	35.68	134.999	4,132.58	614.71	-57.58	-475.38	10.00	10.00	0.00	
MNCS_B										
4,300.00	39.38	134.999	4,161.90	598.78	-41.65	-452.85	10.00	10.00	0.00	
4,350.00	44.38	134.999	4,199.12	575.19	-18.05	-419.48	10.00	10.00	0.00	
4,383.42	47.72	134.999	4,222.31	558.18	-1.04	-395.42	10.00	10.00	0.00	
MNCS_C										
4,400.00	49.38	134.999	4,233.29	549.39	7.75	-382.99	10.00	10.00	0.00	
4,450.00	54.38	134.999	4,264.14	521.58	35.55	-343.67	10.00	10.00	0.00	
4,460.38	55.42	134.999	4,270.11	515.58	41.56	-335.17	10.00	10.00	0.00	
MNCS_Cms										
4,500.00	59.38	134.999	4,291.45	491.98	65.16	-301.80	10.00	10.00	0.00	
4,550.00	64.38	134.999	4,315.01	460.81	96.33	-257.72	10.00	10.00	0.00	
4,600.00	69.38	134.999	4,334.63	428.31	128.84	-211.75	10.00	10.00	0.00	
4,606.19	70.00	134.999	4,336.78	424.20	132.94	-205.94	10.00	10.00	0.00	
70° inc @ 4606.19 MD 4336.78 TVD										
4,616.96	71.08	134.999	4,340.37	417.02	140.12	-195.79	10.00	10.00	0.00	
Greater Lybrook 71 FTP 2327 FNL 275 FWL 330 pppd										
4,650.00	74.38	134.999	4,350.18	394.71	162.43	-164.25	10.00	10.00	0.00	
4,657.55	75.14	134.999	4,352.16	389.56	167.58	-156.96	10.00	10.00	0.00	
7" Intermediate Casing										
4,700.00	79.38	134.999	4,361.53	360.29	196.85	-115.57	10.00	10.00	0.00	
4,750.00	84.38	134.999	4,368.58	325.30	231.84	-66.08	10.00	10.00	0.00	
4,800.00	89.38	134.999	4,371.30	290.01	267.13	-16.17	10.00	10.00	0.00	
4,808.12	90.19	134.999	4,371.33	284.27	272.87	-8.06	10.00	10.00	0.00	



Planning Report

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Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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)
Begin 90.19° lateral									
4,900.00	90.19	134.999	4,371.03	219.31	337.84	83.83	0.00	0.00	0.00
5,000.00	90.19	134.999	4,370.69	148.60	408.56	183.83	0.00	0.00	0.00
5,100.00	90.19	134.999	4,370.35	77.89	479.27	283.83	0.00	0.00	0.00
5,200.00	90.19	134.999	4,370.02	7.18	549.98	383.83	0.00	0.00	0.00
5,300.00	90.19	134.999	4,369.68	-63.53	620.69	483.82	0.00	0.00	0.00
5,400.00	90.19	134.999	4,369.35	-134.24	691.40	583.82	0.00	0.00	0.00
5,500.00	90.19	134.999	4,369.01	-204.95	762.12	683.82	0.00	0.00	0.00
5,600.00	90.19	134.999	4,368.68	-275.66	832.83	783.82	0.00	0.00	0.00
5,700.00	90.19	134.999	4,368.34	-346.36	903.54	883.82	0.00	0.00	0.00
5,800.00	90.19	134.999	4,368.01	-417.07	974.25	983.82	0.00	0.00	0.00
5,900.00	90.19	134.999	4,367.67	-487.78	1,044.96	1,083.82	0.00	0.00	0.00
6,000.00	90.19	134.999	4,367.33	-558.49	1,115.68	1,183.82	0.00	0.00	0.00
6,100.00	90.19	134.999	4,367.00	-629.20	1,186.39	1,283.82	0.00	0.00	0.00
6,200.00	90.19	134.999	4,366.66	-699.91	1,257.10	1,383.82	0.00	0.00	0.00
6,300.00	90.19	134.999	4,366.33	-770.62	1,327.81	1,483.82	0.00	0.00	0.00
6,400.00	90.19	134.999	4,365.99	-841.32	1,398.52	1,583.82	0.00	0.00	0.00
6,500.00	90.19	134.999	4,365.66	-912.03	1,469.24	1,683.82	0.00	0.00	0.00
6,600.00	90.19	134.999	4,365.32	-982.74	1,539.95	1,783.82	0.00	0.00	0.00
6,700.00	90.19	134.999	4,364.98	-1,053.45	1,610.66	1,883.82	0.00	0.00	0.00
6,800.00	90.19	134.999	4,364.65	-1,124.16	1,681.37	1,983.82	0.00	0.00	0.00
6,900.00	90.19	134.999	4,364.31	-1,194.87	1,752.08	2,083.82	0.00	0.00	0.00
7,000.00	90.19	134.999	4,363.98	-1,265.58	1,822.80	2,183.82	0.00	0.00	0.00
7,100.00	90.19	134.999	4,363.64	-1,336.28	1,893.51	2,283.81	0.00	0.00	0.00
7,200.00	90.19	134.999	4,363.31	-1,406.99	1,964.22	2,383.81	0.00	0.00	0.00
7,300.00	90.19	134.999	4,362.97	-1,477.70	2,034.93	2,483.81	0.00	0.00	0.00
7,400.00	90.19	134.999	4,362.63	-1,548.41	2,105.64	2,583.81	0.00	0.00	0.00
7,500.00	90.19	134.999	4,362.30	-1,619.12	2,176.36	2,683.81	0.00	0.00	0.00
7,600.00	90.19	134.999	4,361.96	-1,689.83	2,247.07	2,783.81	0.00	0.00	0.00
7,700.00	90.19	134.999	4,361.63	-1,760.54	2,317.78	2,883.81	0.00	0.00	0.00
7,800.00	90.19	134.999	4,361.29	-1,831.24	2,388.49	2,983.81	0.00	0.00	0.00
7,900.00	90.19	134.999	4,360.96	-1,901.95	2,459.20	3,083.81	0.00	0.00	0.00
8,000.00	90.19	134.999	4,360.62	-1,972.66	2,529.92	3,183.81	0.00	0.00	0.00
8,100.00	90.19	134.999	4,360.28	-2,043.37	2,600.63	3,283.81	0.00	0.00	0.00
8,200.00	90.19	134.999	4,359.95	-2,114.08	2,671.34	3,383.81	0.00	0.00	0.00
8,300.00	90.19	134.999	4,359.61	-2,184.79	2,742.05	3,483.81	0.00	0.00	0.00
8,400.00	90.19	134.999	4,359.28	-2,255.50	2,812.76	3,583.81	0.00	0.00	0.00
8,500.00	90.19	134.999	4,358.94	-2,326.20	2,883.48	3,683.81	0.00	0.00	0.00
8,600.00	90.19	134.999	4,358.61	-2,396.91	2,954.19	3,783.81	0.00	0.00	0.00
8,700.00	90.19	134.999	4,358.27	-2,467.62	3,024.90	3,883.81	0.00	0.00	0.00
8,800.00	90.19	134.999	4,357.93	-2,538.33	3,095.61	3,983.81	0.00	0.00	0.00
8,900.00	90.19	134.999	4,357.60	-2,609.04	3,166.32	4,083.80	0.00	0.00	0.00
9,000.00	90.19	134.999	4,357.26	-2,679.75	3,237.03	4,183.80	0.00	0.00	0.00
9,100.00	90.19	134.999	4,356.93	-2,750.46	3,307.75	4,283.80	0.00	0.00	0.00
9,200.00	90.19	134.999	4,356.59	-2,821.16	3,378.46	4,383.80	0.00	0.00	0.00
9,300.00	90.19	134.999	4,356.26	-2,891.87	3,449.17	4,483.80	0.00	0.00	0.00
9,400.00	90.19	134.999	4,355.92	-2,962.58	3,519.88	4,583.80	0.00	0.00	0.00
9,500.00	90.19	134.999	4,355.58	-3,033.29	3,590.59	4,683.80	0.00	0.00	0.00
9,600.00	90.19	134.999	4,355.25	-3,104.00	3,661.31	4,783.80	0.00	0.00	0.00
9,700.00	90.19	134.999	4,354.91	-3,174.71	3,732.02	4,883.80	0.00	0.00	0.00
9,800.00	90.19	134.999	4,354.58	-3,245.42	3,802.73	4,983.80	0.00	0.00	0.00
9,900.00	90.19	134.999	4,354.24	-3,316.13	3,873.44	5,083.80	0.00	0.00	0.00
10,000.00	90.19	134.999	4,353.91	-3,386.83	3,944.15	5,183.80	0.00	0.00	0.00
10,100.00	90.19	134.999	4,353.57	-3,457.54	4,014.87	5,283.80	0.00	0.00	0.00



Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,200.00	90.19	134.999	4,353.23	-3,528.25	4,085.58	5,383.80	0.00	0.00	0.00
10,300.00	90.19	134.999	4,352.90	-3,598.96	4,156.29	5,483.80	0.00	0.00	0.00
10,400.00	90.19	134.999	4,352.56	-3,669.67	4,227.00	5,583.80	0.00	0.00	0.00
10,500.00	90.19	134.999	4,352.23	-3,740.38	4,297.71	5,683.80	0.00	0.00	0.00
10,600.00	90.19	134.999	4,351.89	-3,811.09	4,368.43	5,783.80	0.00	0.00	0.00
10,700.00	90.19	134.999	4,351.56	-3,881.79	4,439.14	5,883.79	0.00	0.00	0.00
10,800.00	90.19	134.999	4,351.22	-3,952.50	4,509.85	5,983.79	0.00	0.00	0.00
10,900.00	90.19	134.999	4,350.88	-4,023.21	4,580.56	6,083.79	0.00	0.00	0.00
11,000.00	90.19	134.999	4,350.55	-4,093.92	4,651.27	6,183.79	0.00	0.00	0.00
11,100.00	90.19	134.999	4,350.21	-4,164.63	4,721.99	6,283.79	0.00	0.00	0.00
11,200.00	90.19	134.999	4,349.88	-4,235.34	4,792.70	6,383.79	0.00	0.00	0.00
11,300.00	90.19	134.999	4,349.54	-4,306.05	4,863.41	6,483.79	0.00	0.00	0.00
11,400.00	90.19	134.999	4,349.21	-4,376.75	4,934.12	6,583.79	0.00	0.00	0.00
11,500.00	90.19	134.999	4,348.87	-4,447.46	5,004.83	6,683.79	0.00	0.00	0.00
11,600.00	90.19	134.999	4,348.54	-4,518.17	5,075.55	6,783.79	0.00	0.00	0.00
11,700.00	90.19	134.999	4,348.20	-4,588.88	5,146.26	6,883.79	0.00	0.00	0.00
11,800.00	90.19	134.999	4,347.86	-4,659.59	5,216.97	6,983.79	0.00	0.00	0.00
11,900.00	90.19	134.999	4,347.53	-4,730.30	5,287.68	7,083.79	0.00	0.00	0.00
12,000.00	90.19	134.999	4,347.19	-4,801.01	5,358.39	7,183.79	0.00	0.00	0.00
12,100.00	90.19	134.999	4,346.86	-4,871.71	5,429.11	7,283.79	0.00	0.00	0.00
12,200.00	90.19	134.999	4,346.52	-4,942.42	5,499.82	7,383.79	0.00	0.00	0.00
12,300.00	90.19	134.999	4,346.19	-5,013.13	5,570.53	7,483.79	0.00	0.00	0.00
12,400.00	90.19	134.999	4,345.85	-5,083.84	5,641.24	7,583.78	0.00	0.00	0.00
12,500.00	90.19	134.999	4,345.51	-5,154.55	5,711.95	7,683.78	0.00	0.00	0.00
12,600.00	90.19	134.999	4,345.18	-5,225.26	5,782.67	7,783.78	0.00	0.00	0.00
12,700.00	90.19	134.999	4,344.84	-5,295.97	5,853.38	7,883.78	0.00	0.00	0.00
12,800.00	90.19	134.999	4,344.51	-5,366.67	5,924.09	7,983.78	0.00	0.00	0.00
12,900.00	90.19	134.999	4,344.17	-5,437.38	5,994.80	8,083.78	0.00	0.00	0.00
13,000.00	90.19	134.999	4,343.84	-5,508.09	6,065.51	8,183.78	0.00	0.00	0.00
13,100.00	90.19	134.999	4,343.50	-5,578.80	6,136.23	8,283.78	0.00	0.00	0.00
13,200.00	90.19	134.999	4,343.16	-5,649.51	6,206.94	8,383.78	0.00	0.00	0.00
13,300.00	90.19	134.999	4,342.83	-5,720.22	6,277.65	8,483.78	0.00	0.00	0.00
13,400.00	90.19	134.999	4,342.49	-5,790.93	6,348.36	8,583.78	0.00	0.00	0.00
13,500.00	90.19	134.999	4,342.16	-5,861.63	6,419.07	8,683.78	0.00	0.00	0.00
13,600.00	90.19	134.999	4,341.82	-5,932.34	6,489.79	8,783.78	0.00	0.00	0.00
13,700.00	90.19	134.999	4,341.49	-6,003.05	6,560.50	8,883.78	0.00	0.00	0.00
13,800.00	90.19	134.999	4,341.15	-6,073.76	6,631.21	8,983.78	0.00	0.00	0.00
13,900.00	90.19	134.999	4,340.81	-6,144.47	6,701.92	9,083.78	0.00	0.00	0.00
14,000.00	90.19	134.999	4,340.48	-6,215.18	6,772.63	9,183.78	0.00	0.00	0.00
14,100.00	90.19	134.999	4,340.14	-6,285.89	6,843.34	9,283.78	0.00	0.00	0.00
14,200.00	90.19	134.999	4,339.81	-6,356.59	6,914.06	9,383.77	0.00	0.00	0.00
14,300.00	90.19	134.999	4,339.47	-6,427.30	6,984.77	9,483.77	0.00	0.00	0.00
14,400.00	90.19	134.999	4,339.14	-6,498.01	7,055.48	9,583.77	0.00	0.00	0.00
14,500.00	90.19	134.999	4,338.80	-6,568.72	7,126.19	9,683.77	0.00	0.00	0.00
14,600.00	90.19	134.999	4,338.46	-6,639.43	7,196.90	9,783.77	0.00	0.00	0.00
14,700.00	90.19	134.999	4,338.13	-6,710.14	7,267.62	9,883.77	0.00	0.00	0.00
14,800.00	90.19	134.999	4,337.79	-6,780.85	7,338.33	9,983.77	0.00	0.00	0.00
14,900.00	90.19	134.999	4,337.46	-6,851.56	7,409.04	10,083.77	0.00	0.00	0.00
15,000.00	90.19	134.999	4,337.12	-6,922.26	7,479.75	10,183.77	0.00	0.00	0.00
15,100.00	90.19	134.999	4,336.79	-6,992.97	7,550.46	10,283.77	0.00	0.00	0.00
15,200.00	90.19	134.999	4,336.45	-7,063.68	7,621.18	10,383.77	0.00	0.00	0.00
15,300.00	90.19	134.999	4,336.11	-7,134.39	7,691.89	10,483.77	0.00	0.00	0.00
15,400.00	90.19	134.999	4,335.78	-7,205.10	7,762.60	10,583.77	0.00	0.00	0.00
15,500.00	90.19	134.999	4,335.44	-7,275.81	7,833.31	10,683.77	0.00	0.00	0.00



Planning Report

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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)
15,600.00	90.19	134.999	4,335.11	-7,346.52	7,904.02	10,783.77	0.00	0.00	0.00
15,700.00	90.19	134.999	4,334.77	-7,417.22	7,974.74	10,883.77	0.00	0.00	0.00
15,800.00	90.19	134.999	4,334.44	-7,487.93	8,045.45	10,983.77	0.00	0.00	0.00
15,900.00	90.19	134.999	4,334.10	-7,558.64	8,116.16	11,083.77	0.00	0.00	0.00
15,929.91	90.19	134.999	4,334.00	-7,579.79	8,137.31	11,113.67	0.00	0.00	0.00
PBHL/TD @ 15929.91 MD 4334.00 TVD - Greater Lybrook 71 LTP 232 FSL 2258 FEL 330 ppd									

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
357.00	357.00	9-5/8" Surface Casing	9-5/8	12-1/4
4,657.55	4,352.16	7" Intermediate Casing	7	8-3/4

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
461.00	461.00	Ojo Alamo		-0.190	134.990
566.00	566.00	Kirtland		-0.190	134.990
736.00	736.00	Fruitland		-0.190	134.990
1,126.10	1,126.01	Pictured Cliffs		-0.190	134.990
1,236.65	1,236.04	Lewis		-0.190	134.990
1,476.08	1,471.16	Chacra_A		-0.190	134.990
2,630.40	2,562.20	Cliff House_Basal		-0.190	134.990
2,646.32	2,577.21	Menefee		-0.190	134.990
3,660.70	3,552.93	Point Lookout		-0.190	134.990
3,815.75	3,707.93	Mancos		-0.190	134.990
4,156.45	4,040.75	MNCS_A		-0.190	134.990
4,263.01	4,132.58	MNCS_B		-0.190	134.990
4,383.42	4,222.31	MNCS_C		-0.190	134.990
4,460.38	4,270.11	MNCS_Cms		-0.190	134.990

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
1,647.03	1,634.72	106.58	-20.62	Begin 19.41° tangent
3,110.78	3,015.28	584.19	-113.02	Begin 3°/100' drop
3,757.81	3,650.00	690.77	-133.64	Begin vertical hold
3,906.19	3,798.38	690.77	-133.64	Begin 10°/100' build
4,606.19	4,336.78	424.20	132.94	70° inc @ 4606.19 MD 4336.78 TVD
4,808.12	4,371.33	284.27	272.87	Begin 90.19° lateral
15,929.91	4,334.00	-7,579.79	8,137.31	PBHL/TD @ 15929.91 MD 4334.00 TVD



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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

Site	Greater Lybrook (59, 61, 63 & 71)					
Site Position:		Northing:	1,902,013.56	usft	Latitude:	36.22721100
From:	Lat/Long	Easting:	2,747,880.01	usft	Longitude:	-107.74928700
Position Uncertainty:	0.00	ft	Slot Radius:	13-3/16	"	

Well	Greater Lybrook Unit 071H, Surf loc: 2525 FSL 141 FWL Sectopm 13-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,901,787.27 usft	Latitude:	36.22658900
	+E/-W	0.00 ft	Easting:	2,748,029.44 usft	Longitude:	-107.74878100
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,707.00 ft
Grid Convergence:		0.050 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/7/2025	8.364	62.648	48,893.39808481

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	134.999

Plan Survey Tool Program	Date	7/7/2025		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,929.51 rev1 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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	
1,647.03	19.41	349.051	1,634.72	106.58	-20.62	3.00	3.00	0.00	349.051	
3,110.78	19.41	349.051	3,015.28	584.19	-113.02	0.00	0.00	0.00	0.000	
3,757.81	0.00	0.000	3,650.00	690.77	-133.64	3.00	-3.00	0.00	180.000	
3,906.19	0.00	0.000	3,798.38	690.77	-133.64	0.00	0.00	0.00	0.000	
4,606.19	70.00	134.999	4,336.78	424.20	132.94	10.00	10.00	0.00	134.999	
4,808.12	90.19	134.999	4,371.33	284.27	272.87	10.00	10.00	0.00	-0.001	
15,929.91	90.19	134.999	4,334.00	-7,579.79	8,137.31	0.00	0.00	0.00	0.000	Greater Lybrook 71 L1



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
100.00	0.00	0.000	100.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
200.00	0.00	0.000	200.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
300.00	0.00	0.000	300.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
357.00	0.00	0.000	357.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
461.00	0.00	0.000	461.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
Ojo Alamo									
500.00	0.00	0.000	500.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
566.00	0.00	0.000	566.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
Kirtland									
600.00	0.00	0.000	600.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
700.00	0.00	0.000	700.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
736.00	0.00	0.000	736.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
Fruitland									
800.00	0.00	0.000	800.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
900.00	0.00	0.000	900.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,901,787.27	2,748,029.44	36.22658900	-107.74878100
KOP Begin 3°/100' build									
1,100.00	3.00	349.051	1,099.95	2.57	-0.50	1,901,789.84	2,748,028.95	36.22659606	-107.74878268
1,126.10	3.78	349.051	1,126.01	4.09	-0.79	1,901,791.35	2,748,028.65	36.22660023	-107.74878367
Pictured Cliffs									
1,200.00	6.00	349.051	1,199.63	10.27	-1.99	1,901,797.54	2,748,027.46	36.22661722	-107.74878771
1,236.65	7.10	349.051	1,236.04	14.38	-2.78	1,901,801.64	2,748,026.66	36.22662850	-107.74879039
Lewis									
1,300.00	9.00	349.051	1,298.77	23.09	-4.47	1,901,810.35	2,748,024.98	36.22665243	-107.74879608
1,400.00	12.00	349.051	1,397.08	40.98	-7.93	1,901,828.24	2,748,021.52	36.22670158	-107.74880776
1,476.08	14.28	349.051	1,471.16	57.96	-11.21	1,901,845.22	2,748,018.23	36.22674824	-107.74881885
Chacra_A									
1,500.00	15.00	349.051	1,494.31	63.89	-12.36	1,901,851.16	2,748,017.08	36.22676455	-107.74882273
1,600.00	18.00	349.051	1,590.18	91.77	-17.75	1,901,879.04	2,748,011.69	36.22684115	-107.74884093
1,647.03	19.41	349.051	1,634.72	106.58	-20.62	1,901,893.85	2,748,008.83	36.22688184	-107.74885060
Begin 19.41° tangent									
1,700.00	19.41	349.051	1,684.68	123.86	-23.96	1,901,911.13	2,748,005.48	36.22692932	-107.74886189
1,800.00	19.41	349.051	1,779.00	156.49	-30.28	1,901,943.76	2,747,999.17	36.22701897	-107.74888319
1,900.00	19.41	349.051	1,873.31	189.12	-36.59	1,901,976.39	2,747,992.86	36.22710862	-107.74890450
2,000.00	19.41	349.051	1,967.63	221.75	-42.90	1,902,009.02	2,747,986.54	36.22719827	-107.74892581
2,100.00	19.41	349.051	2,061.95	254.38	-49.21	1,902,041.65	2,747,980.23	36.22728792	-107.74894711
2,200.00	19.41	349.051	2,156.26	287.01	-55.53	1,902,074.28	2,747,973.92	36.22737757	-107.74896842
2,300.00	19.41	349.051	2,250.58	319.64	-61.84	1,902,106.90	2,747,967.61	36.22746722	-107.74898973
2,400.00	19.41	349.051	2,344.89	352.27	-68.15	1,902,139.53	2,747,961.29	36.22755687	-107.74901103
2,500.00	19.41	349.051	2,439.21	384.90	-74.46	1,902,172.16	2,747,954.98	36.22764652	-107.74903234
2,600.00	19.41	349.051	2,533.53	417.53	-80.78	1,902,204.79	2,747,948.67	36.22773617	-107.74905365
2,630.40	19.41	349.051	2,562.20	427.44	-82.69	1,902,214.71	2,747,946.75	36.22776342	-107.74906012
Cliff House_Basal									
2,646.32	19.41	349.051	2,577.21	432.64	-83.70	1,902,219.90	2,747,945.75	36.22777769	-107.74906351
Menefee									
2,700.00	19.41	349.051	2,627.84	450.15	-87.09	1,902,237.42	2,747,942.36	36.22782582	-107.74907495
2,800.00	19.41	349.051	2,722.16	482.78	-93.40	1,902,270.05	2,747,936.04	36.22791547	-107.74909626
2,900.00	19.41	349.051	2,816.47	515.41	-99.71	1,902,302.68	2,747,929.73	36.22800512	-107.74911757
3,000.00	19.41	349.051	2,910.79	548.04	-106.03	1,902,335.31	2,747,923.42	36.22809477	-107.74913887
3,100.00	19.41	349.051	3,005.11	580.67	-112.34	1,902,367.94	2,747,917.11	36.22818442	-107.74916018



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,110.78	19.41	349.051	3,015.28	584.19	-113.02	1,902,371.45	2,747,916.43	36.22819409	-107.74916248	
Begin 3°/100' drop										
3,200.00	16.73	349.051	3,100.08	611.36	-118.28	1,902,398.62	2,747,911.17	36.22826874	-107.74918022	
3,300.00	13.73	349.051	3,196.56	637.15	-123.27	1,902,424.42	2,747,906.18	36.22833961	-107.74919707	
3,400.00	10.73	349.051	3,294.28	657.96	-127.29	1,902,445.22	2,747,902.15	36.22839677	-107.74921065	
3,500.00	7.73	349.051	3,392.97	673.71	-130.34	1,902,460.98	2,747,899.11	36.22844005	-107.74922094	
3,600.00	4.73	349.051	3,492.37	684.37	-132.40	1,902,471.64	2,747,897.04	36.22846934	-107.74922790	
3,660.70	2.91	349.051	3,552.93	688.35	-133.17	1,902,475.61	2,747,896.28	36.22848026	-107.74923049	
Point Lookout										
3,700.00	1.73	349.051	3,592.20	689.91	-133.47	1,902,477.18	2,747,895.97	36.22848456	-107.74923152	
3,757.81	0.00	0.000	3,650.00	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208	
Begin vertical hold										
3,764.81	0.00	0.000	3,657.00	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208	
Greater Lybrook 71 vert										
3,800.00	0.00	0.000	3,692.19	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208	
3,815.75	0.00	0.000	3,707.93	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208	
Mancos										
3,906.19	0.00	0.000	3,798.38	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208	
Begin 10°/100' build										
3,950.00	4.38	134.999	3,842.14	689.59	-132.45	1,902,476.85	2,747,896.99	36.22848367	-107.74922807	
4,000.00	9.38	134.999	3,891.77	685.35	-128.22	1,902,472.62	2,747,901.22	36.22847202	-107.74921372	
4,050.00	14.38	134.999	3,940.68	678.08	-120.94	1,902,465.34	2,747,908.50	36.22845202	-107.74918907	
4,100.00	19.38	134.999	3,988.51	667.81	-110.68	1,902,455.08	2,747,918.76	36.22842380	-107.74915430	
4,150.00	24.38	134.999	4,034.90	654.64	-97.51	1,902,441.91	2,747,931.94	36.22838759	-107.74910968	
4,156.45	25.03	134.999	4,040.75	652.74	-95.60	1,902,440.00	2,747,933.84	36.22838235	-107.74910322	
MNCS_A										
4,200.00	29.38	134.999	4,079.48	638.66	-81.53	1,902,425.93	2,747,947.92	36.22834365	-107.74905554	
4,250.00	34.38	134.999	4,121.92	619.99	-62.86	1,902,407.26	2,747,966.58	36.22829232	-107.74899230	
4,263.01	35.68	134.999	4,132.58	614.71	-57.58	1,902,401.98	2,747,971.87	36.22827781	-107.74897442	
MNCS_B										
4,300.00	39.38	134.999	4,161.90	598.78	-41.65	1,902,386.05	2,747,987.80	36.22823400	-107.74892045	
4,350.00	44.38	134.999	4,199.12	575.19	-18.05	1,902,362.45	2,748,011.39	36.22816913	-107.74884051	
4,383.42	47.72	134.999	4,222.31	558.18	-1.04	1,902,345.44	2,748,028.40	36.22812236	-107.74878288	
MNCS_C										
4,400.00	49.38	134.999	4,233.29	549.39	7.75	1,902,336.66	2,748,037.19	36.22809820	-107.74875311	
4,450.00	54.38	134.999	4,264.14	521.58	35.55	1,902,308.85	2,748,065.00	36.22802175	-107.74865891	
4,460.38	55.42	134.999	4,270.11	515.58	41.56	1,902,302.84	2,748,071.01	36.22800523	-107.74863856	
MNCS_Cms										
4,500.00	59.38	134.999	4,291.45	491.98	65.16	1,902,279.25	2,748,094.60	36.22794036	-107.74855863	
4,550.00	64.38	134.999	4,315.01	460.81	96.33	1,902,248.08	2,748,125.77	36.22785465	-107.74845303	
4,600.00	69.38	134.999	4,334.63	428.31	128.84	1,902,215.57	2,748,158.28	36.22776528	-107.74834291	
4,606.19	70.00	134.999	4,336.78	424.20	132.94	1,902,211.46	2,748,162.39	36.22775399	-107.74832900	
70° inc @ 4606.19 MD 4336.78 TVD										
4,616.96	71.08	134.999	4,340.37	417.02	140.12	1,902,204.28	2,748,169.57	36.22773425	-107.74830468	
Greater Lybrook 71 FTP 2327 FNL 275 FWL 330 ppd										
4,650.00	74.38	134.999	4,350.18	394.71	162.43	1,902,181.98	2,748,191.87	36.22767292	-107.74822912	
4,657.55	75.14	134.999	4,352.16	389.56	167.58	1,902,176.83	2,748,197.02	36.22765876	-107.74821167	
7" Intermediate Casing										
4,700.00	79.38	134.999	4,361.53	360.29	196.85	1,902,147.56	2,748,226.29	36.22757828	-107.74811251	
4,750.00	84.38	134.999	4,368.58	325.30	231.84	1,902,112.57	2,748,261.28	36.22748208	-107.74799397	
4,800.00	89.38	134.999	4,371.30	290.01	267.13	1,902,077.28	2,748,296.58	36.22738505	-107.74787442	
4,808.12	90.19	134.999	4,371.33	284.27	272.87	1,902,071.54	2,748,302.32	36.22736927	-107.74785498	
Begin 90.19° lateral										



Planning Report - Geographic

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Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,900.00	90.19	134.999	4,371.03	219.31	337.84	1,902,006.57	2,748,367.29	36.22719063	-107.74763488
5,000.00	90.19	134.999	4,370.69	148.60	408.56	1,901,935.86	2,748,438.00	36.22699622	-107.74739534
5,100.00	90.19	134.999	4,370.35	77.89	479.27	1,901,865.15	2,748,508.71	36.22680181	-107.74715580
5,200.00	90.19	134.999	4,370.02	7.18	549.98	1,901,794.45	2,748,579.42	36.22660739	-107.74691626
5,300.00	90.19	134.999	4,369.68	-63.53	620.69	1,901,723.74	2,748,650.14	36.22641297	-107.74667673
5,400.00	90.19	134.999	4,369.35	-134.24	691.40	1,901,653.03	2,748,720.85	36.22621856	-107.74643719
5,500.00	90.19	134.999	4,369.01	-204.95	762.12	1,901,582.32	2,748,791.56	36.22602414	-107.74619766
5,600.00	90.19	134.999	4,368.68	-275.66	832.83	1,901,511.61	2,748,862.27	36.22582972	-107.74595812
5,700.00	90.19	134.999	4,368.34	-346.36	903.54	1,901,440.90	2,748,932.98	36.22563531	-107.74571859
5,800.00	90.19	134.999	4,368.01	-417.07	974.25	1,901,370.20	2,749,003.69	36.22544089	-107.74547906
5,900.00	90.19	134.999	4,367.67	-487.78	1,044.96	1,901,299.49	2,749,074.41	36.22524647	-107.74523953
6,000.00	90.19	134.999	4,367.33	-558.49	1,115.68	1,901,228.78	2,749,145.12	36.22505205	-107.74500001
6,100.00	90.19	134.999	4,367.00	-629.20	1,186.39	1,901,158.07	2,749,215.83	36.22485763	-107.74476048
6,200.00	90.19	134.999	4,366.66	-699.91	1,257.10	1,901,087.36	2,749,286.54	36.22466321	-107.74452095
6,300.00	90.19	134.999	4,366.33	-770.62	1,327.81	1,901,016.65	2,749,357.25	36.22446879	-107.74428143
6,400.00	90.19	134.999	4,365.99	-841.32	1,398.52	1,900,945.94	2,749,427.97	36.22427437	-107.74404191
6,500.00	90.19	134.999	4,365.66	-912.03	1,469.24	1,900,875.24	2,749,498.68	36.22407995	-107.74380238
6,600.00	90.19	134.999	4,365.32	-982.74	1,539.95	1,900,804.53	2,749,569.39	36.22388553	-107.74356286
6,700.00	90.19	134.999	4,364.98	-1,053.45	1,610.66	1,900,733.82	2,749,640.10	36.22369110	-107.74332334
6,800.00	90.19	134.999	4,364.65	-1,124.16	1,681.37	1,900,663.11	2,749,710.81	36.22349668	-107.74308383
6,900.00	90.19	134.999	4,364.31	-1,194.87	1,752.08	1,900,592.40	2,749,781.52	36.22330226	-107.74284431
7,000.00	90.19	134.999	4,363.98	-1,265.58	1,822.80	1,900,521.69	2,749,852.24	36.22310783	-107.74260479
7,100.00	90.19	134.999	4,363.64	-1,336.28	1,893.51	1,900,450.99	2,749,922.95	36.22291341	-107.74236528
7,200.00	90.19	134.999	4,363.31	-1,406.99	1,964.22	1,900,380.28	2,749,993.66	36.22271898	-107.74212576
7,300.00	90.19	134.999	4,362.97	-1,477.70	2,034.93	1,900,309.57	2,750,064.37	36.22252456	-107.74188625
7,400.00	90.19	134.999	4,362.63	-1,548.41	2,105.64	1,900,238.86	2,750,135.08	36.22233013	-107.74164674
7,500.00	90.19	134.999	4,362.30	-1,619.12	2,176.36	1,900,168.15	2,750,205.80	36.22213571	-107.74140723
7,600.00	90.19	134.999	4,361.96	-1,689.83	2,247.07	1,900,097.44	2,750,276.51	36.22194128	-107.74116772
7,700.00	90.19	134.999	4,361.63	-1,760.54	2,317.78	1,900,026.73	2,750,347.22	36.22174685	-107.74092821
7,800.00	90.19	134.999	4,361.29	-1,831.24	2,388.49	1,899,956.03	2,750,417.93	36.22155242	-107.74068871
7,900.00	90.19	134.999	4,360.96	-1,901.95	2,459.20	1,899,885.32	2,750,488.64	36.22135800	-107.74044920
8,000.00	90.19	134.999	4,360.62	-1,972.66	2,529.92	1,899,814.61	2,750,559.35	36.22116357	-107.74020970
8,100.00	90.19	134.999	4,360.28	-2,043.37	2,600.63	1,899,743.90	2,750,630.07	36.22096914	-107.73997019
8,200.00	90.19	134.999	4,359.95	-2,114.08	2,671.34	1,899,673.19	2,750,700.78	36.22077471	-107.73973069
8,300.00	90.19	134.999	4,359.61	-2,184.79	2,742.05	1,899,602.48	2,750,771.49	36.22058028	-107.73949119
8,400.00	90.19	134.999	4,359.28	-2,255.50	2,812.76	1,899,531.78	2,750,842.20	36.22038585	-107.73925169
8,500.00	90.19	134.999	4,358.94	-2,326.20	2,883.48	1,899,461.07	2,750,912.91	36.22019142	-107.73901219
8,600.00	90.19	134.999	4,358.61	-2,396.91	2,954.19	1,899,390.36	2,750,983.63	36.21999698	-107.73877270
8,700.00	90.19	134.999	4,358.27	-2,467.62	3,024.90	1,899,319.65	2,751,054.34	36.21980255	-107.73853320
8,800.00	90.19	134.999	4,357.93	-2,538.33	3,095.61	1,899,248.94	2,751,125.05	36.21960812	-107.73829371
8,900.00	90.19	134.999	4,357.60	-2,609.04	3,166.32	1,899,178.23	2,751,195.76	36.21941369	-107.73805421
9,000.00	90.19	134.999	4,357.26	-2,679.75	3,237.03	1,899,107.52	2,751,266.47	36.21921925	-107.73781472
9,100.00	90.19	134.999	4,356.93	-2,750.46	3,307.75	1,899,036.82	2,751,337.18	36.21902482	-107.73757523
9,200.00	90.19	134.999	4,356.59	-2,821.16	3,378.46	1,898,966.11	2,751,407.90	36.21883038	-107.73733574
9,300.00	90.19	134.999	4,356.26	-2,891.87	3,449.17	1,898,895.40	2,751,478.61	36.21863595	-107.73709625
9,400.00	90.19	134.999	4,355.92	-2,962.58	3,519.88	1,898,824.69	2,751,549.32	36.21844151	-107.73685676
9,500.00	90.19	134.999	4,355.58	-3,033.29	3,590.59	1,898,753.98	2,751,620.03	36.21824708	-107.73661728
9,600.00	90.19	134.999	4,355.25	-3,104.00	3,661.31	1,898,683.27	2,751,690.74	36.21805264	-107.73637779
9,700.00	90.19	134.999	4,354.91	-3,174.71	3,732.02	1,898,612.57	2,751,761.46	36.21785820	-107.73613831
9,800.00	90.19	134.999	4,354.58	-3,245.42	3,802.73	1,898,541.86	2,751,832.17	36.21766377	-107.73589882
9,900.00	90.19	134.999	4,354.24	-3,316.13	3,873.44	1,898,471.15	2,751,902.88	36.21746933	-107.73565934
10,000.00	90.19	134.999	4,353.91	-3,386.83	3,944.15	1,898,400.44	2,751,973.59	36.21727489	-107.73541986
10,100.00	90.19	134.999	4,353.57	-3,457.54	4,014.87	1,898,329.73	2,752,044.30	36.21708045	-107.73518038
10,200.00	90.19	134.999	4,353.23	-3,528.25	4,085.58	1,898,259.02	2,752,115.01	36.21688601	-107.73494090
10,300.00	90.19	134.999	4,352.90	-3,598.96	4,156.29	1,898,188.31	2,752,185.73	36.21669157	-107.73470143



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,400.00	90.19	134.999	4,352.56	-3,669.67	4,227.00	1,898,117.61	2,752,256.44	36.21649713	-107.73446195	
10,500.00	90.19	134.999	4,352.23	-3,740.38	4,297.71	1,898,046.90	2,752,327.15	36.21630269	-107.73422248	
10,600.00	90.19	134.999	4,351.89	-3,811.09	4,368.43	1,897,976.19	2,752,397.86	36.21610825	-107.73398300	
10,700.00	90.19	134.999	4,351.56	-3,881.79	4,439.14	1,897,905.48	2,752,468.57	36.21591381	-107.73374353	
10,800.00	90.19	134.999	4,351.22	-3,952.50	4,509.85	1,897,834.77	2,752,539.29	36.21571936	-107.73350406	
10,900.00	90.19	134.999	4,350.88	-4,023.21	4,580.56	1,897,764.06	2,752,610.00	36.21552492	-107.73326459	
11,000.00	90.19	134.999	4,350.55	-4,093.92	4,651.27	1,897,693.36	2,752,680.71	36.21533048	-107.73302512	
11,100.00	90.19	134.999	4,350.21	-4,164.63	4,721.99	1,897,622.65	2,752,751.42	36.21513603	-107.73278565	
11,200.00	90.19	134.999	4,349.88	-4,235.34	4,792.70	1,897,551.94	2,752,822.13	36.21494159	-107.73254619	
11,300.00	90.19	134.999	4,349.54	-4,306.05	4,863.41	1,897,481.23	2,752,892.84	36.21474714	-107.73230672	
11,400.00	90.19	134.999	4,349.21	-4,376.75	4,934.12	1,897,410.52	2,752,963.56	36.21455270	-107.73206726	
11,500.00	90.19	134.999	4,348.87	-4,447.46	5,004.83	1,897,339.81	2,753,034.27	36.21435825	-107.73182780	
11,600.00	90.19	134.999	4,348.54	-4,518.17	5,075.55	1,897,269.10	2,753,104.98	36.21416381	-107.73158833	
11,700.00	90.19	134.999	4,348.20	-4,588.88	5,146.26	1,897,198.40	2,753,175.69	36.21396936	-107.73134887	
11,800.00	90.19	134.999	4,347.86	-4,659.59	5,216.97	1,897,127.69	2,753,246.40	36.21377491	-107.73110941	
11,900.00	90.19	134.999	4,347.53	-4,730.30	5,287.68	1,897,056.98	2,753,317.12	36.21358047	-107.73086996	
12,000.00	90.19	134.999	4,347.19	-4,801.01	5,358.39	1,896,986.27	2,753,387.83	36.21338602	-107.73063050	
12,100.00	90.19	134.999	4,346.86	-4,871.71	5,429.11	1,896,915.56	2,753,458.54	36.21319157	-107.73039104	
12,200.00	90.19	134.999	4,346.52	-4,942.42	5,499.82	1,896,844.85	2,753,529.25	36.21299712	-107.73015159	
12,300.00	90.19	134.999	4,346.19	-5,013.13	5,570.53	1,896,774.15	2,753,599.96	36.21280267	-107.72991214	
12,400.00	90.19	134.999	4,345.85	-5,083.84	5,641.24	1,896,703.44	2,753,670.67	36.21260822	-107.72967268	
12,500.00	90.19	134.999	4,345.51	-5,154.55	5,711.95	1,896,632.73	2,753,741.39	36.21241377	-107.72943323	
12,600.00	90.19	134.999	4,345.18	-5,225.26	5,782.67	1,896,562.02	2,753,812.10	36.21221932	-107.72919378	
12,700.00	90.19	134.999	4,344.84	-5,295.97	5,853.38	1,896,491.31	2,753,882.81	36.21202487	-107.72895434	
12,800.00	90.19	134.999	4,344.51	-5,366.67	5,924.09	1,896,420.60	2,753,953.52	36.21183042	-107.72871489	
12,900.00	90.19	134.999	4,344.17	-5,437.38	5,994.80	1,896,349.89	2,754,024.23	36.21163596	-107.72847544	
13,000.00	90.19	134.999	4,343.84	-5,508.09	6,065.51	1,896,279.19	2,754,094.95	36.21144151	-107.72823600	
13,100.00	90.19	134.999	4,343.50	-5,578.80	6,136.23	1,896,208.48	2,754,165.66	36.21124706	-107.72799655	
13,200.00	90.19	134.999	4,343.16	-5,649.51	6,206.94	1,896,137.77	2,754,236.37	36.21105260	-107.72775711	
13,300.00	90.19	134.999	4,342.83	-5,720.22	6,277.65	1,896,067.06	2,754,307.08	36.21085815	-107.72751767	
13,400.00	90.19	134.999	4,342.49	-5,790.93	6,348.36	1,895,996.35	2,754,377.79	36.21066369	-107.72727823	
13,500.00	90.19	134.999	4,342.16	-5,861.63	6,419.07	1,895,925.64	2,754,448.50	36.21046924	-107.72703879	
13,600.00	90.19	134.999	4,341.82	-5,932.34	6,489.79	1,895,854.94	2,754,519.22	36.21027478	-107.72679935	
13,700.00	90.19	134.999	4,341.49	-6,003.05	6,560.50	1,895,784.23	2,754,589.93	36.21008033	-107.72655992	
13,800.00	90.19	134.999	4,341.15	-6,073.76	6,631.21	1,895,713.52	2,754,660.64	36.20988587	-107.72632048	
13,900.00	90.19	134.999	4,340.81	-6,144.47	6,701.92	1,895,642.81	2,754,731.35	36.20969141	-107.72608105	
14,000.00	90.19	134.999	4,340.48	-6,215.18	6,772.63	1,895,572.10	2,754,802.06	36.20949695	-107.72584161	
14,100.00	90.19	134.999	4,340.14	-6,285.89	6,843.34	1,895,501.39	2,754,872.78	36.20930249	-107.72560218	
14,200.00	90.19	134.999	4,339.81	-6,356.59	6,914.06	1,895,430.68	2,754,943.49	36.20910804	-107.72536275	
14,300.00	90.19	134.999	4,339.47	-6,427.30	6,984.77	1,895,359.98	2,755,014.20	36.20891358	-107.72512332	
14,400.00	90.19	134.999	4,339.14	-6,498.01	7,055.48	1,895,289.27	2,755,084.91	36.20871912	-107.72488389	
14,500.00	90.19	134.999	4,338.80	-6,568.72	7,126.19	1,895,218.56	2,755,155.62	36.20852466	-107.72464447	
14,600.00	90.19	134.999	4,338.46	-6,639.43	7,196.90	1,895,147.85	2,755,226.33	36.20833020	-107.72440504	
14,700.00	90.19	134.999	4,338.13	-6,710.14	7,267.62	1,895,077.14	2,755,297.05	36.20813573	-107.72416561	
14,800.00	90.19	134.999	4,337.79	-6,780.85	7,338.33	1,895,006.43	2,755,367.76	36.20794127	-107.72392619	
14,900.00	90.19	134.999	4,337.46	-6,851.56	7,409.04	1,894,935.73	2,755,438.47	36.20774681	-107.72368677	
15,000.00	90.19	134.999	4,337.12	-6,922.26	7,479.75	1,894,865.02	2,755,509.18	36.20755235	-107.72344735	
15,100.00	90.19	134.999	4,336.79	-6,992.97	7,550.46	1,894,794.31	2,755,579.89	36.20735789	-107.72320793	
15,200.00	90.19	134.999	4,336.45	-7,063.68	7,621.18	1,894,723.60	2,755,650.61	36.20716342	-107.72296851	
15,300.00	90.19	134.999	4,336.11	-7,134.39	7,691.89	1,894,652.89	2,755,721.32	36.20696896	-107.72272909	
15,400.00	90.19	134.999	4,335.78	-7,205.10	7,762.60	1,894,582.18	2,755,792.03	36.20677449	-107.72248967	
15,500.00	90.19	134.999	4,335.44	-7,275.81	7,833.31	1,894,511.47	2,755,862.74	36.20658003	-107.72225026	
15,600.00	90.19	134.999	4,335.11	-7,346.52	7,904.02	1,894,440.77	2,755,933.45	36.20638556	-107.72201084	
15,700.00	90.19	134.999	4,334.77	-7,417.22	7,974.74	1,894,370.06	2,756,004.16	36.20619110	-107.72177143	
15,800.00	90.19	134.999	4,334.44	-7,487.93	8,045.45	1,894,299.35	2,756,074.88	36.20599663	-107.72153202	



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,900.00	90.19	134.999	4,334.10	-7,558.64	8,116.16	1,894,228.64	2,756,145.59	36.20580216	-107.72129261
15,929.91	90.19	134.999	4,334.00	-7,579.79	8,137.31	1,894,207.49	2,756,166.74	36.20574400	-107.72122100
PBHL/TD @ 15929.91 MD 4334.00 TVD - Greater Lybrook 71 LTP 232 FSL 2258 FEL 330 ppd									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Greater Lybrook 71 vert - plan hits target center - Point	0.00	0.000	3,657.00	690.77	-133.64	1,902,478.04	2,747,895.81	36.22848692	-107.74923208
Greater Lybrook 71 LTP - plan hits target center - Point	0.00	0.000	4,334.00	-7,579.79	8,137.31	1,894,207.49	2,756,166.74	36.20574400	-107.72122100
Greater Lybrook 71 FTP - plan misses target center by 33.22ft at 4616.96ft MD (4340.37 TVD, 417.02 N, 140.12 E) - Point	0.00	0.000	4,372.00	424.20	132.94	1,902,211.47	2,748,162.39	36.22775400	-107.74832900

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
357.00	357.00	9-5/8" Surface Casing	9-5/8	12-1/4	
4,657.55	4,352.16	7" Intermediate Casing	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
461.00	461.00	Ojo Alamo		-0.190	134.990
566.00	566.00	Kirtland		-0.190	134.990
736.00	736.00	Fruitland		-0.190	134.990
1,126.10	1,126.01	Pictured Cliffs		-0.190	134.990
1,236.65	1,236.04	Lewis		-0.190	134.990
1,476.08	1,471.16	Chacra_A		-0.190	134.990
2,630.40	2,562.20	Cliff House_Basal		-0.190	134.990
2,646.32	2,577.21	Menefee		-0.190	134.990
3,660.70	3,552.93	Point Lookout		-0.190	134.990
3,815.75	3,707.93	Mancos		-0.190	134.990
4,156.45	4,040.75	MNCS_A		-0.190	134.990
4,263.01	4,132.58	MNCS_B		-0.190	134.990
4,383.42	4,222.31	MNCS_C		-0.190	134.990
4,460.38	4,270.11	MNCS_Cms		-0.190	134.990



Planning Report - Geographic

Database:	DT-Jun1425_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site:	Greater Lybrook (59, 61, 63 & 71)	North Reference:	Grid
Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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	
1,647.03	1,634.72	106.58	-20.62	Begin 19.41° tangent	
3,110.78	3,015.28	584.19	-113.02	Begin 3°/100' drop	
3,757.81	3,650.00	690.77	-133.64	Begin vertical hold	
3,906.19	3,798.38	690.77	-133.64	Begin 10°/100' build	
4,606.19	4,336.78	424.20	132.94	70° inc @ 4606.19 MD 4336.78 TVD	
4,808.12	4,371.33	284.27	272.87	Begin 90.19° lateral	
15,929.91	4,334.00	-7,579.79	8,137.31	PBHL/TD @ 15929.91 MD 4334.00 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference	rev1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,792.99ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	7/7/2025		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,929.51	rev1 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Greater Lybrook (59, 61, 63 & 71)						
Greater Lybrook Unit 059H - Original Hole - rev1	500.00	500.00	60.11	56.70	17.597	CC, ES
Greater Lybrook Unit 059H - Original Hole - rev1	700.00	693.29	70.16	65.38	14.655	SF
Greater Lybrook Unit 061H - Original Hole - rev1	1,000.00	1,000.00	40.14	33.14	5.734	CC, ES
Greater Lybrook Unit 061H - Original Hole - rev1	14,739.86	14,551.88	1,208.57	739.56	2.577	SF
Greater Lybrook Unit 063H - Original Hole - rev1	1,000.00	1,000.00	19.97	12.97	2.853	CC, ES
Greater Lybrook Unit 063H - Original Hole - rev1	1,100.00	1,099.95	21.66	13.95	2.807	SF
Greater Lybrook (65, 67, 69, 73, 75 & 77)						
Greater Lybrook Unit 073H - Original Hole - rev0	4,826.53	4,311.60	1,185.37	1,150.80	34.288	CC
Greater Lybrook Unit 073H - Original Hole - rev0	15,929.91	15,454.92	1,208.42	689.73	2.330	ES, SF
Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510)						
Rodeo Unit #503H - Original Hole - MWD surveys	15,929.91	8,309.01	732.35	516.01	3.385	CC, ES, SF
Rodeo Unit #504H - Original Hole - MWD surveys	15,929.91	6,364.48	1,701.11	1,418.84	6.027	CC, ES, SF
W Lybrook Unit						
W Lybrook UT 753H - Original Hole - Surveys Original Ho	15,152.30	15,866.00	765.28	383.64	2.005	CC, ES, SF

Offset Design:	Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 059H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program:	0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	-138.194	-44.81	-40.07	60.11					
100.00	100.00	100.00	100.00	0.27	0.27	-138.194	-44.81	-40.07	60.11	59.57	0.55	109.605		
200.00	200.00	200.00	200.00	0.63	0.63	-138.194	-44.81	-40.07	60.11	58.85	1.27	47.506		
300.00	300.00	300.00	300.00	0.99	0.99	-138.194	-44.81	-40.07	60.11	58.13	1.98	30.325		
400.00	400.00	400.00	400.00	1.35	1.35	-138.194	-44.81	-40.07	60.11	57.42	2.70	22.270		
500.00	500.00	500.00	500.00	1.71	1.71	-138.194	-44.81	-40.07	60.11	56.70	3.42	17.597	CC, ES	
600.00	600.00	596.89	596.85	2.07	2.04	-137.888	-46.40	-41.94	62.63	58.52	4.11	15.242		
700.00	700.00	693.29	692.96	2.43	2.38	-137.105	-51.14	-47.52	70.16	65.38	4.79	14.655	SF	
800.00	800.00	788.71	787.61	2.78	2.72	-136.121	-58.92	-56.66	82.68	77.22	5.46	15.151		
900.00	900.00	882.70	880.14	3.14	3.08	-135.163	-69.57	-69.18	100.10	93.99	6.11	16.375		
1,000.00	1,000.00	974.85	969.97	3.50	3.48	-134.338	-82.86	-84.80	122.31	115.56	6.75	18.116		
1,100.00	1,099.95	1,064.41	1,056.23	3.86	3.90	-122.797	-98.46	-103.13	150.51	143.13	7.37	20.409		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 059H - Original Hole - rev1											Offset Site Error:	0.00 ft
Survey Program: 0-MWD											Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			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)	
1,200.00	1,199.63	1,150.35	1,137.85	4.22	4.36	-123.180	-115.87	-123.60	185.79	177.81	7.98	23.270
1,300.00	1,298.77	1,232.01	1,214.22	4.58	4.83	-123.890	-134.60	-145.62	227.90	219.34	8.56	26.627
1,400.00	1,397.08	1,308.88	1,284.91	4.96	5.32	-124.566	-154.16	-168.60	276.54	267.41	9.13	30.299
1,500.00	1,494.31	1,380.61	1,349.74	5.36	5.83	-125.026	-174.05	-191.98	331.33	321.65	9.68	34.221
1,600.00	1,590.18	1,447.02	1,408.68	5.80	6.33	-125.182	-193.86	-215.27	391.84	381.61	10.23	38.313
1,700.00	1,684.68	1,500.00	1,454.93	6.28	6.75	-125.848	-210.61	-234.96	457.36	446.72	10.65	42.953
1,800.00	1,779.00	1,566.27	1,511.74	6.79	7.33	-127.472	-232.73	-260.95	525.48	514.21	11.27	46.632
1,900.00	1,873.31	1,621.24	1,557.93	7.32	7.82	-128.484	-252.03	-283.63	595.91	584.15	11.76	50.672
2,000.00	1,967.63	1,681.00	1,607.30	7.86	8.39	-129.333	-273.85	-309.28	668.14	655.81	12.34	54.148
2,100.00	2,061.95	1,749.47	1,663.72	8.42	9.06	-130.120	-298.99	-338.83	740.73	727.68	13.05	56.755
2,200.00	2,156.26	1,817.93	1,720.13	8.99	9.74	-130.768	-324.12	-368.37	813.37	799.59	13.77	59.052
2,300.00	2,250.58	1,886.39	1,776.54	9.57	10.43	-131.311	-349.26	-397.91	886.05	871.54	14.51	61.075
2,400.00	2,344.89	1,954.85	1,832.95	10.16	11.13	-131.771	-374.39	-427.46	958.76	943.51	15.25	62.863
2,500.00	2,439.21	2,023.31	1,889.37	10.76	11.83	-132.167	-399.53	-457.00	1,031.50	1,015.49	16.00	64.457
2,600.00	2,533.53	2,091.77	1,945.78	11.35	12.54	-132.511	-424.66	-486.54	1,104.25	1,087.49	16.76	65.882
2,700.00	2,627.84	2,160.23	2,002.19	11.96	13.25	-132.813	-449.80	-516.09	1,177.03	1,159.50	17.53	67.157
2,800.00	2,722.16	2,228.70	2,058.60	12.57	13.96	-133.080	-474.93	-545.63	1,249.81	1,231.52	18.30	68.309
2,900.00	2,816.47	2,297.16	2,115.02	13.18	14.68	-133.317	-500.07	-575.17	1,322.61	1,303.54	19.07	69.351
3,000.00	2,910.79	2,365.62	2,171.43	13.79	15.40	-133.530	-525.20	-604.72	1,395.42	1,375.57	19.85	70.293
3,100.00	3,005.11	2,434.08	2,227.84	14.41	16.12	-133.721	-550.34	-634.26	1,468.24	1,447.60	20.63	71.153
3,200.00	3,100.08	2,503.64	2,285.16	15.01	16.86	-135.769	-575.88	-664.28	1,540.05	1,518.63	21.42	71.911
3,300.00	3,196.56	2,575.82	2,344.63	15.55	17.62	-137.643	-602.38	-695.42	1,609.22	1,587.03	22.19	72.516
3,400.00	3,294.28	2,650.43	2,406.12	16.04	18.42	-139.156	-629.77	-727.62	1,675.55	1,652.59	22.96	72.979
3,500.00	3,392.97	2,727.29	2,469.45	16.48	19.23	-140.364	-657.99	-760.79	1,738.90	1,715.19	23.72	73.318



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 061H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-138.090	-29.87	-26.81	40.14				
100.00	100.00	100.00	100.00	0.27	0.27	-138.090	-29.87	-26.81	40.14	39.59	0.55	73.190	
200.00	200.00	200.00	200.00	0.63	0.63	-138.090	-29.87	-26.81	40.14	38.88	1.27	31.723	
300.00	300.00	300.00	300.00	0.99	0.99	-138.090	-29.87	-26.81	40.14	38.16	1.98	20.250	
400.00	400.00	400.00	400.00	1.35	1.35	-138.090	-29.87	-26.81	40.14	37.44	2.70	14.871	
500.00	500.00	500.00	500.00	1.71	1.71	-138.090	-29.87	-26.81	40.14	36.73	3.42	11.750	
600.00	600.00	600.00	600.00	2.07	2.07	-138.090	-29.87	-26.81	40.14	36.01	4.13	9.712	
700.00	700.00	700.00	700.00	2.43	2.43	-138.090	-29.87	-26.81	40.14	35.29	4.85	8.276	
800.00	800.00	800.00	800.00	2.78	2.78	-138.090	-29.87	-26.81	40.14	34.57	5.57	7.211	
900.00	900.00	900.00	900.00	3.14	3.14	-138.090	-29.87	-26.81	40.14	33.86	6.28	6.388	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-138.090	-29.87	-26.81	40.14	33.14	7.00	5.734 CC, ES	
1,100.00	1,099.95	1,098.07	1,098.03	3.86	3.84	-128.059	-30.64	-29.21	43.94	36.25	7.70	5.710	
1,200.00	1,199.63	1,195.27	1,194.93	4.22	4.18	-130.016	-32.90	-36.32	55.36	46.99	8.37	6.612	
1,300.00	1,298.77	1,290.76	1,289.64	4.58	4.51	-131.842	-36.59	-47.86	74.34	65.30	9.04	8.222	
1,400.00	1,397.08	1,383.78	1,381.20	4.96	4.86	-133.094	-41.55	-63.43	100.71	91.01	9.71	10.375	
1,500.00	1,494.31	1,473.65	1,468.81	5.36	5.22	-133.789	-47.63	-82.48	134.18	123.81	10.37	12.940	
1,600.00	1,590.18	1,559.81	1,551.83	5.80	5.60	-134.047	-54.63	-104.42	174.40	163.37	11.03	15.808	
1,700.00	1,684.68	1,642.80	1,630.74	6.28	5.99	-134.456	-62.44	-128.88	220.51	208.81	11.70	18.843	
1,800.00	1,779.00	1,730.70	1,713.84	6.79	6.44	-134.958	-71.14	-156.16	268.16	255.68	12.47	21.498	
1,900.00	1,873.31	1,818.60	1,796.95	7.32	6.91	-135.308	-79.84	-183.44	315.81	302.55	13.27	23.803	
2,000.00	1,967.63	1,906.50	1,880.05	7.86	7.40	-135.566	-88.55	-210.71	363.48	349.39	14.08	25.810	
2,100.00	2,061.95	1,994.40	1,963.16	8.42	7.90	-135.765	-97.25	-237.99	411.15	396.23	14.92	27.565	
2,200.00	2,156.26	2,082.30	2,046.26	8.99	8.41	-135.922	-105.95	-265.27	458.82	443.05	15.76	29.106	
2,300.00	2,250.58	2,170.20	2,129.37	9.57	8.94	-136.050	-114.66	-292.55	506.49	489.86	16.62	30.467	
2,400.00	2,344.89	2,258.10	2,212.48	10.16	9.47	-136.156	-123.36	-319.83	554.16	536.67	17.50	31.675	
2,500.00	2,439.21	2,346.00	2,295.58	10.76	10.01	-136.245	-132.06	-347.11	601.84	583.46	18.38	32.752	
2,600.00	2,533.53	2,433.90	2,378.69	11.35	10.55	-136.320	-140.76	-374.39	649.51	630.25	19.26	33.716	
2,700.00	2,627.84	2,521.80	2,461.79	11.96	11.10	-136.386	-149.47	-401.66	697.19	677.03	20.16	34.584	
2,800.00	2,722.16	2,609.70	2,544.90	12.57	11.65	-136.443	-158.17	-428.94	744.87	723.81	21.06	35.367	
2,900.00	2,816.47	2,697.60	2,628.00	13.18	12.21	-136.493	-166.87	-456.22	792.55	770.58	21.97	36.077	
3,000.00	2,910.79	2,785.50	2,711.11	13.79	12.77	-136.538	-175.58	-483.50	840.23	817.35	22.88	36.722	
3,100.00	3,005.11	2,873.40	2,794.22	14.41	13.33	-136.578	-184.28	-510.78	887.91	864.11	23.80	37.312	
3,200.00	3,100.08	2,962.00	2,877.98	15.01	13.90	-137.464	-193.05	-538.27	934.24	909.53	24.71	37.811	
3,300.00	3,196.56	3,052.21	2,963.27	15.55	14.48	-138.134	-201.98	-566.27	977.15	951.55	25.60	38.166	
3,400.00	3,294.28	3,143.78	3,049.85	16.04	15.07	-138.511	-211.05	-594.69	1,016.55	990.07	26.48	38.391	
3,500.00	3,392.97	3,236.48	3,137.49	16.48	15.67	-138.629	-220.23	-623.45	1,052.41	1,025.08	27.33	38.506	
3,600.00	3,492.37	3,330.04	3,225.95	16.85	16.28	-138.514	-229.49	-652.49	1,084.72	1,056.57	28.15	38.528	
3,700.00	3,592.20	3,424.21	3,314.98	17.18	16.89	-138.186	-238.82	-681.71	1,113.53	1,084.59	28.94	38.474	
3,800.00	3,692.19	3,518.71	3,404.33	17.45	17.51	-148.411	-248.17	-711.04	1,139.24	1,109.54	29.70	38.364	
3,900.00	3,792.19	3,613.26	3,493.72	17.72	18.13	-147.388	-257.53	-740.38	1,164.69	1,134.25	30.44	38.260	
4,000.00	3,891.77	3,706.26	3,581.65	17.93	18.74	76.640	-266.74	-769.24	1,188.94	1,157.84	31.10	38.232	
4,100.00	3,988.51	3,794.02	3,664.63	18.03	19.32	76.376	-275.43	-796.48	1,210.34	1,178.76	31.58	38.321	
4,200.00	4,079.48	3,873.41	3,739.92	18.05	19.82	76.582	-284.30	-819.98	1,229.82	1,197.93	31.89	38.560	
4,300.00	4,161.90	3,955.59	3,818.77	18.02	20.27	77.088	-300.14	-836.49	1,248.03	1,215.88	32.16	38.812	
4,400.00	4,233.29	4,047.13	3,906.05	17.97	20.65	78.010	-326.37	-844.03	1,264.73	1,232.26	32.48	38.941	
4,500.00	4,291.45	4,152.52	4,003.00	17.96	20.95	79.447	-366.90	-838.32	1,279.51	1,246.56	32.95	38.828	
4,600.00	4,334.63	4,278.60	4,109.66	18.07	21.17	81.511	-428.06	-811.56	1,291.63	1,257.97	33.66	38.372	
4,700.00	4,361.53	4,435.12	4,220.68	18.38	21.28	84.269	-518.88	-750.15	1,299.84	1,265.13	34.72	37.440	
4,800.00	4,371.30	4,621.24	4,311.34	18.98	21.24	87.354	-639.50	-642.61	1,302.01	1,265.60	36.40	35.764	
4,900.00	4,371.03	4,723.08	4,338.41	19.87	21.17	88.565	-708.68	-573.16	1,300.82	1,262.70	38.12	34.121	
5,000.00	4,370.69	4,823.73	4,347.64	21.01	21.09	88.986	-778.96	-501.89	1,299.93	1,259.68	40.25	32.299	
5,100.00	4,370.35	4,923.79	4,347.46	22.35	20.96	88.992	-849.05	-430.48	1,298.99	1,256.07	42.91	30.271	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 061H - Original Hole - rev1											Offset Site Error:		0.00 ft		
Survey Program:		0-MWD								Rule Assigned:				Offset Well Error:		0.00 ft	
Measured Depth	Vertical Reference	Measured Depth	Vertical Offset	Reference	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor					
5,200.00	4,370.02	5,023.78	4,347.27	23.84	21.94	88.997	-919.09	-359.11	1,298.05	1,252.51	45.54	28.504					
5,300.00	4,369.68	5,123.78	4,347.08	25.46	23.44	89.003	-989.13	-287.74	1,297.11	1,248.44	48.67	26.651					
5,400.00	4,369.35	5,223.77	4,346.88	27.17	25.09	89.009	-1,059.17	-216.37	1,296.17	1,244.17	52.00	24.927					
5,500.00	4,369.01	5,323.77	4,346.69	28.97	26.82	89.014	-1,129.21	-145.00	1,295.23	1,239.72	55.51	23.334					
5,600.00	4,368.68	5,423.76	4,346.50	30.83	28.63	89.020	-1,199.25	-73.64	1,294.29	1,235.13	59.16	21.876					
5,700.00	4,368.34	5,523.76	4,346.31	32.74	30.51	89.026	-1,269.29	-2.27	1,293.35	1,230.41	62.94	20.548					
5,800.00	4,368.01	5,623.75	4,346.12	34.70	32.44	89.031	-1,339.33	69.10	1,292.41	1,225.59	66.83	19.340					
5,900.00	4,367.67	5,723.75	4,345.93	36.70	34.41	89.037	-1,409.37	140.47	1,291.47	1,220.68	70.79	18.243					
6,000.00	4,367.33	5,823.75	4,345.73	38.74	36.41	89.043	-1,479.41	211.84	1,290.53	1,215.70	74.83	17.246					
6,100.00	4,367.00	5,923.74	4,345.54	40.79	38.45	89.048	-1,549.45	283.21	1,289.60	1,210.66	78.93	16.338					
6,200.00	4,366.66	6,023.74	4,345.35	42.88	40.52	89.054	-1,619.49	354.57	1,288.66	1,205.57	83.08	15.510					
6,300.00	4,366.33	6,123.73	4,345.16	44.98	42.61	89.060	-1,689.53	425.94	1,287.72	1,200.44	87.28	14.754					
6,400.00	4,365.99	6,223.73	4,344.97	47.10	44.72	89.066	-1,759.57	497.31	1,286.78	1,195.26	91.52	14.061					
6,500.00	4,365.66	6,323.72	4,344.78	49.24	46.85	89.071	-1,829.61	568.68	1,285.84	1,190.06	95.78	13.424					
6,600.00	4,365.32	6,423.72	4,344.58	51.39	48.99	89.077	-1,899.65	640.05	1,284.90	1,184.82	100.08	12.839					
6,700.00	4,364.98	6,523.71	4,344.39	53.55	51.15	89.083	-1,969.69	711.42	1,283.96	1,179.56	104.40	12.298					
6,800.00	4,364.65	6,623.71	4,344.20	55.72	53.31	89.089	-2,039.73	782.78	1,283.02	1,174.27	108.75	11.798					
6,900.00	4,364.31	6,723.70	4,344.01	57.90	55.49	89.094	-2,109.77	854.15	1,282.08	1,168.97	113.11	11.334					
7,000.00	4,363.98	6,823.70	4,343.82	60.09	57.68	89.100	-2,179.81	925.52	1,281.14	1,163.65	117.50	10.904					
7,100.00	4,363.64	6,923.70	4,343.63	62.29	59.88	89.106	-2,249.85	996.89	1,280.21	1,158.31	121.89	10.503					
7,200.00	4,363.31	7,023.69	4,343.43	64.49	62.08	89.112	-2,319.89	1,068.26	1,279.27	1,152.96	126.31	10.128					
7,300.00	4,362.97	7,123.69	4,343.24	66.70	64.29	89.117	-2,389.93	1,139.63	1,278.33	1,147.60	130.73	9.778					
7,400.00	4,362.63	7,223.68	4,343.05	68.91	66.50	89.123	-2,459.97	1,210.99	1,277.39	1,142.22	135.17	9.450					
7,500.00	4,362.30	7,323.68	4,342.86	71.14	68.73	89.129	-2,530.01	1,282.36	1,276.45	1,136.84	139.61	9.143					
7,600.00	4,361.96	7,423.67	4,342.67	73.36	70.95	89.135	-2,600.05	1,353.73	1,275.51	1,131.44	144.07	8.853					
7,700.00	4,361.63	7,523.67	4,342.47	75.59	73.18	89.141	-2,670.09	1,425.10	1,274.57	1,126.04	148.53	8.581					
7,800.00	4,361.29	7,623.66	4,342.28	77.82	75.42	89.147	-2,740.13	1,496.47	1,273.63	1,120.63	153.01	8.324					
7,900.00	4,360.96	7,723.66	4,342.09	80.06	77.66	89.152	-2,810.17	1,567.84	1,272.70	1,115.21	157.48	8.081					
8,000.00	4,360.62	7,823.66	4,341.90	82.30	79.90	89.158	-2,880.21	1,639.20	1,271.76	1,109.79	161.97	7.852					
8,100.00	4,360.28	7,923.65	4,341.71	84.54	82.14	89.164	-2,950.25	1,710.57	1,270.82	1,104.36	166.46	7.634					
8,200.00	4,359.95	8,023.65	4,341.52	86.78	84.39	89.170	-3,020.29	1,781.94	1,269.88	1,098.92	170.96	7.428					
8,300.00	4,359.61	8,123.64	4,341.32	89.03	86.64	89.176	-3,090.33	1,853.31	1,268.94	1,093.48	175.46	7.232					
8,400.00	4,359.28	8,223.64	4,341.13	91.28	88.90	89.182	-3,160.37	1,924.68	1,268.00	1,088.03	179.97	7.046					
8,500.00	4,358.94	8,323.63	4,340.94	93.53	91.15	89.188	-3,230.41	1,996.05	1,267.06	1,082.58	184.48	6.868					
8,600.00	4,358.61	8,423.63	4,340.75	95.79	93.41	89.194	-3,300.45	2,067.41	1,266.12	1,077.13	188.99	6.699					
8,700.00	4,358.27	8,523.62	4,340.56	98.04	95.67	89.200	-3,370.49	2,138.78	1,265.19	1,071.67	193.51	6.538					
8,800.00	4,357.93	8,623.62	4,340.37	100.30	97.93	89.206	-3,440.53	2,210.15	1,264.25	1,066.21	198.04	6.384					
8,900.00	4,357.60	8,723.61	4,340.17	102.56	100.20	89.211	-3,510.57	2,281.52	1,263.31	1,060.75	202.56	6.237					
9,000.00	4,357.26	8,823.61	4,339.98	104.82	102.46	89.217	-3,580.61	2,352.89	1,262.37	1,055.28	207.09	6.096					
9,100.00	4,356.93	8,923.61	4,339.79	107.08	104.73	89.223	-3,650.65	2,424.26	1,261.43	1,049.81	211.62	5.961					
9,200.00	4,356.59	9,023.60	4,339.60	109.35	107.00	89.229	-3,720.69	2,495.62	1,260.49	1,044.34	216.16	5.831					
9,300.00	4,356.26	9,123.60	4,339.41	111.61	109.27	89.235	-3,790.73	2,566.99	1,259.55	1,038.86	220.69	5.707					
9,400.00	4,355.92	9,223.59	4,339.22	113.88	111.54	89.241	-3,860.77	2,638.36	1,258.61	1,033.38	225.23	5.588					
9,500.00	4,355.58	9,323.59	4,339.02	116.14	113.81	89.247	-3,930.81	2,709.73	1,257.68	1,027.90	229.77	5.474					
9,600.00	4,355.25	9,423.58	4,338.83	118.41	116.08	89.253	-4,000.85	2,781.10	1,256.74	1,022.42	234.32	5.363					
9,700.00	4,354.91	9,523.58	4,338.64	120.68	118.36	89.259	-4,070.89	2,852.46	1,255.80	1,016.94	238.86	5.257					
9,800.00	4,354.58	9,623.57	4,338.45	122.95	120.63	89.265	-4,140.94	2,923.83	1,254.86	1,011.45	243.41	5.155					
9,900.00	4,354.24	9,723.57	4,338.26	125.22	122.91	89.271	-4,210.98	2,995.20	1,253.92	1,005.96	247.96	5.057					
10,000.00	4,353.91	9,823.57	4,338.07	127.49	125.19	89.277	-4,281.02	3,066.57	1,252.98	1,000.47	252.51	4.962					
10,100.00	4,353.57	9,923.56	4,337.87	129.77	127.47	89.283	-4,351.06	3,137.94	1,252.04	994.98	257.06	4.871					
10,200.00	4,353.23	10,023.56	4,337.68	132.04	129.75	89.289	-4,421.10	3,209.31	1,251.11	989.49	261.62	4.782					
10,300.00	4,352.90	10,123.55	4,337.49	134.31	132.02	89.296	-4,491.14	3,280.67	1,250.17	983.99	266.17	4.697					

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 061H - Original Hole - rev1													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.00	4,352.56	10,223.55	4,337.30	136.59	134.31	89.302	-4,561.18	3,352.04	1,249.23	978.50	270.73	4.614	
10,500.00	4,352.23	10,323.54	4,337.11	138.86	136.59	89.308	-4,631.22	3,423.41	1,248.29	973.00	275.29	4.534	
10,600.00	4,351.89	10,423.54	4,336.91	141.14	138.87	89.314	-4,701.26	3,494.78	1,247.35	967.50	279.85	4.457	
10,700.00	4,351.56	10,523.53	4,336.72	143.42	141.15	89.320	-4,771.30	3,566.15	1,246.41	962.01	284.41	4.382	
10,800.00	4,351.22	10,623.53	4,336.53	145.69	143.43	89.326	-4,841.34	3,637.52	1,245.48	956.51	288.97	4.310	
10,900.00	4,350.88	10,723.53	4,336.34	147.97	145.72	89.332	-4,911.38	3,708.88	1,244.54	951.00	293.53	4.240	
11,000.00	4,350.55	10,823.52	4,336.15	150.25	148.00	89.338	-4,981.42	3,780.25	1,243.60	945.50	298.10	4.172	
11,100.00	4,350.21	10,923.52	4,335.96	152.53	150.29	89.344	-5,051.46	3,851.62	1,242.66	940.00	302.66	4.106	
11,200.00	4,349.88	11,023.51	4,335.76	154.81	152.57	89.351	-5,121.50	3,922.99	1,241.72	934.50	307.23	4.042	
11,300.00	4,349.54	11,123.51	4,335.57	157.08	154.86	89.357	-5,191.54	3,994.36	1,240.78	928.99	311.79	3.980	
11,400.00	4,349.21	11,223.50	4,335.38	159.36	157.14	89.363	-5,261.58	4,065.73	1,239.85	923.48	316.36	3.919	
11,500.00	4,348.87	11,323.50	4,335.19	161.65	159.43	89.369	-5,331.62	4,137.09	1,238.91	917.98	320.93	3.860	
11,600.00	4,348.54	11,423.49	4,335.00	163.93	161.72	89.375	-5,401.66	4,208.46	1,237.97	912.47	325.50	3.803	
11,700.00	4,348.20	11,523.49	4,334.81	166.21	164.00	89.381	-5,471.70	4,279.83	1,237.03	906.96	330.07	3.748	
11,800.00	4,347.86	11,623.48	4,334.61	168.49	166.29	89.388	-5,541.74	4,351.20	1,236.09	901.45	334.64	3.694	
11,900.00	4,347.53	11,723.48	4,334.42	170.77	168.58	89.394	-5,611.78	4,422.57	1,235.15	895.94	339.21	3.641	
12,000.00	4,347.19	11,823.48	4,334.23	173.05	170.87	89.400	-5,681.82	4,493.94	1,234.22	890.43	343.78	3.590	
12,100.00	4,346.86	11,923.47	4,334.04	175.33	173.16	89.406	-5,751.86	4,565.30	1,233.28	884.92	348.35	3.540	
12,200.00	4,346.52	12,023.47	4,333.85	177.62	175.45	89.413	-5,821.90	4,636.67	1,232.34	879.41	352.93	3.492	
12,300.00	4,346.19	12,123.46	4,333.66	179.90	177.73	89.419	-5,891.94	4,708.04	1,231.40	873.90	357.50	3.444	
12,400.00	4,345.85	12,223.46	4,333.46	182.18	180.02	89.425	-5,961.98	4,779.41	1,230.46	868.39	362.07	3.398	
12,500.00	4,345.51	12,323.45	4,333.27	184.47	182.31	89.431	-6,032.02	4,850.78	1,229.53	862.88	366.65	3.353	
12,600.00	4,345.18	12,423.45	4,333.08	186.75	184.60	89.438	-6,102.06	4,922.15	1,228.59	857.36	371.22	3.310	
12,700.00	4,344.84	12,523.44	4,332.89	189.04	186.90	89.444	-6,172.10	4,993.51	1,227.65	851.85	375.80	3.267	
12,800.00	4,344.51	12,623.44	4,332.70	191.32	189.19	89.450	-6,242.14	5,064.88	1,226.71	846.33	380.38	3.225	
12,900.00	4,344.17	12,723.44	4,332.51	193.60	191.48	89.456	-6,312.18	5,136.25	1,225.77	840.82	384.95	3.184	
13,000.00	4,343.84	12,823.43	4,332.31	195.89	193.77	89.463	-6,382.22	5,207.62	1,224.83	835.31	389.53	3.144	
13,100.00	4,343.50	12,923.43	4,332.12	198.17	196.06	89.469	-6,452.26	5,278.99	1,223.90	829.79	394.11	3.105	
13,200.00	4,343.16	13,023.42	4,331.93	200.46	198.35	89.475	-6,522.30	5,350.36	1,222.96	824.27	398.68	3.067	
13,300.00	4,342.83	13,123.42	4,331.74	202.74	200.64	89.482	-6,592.34	5,421.72	1,222.02	818.76	403.26	3.030	
13,400.00	4,342.49	13,223.41	4,331.55	205.03	202.94	89.488	-6,662.38	5,493.09	1,221.08	813.24	407.84	2.994	
13,500.00	4,342.16	13,323.41	4,331.35	207.32	205.23	89.495	-6,732.42	5,564.46	1,220.14	807.72	412.42	2.958	
13,600.00	4,341.82	13,423.40	4,331.16	209.60	207.52	89.501	-6,802.46	5,635.83	1,219.21	802.21	417.00	2.924	
13,700.00	4,341.49	13,523.40	4,330.97	211.89	209.81	89.507	-6,872.50	5,707.20	1,218.27	796.69	421.58	2.890	
13,800.00	4,341.15	13,623.39	4,330.78	214.18	212.11	89.514	-6,942.54	5,778.57	1,217.33	791.17	426.16	2.857	
13,900.00	4,340.81	13,723.39	4,330.59	216.46	214.40	89.520	-7,012.58	5,849.93	1,216.39	785.65	430.74	2.824	
14,000.00	4,340.48	13,823.39	4,330.40	218.75	216.69	89.526	-7,082.62	5,921.30	1,215.45	780.13	435.32	2.792	
14,100.00	4,340.14	13,923.38	4,330.20	221.04	218.99	89.533	-7,152.66	5,992.67	1,214.52	774.61	439.90	2.761	
14,200.00	4,339.81	14,023.38	4,330.01	223.32	221.28	89.539	-7,222.70	6,064.04	1,213.58	769.10	444.48	2.730	
14,300.00	4,339.47	14,123.37	4,329.82	225.61	223.57	89.546	-7,292.74	6,135.41	1,212.64	763.58	449.06	2.700	
14,400.00	4,339.14	14,223.37	4,329.63	227.90	225.87	89.552	-7,362.79	6,206.77	1,211.70	758.06	453.65	2.671	
14,500.00	4,338.80	14,323.36	4,329.44	230.18	228.16	89.559	-7,432.83	6,278.14	1,210.77	752.54	458.23	2.642	
14,600.00	4,338.46	14,423.36	4,329.25	232.47	230.46	89.565	-7,502.87	6,349.51	1,209.83	747.02	462.81	2.614	
14,700.00	4,338.13	14,523.35	4,329.05	234.76	232.75	89.572	-7,572.91	6,420.88	1,208.89	741.50	467.39	2.586	
14,739.86	4,337.99	14,551.88	4,329.00	235.67	233.41	89.574	-7,592.89	6,441.24	1,208.57	739.56	469.01	2.577 SF	
14,800.00	4,337.79	14,551.88	4,329.00	237.05	233.41	89.574	-7,592.89	6,441.24	1,210.06	740.53	469.54	2.577	
14,900.00	4,337.46	14,551.88	4,329.00	239.34	233.41	89.574	-7,592.89	6,441.24	1,219.13	752.79	466.34	2.614	
15,000.00	4,337.12	14,551.88	4,329.00	241.62	233.41	89.574	-7,592.89	6,441.24	1,236.25	777.75	458.50	2.696	
15,100.00	4,336.79	14,551.88	4,329.00	243.91	233.41	89.574	-7,592.89	6,441.24	1,261.09	814.25	446.84	2.822	
15,200.00	4,336.45	14,551.88	4,329.00	246.20	233.41	89.574	-7,592.89	6,441.24	1,293.20	860.81	432.39	2.991	
15,300.00	4,336.11	14,551.88	4,329.00	248.49	233.41	89.574	-7,592.89	6,441.24	1,332.06	915.91	416.16	3.201	
15,400.00	4,335.78	14,551.88	4,329.00	250.78	233.41	89.574	-7,592.89	6,441.24	1,377.10	978.10	399.01	3.451	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 061H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
15,500.00	4,335.44	14,551.88	4,329.00	253.07	233.41	89.574	-7,592.89	6,441.24	1,427.74	1,046.11	381.63	3.741		
15,600.00	4,335.11	14,551.88	4,329.00	255.35	233.41	89.574	-7,592.89	6,441.24	1,483.40	1,118.89	364.51	4.070		
15,700.00	4,334.77	14,551.88	4,329.00	257.64	233.41	89.574	-7,592.89	6,441.24	1,543.53	1,195.57	347.97	4.436		
15,800.00	4,334.44	14,551.88	4,329.00	259.93	233.41	89.574	-7,592.89	6,441.24	1,607.65	1,275.44	332.21	4.839		
15,900.00	4,334.10	14,551.88	4,329.00	262.22	233.41	89.574	-7,592.89	6,441.24	1,675.28	1,357.94	317.34	5.279		
15,929.91	4,334.00	14,551.88	4,329.00	262.91	233.41	89.574	-7,592.89	6,441.24	1,696.13	1,383.05	313.07	5.418		



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 063H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-138.404	-14.94	-13.26	19.97				
100.00	100.00	100.00	100.00	0.27	0.27	-138.404	-14.94	-13.26	19.97	19.42	0.55	36.416	
200.00	200.00	200.00	200.00	0.63	0.63	-138.404	-14.94	-13.26	19.97	18.71	1.27	15.784	
300.00	300.00	300.00	300.00	0.99	0.99	-138.404	-14.94	-13.26	19.97	17.99	1.98	10.075	
400.00	400.00	400.00	400.00	1.35	1.35	-138.404	-14.94	-13.26	19.97	17.27	2.70	7.399	
500.00	500.00	500.00	500.00	1.71	1.71	-138.404	-14.94	-13.26	19.97	16.56	3.42	5.846	
600.00	600.00	600.00	600.00	2.07	2.07	-138.404	-14.94	-13.26	19.97	15.84	4.13	4.832	
700.00	700.00	700.00	700.00	2.43	2.43	-138.404	-14.94	-13.26	19.97	15.12	4.85	4.118	
800.00	800.00	800.00	800.00	2.78	2.78	-138.404	-14.94	-13.26	19.97	14.41	5.57	3.588	
900.00	900.00	900.00	900.00	3.14	3.14	-138.404	-14.94	-13.26	19.97	13.69	6.28	3.178	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-138.404	-14.94	-13.26	19.97	12.97	7.00	2.853 CC, ES	
1,100.00	1,099.95	1,099.95	1,099.95	3.86	3.86	-132.919	-14.94	-13.26	21.66	13.95	7.72	2.807 SF	
1,200.00	1,199.63	1,199.63	1,199.63	4.22	4.22	-144.811	-14.94	-13.26	27.61	19.18	8.44	3.273	
1,300.00	1,298.77	1,298.77	1,298.77	4.58	4.57	-155.765	-14.94	-13.26	39.03	29.87	9.16	4.262	
1,400.00	1,397.08	1,397.08	1,397.08	4.96	4.92	-163.257	-14.94	-13.26	56.17	46.29	9.87	5.689	
1,500.00	1,494.31	1,495.76	1,495.72	5.36	5.27	-169.730	-14.03	-11.04	77.95	67.37	10.58	7.365	
1,600.00	1,590.18	1,593.17	1,592.84	5.80	5.62	-176.388	-11.26	-4.22	103.95	92.67	11.29	9.210	
1,700.00	1,684.68	1,688.91	1,687.81	6.28	5.96	177.511	-6.72	6.95	134.23	122.24	12.00	11.190	
1,800.00	1,779.00	1,783.45	1,780.97	6.79	6.31	172.181	-0.65	21.88	165.59	152.88	12.71	13.032	
1,900.00	1,873.31	1,877.41	1,873.41	7.32	6.67	168.344	5.65	37.39	197.83	184.39	13.44	14.725	
2,000.00	1,967.63	1,971.36	1,965.86	7.86	7.03	165.581	11.96	52.90	230.64	216.46	14.18	16.264	
2,100.00	2,061.95	2,065.31	2,058.31	8.42	7.41	163.502	18.26	68.42	263.82	248.88	14.94	17.655	
2,200.00	2,156.26	2,159.27	2,150.76	8.99	7.79	161.887	24.57	83.93	297.24	281.52	15.72	18.910	
2,300.00	2,250.58	2,253.22	2,243.21	9.57	8.17	160.597	30.87	99.44	330.83	314.33	16.51	20.043	
2,400.00	2,344.89	2,347.17	2,335.66	10.16	8.56	159.544	37.18	114.95	364.55	347.24	17.30	21.068	
2,500.00	2,439.21	2,441.13	2,428.11	10.76	8.96	158.669	43.48	130.47	398.35	380.24	18.11	21.997	
2,600.00	2,533.53	2,535.08	2,520.56	11.35	9.35	157.931	49.79	145.98	432.22	413.30	18.92	22.841	
2,700.00	2,627.84	2,629.03	2,613.01	11.96	9.75	157.300	56.09	161.49	466.15	446.41	19.74	23.610	
2,800.00	2,722.16	2,722.99	2,705.46	12.57	10.16	156.754	62.40	177.01	500.12	479.55	20.57	24.313	
2,900.00	2,816.47	2,816.94	2,797.91	13.18	10.56	156.278	68.70	192.52	534.13	512.73	21.40	24.958	
3,000.00	2,910.79	2,910.90	2,890.35	13.79	10.97	155.858	75.01	208.03	568.16	545.92	22.24	25.550	
3,100.00	3,005.11	3,006.50	2,984.46	14.41	11.38	155.496	81.36	223.67	602.19	579.10	23.09	26.080	
3,200.00	3,100.08	3,108.26	3,085.22	15.01	11.80	155.790	86.69	236.76	633.68	609.72	23.96	26.449	
3,300.00	3,196.56	3,212.10	3,188.67	15.55	12.20	156.337	90.03	244.97	659.56	634.78	24.78	26.618	
3,400.00	3,294.28	3,317.34	3,293.84	16.04	12.57	157.075	91.24	247.97	679.70	654.15	25.54	26.608	
3,500.00	3,392.97	3,416.47	3,392.97	16.48	12.89	157.762	91.25	247.98	694.54	668.31	26.23	26.478	
3,600.00	3,492.37	3,515.86	3,492.37	16.85	13.22	158.209	91.25	247.98	704.62	677.71	26.91	26.188	
3,700.00	3,592.20	3,615.69	3,592.20	17.18	13.56	158.436	91.25	247.98	709.86	682.29	27.57	25.746	
3,800.00	3,692.19	4,839.38	4,369.78	17.45	20.83	-135.555	580.76	-241.54	694.90	678.47	16.43	42.305	
3,900.00	3,792.19	4,839.60	4,369.78	17.72	20.84	-135.473	580.91	-241.70	597.80	580.55	17.25	34.656	
4,000.00	3,891.77	4,832.15	4,369.77	17.93	20.72	116.514	575.65	-236.43	502.22	483.88	18.34	27.389	
4,100.00	3,988.51	4,807.56	4,369.71	18.03	20.35	129.208	558.26	-219.04	411.17	391.38	19.78	20.785	
4,200.00	4,079.48	4,766.54	4,369.62	18.05	19.77	132.620	529.25	-190.03	328.52	306.67	21.85	15.036	
4,300.00	4,161.90	4,705.51	4,369.33	18.02	18.95	129.613	486.10	-146.88	258.45	233.68	24.77	10.433	
4,400.00	4,233.29	4,617.35	4,360.34	17.97	17.88	117.861	424.15	-84.93	201.04	172.07	28.97	6.940	
4,500.00	4,291.45	4,540.56	4,341.63	17.96	17.05	102.763	371.53	-32.31	162.87	129.53	33.34	4.885	
4,571.49	4,323.93	4,489.97	4,323.94	18.03	16.58	90.000	338.03	1.19	154.09	120.06	34.03	4.528	
4,600.00	4,334.63	4,470.52	4,316.03	18.07	16.41	84.675	325.46	13.76	155.45	122.02	33.43	4.650	
4,700.00	4,361.53	4,404.80	4,284.95	18.38	15.91	66.624	284.55	54.68	178.37	148.46	29.91	5.964	
4,800.00	4,371.30	4,341.97	4,249.23	18.98	15.55	51.850	248.03	91.20	218.21	190.44	27.78	7.856	
4,900.00	4,371.03	4,284.63	4,211.88	19.87	15.45	43.984	217.29	121.93	268.23	240.88	27.35	9.808	
5,000.00	4,370.69	4,236.37	4,177.19	21.01	15.36	38.427	193.57	145.66	329.52	301.85	27.67	11.909	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (59, 61, 63 & 71) - Greater Lybrook Unit 063H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.00	4,370.35	4,200.00	4,149.26	22.35	15.29	34.756	177.11	162.12	399.14	370.74	28.40	14.056	
5,200.00	4,370.02	4,161.38	4,118.05	23.84	15.20	31.323	161.04	178.19	474.75	445.92	28.83	16.467	
5,300.00	4,369.68	4,132.16	4,093.46	25.46	15.13	29.021	149.88	189.34	554.89	525.54	29.35	18.906	
5,400.00	4,369.35	4,100.00	4,065.50	27.17	15.06	26.754	138.65	200.58	638.52	608.86	29.66	21.526	
5,500.00	4,369.01	4,085.50	4,052.61	28.97	15.02	25.816	133.95	205.27	724.59	694.45	30.15	24.037	
5,600.00	4,368.68	4,066.69	4,035.65	30.83	14.97	24.672	128.21	211.02	812.81	782.37	30.44	26.702	
5,700.00	4,368.34	4,050.00	4,020.38	32.74	14.93	23.720	123.44	215.79	902.66	871.98	30.68	29.425	
5,800.00	4,368.01	4,050.00	4,020.38	34.70	14.93	23.720	123.44	215.79	994.11	963.13	30.99	32.082	
5,900.00	4,367.67	4,022.81	3,995.11	36.70	14.86	22.288	116.35	222.88	1,086.10	1,055.05	31.04	34.988	
6,000.00	4,367.33	4,000.00	3,973.56	38.74	14.79	21.191	111.06	228.16	1,179.42	1,148.31	31.12	37.902	
6,100.00	4,367.00	4,000.00	3,973.56	40.79	14.79	21.191	111.06	228.16	1,273.18	1,241.88	31.29	40.686	
6,200.00	4,366.66	4,000.00	3,973.56	42.88	14.79	21.191	111.06	228.16	1,367.81	1,336.38	31.43	43.518	
6,300.00	4,366.33	4,000.00	3,973.56	44.98	14.79	21.191	111.06	228.16	1,463.16	1,431.62	31.54	46.390	
6,400.00	4,365.99	3,975.59	3,950.19	47.10	14.72	20.112	106.08	233.15	1,558.39	1,526.83	31.56	49.378	
6,500.00	4,365.66	3,968.58	3,943.43	49.24	14.70	19.819	104.78	234.44	1,654.36	1,622.73	31.63	52.307	
6,600.00	4,365.32	3,950.00	3,925.39	51.39	14.65	19.076	101.62	237.61	1,750.85	1,719.19	31.66	55.300	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (65, 67, 69, 73, 75 & 77) - Greater Lybrook Unit 073H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	49.106	1,160.25	1,339.73	1,772.35					
100.00	100.00	87.00	87.00	0.27	0.24	49.106	1,160.25	1,339.73	1,772.30	1,771.79	0.51	3,456.044		
200.00	200.00	187.00	187.00	0.63	0.59	49.106	1,160.25	1,339.73	1,772.30	1,771.08	1.22	1,454.132		
300.00	300.00	287.00	287.00	0.99	0.94	49.106	1,160.25	1,339.73	1,772.30	1,770.37	1.94	915.565		
400.00	400.00	387.00	387.00	1.35	1.30	49.106	1,160.25	1,339.73	1,772.30	1,769.65	2.65	668.115		
500.00	500.00	487.00	487.00	1.71	1.66	49.106	1,160.25	1,339.73	1,772.30	1,768.93	3.37	525.963		
600.00	600.00	587.00	587.00	2.07	2.02	49.106	1,160.25	1,339.73	1,772.30	1,768.22	4.09	433.689		
700.00	700.00	687.00	687.00	2.43	2.38	49.106	1,160.25	1,339.73	1,772.30	1,767.50	4.80	368.959		
800.00	800.00	787.00	787.00	2.78	2.74	49.106	1,160.25	1,339.73	1,772.30	1,766.78	5.52	321.042		
900.00	900.00	887.00	887.00	3.14	3.10	49.106	1,160.25	1,339.73	1,772.30	1,766.06	6.24	284.141		
1,000.00	1,000.00	987.00	987.00	3.50	3.45	49.106	1,160.25	1,339.73	1,772.30	1,765.35	6.95	254.848		
1,100.00	1,099.95	1,214.60	1,214.15	3.86	4.26	60.051	1,162.16	1,327.84	1,767.85	1,759.76	8.10	218.314		
1,200.00	1,199.63	1,411.03	1,407.92	4.22	4.99	60.048	1,167.21	1,296.48	1,753.13	1,744.00	9.14	191.830		
1,300.00	1,298.77	1,509.10	1,504.05	4.58	5.38	60.426	1,170.29	1,277.35	1,734.01	1,724.13	9.87	175.616		
1,400.00	1,397.08	1,606.71	1,599.74	4.96	5.79	61.029	1,173.35	1,258.32	1,712.35	1,701.73	10.63	161.142		
1,500.00	1,494.31	1,703.60	1,694.73	5.36	6.20	61.867	1,176.39	1,239.42	1,688.24	1,676.84	11.40	148.110		
1,600.00	1,590.18	1,799.51	1,788.74	5.80	6.62	62.947	1,179.40	1,220.71	1,661.78	1,649.58	12.20	136.259		
1,700.00	1,684.68	1,894.37	1,881.74	6.28	7.03	63.820	1,182.38	1,202.21	1,633.43	1,620.41	13.02	125.440		
1,800.00	1,779.00	1,989.09	1,974.58	6.79	7.46	64.359	1,185.35	1,183.74	1,604.96	1,591.09	13.87	115.715		
1,900.00	1,873.31	2,083.80	2,067.43	7.32	7.88	64.918	1,188.33	1,165.27	1,576.63	1,561.89	14.74	106.958		
2,000.00	1,967.63	2,178.51	2,160.27	7.86	8.31	65.497	1,191.30	1,146.80	1,548.45	1,532.82	15.63	99.071		
2,100.00	2,061.95	2,273.22	2,253.12	8.42	8.75	66.096	1,194.27	1,128.33	1,520.42	1,503.89	16.53	91.955		
2,200.00	2,156.26	2,367.94	2,346.97	8.99	9.18	66.718	1,197.24	1,109.86	1,492.56	1,475.11	17.45	85.522		
2,300.00	2,250.58	2,462.65	2,438.81	9.57	9.62	67.362	1,200.22	1,091.38	1,464.87	1,446.49	18.38	79.692		
2,400.00	2,344.89	2,557.36	2,531.66	10.16	10.06	68.030	1,203.19	1,072.91	1,437.36	1,418.04	19.32	74.396		
2,500.00	2,439.21	2,652.08	2,624.51	10.76	10.50	68.724	1,206.16	1,054.44	1,410.04	1,389.78	20.27	69.571		
2,600.00	2,533.53	2,746.79	2,717.35	11.35	10.95	69.444	1,209.13	1,035.97	1,382.93	1,361.71	21.22	65.164		
2,700.00	2,627.84	2,841.50	2,810.20	11.96	11.39	70.191	1,212.11	1,017.50	1,356.04	1,333.86	22.18	61.129		
2,800.00	2,722.16	2,900.00	2,867.65	12.57	11.66	70.683	1,213.86	1,006.62	1,330.28	1,307.21	23.06	57.676		
2,900.00	2,816.47	2,971.12	2,937.90	13.18	11.97	71.367	1,215.62	995.69	1,307.01	1,283.04	23.97	54.536		
3,000.00	2,910.79	3,033.92	3,000.24	13.79	12.22	72.048	1,216.82	988.19	1,286.50	1,261.66	24.84	51.792		
3,100.00	3,005.11	3,100.00	3,066.06	14.41	12.48	72.843	1,217.74	982.49	1,268.85	1,243.14	25.71	49.347		
3,200.00	3,100.08	3,159.61	3,125.58	15.01	12.69	73.211	1,218.26	979.28	1,254.77	1,228.24	26.53	47.301		
3,300.00	3,196.56	3,223.24	3,189.19	15.55	12.90	73.634	1,218.48	977.88	1,245.19	1,217.90	27.29	45.634		
3,400.00	3,294.28	3,315.33	3,281.28	16.04	13.19	74.320	1,218.49	977.85	1,239.17	1,211.09	28.08	44.134		
3,500.00	3,392.97	3,414.02	3,379.97	16.48	13.49	74.903	1,218.49	977.85	1,234.85	1,206.01	28.84	42.819		
3,600.00	3,492.37	3,513.42	3,479.37	16.85	13.81	75.306	1,218.49	977.85	1,232.05	1,202.50	29.55	41.694		
3,700.00	3,592.20	3,613.25	3,579.20	17.18	14.12	75.519	1,218.49	977.85	1,230.62	1,200.41	30.21	40.738		
3,799.38	3,691.56	3,712.61	3,678.56	17.45	14.44	75.580	1,218.49	977.85	1,230.24	1,199.43	30.82	39.921		
3,800.00	3,692.19	3,713.24	3,679.19	17.45	14.44	64.602	1,218.49	977.85	1,230.40	1,199.58	30.82	39.922		
3,900.00	3,792.19	3,813.24	3,779.19	17.72	14.76	64.602	1,218.49	977.85	1,230.40	1,198.98	31.43	39.150		
4,000.00	3,891.77	3,878.65	3,844.58	17.93	14.96	-70.676	1,217.72	978.79	1,228.85	1,197.03	31.82	38.618		
4,100.00	3,988.51	3,930.57	3,896.16	18.03	15.09	-71.342	1,214.12	983.24	1,225.32	1,193.32	32.00	38.294		
4,200.00	4,079.48	3,982.54	3,947.06	18.05	15.21	-72.363	1,207.58	991.29	1,220.20	1,188.14	32.05	38.068		
4,300.00	4,161.90	4,034.56	3,996.87	18.02	15.31	-73.706	1,198.16	1,002.91	1,213.87	1,181.82	32.05	37.874		
4,400.00	4,233.29	4,086.68	4,045.20	17.97	15.41	-75.324	1,185.90	1,018.02	1,206.84	1,174.76	32.08	37.622		
4,500.00	4,291.45	4,138.93	4,091.68	17.96	15.50	-77.155	1,170.88	1,036.53	1,199.73	1,167.50	32.24	37.217		
4,600.00	4,334.63	4,200.00	4,142.98	18.07	15.60	-79.358	1,150.05	1,062.22	1,193.33	1,160.67	32.66	36.537		
4,700.00	4,361.53	4,250.00	4,182.17	18.38	15.68	-81.325	1,130.50	1,086.31	1,188.29	1,154.97	33.32	35.665		
4,800.00	4,371.30	4,300.00	4,218.51	18.98	15.79	-83.218	1,108.88	1,112.97	1,185.54	1,151.28	34.26	34.599		
4,826.53	4,371.54	4,311.60	4,226.51	19.20	15.81	-83.604	1,103.58	1,119.50	1,185.37	1,150.80	34.57	34.288 CC		
4,900.00	4,371.03	4,354.80	4,254.73	19.87	15.92	-84.996	1,082.99	1,144.88	1,186.56	1,151.07	35.49	33.435		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (65, 67, 69, 73, 75 & 77) - Greater Lybrook Unit 073H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
5,000.00	4,370.69	4,423.51	4,294.33	21.01	16.17	-86.931	1,047.65	1,188.45	1,191.86	1,154.84	37.02	32.196	
5,100.00	4,370.35	4,504.24	4,331.89	22.35	16.60	-88.760	1,002.67	1,243.89	1,200.21	1,161.35	38.86	30.885	
5,200.00	4,370.02	4,682.33	4,377.90	23.84	18.14	-90.984	890.94	1,373.73	1,208.32	1,166.40	41.92	28.825	
5,300.00	4,369.68	4,825.02	4,381.33	25.46	19.83	-91.168	790.96	1,475.34	1,208.79	1,163.58	45.21	26.736	
5,400.00	4,369.35	4,925.02	4,380.86	27.17	21.23	-91.162	720.25	1,546.05	1,208.79	1,160.46	48.33	25.011	
5,500.00	4,369.01	5,025.02	4,380.40	28.97	22.77	-91.156	649.55	1,616.76	1,208.78	1,157.11	51.67	23.393	
5,600.00	4,368.68	5,125.02	4,379.93	30.83	24.44	-91.150	578.84	1,687.47	1,208.78	1,153.58	55.20	21.898	
5,700.00	4,368.34	5,225.02	4,379.46	32.74	26.21	-91.143	508.13	1,758.18	1,208.78	1,149.90	58.88	20.531	
5,800.00	4,368.01	5,325.02	4,378.99	34.70	28.05	-91.137	437.42	1,828.89	1,208.77	1,146.09	62.68	19.286	
5,900.00	4,367.67	5,425.02	4,378.52	36.70	29.96	-91.131	366.71	1,899.60	1,208.77	1,142.19	66.58	18.155	
6,000.00	4,367.33	5,525.02	4,378.06	38.74	31.91	-91.125	296.00	1,970.31	1,208.76	1,138.20	70.57	17.130	
6,100.00	4,367.00	5,625.02	4,377.59	40.79	33.91	-91.118	225.29	2,041.02	1,208.76	1,134.14	74.62	16.199	
6,200.00	4,366.66	5,725.02	4,377.12	42.88	35.95	-91.112	154.58	2,111.73	1,208.76	1,130.02	78.74	15.352	
6,300.00	4,366.33	5,825.02	4,376.65	44.98	38.01	-91.106	83.87	2,182.44	1,208.75	1,125.85	82.90	14.580	
6,400.00	4,365.99	5,925.02	4,376.18	47.10	40.10	-91.099	13.16	2,253.15	1,208.75	1,121.63	87.11	13.876	
6,500.00	4,365.66	6,025.02	4,375.71	49.24	42.21	-91.093	-57.55	2,323.86	1,208.74	1,117.38	91.36	13.231	
6,600.00	4,365.32	6,125.02	4,375.25	51.39	44.34	-91.087	-128.26	2,394.57	1,208.74	1,113.10	95.64	12.639	
6,700.00	4,364.98	6,225.02	4,374.78	53.55	46.48	-91.081	-198.97	2,465.28	1,208.73	1,108.79	99.94	12.094	
6,800.00	4,364.65	6,325.02	4,374.31	55.72	48.64	-91.074	-269.68	2,535.99	1,208.73	1,104.46	104.27	11.592	
6,900.00	4,364.31	6,425.02	4,373.84	57.90	50.81	-91.068	-340.38	2,606.70	1,208.73	1,100.10	108.62	11.128	
7,000.00	4,363.98	6,525.02	4,373.37	60.09	52.99	-91.062	-411.09	2,677.41	1,208.72	1,095.73	112.99	10.697	
7,100.00	4,363.64	6,625.02	4,372.91	62.29	55.18	-91.055	-481.80	2,748.12	1,208.72	1,091.34	117.38	10.297	
7,200.00	4,363.31	6,725.02	4,372.44	64.49	57.38	-91.049	-552.51	2,818.83	1,208.71	1,086.93	121.78	9.925	
7,300.00	4,362.97	6,825.02	4,371.97	66.70	59.58	-91.043	-623.22	2,889.54	1,208.71	1,082.51	126.20	9.578	
7,400.00	4,362.63	6,925.02	4,371.50	68.91	61.80	-91.037	-693.93	2,960.25	1,208.71	1,078.08	130.62	9.253	
7,500.00	4,362.30	7,025.02	4,371.03	71.14	64.01	-91.030	-764.64	3,030.96	1,208.70	1,073.64	135.06	8.949	
7,600.00	4,361.96	7,125.02	4,370.57	73.36	66.24	-91.024	-835.35	3,101.67	1,208.70	1,069.19	139.51	8.664	
7,700.00	4,361.63	7,225.01	4,370.10	75.59	68.46	-91.018	-906.06	3,172.38	1,208.69	1,064.73	143.97	8.396	
7,800.00	4,361.29	7,325.01	4,369.63	77.82	70.70	-91.012	-976.77	3,243.10	1,208.69	1,060.26	148.43	8.143	
7,900.00	4,360.96	7,425.01	4,369.16	80.06	72.93	-91.005	-1,047.48	3,313.81	1,208.69	1,055.78	152.90	7.905	
8,000.00	4,360.62	7,525.01	4,368.69	82.30	75.17	-90.999	-1,118.19	3,384.52	1,208.68	1,051.30	157.38	7.680	
8,100.00	4,360.28	7,625.01	4,368.23	84.54	77.41	-90.993	-1,188.90	3,455.23	1,208.68	1,046.81	161.87	7.467	
8,200.00	4,359.95	7,725.01	4,367.76	86.78	79.66	-90.986	-1,259.61	3,525.94	1,208.67	1,042.32	166.36	7.266	
8,300.00	4,359.61	7,825.01	4,367.29	89.03	81.91	-90.980	-1,330.32	3,596.65	1,208.67	1,037.82	170.85	7.074	
8,400.00	4,359.28	7,925.01	4,366.82	91.28	84.16	-90.974	-1,401.02	3,667.36	1,208.67	1,033.31	175.35	6.893	
8,500.00	4,358.94	8,025.01	4,366.35	93.53	86.41	-90.968	-1,471.73	3,738.07	1,208.66	1,028.81	179.86	6.720	
8,600.00	4,358.61	8,125.01	4,365.88	95.79	88.66	-90.961	-1,542.44	3,808.78	1,208.66	1,024.29	184.37	6.556	
8,700.00	4,358.27	8,225.01	4,365.42	98.04	90.92	-90.955	-1,613.15	3,879.49	1,208.66	1,019.78	188.88	6.399	
8,800.00	4,357.93	8,325.01	4,364.95	100.30	93.18	-90.949	-1,683.86	3,950.20	1,208.65	1,015.26	193.39	6.250	
8,900.00	4,357.60	8,425.01	4,364.48	102.56	95.44	-90.943	-1,754.57	4,020.91	1,208.65	1,010.73	197.91	6.107	
9,000.00	4,357.26	8,525.01	4,364.01	104.82	97.70	-90.936	-1,825.28	4,091.62	1,208.64	1,006.21	202.44	5.970	
9,100.00	4,356.93	8,625.01	4,363.54	107.08	99.97	-90.930	-1,895.99	4,162.33	1,208.64	1,001.68	206.96	5.840	
9,200.00	4,356.59	8,725.01	4,363.08	109.35	102.23	-90.924	-1,966.70	4,233.04	1,208.64	997.15	211.49	5.715	
9,300.00	4,356.26	8,825.01	4,362.61	111.61	104.50	-90.917	-2,037.41	4,303.75	1,208.63	992.61	216.02	5.595	
9,400.00	4,355.92	8,925.01	4,362.14	113.88	106.76	-90.911	-2,108.12	4,374.46	1,208.63	988.07	220.55	5.480	
9,500.00	4,355.58	9,025.01	4,361.67	116.14	109.03	-90.905	-2,178.83	4,445.17	1,208.63	983.54	225.09	5.370	
9,600.00	4,355.25	9,125.01	4,361.20	118.41	111.30	-90.899	-2,249.54	4,515.88	1,208.62	978.99	229.63	5.263	
9,700.00	4,354.91	9,225.01	4,360.74	120.68	113.57	-90.892	-2,320.25	4,586.59	1,208.62	974.45	234.17	5.161	
9,800.00	4,354.58	9,325.01	4,360.27	122.95	115.84	-90.886	-2,390.95	4,657.30	1,208.61	969.91	238.71	5.063	
9,900.00	4,354.24	9,425.01	4,359.80	125.22	118.12	-90.880	-2,461.66	4,728.01	1,208.61	965.36	243.25	4.969	
10,000.00	4,353.91	9,525.01	4,359.33	127.49	120.39	-90.874	-2,532.37	4,798.72	1,208.61	960.81	247.80	4.877	
10,100.00	4,353.57	9,625.01	4,358.86	129.77	122.66	-90.867	-2,603.08	4,869.43	1,208.60	956.26	252.34	4.790	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (65, 67, 69, 73, 75 & 77) - Greater Lybrook Unit 073H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		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	
10,200.00	4,353.23	9,725.01	4,358.40	132.04	124.94	-90.861	-2,673.79	4,940.14	1,208.60	951.71	256.89	4.705	
10,300.00	4,352.90	9,825.01	4,357.93	134.31	127.21	-90.855	-2,744.50	5,010.85	1,208.60	947.16	261.44	4.623	
10,400.00	4,352.56	9,925.01	4,357.46	136.59	129.49	-90.848	-2,815.21	5,081.57	1,208.59	942.60	265.99	4.544	
10,500.00	4,352.23	10,025.01	4,356.99	138.86	131.77	-90.842	-2,885.92	5,152.28	1,208.59	938.05	270.54	4.467	
10,600.00	4,351.89	10,125.01	4,356.52	141.14	134.04	-90.836	-2,956.63	5,222.99	1,208.59	933.49	275.10	4.393	
10,700.00	4,351.56	10,225.01	4,356.05	143.42	136.32	-90.830	-3,027.34	5,293.70	1,208.58	928.93	279.65	4.322	
10,800.00	4,351.22	10,325.01	4,355.59	145.69	138.60	-90.823	-3,098.05	5,364.41	1,208.58	924.37	284.21	4.252	
10,900.00	4,350.88	10,425.01	4,355.12	147.97	140.88	-90.817	-3,168.76	5,435.12	1,208.57	919.81	288.76	4.185	
11,000.00	4,350.55	10,525.01	4,354.65	150.25	143.16	-90.811	-3,239.47	5,505.83	1,208.57	915.25	293.32	4.120	
11,100.00	4,350.21	10,625.01	4,354.18	152.53	145.44	-90.804	-3,310.18	5,576.54	1,208.57	910.69	297.88	4.057	
11,200.00	4,349.88	10,725.01	4,353.71	154.81	147.72	-90.798	-3,380.88	5,647.25	1,208.56	906.13	302.44	3.996	
11,300.00	4,349.54	10,825.01	4,353.25	157.08	150.00	-90.792	-3,451.59	5,717.96	1,208.56	901.56	307.00	3.937	
11,400.00	4,349.21	10,925.01	4,352.78	159.36	152.28	-90.786	-3,522.30	5,788.67	1,208.56	897.00	311.56	3.879	
11,500.00	4,348.87	11,025.01	4,352.31	161.65	154.56	-90.779	-3,593.01	5,859.38	1,208.55	892.43	316.12	3.823	
11,600.00	4,348.54	11,125.01	4,351.84	163.93	156.84	-90.773	-3,663.72	5,930.09	1,208.55	887.87	320.68	3.769	
11,700.00	4,348.20	11,225.01	4,351.37	166.21	159.12	-90.767	-3,734.43	6,000.80	1,208.55	883.30	325.25	3.716	
11,800.00	4,347.86	11,325.01	4,350.91	168.49	161.41	-90.761	-3,805.14	6,071.51	1,208.54	878.73	329.81	3.664	
11,900.00	4,347.53	11,425.01	4,350.44	170.77	163.69	-90.754	-3,875.85	6,142.22	1,208.54	874.17	334.38	3.614	
12,000.00	4,347.19	11,525.01	4,349.97	173.05	165.97	-90.748	-3,946.56	6,212.93	1,208.54	869.60	338.94	3.566	
12,100.00	4,346.86	11,625.01	4,349.50	175.33	168.26	-90.742	-4,017.27	6,283.64	1,208.53	865.03	343.51	3.518	
12,200.00	4,346.52	11,725.01	4,349.03	177.62	170.54	-90.735	-4,087.98	6,354.35	1,208.53	860.46	348.07	3.472	
12,300.00	4,346.19	11,825.01	4,348.56	179.90	172.82	-90.729	-4,158.69	6,425.06	1,208.53	855.89	352.64	3.427	
12,400.00	4,345.85	11,925.01	4,348.10	182.18	175.11	-90.723	-4,229.40	6,495.77	1,208.52	851.32	357.21	3.383	
12,500.00	4,345.51	12,025.01	4,347.63	184.47	177.39	-90.717	-4,300.11	6,566.48	1,208.52	846.74	361.78	3.341	
12,600.00	4,345.18	12,125.01	4,347.16	186.75	179.68	-90.710	-4,370.82	6,637.19	1,208.52	842.17	366.35	3.299	
12,700.00	4,344.84	12,225.01	4,346.69	189.04	181.96	-90.704	-4,441.52	6,707.90	1,208.51	837.60	370.91	3.258	
12,800.00	4,344.51	12,325.01	4,346.22	191.32	184.25	-90.698	-4,512.23	6,778.61	1,208.51	833.03	375.48	3.219	
12,900.00	4,344.17	12,425.01	4,345.76	193.60	186.53	-90.692	-4,582.94	6,849.33	1,208.51	828.45	380.05	3.180	
13,000.00	4,343.84	12,525.01	4,345.29	195.89	188.82	-90.685	-4,653.65	6,920.04	1,208.50	823.88	384.63	3.142	
13,100.00	4,343.50	12,625.01	4,344.82	198.17	191.10	-90.679	-4,724.36	6,990.75	1,208.50	819.31	389.20	3.105	
13,200.00	4,343.16	12,725.01	4,344.35	200.46	193.39	-90.673	-4,795.07	7,061.46	1,208.50	814.73	393.77	3.069	
13,300.00	4,342.83	12,825.01	4,343.88	202.74	195.68	-90.666	-4,865.78	7,132.17	1,208.50	810.16	398.34	3.034	
13,400.00	4,342.49	12,925.01	4,343.42	205.03	197.96	-90.660	-4,936.49	7,202.88	1,208.49	805.58	402.91	2.999	
13,500.00	4,342.16	13,025.01	4,342.95	207.32	200.25	-90.654	-5,007.20	7,273.59	1,208.49	801.00	407.48	2.966	
13,600.00	4,341.82	13,125.01	4,342.48	209.60	202.54	-90.648	-5,077.91	7,344.30	1,208.49	796.43	412.06	2.933	
13,700.00	4,341.49	13,225.01	4,342.01	211.89	204.82	-90.641	-5,148.62	7,415.01	1,208.48	791.85	416.63	2.901	
13,800.00	4,341.15	13,325.01	4,341.54	214.18	207.11	-90.635	-5,219.33	7,485.72	1,208.48	787.27	421.21	2.869	
13,900.00	4,340.81	13,425.01	4,341.08	216.46	209.40	-90.629	-5,290.04	7,556.43	1,208.48	782.70	425.78	2.838	
14,000.00	4,340.48	13,525.01	4,340.61	218.75	211.69	-90.622	-5,360.75	7,627.14	1,208.47	778.12	430.35	2.808	
14,100.00	4,340.14	13,625.01	4,340.14	221.04	213.97	-90.616	-5,431.45	7,697.85	1,208.47	773.54	434.93	2.779	
14,200.00	4,339.81	13,725.01	4,339.67	223.32	216.26	-90.610	-5,502.16	7,768.56	1,208.47	768.96	439.50	2.750	
14,300.00	4,339.47	13,825.01	4,339.20	225.61	218.55	-90.604	-5,572.87	7,839.27	1,208.46	764.39	444.08	2.721	
14,400.00	4,339.14	13,925.01	4,338.73	227.90	220.84	-90.597	-5,643.58	7,909.98	1,208.46	759.81	448.65	2.694	
14,500.00	4,338.80	14,025.01	4,338.27	230.18	223.13	-90.591	-5,714.29	7,980.69	1,208.46	755.23	453.23	2.666	
14,600.00	4,338.46	14,125.01	4,337.80	232.47	225.41	-90.585	-5,785.00	8,051.40	1,208.46	750.65	457.81	2.640	
14,700.00	4,338.13	14,225.01	4,337.33	234.76	227.70	-90.579	-5,855.71	8,122.11	1,208.45	746.07	462.38	2.614	
14,800.00	4,337.79	14,325.01	4,336.86	237.05	229.99	-90.572	-5,926.42	8,192.82	1,208.45	741.49	466.96	2.588	
14,900.00	4,337.46	14,425.01	4,336.39	239.34	232.28	-90.566	-5,997.13	8,263.53	1,208.45	736.91	471.54	2.563	
15,000.00	4,337.12	14,525.01	4,335.93	241.62	234.57	-90.560	-6,067.84	8,334.24	1,208.44	732.33	476.11	2.538	
15,100.00	4,336.79	14,625.01	4,335.46	243.91	236.86	-90.553	-6,138.55	8,404.95	1,208.44	727.75	480.69	2.514	
15,200.00	4,336.45	14,725.01	4,334.99	246.20	239.15	-90.547	-6,209.26	8,475.66	1,208.44	723.17	485.27	2.490	
15,300.00	4,336.11	14,825.01	4,334.52	248.49	241.43	-90.541	-6,279.97	8,546.37	1,208.44	718.59	489.85	2.467	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook (65, 67, 69, 73, 75 & 77) - Greater Lybrook Unit 073H - 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)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
15,400.00	4,335.78	14,925.01	4,334.05	250.78	243.72	-90.535	-6,350.68	8,617.08	1,208.43	714.01	494.42	2.444		
15,500.00	4,335.44	15,025.01	4,333.59	253.07	246.01	-90.528	-6,421.38	8,687.80	1,208.43	709.43	499.00	2.422		
15,600.00	4,335.11	15,125.01	4,333.12	255.35	248.30	-90.522	-6,492.09	8,758.51	1,208.43	704.85	503.58	2.400		
15,700.00	4,334.77	15,225.01	4,332.65	257.64	250.59	-90.516	-6,562.80	8,829.22	1,208.42	700.26	508.16	2.378		
15,800.00	4,334.44	15,325.01	4,332.18	259.93	252.88	-90.509	-6,633.51	8,899.93	1,208.42	695.68	512.74	2.357		
15,900.00	4,334.10	15,425.01	4,331.71	262.22	255.17	-90.503	-6,704.22	8,970.64	1,208.42	691.10	517.32	2.336		
15,929.91	4,334.00	15,454.92	4,331.57	262.91	255.85	-90.501	-6,725.37	8,991.79	1,208.42	689.73	518.69	2.330 ES, SF		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510) - Rodeo Unit #503H - Original Hole - MWD surveys												Offset Site Error:	0.00 ft
Survey Program: 8-MWD, 2917-MWD, 13975-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
14,400.00	4,339.14	7,260.15	4,888.92	227.90	62.82	107.526	-8,207.22	7,079.09	1,749.44	1,536.34	213.10	8.209	
14,500.00	4,338.80	7,324.45	4,889.17	230.18	64.40	108.202	-8,206.41	7,143.38	1,679.69	1,463.81	215.89	7.780	
14,600.00	4,338.46	7,403.48	4,890.07	232.47	66.34	109.134	-8,205.14	7,222.40	1,609.99	1,392.62	217.37	7.407	
14,700.00	4,338.13	7,473.38	4,891.02	234.76	68.06	110.045	-8,203.75	7,292.28	1,540.26	1,320.86	219.40	7.020	
14,800.00	4,337.79	7,540.19	4,891.34	237.05	69.71	110.958	-8,202.60	7,359.08	1,470.79	1,249.21	221.58	6.638	
14,900.00	4,337.46	7,606.36	4,890.54	239.34	71.35	111.877	-8,201.96	7,425.24	1,401.75	1,178.04	223.72	6.266	
15,000.00	4,337.12	7,677.64	4,888.87	241.62	73.11	112.911	-8,201.54	7,496.50	1,333.00	1,107.87	225.13	5.921	
15,100.00	4,336.79	7,739.03	4,887.73	243.91	74.62	113.902	-8,201.23	7,557.87	1,264.67	1,037.20	227.47	5.560	
15,200.00	4,336.45	7,799.23	4,888.54	246.20	76.11	115.074	-8,200.90	7,618.06	1,197.33	967.60	229.72	5.212	
15,300.00	4,336.11	7,867.10	4,889.86	248.49	77.80	116.543	-8,200.73	7,685.93	1,130.79	900.16	230.63	4.903	
15,400.00	4,335.78	7,939.90	4,890.79	250.78	79.61	118.255	-8,200.77	7,758.71	1,064.85	834.52	230.33	4.623	
15,500.00	4,335.44	8,012.19	4,891.30	253.07	81.40	120.130	-8,200.78	7,831.01	999.36	769.93	229.43	4.356	
15,600.00	4,335.11	8,080.91	4,891.28	255.35	83.11	122.084	-8,200.97	7,899.73	934.61	706.18	228.43	4.091	
15,700.00	4,334.77	8,138.88	4,892.23	257.64	84.55	123.978	-8,201.29	7,957.69	871.44	642.74	228.71	3.810	
15,800.00	4,334.44	8,210.82	4,895.38	259.93	86.34	126.742	-8,201.55	8,029.55	810.26	585.35	224.91	3.603	
15,900.00	4,334.10	8,287.87	4,899.37	262.22	88.26	130.192	-8,200.58	8,106.50	750.03	531.81	218.22	3.437	
15,929.91	4,334.00	8,309.01	4,900.46	262.91	88.79	131.224	-8,200.23	8,127.61	732.35	516.01	216.34	3.385 CC, ES, SF	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rodeo Unit (500, 501, 503, 504, 506, 508, 509&510) - Rodeo Unit #504H - Original Hole - MWD surveys												Offset Site Error: 0.00 ft	
Survey Program: 8-MWD, 3057-MWD, 14565-MWD												Offset Well Error: 0.00 ft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Offset Well Error: 0.00 ft	
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	Warning
15,800.00	4,334.44	6,249.55	4,875.58	259.93	54.74	103.384	-9,118.60	7,499.50	1,757.66	1,479.90	277.76	6.328	
15,900.00	4,334.10	6,338.44	4,877.59	262.22	56.68	103.810	-9,146.38	7,583.92	1,714.10	1,432.89	281.21	6.095	
15,929.91	4,334.00	6,364.48	4,877.81	262.91	57.25	103.925	-9,154.62	7,608.62	1,701.11	1,418.84	282.27	6.027 CC, ES, SF	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook Unit - W Lybrook UT 753H - Original Hole - Surveys Original Hole														Offset Site Error:	0.00 ft
Survey Program: 21-MWD														Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		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			
0.00	0.00	9.50	9.50	0.00	0.00	-127.943	-646.10	-828.68	1,050.79						
100.00	100.00	102.16	102.16	0.27	0.29	-127.991	-646.92	-828.29	1,051.01	1,050.45	0.56	1,870.546			
200.00	200.00	194.14	194.13	0.63	0.61	-128.037	-648.25	-828.61	1,052.17	1,050.92	1.25	843.246			
300.00	300.00	298.98	298.95	0.99	0.98	-128.004	-648.57	-830.02	1,053.42	1,051.45	1.97	534.039			
400.00	400.00	401.03	401.00	1.35	1.34	-127.957	-648.49	-831.30	1,054.36	1,051.67	2.69	391.740			
500.00	500.00	519.98	519.93	1.71	1.76	-127.879	-647.47	-832.34	1,054.57	1,051.10	3.47	304.109			
600.00	600.00	665.04	664.72	2.07	2.27	-127.505	-639.09	-832.73	1,051.16	1,046.83	4.33	242.734			
700.00	700.00	801.12	799.92	2.43	2.76	-126.834	-623.80	-832.82	1,044.46	1,039.29	5.17	201.962			
800.00	800.00	914.60	911.95	2.78	3.20	-126.018	-605.73	-833.15	1,035.15	1,029.20	5.95	173.855			
900.00	900.00	1,030.43	1,025.63	3.14	3.68	-124.981	-583.61	-834.08	1,024.59	1,017.82	6.77	151.387			
1,000.00	1,000.00	1,160.50	1,152.11	3.50	4.26	-123.517	-553.28	-835.37	1,012.08	1,004.42	7.66	132.045			
1,100.00	1,099.95	1,273.67	1,261.11	3.86	4.81	-111.633	-522.86	-835.52	998.17	989.64	8.53	117.014			
1,200.00	1,199.63	1,366.14	1,349.47	4.22	5.29	-110.968	-495.65	-836.86	986.23	976.89	9.34	105.546			
1,300.00	1,298.77	1,456.09	1,435.40	4.58	5.76	-110.470	-469.14	-838.83	977.04	966.87	10.17	96.065			
1,400.00	1,397.08	1,545.77	1,521.49	4.96	6.24	-110.197	-444.15	-841.39	971.19	960.17	11.01	88.192			
1,500.00	1,494.31	1,661.98	1,632.70	5.36	6.87	-110.052	-410.54	-843.62	965.76	953.76	12.00	80.461			
1,600.00	1,590.18	1,760.17	1,726.20	5.80	7.42	-110.095	-380.70	-846.59	962.39	949.43	12.96	74.265			
1,700.00	1,684.68	1,851.48	1,813.35	6.28	7.93	-110.346	-353.56	-848.81	960.48	946.56	13.92	69.014			
1,800.00	1,779.00	1,987.16	1,942.52	6.79	8.71	-110.651	-312.25	-852.76	959.12	944.01	15.11	63.474			
1,900.00	1,873.31	2,090.54	2,039.89	7.32	9.34	-110.757	-277.56	-854.25	954.48	938.28	16.21	58.898			
2,000.00	1,967.63	2,196.37	2,139.18	7.86	10.00	-110.816	-240.97	-855.55	949.08	931.74	17.34	54.736			
2,100.00	2,061.95	2,299.31	2,235.56	8.42	10.65	-110.843	-204.83	-856.83	943.43	924.95	18.48	51.052			
2,200.00	2,156.26	2,390.65	2,321.29	8.99	11.23	-110.916	-173.30	-857.37	937.57	918.00	19.57	47.903			
2,300.00	2,250.58	2,472.85	2,398.99	9.57	11.73	-111.045	-146.54	-858.70	933.60	912.98	20.62	45.285			
2,400.00	2,344.89	2,560.41	2,482.53	10.16	12.24	-111.309	-120.34	-860.16	931.16	909.50	21.66	42.984			
2,500.00	2,439.21	2,650.51	2,569.10	10.76	12.75	-111.695	-95.43	-861.63	929.97	907.27	22.70	40.974			
2,577.34	2,512.16	2,721.24	2,637.41	11.22	13.13	-112.071	-77.11	-862.60	929.67	906.18	23.49	39.584			
2,600.00	2,533.53	2,740.25	2,655.81	11.35	13.23	-112.180	-72.35	-862.88	929.73	906.02	23.71	39.218			
2,700.00	2,627.84	2,835.07	2,747.77	11.96	13.73	-112.744	-49.32	-864.83	930.89	906.17	24.73	37.648			
2,800.00	2,722.16	2,956.92	2,865.39	12.57	14.40	-113.375	-17.58	-866.72	930.74	904.86	25.88	35.965			
2,900.00	2,816.47	3,061.54	2,965.50	13.18	15.00	-113.748	12.76	-868.50	929.07	902.07	26.99	34.419			
3,000.00	2,910.79	3,158.77	3,058.17	13.79	15.57	-114.008	42.06	-870.98	927.46	899.37	28.10	33.010			
3,100.00	3,005.11	3,255.00	3,149.97	14.41	16.14	-114.267	70.79	-873.83	926.37	897.18	29.20	31.730			
3,200.00	3,100.08	3,347.77	3,238.62	15.01	16.68	-114.387	97.97	-876.87	925.03	894.77	30.26	30.565			
3,300.00	3,196.56	3,432.53	3,319.90	15.55	17.17	-114.259	121.79	-880.00	922.61	891.35	31.26	29.514			
3,400.00	3,294.28	3,549.35	3,432.20	16.04	17.82	-113.758	153.72	-883.87	918.24	885.86	32.38	28.360			
3,500.00	3,392.97	3,669.97	3,547.75	16.48	18.52	-112.763	188.29	-885.30	909.24	875.75	33.49	27.154			
3,600.00	3,492.37	3,769.20	3,642.15	16.85	19.11	-111.374	218.85	-886.43	897.19	862.68	34.51	25.997			
3,700.00	3,592.20	3,855.29	3,724.22	17.18	19.62	-109.819	244.79	-887.67	884.29	848.83	35.46	24.935			
3,800.00	3,692.19	3,939.36	3,805.00	17.45	20.09	-119.226	268.06	-889.18	871.89	835.54	36.36	23.981			
3,900.00	3,792.19	4,029.78	3,892.66	17.72	20.57	-117.922	290.20	-889.47	860.24	823.02	37.22	23.111			
4,000.00	3,891.77	4,235.88	4,094.40	17.93	21.51	111.375	329.15	-878.03	852.29	814.32	37.97	22.447			
4,100.00	3,988.51	4,424.28	4,273.75	18.03	22.16	116.214	352.59	-827.23	829.96	792.20	37.76	21.979			
4,200.00	4,079.48	4,518.69	4,361.00	18.05	22.31	119.001	348.35	-791.67	813.99	776.03	37.96	21.442			
4,289.24	4,153.52	4,581.03	4,417.34	18.02	22.35	120.480	338.30	-766.98	808.85	770.56	38.30	21.121			
4,300.00	4,161.90	4,588.43	4,423.96	18.02	22.36	120.612	336.74	-764.08	808.93	770.60	38.33	21.103			
4,400.00	4,233.29	4,811.56	4,607.82	17.97	22.26	124.061	266.72	-661.14	812.74	776.26	36.49	22.274			
4,500.00	4,291.45	5,083.26	4,749.87	17.96	21.80	124.742	121.90	-484.36	800.29	765.51	34.77	23.015			
4,600.00	4,334.63	5,235.49	4,788.34	18.07	21.58	124.237	20.20	-378.23	788.03	752.35	35.67	22.089			
4,700.00	4,361.53	5,387.32	4,794.97	18.38	22.11	122.789	-89.69	-273.89	777.06	739.46	37.60	20.669			
4,796.06	4,371.25	5,490.27	4,792.19	18.95	23.18	122.177	-164.54	-203.26	772.73	733.28	39.44	19.592			
4,800.00	4,371.30	5,494.13	4,792.05	18.98	23.22	122.159	-167.36	-200.63	772.73	733.22	39.51	19.557			

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook Unit - W Lybrook UT 753H - Original Hole - Surveys Original Hole											Offset Site Error:	0.00 ft
Survey Program: 21-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	
4,900.00	4,371.03	5,603.72	4,787.23	19.87	24.62	121.736	-247.16	-125.68	773.21	731.53	41.68	18.550
4,930.20	4,370.92	5,633.26	4,785.91	20.20	25.03	121.630	-268.54	-105.34	773.19	730.83	42.36	18.253
5,000.00	4,370.69	5,691.00	4,783.85	21.01	25.86	121.465	-310.18	-65.40	773.34	729.57	43.77	17.670
5,100.00	4,370.35	5,786.00	4,782.84	22.35	27.30	121.337	-378.90	0.19	774.97	728.82	46.15	16.793
5,200.00	4,370.02	5,889.98	4,783.72	23.84	28.97	121.333	-453.89	72.21	777.31	728.45	48.87	15.907
5,300.00	4,369.68	5,993.72	4,783.72	25.46	30.73	121.295	-528.35	144.44	778.80	727.03	51.77	15.043
5,400.00	4,369.35	6,099.95	4,784.51	27.17	32.62	121.355	-603.68	219.33	779.61	724.75	54.86	14.212
5,500.00	4,369.01	6,205.78	4,785.00	28.97	34.58	121.425	-678.18	294.49	779.64	721.59	58.06	13.429
5,577.72	4,368.75	6,280.92	4,785.64	30.41	36.00	121.518	-730.62	348.31	779.28	718.86	60.42	12.897
5,600.00	4,368.68	6,298.36	4,785.80	30.83	36.33	121.535	-742.90	360.69	779.35	718.35	61.01	12.775
5,700.00	4,368.34	6,384.11	4,786.39	32.74	37.98	121.536	-804.52	420.31	781.24	717.37	63.87	12.232
5,800.00	4,368.01	6,489.90	4,786.51	34.70	40.03	121.480	-880.90	493.52	783.28	715.92	67.36	11.628
5,900.00	4,367.67	6,580.21	4,787.47	36.70	41.81	121.516	-945.53	556.58	785.11	714.68	70.43	11.148
6,000.00	4,367.33	6,658.34	4,789.28	38.74	43.36	121.530	-1,002.83	609.65	789.69	716.54	73.15	10.796
6,100.00	4,367.00	6,764.56	4,791.25	40.79	45.48	121.474	-1,081.57	680.91	795.09	718.29	76.81	10.352
6,200.00	4,366.66	6,878.40	4,793.18	42.88	47.79	121.466	-1,164.83	758.52	799.15	718.42	80.73	9.899
6,300.00	4,366.33	6,991.10	4,794.17	44.98	50.12	121.466	-1,246.07	836.64	801.45	716.81	84.64	9.469
6,400.00	4,365.99	7,100.39	4,794.29	47.10	52.41	121.462	-1,324.00	913.26	802.40	713.92	88.48	9.069
6,500.00	4,365.66	7,180.00	4,794.07	49.24	54.08	121.419	-1,381.14	968.69	803.80	712.35	91.45	8.790
6,600.00	4,365.32	7,273.09	4,794.10	51.39	56.02	121.290	-1,449.76	1,031.59	807.67	712.77	94.90	8.511
6,700.00	4,364.98	7,378.64	4,794.27	53.55	58.24	121.179	-1,527.10	1,103.42	811.09	712.30	98.78	8.211
6,800.00	4,364.65	7,485.21	4,794.59	55.72	60.51	121.111	-1,604.53	1,176.63	813.81	711.12	102.69	7.925
6,900.00	4,364.31	7,587.14	4,794.76	57.90	62.69	121.061	-1,678.16	1,247.12	815.95	709.51	106.44	7.666
7,000.00	4,363.98	7,695.72	4,794.53	60.09	65.04	121.001	-1,756.25	1,322.56	817.49	707.06	110.44	7.402
7,100.00	4,363.64	7,783.00	4,794.47	62.29	66.93	120.997	-1,818.33	1,383.91	818.28	704.58	113.69	7.197
7,200.00	4,363.31	7,878.00	4,795.75	64.49	68.99	121.019	-1,886.91	1,449.63	820.98	703.80	117.17	7.007
7,300.00	4,362.97	7,969.09	4,796.41	66.70	70.95	120.920	-1,954.34	1,510.86	825.56	704.93	120.63	6.844
7,400.00	4,362.63	8,069.00	4,794.70	68.91	73.09	120.648	-2,028.67	1,577.60	829.48	704.88	124.60	6.657
7,500.00	4,362.30	8,163.00	4,793.91	71.14	75.11	120.421	-2,099.01	1,639.94	834.40	706.08	128.32	6.502
7,600.00	4,361.96	8,259.59	4,794.05	73.36	77.18	120.233	-2,171.57	1,703.70	840.18	708.07	132.11	6.360
7,700.00	4,361.63	8,368.95	4,792.87	75.59	79.54	119.962	-2,253.37	1,776.27	844.98	708.46	136.52	6.190
7,800.00	4,361.29	8,476.95	4,791.16	77.82	81.88	119.701	-2,333.46	1,848.71	848.70	707.83	140.87	6.025
7,900.00	4,360.96	8,583.83	4,789.21	80.06	84.22	119.457	-2,412.15	1,921.01	851.65	706.47	145.18	5.866
8,000.00	4,360.62	8,694.50	4,788.83	82.30	86.66	119.377	-2,492.08	1,997.53	853.55	704.13	149.42	5.712
8,100.00	4,360.28	8,801.76	4,789.22	84.54	89.05	119.405	-2,568.27	2,073.04	854.27	700.87	153.40	5.569
8,200.00	4,359.95	8,911.36	4,789.48	86.78	91.51	119.457	-2,645.41	2,150.88	854.17	696.77	157.40	5.427
8,238.98	4,359.82	8,944.07	4,789.38	87.66	92.24	119.466	-2,668.39	2,174.17	853.97	695.30	158.67	5.382
8,300.00	4,359.61	8,989.18	4,789.32	89.03	93.24	119.457	-2,700.58	2,205.76	854.53	694.08	160.46	5.326
8,400.00	4,359.28	9,082.65	4,789.49	91.28	95.32	119.398	-2,768.52	2,269.96	857.22	693.15	164.08	5.224
8,500.00	4,358.94	9,186.37	4,789.81	93.53	97.62	119.357	-2,843.56	2,341.55	859.59	691.54	168.05	5.115
8,600.00	4,358.61	9,287.50	4,789.95	95.79	99.87	119.314	-2,916.59	2,411.51	861.69	689.76	171.93	5.012
8,700.00	4,358.27	9,366.32	4,790.25	98.04	101.62	119.268	-2,974.00	2,465.51	864.77	689.83	174.94	4.943
8,800.00	4,357.93	9,460.06	4,790.53	100.30	103.68	119.127	-3,044.01	2,527.86	870.09	691.41	178.68	4.870
8,900.00	4,357.60	9,564.17	4,791.17	102.56	105.97	119.015	-3,121.26	2,597.63	875.00	692.18	182.82	4.786
9,000.00	4,357.26	9,664.56	4,791.86	104.82	108.19	118.922	-3,195.56	2,665.15	879.67	692.89	186.78	4.710
9,100.00	4,356.93	9,774.51	4,792.08	107.08	110.62	118.800	-3,276.73	2,739.32	883.88	692.69	191.19	4.623
9,200.00	4,356.59	9,879.58	4,790.89	109.35	112.95	118.617	-3,354.02	2,810.47	887.13	691.63	195.50	4.538
9,300.00	4,356.26	9,988.76	4,789.60	111.61	115.39	118.455	-3,433.69	2,885.11	889.59	689.66	199.93	4.450
9,400.00	4,355.92	10,102.41	4,789.60	113.88	117.95	118.433	-3,515.06	2,964.46	890.88	686.65	204.23	4.362
9,466.08	4,355.70	10,171.49	4,789.43	115.37	119.50	118.442	-3,563.79	3,013.41	890.76	683.95	206.81	4.307
9,500.00	4,355.58	10,195.24	4,789.27	116.14	120.04	118.430	-3,580.74	3,030.06	890.98	683.19	207.78	4.288
9,600.00	4,355.25	10,270.32	4,788.43	118.41	121.72	118.311	-3,635.76	3,081.12	893.80	682.95	210.86	4.239

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook Unit - W Lybrook UT 753H - Original Hole - Surveys Original Hole													Offset Site Error: 0.00 ft
Survey Program: 21-MWD													Offset Well Error: 0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
9,700.00	4,354.91	10,365.50	4,787.41	120.68	123.83	118.124	-3,706.42	3,144.89	897.98	683.17	214.81	4.180	
9,800.00	4,354.58	10,456.03	4,787.80	122.95	125.83	118.015	-3,773.83	3,205.31	903.15	684.74	218.41	4.135	
9,900.00	4,354.24	10,567.02	4,786.59	125.22	128.28	117.769	-3,856.92	3,278.87	908.17	684.95	223.23	4.068	
10,000.00	4,353.91	10,678.62	4,784.31	127.49	130.76	117.501	-3,939.61	3,353.79	911.73	683.64	228.09	3.997	
10,100.00	4,353.57	10,788.97	4,782.22	129.77	133.23	117.286	-4,020.50	3,428.82	914.36	681.60	232.76	3.928	
10,200.00	4,353.23	10,902.42	4,779.32	132.04	135.78	117.065	-4,102.66	3,507.00	915.55	678.03	237.52	3.855	
10,300.00	4,352.90	11,007.99	4,775.91	134.31	138.16	116.846	-4,178.46	3,580.40	915.68	673.68	242.00	3.784	
10,400.00	4,352.56	11,129.85	4,776.86	136.59	140.95	116.995	-4,262.76	3,668.32	914.29	668.25	246.04	3.716	
10,500.00	4,352.23	11,240.42	4,780.20	138.86	143.50	117.370	-4,336.65	3,750.50	911.10	661.92	249.18	3.656	
10,600.00	4,351.89	11,333.09	4,782.47	141.14	145.64	117.662	-4,398.48	3,819.50	907.55	655.44	252.11	3.600	
10,700.00	4,351.56	11,431.94	4,784.06	143.42	147.91	117.876	-4,465.77	3,891.89	905.23	649.91	255.32	3.546	
10,800.00	4,351.22	11,526.09	4,785.83	145.69	150.08	118.113	-4,529.39	3,961.26	902.47	644.16	258.32	3.494	
10,900.00	4,350.88	11,626.90	4,785.74	147.97	152.39	118.192	-4,599.14	4,034.04	900.73	638.88	261.85	3.440	
10,994.31	4,350.57	11,701.90	4,784.94	150.12	154.10	118.191	-4,651.45	4,087.78	899.37	634.55	264.82	3.396	
11,000.00	4,350.55	11,705.92	4,784.91	150.25	154.19	118.190	-4,654.30	4,090.61	899.37	634.39	264.98	3.394	
11,100.00	4,350.21	11,796.40	4,784.39	152.53	156.24	118.134	-4,719.29	4,153.55	900.62	632.09	268.53	3.354	
11,200.00	4,349.88	11,904.22	4,784.26	154.81	158.69	118.122	-4,796.12	4,229.20	901.40	628.85	272.55	3.307	
11,300.00	4,349.54	12,015.11	4,784.30	157.08	161.22	118.159	-4,874.19	4,307.95	901.20	624.73	276.47	3.260	
11,329.40	4,349.44	12,036.99	4,784.32	157.76	161.71	118.168	-4,889.58	4,323.51	901.11	623.80	277.31	3.249	
11,400.00	4,349.21	12,099.00	4,784.07	159.36	163.12	118.147	-4,933.88	4,366.90	901.70	622.01	279.69	3.224	
11,500.00	4,348.87	12,188.50	4,782.98	161.65	165.14	118.030	-4,998.83	4,428.46	903.61	620.28	283.33	3.189	
11,600.00	4,348.54	12,280.00	4,783.38	163.93	167.20	117.988	-5,065.44	4,491.18	906.59	619.79	286.81	3.161	
11,700.00	4,348.20	12,372.31	4,784.27	166.21	169.27	117.953	-5,133.11	4,553.95	910.48	620.20	290.28	3.137	
11,800.00	4,347.86	12,474.83	4,783.22	168.49	171.57	117.773	-5,208.89	4,622.98	914.28	619.61	294.67	3.103	
11,900.00	4,347.53	12,591.69	4,781.36	170.77	174.19	117.556	-5,294.75	4,702.24	917.28	617.47	299.81	3.060	
12,000.00	4,347.19	12,712.66	4,782.51	173.05	176.95	117.651	-5,380.06	4,787.99	917.60	613.68	303.92	3.019	
12,100.00	4,346.86	12,815.60	4,784.03	175.33	179.31	117.808	-5,451.52	4,862.07	916.85	609.68	307.17	2.985	
12,200.00	4,346.52	12,929.10	4,785.20	177.62	181.92	117.979	-5,529.68	4,944.36	915.21	604.65	310.56	2.947	
12,300.00	4,346.19	13,030.72	4,785.96	179.90	184.26	118.134	-5,599.24	5,018.44	912.94	599.27	313.67	2.910	
12,400.00	4,345.85	13,138.27	4,785.97	182.18	186.74	118.268	-5,672.54	5,097.14	909.97	593.07	316.90	2.871	
12,500.00	4,345.51	13,246.89	4,784.82	184.47	189.25	118.348	-5,746.36	5,176.80	906.29	586.04	320.25	2.830	
12,600.00	4,345.18	13,354.77	4,783.16	186.75	191.75	118.429	-5,818.93	5,256.61	901.54	578.05	323.49	2.787	
12,700.00	4,344.84	13,464.84	4,782.25	189.04	194.31	118.608	-5,891.77	5,339.12	895.85	569.58	326.27	2.746	
12,800.00	4,344.51	13,568.49	4,781.60	191.32	196.73	118.833	-5,959.32	5,417.74	889.07	560.29	328.78	2.704	
12,900.00	4,344.17	13,652.09	4,780.43	193.60	198.67	118.940	-6,014.73	5,480.32	883.26	551.51	331.75	2.662	
13,000.00	4,343.84	13,735.64	4,779.85	195.89	200.60	119.032	-6,071.33	5,541.78	879.46	544.84	334.62	2.628	
13,100.00	4,343.50	13,842.52	4,779.54	198.17	203.08	119.182	-6,143.54	5,620.57	875.65	538.19	337.47	2.595	
13,200.00	4,343.16	13,930.83	4,779.14	200.46	205.11	119.266	-6,203.97	5,684.97	872.79	532.47	340.32	2.565	
13,300.00	4,342.83	14,041.89	4,776.09	202.74	207.67	119.193	-6,280.68	5,765.20	869.65	525.55	344.10	2.527	
13,400.00	4,342.49	14,161.57	4,772.79	205.03	210.44	119.179	-6,361.83	5,853.11	865.03	517.58	347.45	2.490	
13,500.00	4,342.16	14,259.77	4,770.38	207.32	212.72	119.246	-6,427.03	5,926.50	858.85	508.51	350.34	2.451	
13,600.00	4,341.82	14,340.32	4,768.84	209.60	214.59	119.294	-6,481.27	5,986.02	854.06	500.78	353.28	2.418	
13,700.00	4,341.49	14,441.11	4,768.17	211.89	216.92	119.391	-6,550.00	6,059.74	850.85	494.76	356.09	2.389	
13,800.00	4,341.15	14,526.15	4,768.08	214.18	218.88	119.507	-6,607.86	6,122.06	847.78	489.24	358.55	2.364	
13,900.00	4,340.81	14,630.78	4,769.37	216.46	221.30	119.702	-6,679.74	6,198.08	846.16	485.15	361.01	2.344	
14,000.00	4,340.48	14,746.58	4,771.24	218.75	223.98	120.033	-6,757.36	6,283.99	842.73	479.94	362.79	2.323	
14,100.00	4,340.14	14,858.76	4,772.90	221.04	226.60	120.416	-6,831.07	6,368.53	837.74	473.77	363.97	2.302	
14,200.00	4,339.81	14,969.35	4,773.32	223.32	229.19	120.781	-6,902.58	6,452.89	831.00	466.07	364.93	2.277	
14,300.00	4,339.47	15,073.72	4,770.79	225.61	231.62	120.904	-6,971.15	6,531.53	824.09	457.11	366.98	2.246	
14,400.00	4,339.14	15,169.01	4,767.40	227.90	233.85	120.979	-7,033.20	6,603.77	815.98	446.64	369.34	2.209	
14,500.00	4,338.80	15,248.44	4,764.86	230.18	235.69	120.975	-7,086.67	6,662.44	810.47	438.15	372.33	2.177	
14,600.00	4,338.46	15,344.48	4,761.96	232.47	237.91	120.942	-7,152.10	6,732.69	806.05	430.78	375.27	2.148	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: W Lybrook Unit - W Lybrook UT 753H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program: 21-MWD													Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				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		
14,700.00	4,338.13	15,443.54	4,761.07	234.76	240.21	121.048	-7,219.39	6,805.38	802.45	424.92	377.53	2.126		
14,800.00	4,337.79	15,566.45	4,759.40	237.05	243.07	121.237	-7,301.07	6,897.20	796.90	417.94	378.97	2.103		
14,900.00	4,337.46	15,685.55	4,756.45	239.34	245.86	121.443	-7,378.15	6,987.94	788.86	409.30	379.57	2.078		
15,000.00	4,337.12	15,806.83	4,753.83	241.62	248.71	121.845	-7,453.41	7,083.00	778.04	399.91	378.13	2.058		
15,100.00	4,336.79	15,866.00	4,752.60	243.91	250.11	122.085	-7,489.41	7,129.94	767.07	386.23	380.84	2.014		
15,152.30	4,336.61	15,866.00	4,752.60	245.11	250.11	122.085	-7,489.41	7,129.94	765.28	383.64	381.64	2.005 CC, ES, SF		
15,200.00	4,336.45	15,866.00	4,752.60	246.20	250.11	122.085	-7,489.41	7,129.94	766.77	387.37	379.39	2.021		
15,300.00	4,336.11	15,866.00	4,752.60	248.49	250.11	122.085	-7,489.41	7,129.94	779.40	413.06	366.35	2.127		
15,400.00	4,335.78	15,866.00	4,752.60	250.78	250.11	122.085	-7,489.41	7,129.94	804.37	459.17	345.20	2.330		
15,500.00	4,335.44	15,866.00	4,752.60	253.07	250.11	122.085	-7,489.41	7,129.94	840.56	520.29	320.27	2.625		
15,600.00	4,335.11	15,866.00	4,752.60	255.35	250.11	122.085	-7,489.41	7,129.94	886.62	591.79	294.83	3.007		
15,700.00	4,334.77	15,866.00	4,752.60	257.64	250.11	122.085	-7,489.41	7,129.94	941.08	670.35	270.73	3.476		
15,800.00	4,334.44	15,866.00	4,752.60	259.93	250.11	122.085	-7,489.41	7,129.94	1,002.58	753.77	248.81	4.029		
15,900.00	4,334.10	15,866.00	4,752.60	262.22	250.11	122.085	-7,489.41	7,129.94	1,069.91	840.60	229.31	4.666		
15,929.91	4,334.00	15,866.00	4,752.60	262.91	250.11	122.085	-7,489.41	7,129.94	1,091.02	867.08	223.94	4.872		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6707+23.5 @ 6730.50ft

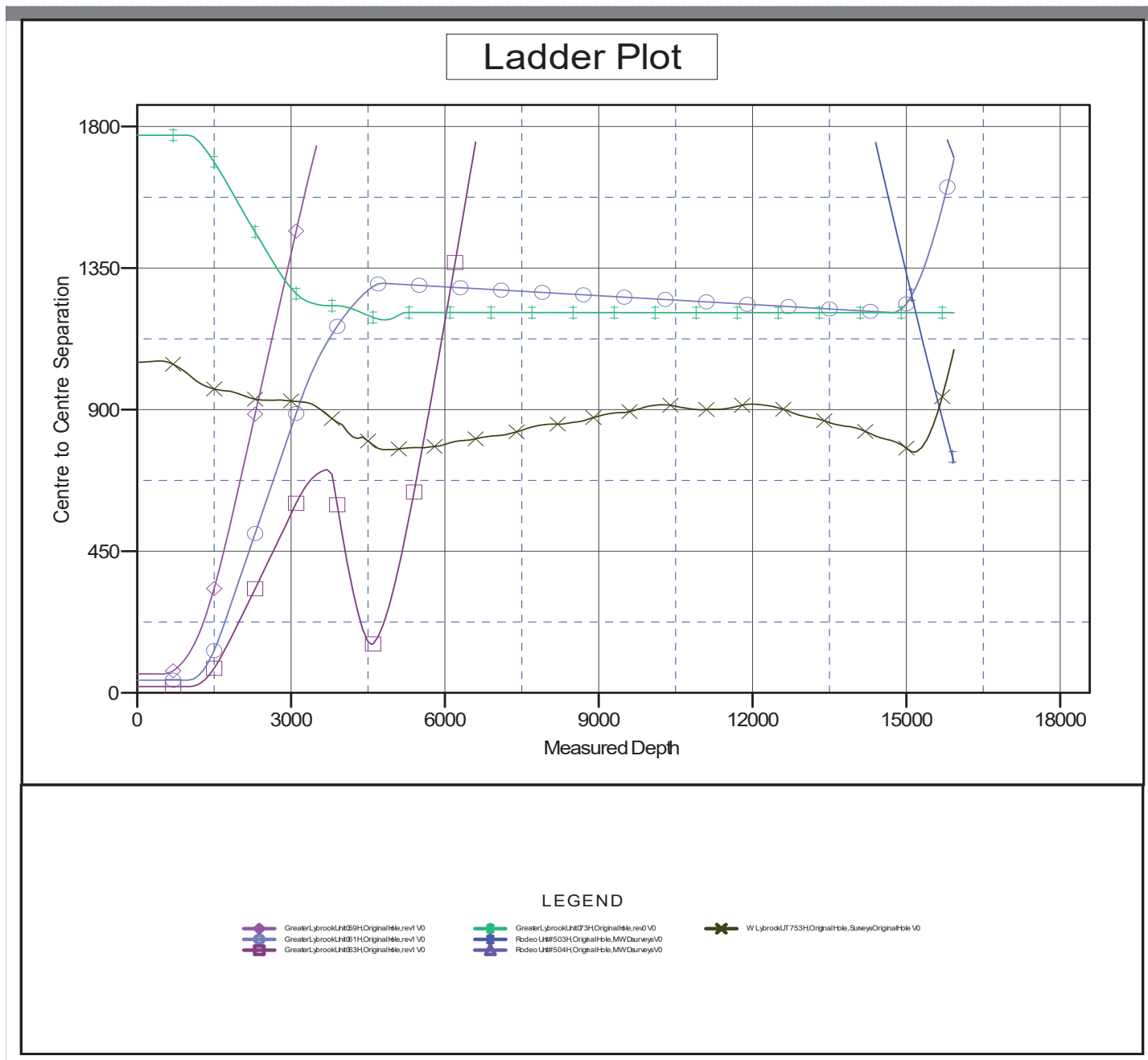
Offset Depths are relative to Offset Datum

Central Meridian is -107.83333333

Coordinates are relative to: Greater Lybrook Unit 071H

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

Grid Convergence at Surface is: 0.050°



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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Greater Lybrook Unit 071H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6707+23.5 @ 6730.50ft
Reference Site:	Greater Lybrook (59, 61, 63 & 71)	MD Reference:	RKB=6707+23.5 @ 6730.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 071H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT-Jun1425_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6707+23.5 @ 6730.50ft

Offset Depths are relative to Offset Datum

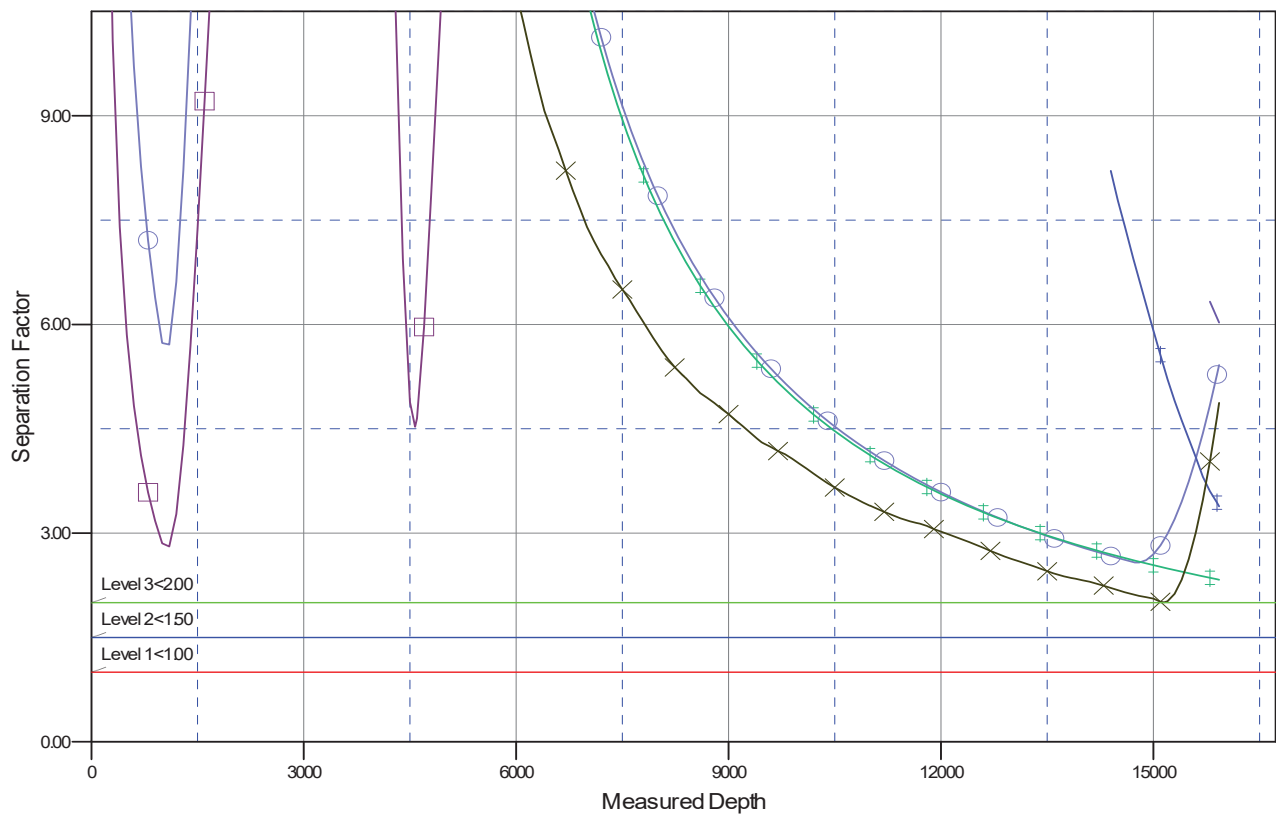
Central Meridian is -107.8333333

Coordinates are relative to: Greater Lybrook Unit 071H

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

Grid Convergence at Surface is: 0.050°

Separation Factor Plot



LEGEND

GreaterLybrookUnit059H.OriginalHole.rev1 V0	GreaterLybrookUnit073H.OriginalHole.rev0 V0	W LybrookUT 753H.OriginalHole.SurveyOriginalHole V0
GreaterLybrookUnit061H.OriginalHole.rev1 V0	Rodeo Unit#503H.OriginalHole.MWD.Survey.V0	
GreaterLybrookUnit063H.OriginalHole.rev1 V0	Rodeo Unit#504H.OriginalHole.MWD.Survey.V0	

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



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

* ENDURING RESOURCES LLC
#071H GREATER LYBROOK UNIT
Lease: NO-G 1312-1856 Agreement: NMNM 144419X
SH: NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 13, T. 23N., R. 9W.
San Juan County, New Mexico
BH: SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 19, T. 23N., R. 8W.
San Juan County, New Mexico
***Above Data Required on Well Sign**

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

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

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

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

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

II. REPORTING REQUIREMENTS

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

III. DRILLER'S LOG

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

IV. GAS FLARING

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

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

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 494749

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 494749
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

☐	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
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CONDITIONS

Action 494749

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
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	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.	8/12/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	8/12/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	9/5/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/5/2025
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.	9/5/2025
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.	9/5/2025
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/5/2025