

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-045-38514
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
24. Attachments		

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

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

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

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NENW / 1201 FNL / 2411 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.201848 / LONG: -107.77692 (TVD: 0 feet, MD: 0 feet)
PPP: SENW / 1564 FNL / 2053 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.200867 / LONG: -107.778145 (TVD: 3993 feet, MD: 4192 feet)
PPP: SWNE / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.199421 / LONG: -107.776161 (TVD: 4092 feet, MD: 12975 feet)
PPP: NWSE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 9W / SECTION: 27 / LAT: 36.199421 / LONG: -107.776161 (TVD: 4092 feet, MD: 12975 feet)
PPP: NWNW / 0 FNL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 35 / LAT: 36.190671 / LONG: -107.765371 (TVD: 4092 feet, MD: 12975 feet)
PPP: SWSW / 0 FSL / 0 FWL / TWSP: 23N / RANGE: 9W / SECTION: 26 / LAT: 36.192231 / LONG: -107.767211 (TVD: 4092 feet, MD: 12975 feet)
BHL: SWNE / 2405 FNL / 2424 FEL / TWSP: 23N / RANGE: 9W / SECTION: 35 / LAT: 36.184065 / LONG: -107.757655 (TVD: 4092 feet, MD: 12975 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 30-045-38514	Pool Code 98157	Pool Name LYBROOK MANCOS W
Property Code 332891	Property Name GREATER LYBROOK UNIT	Well Number 043H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6640'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL C	Section 27	Township 23N	Range 9W	Lot	Feet from N/S Line 1201' NORTH	Feet from E/W Line 2411' WEST	Latitude 36.201848 °N	Longitude -107.776920 °W	County SAN JUAN
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Bottom Hole Location

UL G	Section 35	Township 23N	Range 9W	Lot	Feet from N/S Line 2405' NORTH	Feet from E/W Line 2424' EAST	Latitude 36.184065 °N	Longitude -107.757655 °W	County SAN JUAN
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Dedicated Acres 440.00	Penetrated Spacing Unit SW/4 SW/4 - Section 26 SE/4 NW/4, SW/4 NE/4, N/2 SE/4 SE/4 SE/4 - Section 27 NW/4, SW/4 NE/4 - Section 35	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 C	Section 27	Township 23N	Range 9W	Lot	Feet from N/S Line 1201' NORTH	Feet from E/W Line 2411' WEST	Latitude 36.201848 °N	Longitude -107.776920 °W	County SAN JUAN
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First Take Point (FTP)

UL F	Section 27	Township 23N	Range 9W	Lot	Feet from N/S Line 1564' NORTH	Feet from E/W Line 2053' WEST	Latitude 36.200867 °N	Longitude -107.778145 °W	County SAN JUAN
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Last Take Point (LTP)

UL G	Section 35	Township 23N	Range 9W	Lot	Feet from N/S Line 2405' NORTH	Feet from E/W Line 2424' EAST	Latitude 36.184065 °N	Longitude -107.757655 °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 10/27/2025 Date Shaw-Marie Ford Printed Name sford@enduringresources.com E-mail Address	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JASON C. EDWARDS Signature and Seal of Professional Surveyor Certificate Number 15269 Date of Survey DECEMBER 20, 2023
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SURFACE LOCATION (SHL)
1201' FNL 2411' FWL
SECTION 27, T23N, R9W

KICK OFF POINT (KOP)
1201' FNL 2411' FWL
SECTION 27, T23N, R9W

LAT 36.201848 °N
LONG -107.776920 °W
DATUM: NAD1983

LAT 36.201848 °N
LONG -107.776920 °W
DATUM: NAD1983

FIRST TAKE POINT (FTP)
1564' FNL 2053' FWL
SECTION 27, T23N, R9W

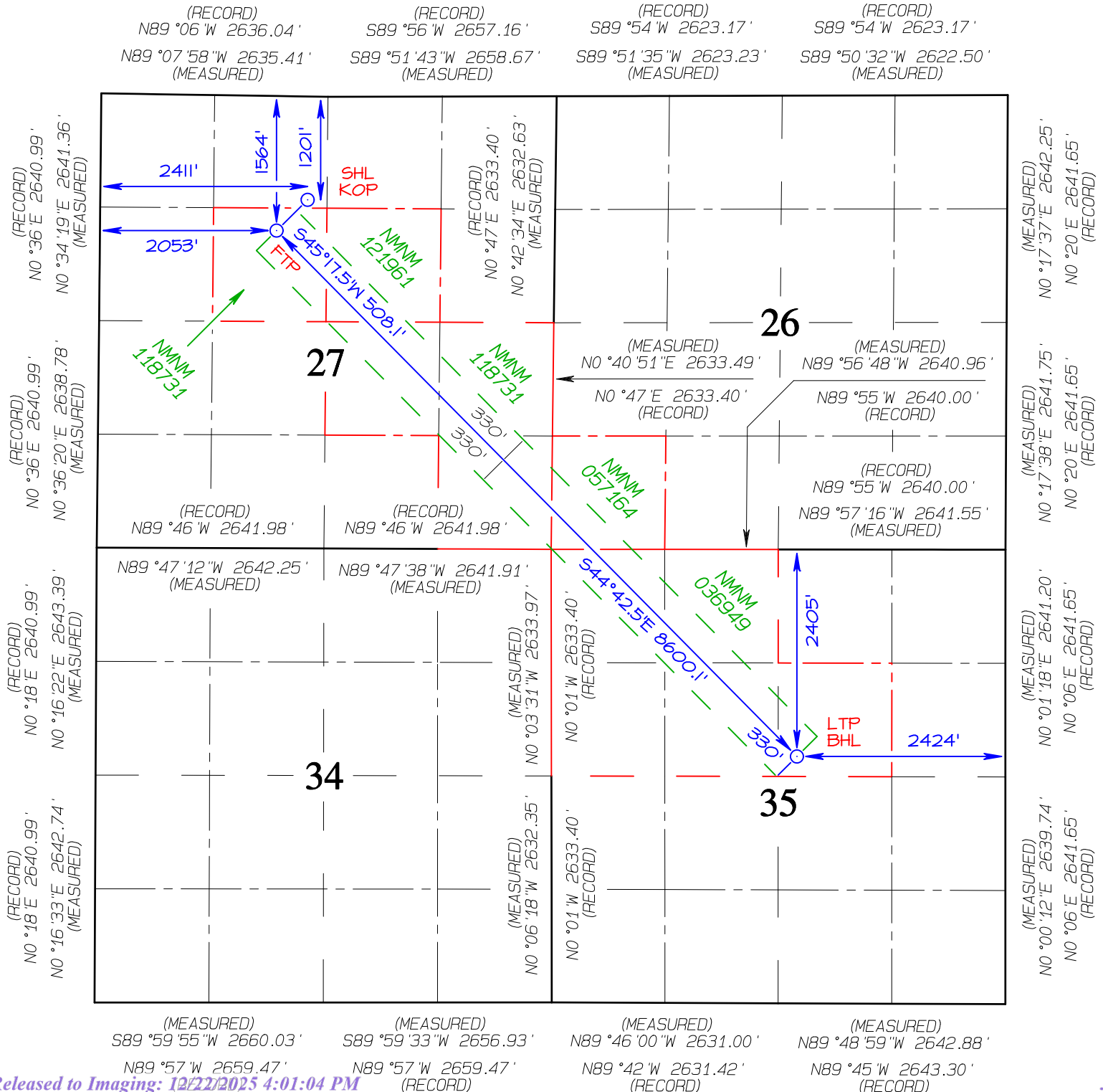
LAST TAKE POINT (LTP)
2405' FNL 2424' FEL
SECTION 35, T23N, R9W

BOTTOM HOLE LOCATION (BHL)
2405' FNL 2424' FEL
SECTION 35, T23N, R9W

LAT 36.200867 °N
LONG -107.778145 °W
DATUM: NAD1983

LAT 36.184065 °N
LONG -107.757655 °W
DATUM: NAD1983

LAT 36.184065 °N
LONG -107.757655 °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:** 10 / 02 / 2024

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

If Other, please describe: _____

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

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

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Greater Lybrook Unit 043H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 044H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 045H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 046H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Greater Lybrook Unit 047H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025

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

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

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

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 10/02/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



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

SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



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

VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

- 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 043H, 044H, 045H, 046H, 047H

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it 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 043H, 044H, 045H, 046H, 047H

BEST MANAGEMENT PRACTICES

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

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

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

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

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

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

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

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



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

DRILLING PLAN: *Drill, complete, and equip single lateral in the Mancos-Silt (Cms) formation*

WELL INFORMATION:

Name: Greater Lybrook Unit 043H

API Number: 30-045-unassigned

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

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

Surface Location: 27-23-9 Sec-Twn-Rng 1,201 ft FNL 2,411 ft FWL

36.201848 ° N latitude 107.77692 ° W longitude (NAD 83)

BH Location: 35-23-9 Sec-Twn-Rng 2,405 ft FNL 2,424 ft FEL

36.184065 ° N latitude 107.757655 ° W longitude (NAD 83)

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

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

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	6,490	174	174	W	normal
	Kirtland	6,375	289	289	W	normal
	Fruitland	6,165	499	499	G, W	sub
	Pictured Cliffs	5,770	894	894	G, W	sub
	Lewis	5,610	1,054	1,054	G, W	normal
	Chacra	5,405	1,259	1,260	G, W	normal
	Cliff House	4,389	2,275	2,338	G, W	sub
	Menefee	4,377	2,287	2,351	G, W	normal
	Point Lookout	3,391	3,273	3,388	G, W	normal
	Mancos	3,227	3,437	3,552	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,898	3,766	3,890	O,G	sub (~0.38)
	MNCS_B	2,802	3,862	4,002	O,G	sub (~0.38)
	MNCS_C	2,707	3,957	4,133	O,G	sub (~0.38)
	MNCS_Cms	2,671	3,993	4,192	O,G	sub (~0.38)
	MNCS_D	6,664	0	0	O,G	sub (~0.38)
	MNCS_E	6,664	0	0	O,G	sub (~0.38)
	MNCS_F	6,664	0	0	O,G	sub (~0.38)
	MNCS_G	6,664	0	0	O,G	sub (~0.38)
	MNCS_H	6,664	0	0	O,G	sub (~0.38)
	MNCS_I	6,664	0	0	O,G	sub (~0.38)

FTP TARGET	2,671	3,993	4,192	O,G	sub (~0.38)
PROJECTED TD	2,572	4,092	12,975	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: 1,760 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 860 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:							Tens. Body	Tens. Conn
		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000

Loading		153	877	110,988	110,988
Min. S.F.		13.21	4.01	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	4,417 ft (MD)	Hole Section Length:	4,067 ft
350 ft (TVD)	to	4,080 ft (TVD)	Casing Required:	4,417 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:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					1,782	1,093	200,148	200,148
Min. S.F.					2.42	4.55	2.07	1.83

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
 Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient
 Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.150	12.06	80%	0	418	898
Tail	Type III	13.5	1.710	8.88	30%	3,452	116	198

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.

4,417 ft (MD)	to	12,975 ft (MD)	Hole Section Length:	8,558 ft
4,080 ft (TVD)	to	4,092 ft (TVD)	Casing Required:	8,708 ft
Estimated KOP:	3,634 ft (MD)	3,519 ft (TVD)		
Estimated Liner Top:	4,267 ft (MD)	4,057 ft (TVD)		
Estimated Landing Point (FTP):	4,192 ft (MD)	3,993 ft (TVD)		
Estimated Lateral Length:	8,783 ft (MD)			

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

Hole Size: 6.125

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

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

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

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

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,021	8,734	229,876	229,876
Min. S.F.					3.74	1.22	1.60	1.67

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

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

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

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

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

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu)
Spacer	IntegraGuard Star	11		31.6		0	20 bbls	
Tail	G:POZ blend	13.3	1.520	7.54	30%	4,267	734	1,115

Displacement 177 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

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

Type G 50%	Pozzolan Fly Ash Extender 50%	BA90 Bonding Agent 3.0 lb/sx	Bentonite Viscosifier 4% BWOB	FL24 Fluid Loss .4% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx
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Notify NMOCD & BLM if cement is not circulated to surface.

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

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 8,683

Est Frac Inform: 36 Frac Stages 139,000 bbls slick water 11,290,000 lbs proppant

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

Flowback: Flow back through production tubing as pressures allow

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

ESTIMATED START DATES:

Drilling: 5/16/2024

Completion: 7/15/2024

Production: 8/29/2024

Prepared by: Greg Olson 1/25/2024

Updated: Greg Olson 4/11/2024

WELL NAME: Greater Lybrook Unit 043H

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

API Number: 30-045-unassigned

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elev.: 6,640 ft ASL (GL) 6,664 ft ASL (KB)

Surface Location: 27-23-9 Sec-Twn- Rng 1,201 ft FNL 2,411 ft FWL

BH Location: 35-23-9 Sec-Twn- Rng 2405 ft FNL 2424 ft FEL

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

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

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	12.250	350	9.625	36	K-55	STC	0	350
Intermediate	8.750	4,417	7	26.0	K-55	LTC	0	4,417
Production	6.125	12,975	4.500	11.6	P-110	BTC	4,267	12,975

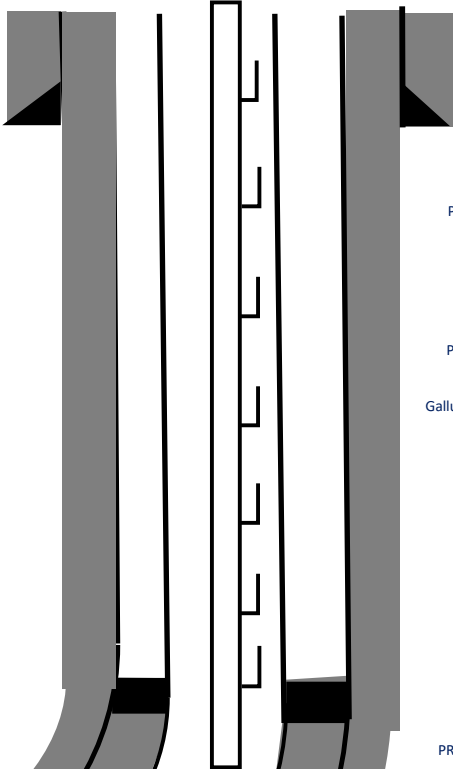
CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.15	12.06	0.1668	80%	0	418
Inter. (Tail)	Type III	13.5	1.71	8.88	0.1503	30%	3,452	116
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.520	7.54	0.0873	30%	4,267	734

COMPLETION / PRODUCTION SUMMARY:

Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	4,417 ft
KOP (MD)	3,634 ft
KOP (TVD)	3,519 ft
Target (TVD)	3,993 ft
Curve BUR	10 °/100 ft
POE (MD)	4,192 ft
TD (MD)	12,975 ft
Lat Len (ft)	8,783 ft

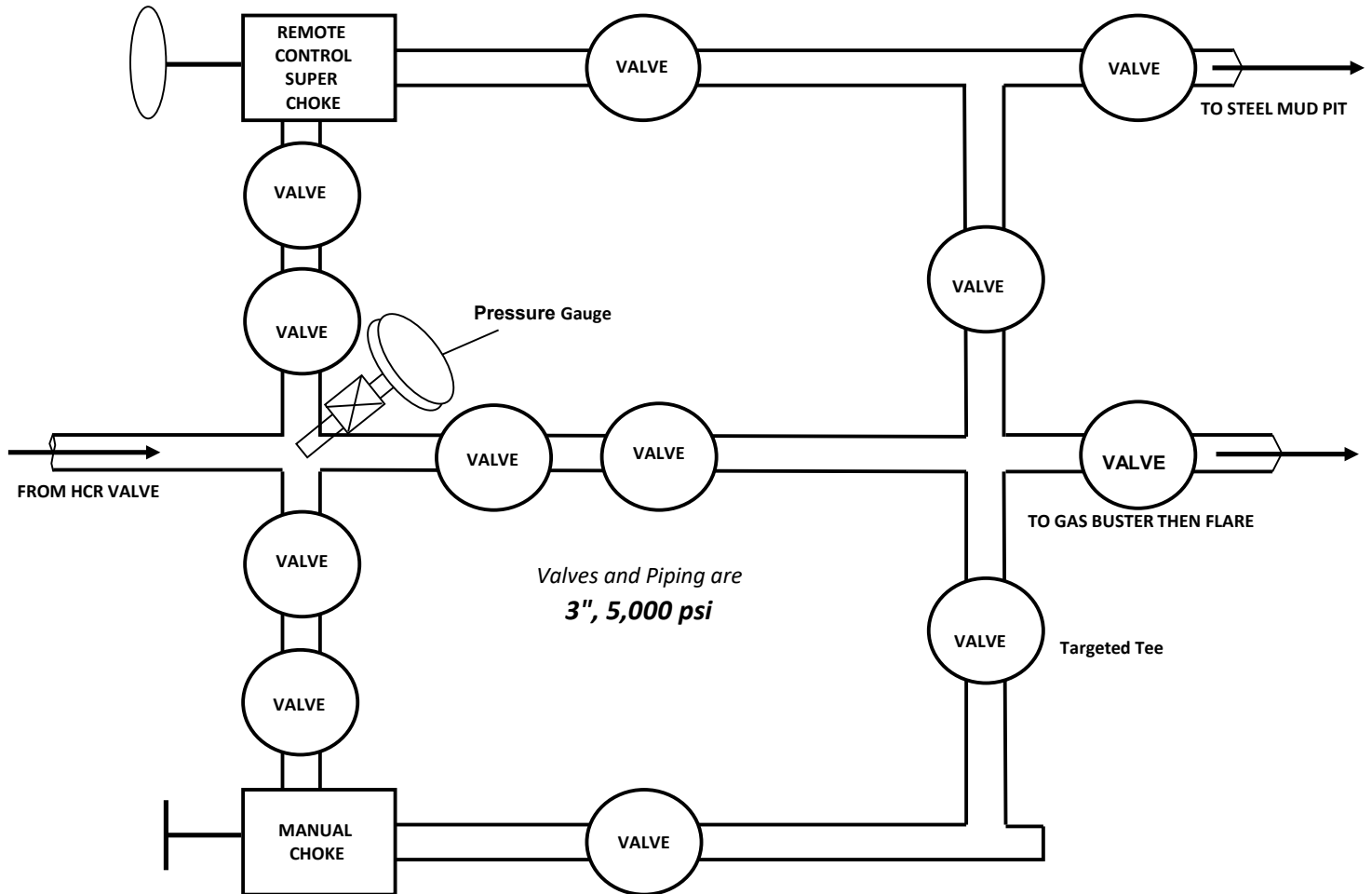


Tops	TVD (ft KB)	MD (ft KB)
Ojo Alamo	174	174
Kirtland	289	289
Fruitland	499	499
Pictured Cliffs	894	894
Lewis	1,054	1,054
Chacra	1,259	1,260
Cliff House	2,275	2,338
Menefee	2,287	2,351
Point Lookout	3,273	3,388
Mancos	3,437	3,552
Gallup (MNCS_A)	3,766	3,890
MNCS_B	3,862	4,002
MNCS_C	3,957	4,133
MNCS_Cms	3,993	4,192
MNCS_D	0	0
MNCS_E	0	0
MNCS_F	0	0
MNCS_G	0	0
MNCS_H	0	0
MNCS_I	0	0
FTP TARGET	3,993	4,192
PROJECTED TD	4,092	12,975

Greater Lybrook Unit 043H

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

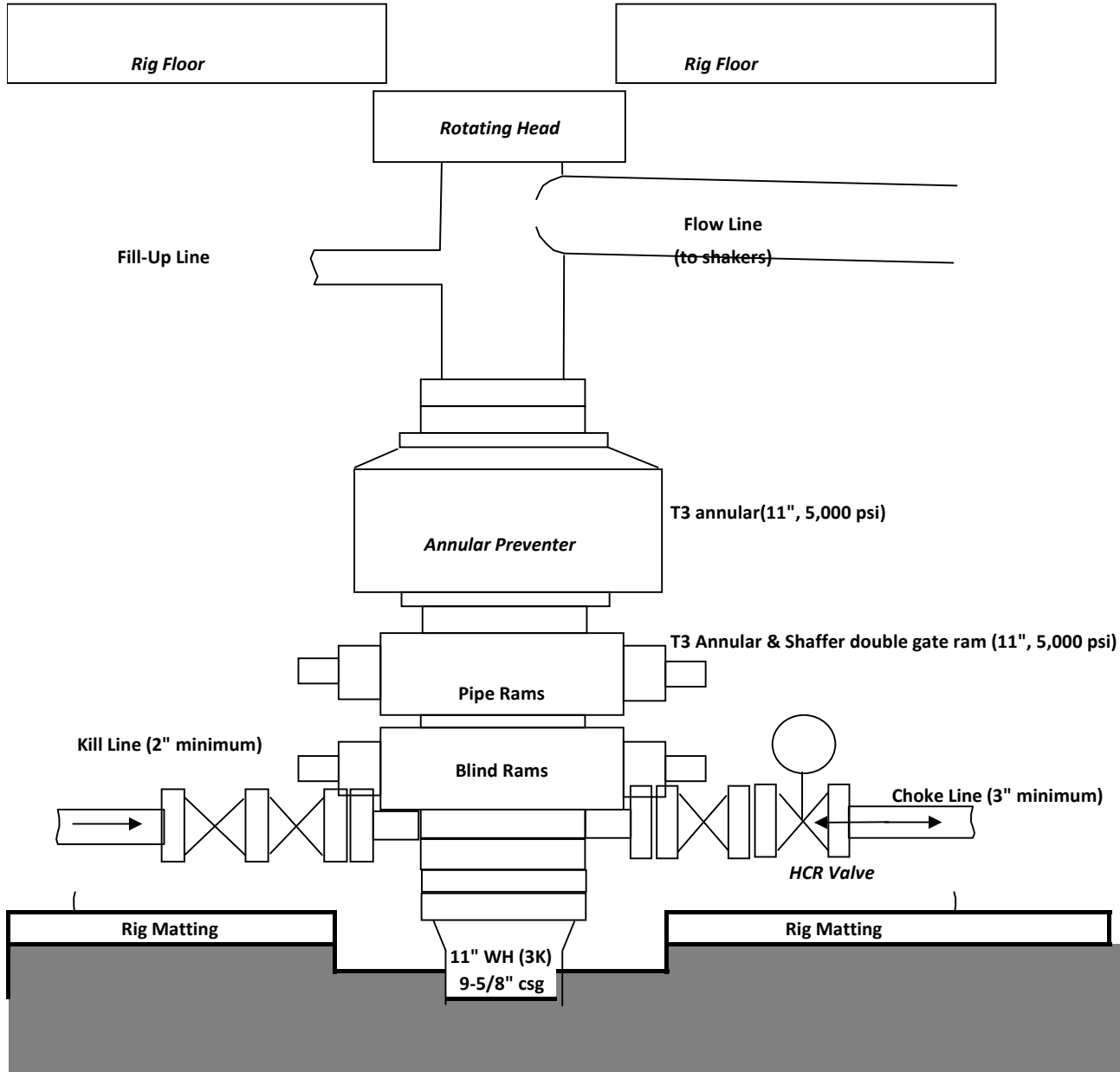
CHOKE MANIFOLD



Greater Lybrook Unit 043H

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

BOPE





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

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

Surface location:
Northing: 1892774.99 Easting: 2739735.39 Latitude: 36.20184800 Longitude: -107.77692000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.434°



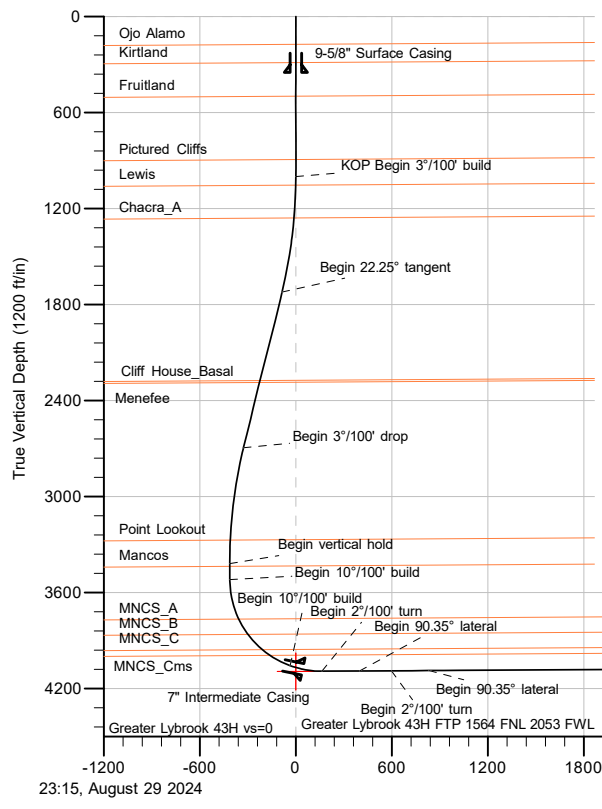
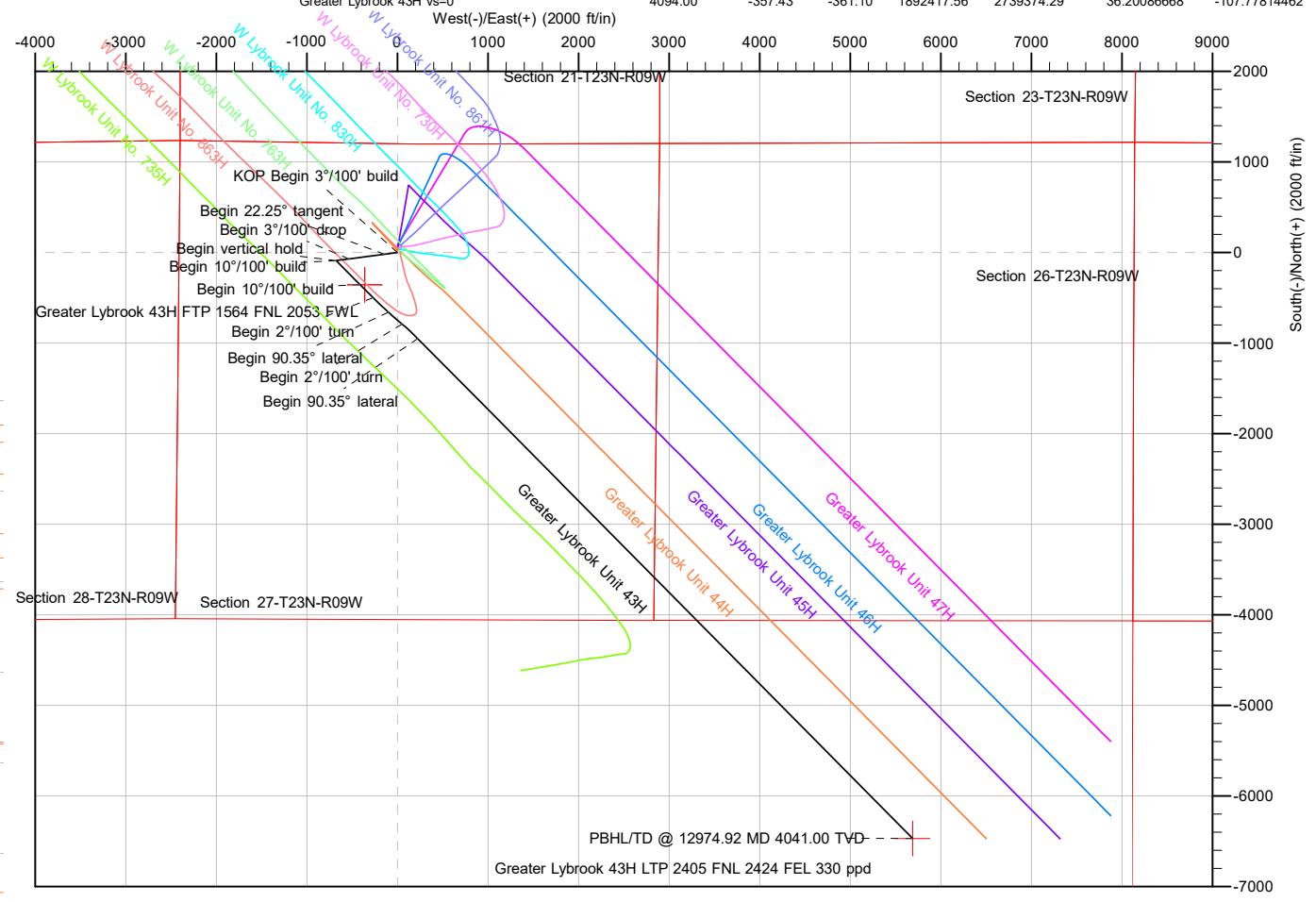
Azimuths to Grid North
True North: -0.03°
Magnetic North: 8.43°
Magnetic Field
Strength: 48963.5nT
Dip Angle: 62.65°
Date: 8/29/2024
Model: IGRF2020



CASING DETAILS		
TVD	MD	Size
350.00	350.00	9-5/8
4080.01	4417.02	7

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	KOP Begin 3°/100' build	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.000	0.00	Begin 22.25° tangent	
3	1741.59	22.25	262.474	1723.09	-18.62	-140.95	3.00	262.474	-85.92	Begin 3°/100' drop	
4	2792.65	22.25	262.474	2695.91	-70.75	-535.47	0.00	0.000	-326.41	Begin vertical hold	
5	3534.24	0.00	0.000	3419.00	-89.37	-676.42	3.00	180.000	-412.33	Begin 10°/100' build	
6	3634.24	0.00	0.000	3519.00	-89.37	-676.42	0.00	0.000	-412.33	Begin 10°/100' build	
7	4334.24	70.00	135.293	4057.40	-357.31	-411.21	10.00	135.293	-35.34	Begin 2°/100' turn	
8	4537.74	90.35	135.293	4091.95	-499.07	-270.89	10.00	0.000	164.13	Begin 90.35° lateral	
9	4772.38	90.35	130.600	4090.51	-658.89	-99.19	2.00	-89.986	398.50	Begin 2°/100' turn	
10	4972.38	90.35	130.600	4089.29	-789.04	52.67	0.00	0.000	597.83	Begin 90.35° lateral	
11	5207.03	90.35	135.293	4087.87	-948.86	224.37	2.00	90.038	832.21	PBHL/TD @ 12974.92 MD 4041.00 TVD	
12	12974.92	90.35	135.293	4041.00	-6469.50	5688.85	0.00	0.000	8599.96		

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Greater Lybrook 43H FTP 1564 FNL 2053 FWL	4094.00	-357.31	-361.21	1892417.68	2739374.18	36.20086700	-107.77814500
Greater Lybrook 43H LTP 2405 FNL 2424 FEL 330 ppd	4041.00	-6469.50	5688.85	1886305.50	2745424.23	36.18406500	-107.75765500
Greater Lybrook 43H vs=0	4094.00	-357.43	-361.10	1892417.56	2739374.29	36.20086668	-107.77814462

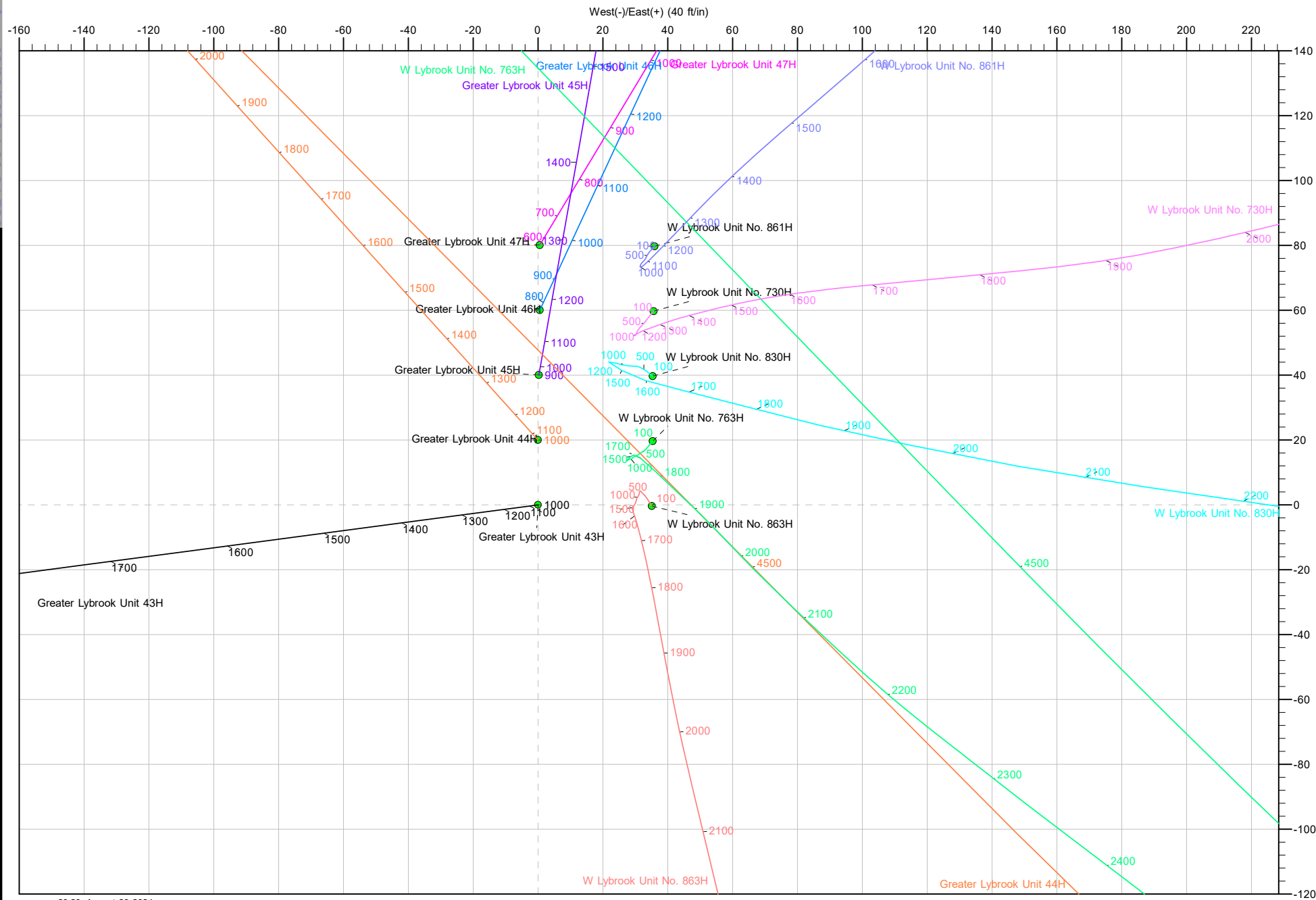


23:15, August 29 2024

Vertical Section at 135.293° (1200 ft/in)



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





Planning Report



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

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

Well	Greater Lybrook Unit 43H, Surf loc: 1201 FNL 2411 FWL Section 27-T23N-R09W		
Well Position	+N/-S	0.00 ft	Northing: 1,892,775.00 usft
	+E/-W	0.00 ft	Easting: 2,739,735.40 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.033 °	Ground Level:	6,640.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/29/2024	8.467	62.646	48,963.54234520

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

Plan Survey Tool Program	Date	8/29/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,974.92 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report



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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,741.59	22.25	262.474	1,723.10	-18.62	-140.95	3.00	3.00	0.00	262.474	
2,792.65	22.25	262.474	2,695.91	-70.75	-535.47	0.00	0.00	0.00	0.000	
3,534.24	0.00	0.000	3,419.00	-89.37	-676.42	3.00	-3.00	0.00	180.000	
3,634.24	0.00	0.000	3,519.00	-89.37	-676.42	0.00	0.00	0.00	0.000	
4,334.24	70.00	135.293	4,057.40	-357.31	-411.21	10.00	10.00	0.00	135.293	
4,537.74	90.35	135.293	4,091.95	-499.07	-270.89	10.00	10.00	0.00	0.000	
4,772.38	90.35	130.600	4,090.51	-658.89	-99.19	2.00	0.00	-2.00	-89.986	
4,972.38	90.35	130.600	4,089.29	-789.04	52.67	0.00	0.00	0.00	0.000	
5,207.03	90.35	135.293	4,087.87	-948.86	224.37	2.00	0.00	2.00	90.038	
12,974.92	90.35	135.293	4,041.00	-6,469.50	5,688.85	0.00	0.00	0.00	0.000	Greater Lybrook 43H



Planning Report



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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
174.00	0.00	0.000	174.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
289.00	0.00	0.000	289.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
499.00	0.00	0.000	499.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
894.00	0.00	0.000	894.00	0.00	0.00	0.00	0.00	0.00	0.00
Pictured Cliffs									
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									
1,054.01	1.62	262.474	1,054.00	-0.10	-0.76	-0.46	3.00	3.00	0.00
Lewis									
1,100.00	3.00	262.474	1,099.95	-0.34	-2.59	-1.58	3.00	3.00	0.00
1,200.00	6.00	262.474	1,199.63	-1.37	-10.37	-6.32	3.00	3.00	0.00
1,259.87	7.80	262.474	1,259.07	-2.31	-17.50	-10.67	3.00	3.00	0.00
Chacra_A									
1,300.00	9.00	262.474	1,298.77	-3.08	-23.31	-14.21	3.00	3.00	0.00
1,400.00	12.00	262.474	1,397.08	-5.47	-41.38	-25.22	3.00	3.00	0.00
1,500.00	15.00	262.474	1,494.31	-8.52	-64.52	-39.33	3.00	3.00	0.00
1,600.00	18.00	262.474	1,590.18	-12.24	-92.67	-56.49	3.00	3.00	0.00
1,700.00	21.00	262.474	1,684.43	-16.62	-125.76	-76.66	3.00	3.00	0.00
1,741.59	22.25	262.474	1,723.10	-18.62	-140.95	-85.92	3.00	3.00	0.00
Begin 22.25° tangent									
1,800.00	22.25	262.474	1,777.16	-21.52	-162.88	-99.29	0.00	0.00	0.00
1,900.00	22.25	262.474	1,869.71	-26.48	-200.41	-122.17	0.00	0.00	0.00
2,000.00	22.25	262.474	1,962.27	-31.44	-237.95	-145.05	0.00	0.00	0.00
2,100.00	22.25	262.474	2,054.82	-36.40	-275.48	-167.93	0.00	0.00	0.00
2,200.00	22.25	262.474	2,147.38	-41.36	-313.02	-190.81	0.00	0.00	0.00
2,300.00	22.25	262.474	2,239.93	-46.32	-350.55	-213.69	0.00	0.00	0.00
2,338.27	22.25	262.474	2,275.36	-48.21	-364.92	-222.45	0.00	0.00	0.00
Cliff House_Basal									
2,351.26	22.25	262.474	2,287.38	-48.86	-369.79	-225.42	0.00	0.00	0.00
Menefee									
2,400.00	22.25	262.474	2,332.49	-51.27	-388.09	-236.57	0.00	0.00	0.00
2,500.00	22.25	262.474	2,425.05	-56.23	-425.62	-259.45	0.00	0.00	0.00
2,600.00	22.25	262.474	2,517.60	-61.19	-463.16	-282.33	0.00	0.00	0.00
2,700.00	22.25	262.474	2,610.16	-66.15	-500.69	-305.21	0.00	0.00	0.00
2,792.65	22.25	262.474	2,695.91	-70.75	-535.47	-326.41	0.00	0.00	0.00
Begin 3°/100' drop									
2,800.00	22.03	262.474	2,702.72	-71.11	-538.21	-328.08	3.00	-3.00	0.00
2,900.00	19.03	262.474	2,796.36	-75.70	-572.97	-349.27	3.00	-3.00	0.00



Planning Report



Database:	DT_Jul1724_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 43H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Project:	San Juan County, New Mexico NAD83 NM 4W	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	North Reference:	Grid
Well:	Greater Lybrook Unit 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,000.00	16.03	262.474	2,891.70	-79.65	-602.83	-367.47	3.00	-3.00	0.00	
3,100.00	13.03	262.474	2,988.50	-82.93	-627.69	-382.63	3.00	-3.00	0.00	
3,200.00	10.03	262.474	3,086.47	-85.55	-647.50	-394.70	3.00	-3.00	0.00	
3,300.00	7.03	262.474	3,185.35	-87.49	-662.20	-403.66	3.00	-3.00	0.00	
3,387.59	4.40	262.474	3,272.50	-88.63	-670.84	-408.93	3.00	-3.00	0.00	
Point Lookout										
3,400.00	4.03	262.474	3,284.87	-88.75	-671.75	-409.48	3.00	-3.00	0.00	
3,500.00	1.03	262.474	3,384.77	-89.33	-676.12	-412.15	3.00	-3.00	0.00	
3,534.24	0.00	0.000	3,419.00	-89.37	-676.42	-412.33	3.00	-3.00	0.00	
Begin vertical hold										
3,551.75	0.00	0.000	3,436.52	-89.37	-676.42	-412.33	0.00	0.00	0.00	
Mancos										
3,600.00	0.00	0.000	3,484.76	-89.37	-676.42	-412.33	0.00	0.00	0.00	
3,634.24	0.00	0.000	3,519.00	-89.37	-676.42	-412.33	0.00	0.00	0.00	
Begin 10°/100' build										
3,650.00	1.58	135.293	3,534.76	-89.52	-676.27	-412.12	10.00	10.00	0.00	
3,700.00	6.58	135.293	3,584.62	-92.05	-673.77	-408.56	10.00	10.00	0.00	
3,750.00	11.58	135.293	3,633.98	-97.65	-668.22	-400.68	10.00	10.00	0.00	
3,800.00	16.58	135.293	3,682.46	-106.29	-659.67	-388.52	10.00	10.00	0.00	
3,850.00	21.58	135.293	3,729.70	-117.90	-648.18	-372.18	10.00	10.00	0.00	
3,889.80	25.56	135.293	3,766.18	-129.21	-636.98	-356.27	10.00	10.00	0.00	
MNCS_A										
3,900.00	26.58	135.293	3,775.34	-132.40	-633.83	-351.79	10.00	10.00	0.00	
3,950.00	31.58	135.293	3,819.02	-149.66	-616.74	-327.50	10.00	10.00	0.00	
4,000.00	36.58	135.293	3,860.42	-169.56	-597.04	-299.50	10.00	10.00	0.00	
4,001.75	36.75	135.293	3,861.82	-170.31	-596.31	-298.45	10.00	10.00	0.00	
MNCS_B										
4,050.00	41.58	135.293	3,899.23	-191.96	-574.88	-267.99	10.00	10.00	0.00	
4,100.00	46.58	135.293	3,935.13	-216.67	-550.42	-233.22	10.00	10.00	0.00	
4,133.24	49.90	135.293	3,957.27	-234.29	-532.97	-208.42	10.00	10.00	0.00	
MNCS_C										
4,150.00	51.58	135.293	3,967.88	-243.51	-523.85	-195.45	10.00	10.00	0.00	
4,192.42	55.82	135.293	3,992.99	-267.80	-499.80	-161.27	10.00	10.00	0.00	
MNCS_Cms										
4,200.00	56.58	135.293	3,997.20	-272.28	-495.37	-154.97	10.00	10.00	0.00	
4,250.00	61.58	135.293	4,022.89	-302.75	-465.21	-112.09	10.00	10.00	0.00	
4,300.00	66.58	135.293	4,044.74	-334.70	-433.58	-67.14	10.00	10.00	0.00	
4,334.24	70.00	135.293	4,057.40	-357.31	-411.21	-35.34	10.00	10.00	0.00	
Begin 10°/100' build										
4,350.00	71.58	135.293	4,062.59	-367.88	-400.74	-20.45	10.00	10.00	0.00	
4,400.00	76.58	135.293	4,076.30	-402.05	-366.93	27.61	10.00	10.00	0.00	
4,417.02	78.28	135.293	4,080.01	-413.85	-355.24	44.23	10.00	10.00	0.00	
7" Intermediate Casing										
4,450.00	81.58	135.293	4,085.78	-436.93	-332.40	76.69	10.00	10.00	0.00	
4,500.00	86.58	135.293	4,090.94	-472.26	-297.42	126.41	10.00	10.00	0.00	
4,537.74	90.35	135.293	4,091.95	-499.07	-270.89	164.13	10.00	10.00	0.00	
Begin 2°/100' turn										
4,600.00	90.35	134.048	4,091.57	-542.84	-226.61	226.38	2.00	0.00	-2.00	
4,700.00	90.35	132.048	4,090.96	-611.09	-153.54	326.30	2.00	0.00	-2.00	
4,772.38	90.35	130.600	4,090.51	-658.89	-99.19	398.50	2.00	0.00	-2.00	
Begin 90.35° lateral										
4,800.00	90.35	130.600	4,090.34	-676.86	-78.22	426.03	0.00	0.00	0.00	
4,900.00	90.35	130.600	4,089.73	-741.94	-2.29	525.69	0.00	0.00	0.00	



Planning Report



Database:	DT_Jul1724_v17	Local Co-ordinate Reference:	Well Greater Lybrook Unit 43H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Project:	San Juan County, New Mexico NAD83 NM 4W	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	North Reference:	Grid
Well:	Greater Lybrook Unit 43H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,972.38	90.35	130.600	4,089.29	-789.04	52.67	597.83	0.00	0.00	0.00
Begin 2°/100' turn									
5,000.00	90.35	131.152	4,089.12	-807.11	73.55	625.37	2.00	0.00	2.00
5,100.00	90.35	133.152	4,088.51	-874.22	147.68	725.21	2.00	0.00	2.00
5,207.03	90.35	135.293	4,087.87	-948.86	224.37	832.21	2.00	0.00	2.00
Begin 90.35° lateral									
5,300.00	90.35	135.293	4,087.31	-1,014.93	289.78	925.18	0.00	0.00	0.00
5,400.00	90.35	135.293	4,086.70	-1,086.00	360.12	1,025.18	0.00	0.00	0.00
5,500.00	90.35	135.293	4,086.10	-1,157.07	430.47	1,125.18	0.00	0.00	0.00
5,600.00	90.35	135.293	4,085.50	-1,228.14	500.82	1,225.17	0.00	0.00	0.00
5,700.00	90.35	135.293	4,084.89	-1,299.21	571.16	1,325.17	0.00	0.00	0.00
5,800.00	90.35	135.293	4,084.29	-1,370.28	641.51	1,425.17	0.00	0.00	0.00
5,900.00	90.35	135.293	4,083.69	-1,441.35	711.86	1,525.17	0.00	0.00	0.00
6,000.00	90.35	135.293	4,083.08	-1,512.42	782.21	1,625.17	0.00	0.00	0.00
6,100.00	90.35	135.293	4,082.48	-1,583.49	852.55	1,725.17	0.00	0.00	0.00
6,200.00	90.35	135.293	4,081.88	-1,654.56	922.90	1,825.16	0.00	0.00	0.00
6,300.00	90.35	135.293	4,081.27	-1,725.63	993.25	1,925.16	0.00	0.00	0.00
6,400.00	90.35	135.293	4,080.67	-1,796.70	1,063.59	2,025.16	0.00	0.00	0.00
6,500.00	90.35	135.293	4,080.07	-1,867.77	1,133.94	2,125.16	0.00	0.00	0.00
6,600.00	90.35	135.293	4,079.46	-1,938.84	1,204.29	2,225.16	0.00	0.00	0.00
6,700.00	90.35	135.293	4,078.86	-2,009.91	1,274.63	2,325.15	0.00	0.00	0.00
6,800.00	90.35	135.293	4,078.26	-2,080.98	1,344.98	2,425.15	0.00	0.00	0.00
6,900.00	90.35	135.293	4,077.65	-2,152.05	1,415.33	2,525.15	0.00	0.00	0.00
7,000.00	90.35	135.293	4,077.05	-2,223.12	1,485.67	2,625.15	0.00	0.00	0.00
7,100.00	90.35	135.293	4,076.45	-2,294.19	1,556.02	2,725.15	0.00	0.00	0.00
7,200.00	90.35	135.293	4,075.84	-2,365.26	1,626.37	2,825.15	0.00	0.00	0.00
7,300.00	90.35	135.293	4,075.24	-2,436.33	1,696.72	2,925.14	0.00	0.00	0.00
7,400.00	90.35	135.293	4,074.64	-2,507.40	1,767.06	3,025.14	0.00	0.00	0.00
7,500.00	90.35	135.293	4,074.03	-2,578.47	1,837.41	3,125.14	0.00	0.00	0.00
7,600.00	90.35	135.293	4,073.43	-2,649.54	1,907.76	3,225.14	0.00	0.00	0.00
7,700.00	90.35	135.293	4,072.83	-2,720.61	1,978.10	3,325.14	0.00	0.00	0.00
7,800.00	90.35	135.293	4,072.22	-2,791.68	2,048.45	3,425.13	0.00	0.00	0.00
7,900.00	90.35	135.293	4,071.62	-2,862.75	2,118.80	3,525.13	0.00	0.00	0.00
8,000.00	90.35	135.293	4,071.02	-2,933.82	2,189.14	3,625.13	0.00	0.00	0.00
8,100.00	90.35	135.293	4,070.41	-3,004.89	2,259.49	3,725.13	0.00	0.00	0.00
8,200.00	90.35	135.293	4,069.81	-3,075.96	2,329.84	3,825.13	0.00	0.00	0.00
8,300.00	90.35	135.293	4,069.21	-3,147.03	2,400.18	3,925.13	0.00	0.00	0.00
8,400.00	90.35	135.293	4,068.60	-3,218.10	2,470.53	4,025.12	0.00	0.00	0.00
8,500.00	90.35	135.293	4,068.00	-3,289.17	2,540.88	4,125.12	0.00	0.00	0.00
8,600.00	90.35	135.293	4,067.40	-3,360.24	2,611.23	4,225.12	0.00	0.00	0.00
8,700.00	90.35	135.293	4,066.79	-3,431.31	2,681.57	4,325.12	0.00	0.00	0.00
8,800.00	90.35	135.293	4,066.19	-3,502.38	2,751.92	4,425.12	0.00	0.00	0.00
8,900.00	90.35	135.293	4,065.59	-3,573.45	2,822.27	4,525.11	0.00	0.00	0.00
9,000.00	90.35	135.293	4,064.98	-3,644.52	2,892.61	4,625.11	0.00	0.00	0.00
9,100.00	90.35	135.293	4,064.38	-3,715.59	2,962.96	4,725.11	0.00	0.00	0.00
9,200.00	90.35	135.293	4,063.78	-3,786.66	3,033.31	4,825.11	0.00	0.00	0.00
9,300.00	90.35	135.293	4,063.17	-3,857.73	3,103.65	4,925.11	0.00	0.00	0.00
9,400.00	90.35	135.293	4,062.57	-3,928.80	3,174.00	5,025.11	0.00	0.00	0.00
9,500.00	90.35	135.293	4,061.97	-3,999.87	3,244.35	5,125.10	0.00	0.00	0.00
9,600.00	90.35	135.293	4,061.36	-4,070.94	3,314.69	5,225.10	0.00	0.00	0.00
9,700.00	90.35	135.293	4,060.76	-4,142.01	3,385.04	5,325.10	0.00	0.00	0.00
9,800.00	90.35	135.293	4,060.16	-4,213.08	3,455.39	5,425.10	0.00	0.00	0.00
9,900.00	90.35	135.293	4,059.55	-4,284.15	3,525.74	5,525.10	0.00	0.00	0.00
10,000.00	90.35	135.293	4,058.95	-4,355.22	3,596.08	5,625.09	0.00	0.00	0.00



Planning Report



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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,100.00	90.35	135.293	4,058.35	-4,426.29	3,666.43	5,725.09	0.00	0.00	0.00
10,200.00	90.35	135.293	4,057.74	-4,497.36	3,736.78	5,825.09	0.00	0.00	0.00
10,300.00	90.35	135.293	4,057.14	-4,568.43	3,807.12	5,925.09	0.00	0.00	0.00
10,400.00	90.35	135.293	4,056.54	-4,639.50	3,877.47	6,025.09	0.00	0.00	0.00
10,500.00	90.35	135.293	4,055.93	-4,710.57	3,947.82	6,125.09	0.00	0.00	0.00
10,600.00	90.35	135.293	4,055.33	-4,781.64	4,018.16	6,225.08	0.00	0.00	0.00
10,700.00	90.35	135.293	4,054.73	-4,852.71	4,088.51	6,325.08	0.00	0.00	0.00
10,800.00	90.35	135.293	4,054.12	-4,923.78	4,158.86	6,425.08	0.00	0.00	0.00
10,900.00	90.35	135.293	4,053.52	-4,994.85	4,229.20	6,525.08	0.00	0.00	0.00
11,000.00	90.35	135.293	4,052.92	-5,065.92	4,299.55	6,625.08	0.00	0.00	0.00
11,100.00	90.35	135.293	4,052.31	-5,136.99	4,369.90	6,725.07	0.00	0.00	0.00
11,200.00	90.35	135.293	4,051.71	-5,208.06	4,440.25	6,825.07	0.00	0.00	0.00
11,300.00	90.35	135.293	4,051.11	-5,279.13	4,510.59	6,925.07	0.00	0.00	0.00
11,400.00	90.35	135.293	4,050.50	-5,350.20	4,580.94	7,025.07	0.00	0.00	0.00
11,500.00	90.35	135.293	4,049.90	-5,421.27	4,651.29	7,125.07	0.00	0.00	0.00
11,600.00	90.35	135.293	4,049.30	-5,492.34	4,721.63	7,225.07	0.00	0.00	0.00
11,700.00	90.35	135.293	4,048.69	-5,563.41	4,791.98	7,325.06	0.00	0.00	0.00
11,800.00	90.35	135.293	4,048.09	-5,634.48	4,862.33	7,425.06	0.00	0.00	0.00
11,900.00	90.35	135.293	4,047.49	-5,705.55	4,932.67	7,525.06	0.00	0.00	0.00
12,000.00	90.35	135.293	4,046.88	-5,776.62	5,003.02	7,625.06	0.00	0.00	0.00
12,100.00	90.35	135.293	4,046.28	-5,847.69	5,073.37	7,725.06	0.00	0.00	0.00
12,200.00	90.35	135.293	4,045.68	-5,918.76	5,143.71	7,825.05	0.00	0.00	0.00
12,300.00	90.35	135.293	4,045.07	-5,989.83	5,214.06	7,925.05	0.00	0.00	0.00
12,400.00	90.35	135.293	4,044.47	-6,060.90	5,284.41	8,025.05	0.00	0.00	0.00
12,500.00	90.35	135.293	4,043.87	-6,131.97	5,354.76	8,125.05	0.00	0.00	0.00
12,600.00	90.35	135.293	4,043.26	-6,203.04	5,425.10	8,225.05	0.00	0.00	0.00
12,700.00	90.35	135.293	4,042.66	-6,274.11	5,495.45	8,325.05	0.00	0.00	0.00
12,800.00	90.35	135.293	4,042.06	-6,345.18	5,565.80	8,425.04	0.00	0.00	0.00
12,900.00	90.35	135.293	4,041.45	-6,416.25	5,636.14	8,525.04	0.00	0.00	0.00
12,974.92	90.35	135.293	4,041.00	-6,469.50	5,688.85	8,599.96	0.00	0.00	0.00
PBHL/TD @ 12974.92 MD 4041.00 TVD									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4	
4,417.02	4,080.01	7" Intermediate Casing	7	8-3/4	



Planning Report



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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
174.00	174.00	Ojo Alamo		-0.350	135.293	
289.00	289.00	Kirtland		-0.350	135.293	
499.00	499.00	Fruitland		-0.350	135.293	
894.00	894.00	Pictured Cliffs		-0.350	135.293	
1,054.01	1,054.00	Lewis		-0.350	135.293	
1,259.87	1,259.07	Chacra_A		-0.350	135.293	
2,338.27	2,275.36	Cliff House_Basal		-0.350	135.293	
2,351.26	2,287.38	Menefee		-0.350	135.293	
3,387.59	3,272.50	Point Lookout		-0.350	135.293	
3,551.75	3,436.52	Mancos		-0.350	135.293	
3,889.80	3,766.18	MNCS_A		-0.350	135.293	
4,001.75	3,861.82	MNCS_B		-0.350	135.293	
4,133.24	3,957.27	MNCS_C		-0.350	135.293	
4,192.42	3,992.99	MNCS_Cms		-0.350	135.293	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,741.59	1,723.10	-18.62	-140.95	Begin 22.25° tangent	
2,792.65	2,695.91	-70.75	-535.47	Begin 3°/100' drop	
3,534.24	3,419.00	-89.37	-676.42	Begin vertical hold	
3,634.24	3,519.00	-89.37	-676.42	Begin 10°/100' build	
4,334.24	4,057.40	-357.31	-411.21	Begin 10°/100' build	
4,537.74	4,091.95	-499.07	-270.89	Begin 2°/100' turn	
4,772.38	4,090.51	-658.89	-99.19	Begin 90.35° lateral	
4,972.38	4,089.29	-789.04	52.67	Begin 2°/100' turn	
5,207.03	4,087.87	-948.86	224.37	Begin 90.35° lateral	
12,974.92	4,041.00	-6,469.50	5,688.85	PBHL/TD @ 12974.92 MD 4041.00 TVD	



Planning Report - Geographic



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

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

Well	Greater Lybrook Unit 43H, Surf loc: 1201 FNL 2411 FWL Section 27-T23N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,892,775.00 usft	Latitude:	36.20184800
	+E/-W	0.00 ft	Easting:	2,739,735.40 usft	Longitude:	-107.77692000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,640.00 ft
Grid Convergence:		0.033 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/29/2024	8.467	62.646	48,963.54234520

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

Plan Survey Tool Program	Date	8/29/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	12,974.92 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic



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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,741.59	22.25	262.474	1,723.10	-18.62	-140.95	3.00	3.00	0.00	262.474	
2,792.65	22.25	262.474	2,695.91	-70.75	-535.47	0.00	0.00	0.00	0.000	
3,534.24	0.00	0.000	3,419.00	-89.37	-676.42	3.00	-3.00	0.00	180.000	
3,634.24	0.00	0.000	3,519.00	-89.37	-676.42	0.00	0.00	0.00	0.000	
4,334.24	70.00	135.293	4,057.40	-357.31	-411.21	10.00	10.00	0.00	135.293	
4,537.74	90.35	135.293	4,091.95	-499.07	-270.89	10.00	10.00	0.00	0.000	
4,772.38	90.35	130.600	4,090.51	-658.89	-99.19	2.00	0.00	-2.00	-89.986	
4,972.38	90.35	130.600	4,089.29	-789.04	52.67	0.00	0.00	0.00	0.000	
5,207.03	90.35	135.293	4,087.87	-948.86	224.37	2.00	0.00	2.00	90.038	
12,974.92	90.35	135.293	4,041.00	-6,469.50	5,688.85	0.00	0.00	0.00	0.000	Greater Lybrook 43H



Planning Report - Geographic



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

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
100.00	0.00	0.000	100.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
174.00	0.00	0.000	174.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
Ojo Alamo										
200.00	0.00	0.000	200.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
289.00	0.00	0.000	289.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
Kirtland										
300.00	0.00	0.000	300.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
350.00	0.00	0.000	350.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
9-5/8" Surface Casing										
400.00	0.00	0.000	400.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
499.00	0.00	0.000	499.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
Fruitland										
500.00	0.00	0.000	500.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
600.00	0.00	0.000	600.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
700.00	0.00	0.000	700.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
800.00	0.00	0.000	800.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
894.00	0.00	0.000	894.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
Pictured Cliffs										
900.00	0.00	0.000	900.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,892,775.00	2,739,735.40	36.20184800	-107.77692000	
KOP Begin 3°/100' build										
1,054.01	1.62	262.474	1,054.00	-0.10	-0.76	1,892,774.90	2,739,734.64	36.20184773	-107.77692256	
Lewis										
1,100.00	3.00	262.474	1,099.95	-0.34	-2.59	1,892,774.65	2,739,732.80	36.20184706	-107.77692879	
1,200.00	6.00	262.474	1,199.63	-1.37	-10.37	1,892,773.63	2,739,725.02	36.20184425	-107.77695515	
1,259.87	7.80	262.474	1,259.07	-2.31	-17.50	1,892,772.68	2,739,717.90	36.20184168	-107.77697932	
Chacra_A										
1,300.00	9.00	262.474	1,298.77	-3.08	-23.31	1,892,771.92	2,739,712.08	36.20183958	-107.77699901	
1,400.00	12.00	262.474	1,397.08	-5.47	-41.38	1,892,769.53	2,739,694.02	36.20183305	-107.77706025	
1,500.00	15.00	262.474	1,494.31	-8.52	-64.52	1,892,766.47	2,739,670.88	36.20182469	-107.77713869	
1,600.00	18.00	262.474	1,590.18	-12.24	-92.67	1,892,762.75	2,739,642.73	36.20181451	-107.77723412	
1,700.00	21.00	262.474	1,684.43	-16.62	-125.76	1,892,758.38	2,739,609.64	36.20180256	-107.77734628	
1,741.59	22.25	262.474	1,723.10	-18.62	-140.95	1,892,756.37	2,739,594.44	36.20179706	-107.77739779	
Begin 22.25° tangent										
1,800.00	22.25	262.474	1,777.16	-21.52	-162.88	1,892,753.48	2,739,572.52	36.20178914	-107.77747210	
1,900.00	22.25	262.474	1,869.71	-26.48	-200.41	1,892,748.52	2,739,534.98	36.20177558	-107.77759934	
2,000.00	22.25	262.474	1,962.27	-31.44	-237.95	1,892,743.56	2,739,497.45	36.20176201	-107.77772657	
2,100.00	22.25	262.474	2,054.82	-36.40	-275.48	1,892,738.60	2,739,459.91	36.20174845	-107.77785380	
2,200.00	22.25	262.474	2,147.38	-41.36	-313.02	1,892,733.64	2,739,422.38	36.20173489	-107.77798103	
2,300.00	22.25	262.474	2,239.93	-46.32	-350.55	1,892,728.68	2,739,384.84	36.20172132	-107.77810827	
2,338.27	22.25	262.474	2,275.36	-48.21	-364.92	1,892,726.78	2,739,370.48	36.20171613	-107.77815696	
Cliff House_Basal										
2,351.26	22.25	262.474	2,287.38	-48.86	-369.79	1,892,726.14	2,739,365.60	36.20171437	-107.77817348	
Menefee										
2,400.00	22.25	262.474	2,332.49	-51.27	-388.09	1,892,723.72	2,739,347.31	36.20170776	-107.77823550	
2,500.00	22.25	262.474	2,425.05	-56.23	-425.62	1,892,718.76	2,739,309.77	36.20169419	-107.77836273	
2,600.00	22.25	262.474	2,517.60	-61.19	-463.16	1,892,713.80	2,739,272.24	36.20168063	-107.77848996	
2,700.00	22.25	262.474	2,610.16	-66.15	-500.69	1,892,708.84	2,739,234.70	36.20166706	-107.77861720	
2,792.65	22.25	262.474	2,695.91	-70.75	-535.47	1,892,704.25	2,739,199.93	36.20165449	-107.77873507	
Begin 3°/100' drop										
2,800.00	22.03	262.474	2,702.72	-71.11	-538.21	1,892,703.89	2,739,197.18	36.20165350	-107.77874438	
2,900.00	19.03	262.474	2,796.36	-75.70	-572.97	1,892,699.29	2,739,162.42	36.20164094	-107.77886221	



Planning Report - Geographic



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

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,000.00	16.03	262.474	2,891.70	-79.65	-602.83	1,892,695.35	2,739,132.57	36.20163015	-107.77896340	
3,100.00	13.03	262.474	2,988.50	-82.93	-627.69	1,892,692.06	2,739,107.71	36.20162116	-107.77904768	
3,200.00	10.03	262.474	3,086.47	-85.55	-647.50	1,892,689.45	2,739,087.90	36.20161400	-107.77911483	
3,300.00	7.03	262.474	3,185.35	-87.49	-662.20	1,892,687.50	2,739,073.20	36.20160869	-107.77916465	
3,387.59	4.40	262.474	3,272.50	-88.63	-670.84	1,892,686.36	2,739,064.56	36.20160557	-107.77919395	
Point Lookout										
3,400.00	4.03	262.474	3,284.87	-88.75	-671.75	1,892,686.24	2,739,063.65	36.20160524	-107.77919701	
3,500.00	1.03	262.474	3,384.77	-89.33	-676.12	1,892,685.67	2,739,059.28	36.20160366	-107.77921183	
3,534.24	0.00	0.000	3,419.00	-89.37	-676.42	1,892,685.63	2,739,058.98	36.20160355	-107.77921286	
Begin vertical hold										
3,551.75	0.00	0.000	3,436.52	-89.37	-676.42	1,892,685.63	2,739,058.98	36.20160355	-107.77921286	
Mancos										
3,600.00	0.00	0.000	3,484.76	-89.37	-676.42	1,892,685.63	2,739,058.98	36.20160355	-107.77921286	
3,634.24	0.00	0.000	3,519.00	-89.37	-676.42	1,892,685.63	2,739,058.98	36.20160355	-107.77921286	
Begin 10°/100' build										
3,650.00	1.58	135.293	3,534.76	-89.52	-676.27	1,892,685.47	2,739,059.13	36.20160313	-107.77921234	
3,700.00	6.58	135.293	3,584.62	-92.05	-673.77	1,892,682.95	2,739,061.63	36.20159619	-107.77920388	
3,750.00	11.58	135.293	3,633.98	-97.65	-668.22	1,892,677.34	2,739,067.18	36.20158078	-107.77918509	
3,800.00	16.58	135.293	3,682.46	-106.29	-659.67	1,892,668.70	2,739,075.73	36.20155703	-107.77915611	
3,850.00	21.58	135.293	3,729.70	-117.90	-648.18	1,892,657.09	2,739,087.22	36.20152512	-107.77911718	
3,889.80	25.56	135.293	3,766.18	-129.21	-636.98	1,892,645.78	2,739,098.41	36.20149404	-107.77907927	
MNCS_A										
3,900.00	26.58	135.293	3,775.34	-132.40	-633.83	1,892,642.60	2,739,101.56	36.20148529	-107.77906859	
3,950.00	31.58	135.293	3,819.02	-149.66	-616.74	1,892,625.34	2,739,118.65	36.20143784	-107.77901070	
4,000.00	36.58	135.293	3,860.42	-169.56	-597.04	1,892,605.43	2,739,138.35	36.20138313	-107.77894396	
4,001.75	36.75	135.293	3,861.82	-170.31	-596.31	1,892,604.69	2,739,139.09	36.20138109	-107.77894148	
MNCS_B										
4,050.00	41.58	135.293	3,899.23	-191.96	-574.88	1,892,583.04	2,739,160.52	36.20132158	-107.77886888	
4,100.00	46.58	135.293	3,935.13	-216.67	-550.42	1,892,558.33	2,739,184.98	36.20125365	-107.77878602	
4,133.24	49.90	135.293	3,957.27	-234.29	-532.97	1,892,540.71	2,739,202.42	36.20120522	-107.77872693	
MNCS_C										
4,150.00	51.58	135.293	3,967.88	-243.51	-523.85	1,892,531.49	2,739,211.55	36.20117988	-107.77869602	
4,192.42	55.82	135.293	3,992.99	-267.80	-499.80	1,892,507.19	2,739,235.59	36.20111311	-107.77861457	
MNCS_Cms										
4,200.00	56.58	135.293	3,997.20	-272.28	-495.37	1,892,502.72	2,739,240.02	36.20110081	-107.77859956	
4,250.00	61.58	135.293	4,022.89	-302.75	-465.21	1,892,472.24	2,739,270.19	36.20101704	-107.77849738	
4,300.00	66.58	135.293	4,044.74	-334.70	-433.58	1,892,440.29	2,739,301.81	36.20092922	-107.77839025	
4,334.24	70.00	135.293	4,057.40	-357.31	-411.21	1,892,417.69	2,739,324.18	36.20086710	-107.77831446	
Begin 10°/100' build										
4,350.00	71.58	135.293	4,062.59	-367.88	-400.74	1,892,407.11	2,739,334.66	36.20083802	-107.77827899	
4,400.00	76.58	135.293	4,076.30	-402.05	-366.93	1,892,372.95	2,739,368.47	36.20074412	-107.77816445	
4,417.02	78.28	135.293	4,080.01	-413.85	-355.24	1,892,361.14	2,739,380.16	36.20071167	-107.77812486	
7" Intermediate Casing										
4,450.00	81.58	135.293	4,085.78	-436.93	-332.40	1,892,338.07	2,739,403.00	36.20064825	-107.77804749	
4,500.00	86.58	135.293	4,090.94	-472.26	-297.42	1,892,302.74	2,739,437.97	36.20055112	-107.77792902	
4,537.74	90.35	135.293	4,091.95	-499.07	-270.89	1,892,275.93	2,739,464.50	36.20047745	-107.77783914	
Begin 2°/100' turn										
4,600.00	90.35	134.048	4,091.57	-542.84	-226.61	1,892,232.16	2,739,508.78	36.20035713	-107.77768915	
4,700.00	90.35	132.048	4,090.96	-611.09	-153.54	1,892,163.90	2,739,581.85	36.20016951	-107.77744161	
4,772.38	90.35	130.600	4,090.51	-658.89	-99.19	1,892,116.11	2,739,636.21	36.20003813	-107.77725747	
Begin 90.35° lateral										
4,800.00	90.35	130.600	4,090.34	-676.86	-78.22	1,892,098.14	2,739,657.18	36.19998873	-107.77718643	
4,900.00	90.35	130.600	4,089.73	-741.94	-2.29	1,892,033.06	2,739,733.10	36.19980984	-107.77692922	



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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,972.38	90.35	130.600	4,089.29	-789.04	52.67	1,891,985.96	2,739,788.06	36.19968035	-107.77674305
Begin 2°/100' turn									
5,000.00	90.35	131.152	4,089.12	-807.11	73.55	1,891,967.88	2,739,808.94	36.19963067	-107.77667230
5,100.00	90.35	133.152	4,088.51	-874.22	147.68	1,891,900.78	2,739,883.07	36.19944620	-107.77642118
5,207.03	90.35	135.293	4,087.87	-948.86	224.37	1,891,826.14	2,739,959.77	36.19924104	-107.77616139
Begin 90.35° lateral									
5,300.00	90.35	135.293	4,087.31	-1,014.93	289.78	1,891,760.06	2,740,025.17	36.19905941	-107.77593985
5,400.00	90.35	135.293	4,086.70	-1,086.00	360.12	1,891,688.99	2,740,095.52	36.19886406	-107.77570156
5,500.00	90.35	135.293	4,086.10	-1,157.07	430.47	1,891,617.92	2,740,165.86	36.19866871	-107.77546327
5,600.00	90.35	135.293	4,085.50	-1,228.14	500.82	1,891,546.85	2,740,236.21	36.19847336	-107.77522499
5,700.00	90.35	135.293	4,084.89	-1,299.21	571.16	1,891,475.78	2,740,306.56	36.19827800	-107.77498672
5,800.00	90.35	135.293	4,084.29	-1,370.28	641.51	1,891,404.71	2,740,376.91	36.19808265	-107.77474844
5,900.00	90.35	135.293	4,083.69	-1,441.35	711.86	1,891,333.64	2,740,447.25	36.19788730	-107.77451016
6,000.00	90.35	135.293	4,083.08	-1,512.42	782.21	1,891,262.57	2,740,517.60	36.19769195	-107.77427188
6,100.00	90.35	135.293	4,082.48	-1,583.49	852.55	1,891,191.50	2,740,587.95	36.19749659	-107.77403360
6,200.00	90.35	135.293	4,081.88	-1,654.56	922.90	1,891,120.43	2,740,658.29	36.19730124	-107.77379532
6,300.00	90.35	135.293	4,081.27	-1,725.63	993.25	1,891,049.36	2,740,728.64	36.19710588	-107.77355705
6,400.00	90.35	135.293	4,080.67	-1,796.70	1,063.59	1,890,978.29	2,740,798.99	36.19691053	-107.77331877
6,500.00	90.35	135.293	4,080.07	-1,867.77	1,133.94	1,890,907.22	2,740,869.33	36.19671517	-107.77308050
6,600.00	90.35	135.293	4,079.46	-1,938.84	1,204.29	1,890,836.16	2,740,939.68	36.19651981	-107.77284223
6,700.00	90.35	135.293	4,078.86	-2,009.91	1,274.63	1,890,765.09	2,741,010.03	36.19632446	-107.77260395
6,800.00	90.35	135.293	4,078.26	-2,080.98	1,344.98	1,890,694.02	2,741,080.37	36.19612910	-107.77236568
6,900.00	90.35	135.293	4,077.65	-2,152.05	1,415.33	1,890,622.95	2,741,150.72	36.19593374	-107.77212742
7,000.00	90.35	135.293	4,077.05	-2,223.12	1,485.67	1,890,551.88	2,741,221.07	36.19573838	-107.77188915
7,100.00	90.35	135.293	4,076.45	-2,294.19	1,556.02	1,890,480.81	2,741,291.41	36.19554302	-107.77165088
7,200.00	90.35	135.293	4,075.84	-2,365.26	1,626.37	1,890,409.74	2,741,361.76	36.19534766	-107.77141262
7,300.00	90.35	135.293	4,075.24	-2,436.33	1,696.72	1,890,338.67	2,741,432.11	36.19515230	-107.77117435
7,400.00	90.35	135.293	4,074.64	-2,507.40	1,767.06	1,890,267.60	2,741,502.45	36.19495694	-107.77093609
7,500.00	90.35	135.293	4,074.03	-2,578.47	1,837.41	1,890,196.53	2,741,572.80	36.19476158	-107.77069783
7,600.00	90.35	135.293	4,073.43	-2,649.54	1,907.76	1,890,125.46	2,741,643.15	36.19456622	-107.77045957
7,700.00	90.35	135.293	4,072.83	-2,720.61	1,978.10	1,890,054.39	2,741,713.49	36.19437086	-107.77022131
7,800.00	90.35	135.293	4,072.22	-2,791.68	2,048.45	1,889,983.32	2,741,783.84	36.19417550	-107.76998305
7,900.00	90.35	135.293	4,071.62	-2,862.75	2,118.80	1,889,912.25	2,741,854.19	36.19398014	-107.76974480
8,000.00	90.35	135.293	4,071.02	-2,933.82	2,189.14	1,889,841.18	2,741,924.53	36.19378477	-107.76950654
8,100.00	90.35	135.293	4,070.41	-3,004.89	2,259.49	1,889,770.11	2,741,994.88	36.19358941	-107.76926829
8,200.00	90.35	135.293	4,069.81	-3,075.96	2,329.84	1,889,699.04	2,742,065.23	36.19339404	-107.76903003
8,300.00	90.35	135.293	4,069.21	-3,147.03	2,400.18	1,889,627.97	2,742,135.57	36.19319868	-107.76879178
8,400.00	90.35	135.293	4,068.60	-3,218.10	2,470.53	1,889,556.90	2,742,205.92	36.19300332	-107.76855353
8,500.00	90.35	135.293	4,068.00	-3,289.17	2,540.88	1,889,485.83	2,742,276.27	36.19280795	-107.76831528
8,600.00	90.35	135.293	4,067.40	-3,360.24	2,611.23	1,889,414.76	2,742,346.62	36.19261258	-107.76807703
8,700.00	90.35	135.293	4,066.79	-3,431.31	2,681.57	1,889,343.69	2,742,416.96	36.19241722	-107.76783878
8,800.00	90.35	135.293	4,066.19	-3,502.38	2,751.92	1,889,272.62	2,742,487.31	36.19222185	-107.76760054
8,900.00	90.35	135.293	4,065.59	-3,573.45	2,822.27	1,889,201.55	2,742,557.66	36.19202648	-107.76736229
9,000.00	90.35	135.293	4,064.98	-3,644.52	2,892.61	1,889,130.48	2,742,628.00	36.19183111	-107.76712405
9,100.00	90.35	135.293	4,064.38	-3,715.59	2,962.96	1,889,059.41	2,742,698.35	36.19163575	-107.76688581
9,200.00	90.35	135.293	4,063.78	-3,786.66	3,033.31	1,888,988.34	2,742,768.70	36.19144038	-107.76664757
9,300.00	90.35	135.293	4,063.17	-3,857.73	3,103.65	1,888,917.27	2,742,839.04	36.19124501	-107.76640933
9,400.00	90.35	135.293	4,062.57	-3,928.80	3,174.00	1,888,846.20	2,742,909.39	36.19104964	-107.76617109
9,500.00	90.35	135.293	4,061.97	-3,999.87	3,244.35	1,888,775.13	2,742,979.74	36.19085427	-107.76593285
9,600.00	90.35	135.293	4,061.36	-4,070.94	3,314.69	1,888,704.06	2,743,050.08	36.19065890	-107.76569461
9,700.00	90.35	135.293	4,060.76	-4,142.01	3,385.04	1,888,632.99	2,743,120.43	36.19046352	-107.76545638
9,800.00	90.35	135.293	4,060.16	-4,213.08	3,455.39	1,888,561.92	2,743,190.78	36.19026815	-107.76521814
9,900.00	90.35	135.293	4,059.55	-4,284.15	3,525.74	1,888,490.85	2,743,261.12	36.19007278	-107.76497991
10,000.00	90.35	135.293	4,058.95	-4,355.22	3,596.08	1,888,419.78	2,743,331.47	36.18987741	-107.76474168



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

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,100.00	90.35	135.293	4,058.35	-4,426.29	3,666.43	1,888,348.71	2,743,401.82	36.18968203	-107.76450345	
10,200.00	90.35	135.293	4,057.74	-4,497.36	3,736.78	1,888,277.64	2,743,472.16	36.18948666	-107.76426522	
10,300.00	90.35	135.293	4,057.14	-4,568.43	3,807.12	1,888,206.57	2,743,542.51	36.18929129	-107.76402699	
10,400.00	90.35	135.293	4,056.54	-4,639.50	3,877.47	1,888,135.50	2,743,612.86	36.18909591	-107.76378876	
10,500.00	90.35	135.293	4,055.93	-4,710.57	3,947.82	1,888,064.43	2,743,683.20	36.18890054	-107.76355054	
10,600.00	90.35	135.293	4,055.33	-4,781.64	4,018.16	1,887,993.36	2,743,753.55	36.18870516	-107.76331231	
10,700.00	90.35	135.293	4,054.73	-4,852.71	4,088.51	1,887,922.29	2,743,823.90	36.18850978	-107.76307409	
10,800.00	90.35	135.293	4,054.12	-4,923.78	4,158.86	1,887,851.22	2,743,894.24	36.18831441	-107.76283586	
10,900.00	90.35	135.293	4,053.52	-4,994.85	4,229.20	1,887,780.15	2,743,964.59	36.18811903	-107.76259764	
11,000.00	90.35	135.293	4,052.92	-5,065.92	4,299.55	1,887,709.08	2,744,034.94	36.18792365	-107.76235942	
11,100.00	90.35	135.293	4,052.31	-5,136.99	4,369.90	1,887,638.01	2,744,105.29	36.18772828	-107.76212120	
11,200.00	90.35	135.293	4,051.71	-5,208.06	4,440.25	1,887,566.94	2,744,175.63	36.18753290	-107.76188299	
11,300.00	90.35	135.293	4,051.11	-5,279.13	4,510.59	1,887,495.87	2,744,245.98	36.18733752	-107.76164477	
11,400.00	90.35	135.293	4,050.50	-5,350.20	4,580.94	1,887,424.80	2,744,316.33	36.18714214	-107.76140656	
11,500.00	90.35	135.293	4,049.90	-5,421.27	4,651.29	1,887,353.73	2,744,386.67	36.18694676	-107.76116834	
11,600.00	90.35	135.293	4,049.30	-5,492.34	4,721.63	1,887,282.66	2,744,457.02	36.18675138	-107.76093013	
11,700.00	90.35	135.293	4,048.69	-5,563.41	4,791.98	1,887,211.59	2,744,527.37	36.18655600	-107.76069192	
11,800.00	90.35	135.293	4,048.09	-5,634.48	4,862.33	1,887,140.52	2,744,597.71	36.18636062	-107.76045371	
11,900.00	90.35	135.293	4,047.49	-5,705.55	4,932.67	1,887,069.45	2,744,668.06	36.18616523	-107.76021550	
12,000.00	90.35	135.293	4,046.88	-5,776.62	5,003.02	1,886,998.38	2,744,738.41	36.18596985	-107.75997729	
12,100.00	90.35	135.293	4,046.28	-5,847.69	5,073.37	1,886,927.31	2,744,808.75	36.18577447	-107.75973908	
12,200.00	90.35	135.293	4,045.68	-5,918.76	5,143.71	1,886,856.24	2,744,879.10	36.18557909	-107.75950088	
12,300.00	90.35	135.293	4,045.07	-5,989.83	5,214.06	1,886,785.17	2,744,949.45	36.18538370	-107.75926267	
12,400.00	90.35	135.293	4,044.47	-6,060.90	5,284.41	1,886,714.10	2,745,019.79	36.18518832	-107.75902447	
12,500.00	90.35	135.293	4,043.87	-6,131.97	5,354.76	1,886,643.03	2,745,090.14	36.18499293	-107.75878626	
12,600.00	90.35	135.293	4,043.26	-6,203.04	5,425.10	1,886,571.96	2,745,160.49	36.18479755	-107.75854806	
12,700.00	90.35	135.293	4,042.66	-6,274.11	5,495.45	1,886,500.89	2,745,230.83	36.18460216	-107.75830986	
12,800.00	90.35	135.293	4,042.06	-6,345.18	5,565.80	1,886,429.82	2,745,301.18	36.18440678	-107.75807167	
12,900.00	90.35	135.293	4,041.45	-6,416.25	5,636.14	1,886,358.75	2,745,371.53	36.18421139	-107.75783347	
12,974.92	90.35	135.293	4,041.00	-6,469.50	5,688.85	1,886,305.51	2,745,424.23	36.18406500	-107.75765500	
PBHL/TD @ 12974.92 MD 4041.00 TVD										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Greater Lybrook 43H LTI - hit/miss target - Shape - Point	0.00	0.000	4,041.00	-6,469.50	5,688.85	1,886,305.51	2,745,424.23	36.18406500	-107.75765500	
Greater Lybrook 43H vs: - plan misses target center by 42.90ft at 4378.30ft MD (4070.87 TVD, -387.11 N, -381.71 E) - Point	0.00	0.000	4,094.00	-357.43	-361.10	1,892,417.57	2,739,374.30	36.20086668	-107.77814462	
Greater Lybrook 43H FT - plan misses target center by 42.93ft at 4378.14ft MD (4070.83 TVD, -387.01 N, -381.81 E) - Point	0.00	0.000	4,094.00	-357.31	-361.21	1,892,417.68	2,739,374.18	36.20086700	-107.77814500	



Planning Report - Geographic



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

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4	
4,417.02	4,080.01	7" Intermediate Casing	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
174.00	174.00	Ojo Alamo		-0.350	135.293
289.00	289.00	Kirtland		-0.350	135.293
499.00	499.00	Fruitland		-0.350	135.293
894.00	894.00	Pictured Cliffs		-0.350	135.293
1,054.01	1,054.00	Lewis		-0.350	135.293
1,259.87	1,259.07	Chacra_A		-0.350	135.293
2,338.27	2,275.36	Cliff House_Basal		-0.350	135.293
2,351.26	2,287.38	Menefee		-0.350	135.293
3,387.59	3,272.50	Point Lookout		-0.350	135.293
3,551.75	3,436.52	Mancos		-0.350	135.293
3,889.80	3,766.18	MNCS_A		-0.350	135.293
4,001.75	3,861.82	MNCS_B		-0.350	135.293
4,133.24	3,957.27	MNCS_C		-0.350	135.293
4,192.42	3,992.99	MNCS_Cms		-0.350	135.293

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,741.59	1,723.10	-18.62	-140.95	Begin 22.25° tangent	
2,792.65	2,695.91	-70.75	-535.47	Begin 3°/100' drop	
3,534.24	3,419.00	-89.37	-676.42	Begin vertical hold	
3,634.24	3,519.00	-89.37	-676.42	Begin 10°/100' build	
4,334.24	4,057.40	-357.31	-411.21	Begin 10°/100' build	
4,537.74	4,091.95	-499.07	-270.89	Begin 2°/100' turn	
4,772.38	4,090.51	-658.89	-99.19	Begin 90.35° lateral	
4,972.38	4,089.29	-789.04	52.67	Begin 2°/100' turn	
5,207.03	4,087.87	-948.86	224.37	Begin 90.35° lateral	
12,974.92	4,041.00	-6,469.50	5,688.85	PBHL/TD @ 12974.92 MD 4041.00 TVD	



Anticollision Report



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

Reference	rev0		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,497.49ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/29/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	12,974.92	rev0 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Greater Lybrook Unit 730 (43,44,45,46&47)						
Greater Lybrook Unit 44H - Original Hole - rev0	1,000.00	1,000.00	20.02	13.02	2.860	CC, ES
Greater Lybrook Unit 44H - Original Hole - rev0	12,974.92	13,327.58	715.46	417.07	2.398	SF
Greater Lybrook Unit 45H - Original Hole - rev0	900.00	900.00	40.04	33.76	6.372	CC, ES
Greater Lybrook Unit 45H - Original Hole - rev0	12,974.92	13,026.65	1,154.56	748.73	2.845	SF
Greater Lybrook Unit 46H - Original Hole - rev0	700.00	700.00	60.07	55.22	12.385	CC, ES
Greater Lybrook Unit 46H - Original Hole - rev0	900.00	893.76	69.44	63.20	11.117	SF
Greater Lybrook Unit 47H - Original Hole - rev0	500.00	500.00	80.09	76.67	23.443	CC, ES
Greater Lybrook Unit 47H - Original Hole - rev0	800.00	787.36	100.21	94.70	18.203	SF
W Lybrook 730 Pad (730, 763, 830, 861 & 863)						
W Lybrook Unit No. 730H - Original Hole - Surveys Origin	1,017.30	1,023.18	60.32	53.86	9.339	CC, ES
W Lybrook Unit No. 730H - Original Hole - Surveys Origin	1,100.00	1,104.71	62.07	55.04	8.832	SF
W Lybrook Unit No. 763H - Original Hole - Surveys Origin	1,008.40	1,014.08	31.96	25.63	5.046	CC, ES
W Lybrook Unit No. 763H - Original Hole - Surveys Origin	1,100.00	1,105.70	33.94	26.96	4.863	SF
W Lybrook Unit No. 830H - Original Hole - Surveys Origin	1,019.90	1,025.80	50.42	44.00	7.851	CC, ES
W Lybrook Unit No. 830H - Original Hole - Surveys Origin	1,200.00	1,205.61	56.21	48.52	7.308	SF
W Lybrook Unit No. 861H - Original Hole - Surveys Origin	974.01	979.55	79.74	73.59	12.982	CC
W Lybrook Unit No. 861H - Original Hole - Surveys Origin	1,000.00	1,004.91	79.84	73.52	12.629	ES
W Lybrook Unit No. 861H - Original Hole - Surveys Origin	1,100.00	1,101.95	83.68	76.69	11.969	SF
W Lybrook Unit No. 863H - Original Hole - Surveys Origin	1,006.78	1,012.43	30.72	24.39	4.852	CC
W Lybrook Unit No. 863H - Original Hole - Surveys Origin	4,400.00	4,564.21	54.17	21.72	1.669	Level 3<2.00, ES, SF
W Lybrook Unit						
W Lybrook Unit No. 735H - Original Hole - Surveys Origin	9,148.88	4,577.83	678.75	547.85	5.185	CC
W Lybrook Unit No. 735H - Original Hole - Surveys Origin	9,200.00	4,542.91	679.86	547.03	5.118	ES, SF

Offset Design:	Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 44H - Original Hole - rev0											Offset Site Error:	0.00 ft
Survey Program:	O-MWD											Offset Well Error:	0.00 ft
Reference	Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-0.033	20.02	-0.01	20.02				
100.00	100.00	100.00	100.00	0.27	0.27	-0.033	20.02	-0.01	20.02	19.47	0.55	36.504	
200.00	200.00	200.00	200.00	0.63	0.63	-0.033	20.02	-0.01	20.02	18.76	1.27	15.822	
300.00	300.00	300.00	300.00	0.99	0.99	-0.033	20.02	-0.01	20.02	18.04	1.98	10.100	

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

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 44H - 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)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
400.00	400.00	400.00	400.00	1.35	1.35	-0.033	20.02	-0.01	20.02	17.32	2.70	7.417	
500.00	500.00	500.00	500.00	1.71	1.71	-0.033	20.02	-0.01	20.02	16.60	3.42	5.861	
600.00	600.00	600.00	600.00	2.07	2.07	-0.033	20.02	-0.01	20.02	15.89	4.13	4.844	
700.00	700.00	700.00	700.00	2.43	2.43	-0.033	20.02	-0.01	20.02	15.17	4.85	4.128	
800.00	800.00	800.00	800.00	2.78	2.78	-0.033	20.02	-0.01	20.02	14.45	5.57	3.596	
900.00	900.00	900.00	900.00	3.14	3.14	-0.033	20.02	-0.01	20.02	13.74	6.28	3.186	
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-0.033	20.02	-0.01	20.02	13.02	7.00	2.860 CC, ES	
1,100.00	1,099.95	1,099.17	1,099.12	3.85	3.85	99.616	21.93	-1.73	22.31	14.61	7.70	2.897	
1,200.00	1,199.63	1,197.99	1,197.64	4.20	4.21	103.932	27.64	-6.87	29.29	20.90	8.39	3.492	
1,300.00	1,298.77	1,296.13	1,294.94	4.55	4.57	107.745	37.05	-15.34	41.09	32.00	9.09	4.521	
1,400.00	1,397.08	1,393.74	1,391.00	4.93	4.94	110.521	49.92	-26.93	57.56	47.74	9.82	5.862	
1,500.00	1,494.31	1,491.70	1,487.18	5.34	5.32	114.666	63.73	-39.36	76.84	66.23	10.60	7.246	
1,600.00	1,590.18	1,588.88	1,582.60	5.79	5.72	119.599	77.44	-51.70	98.88	87.46	11.42	8.656	
1,700.00	1,684.43	1,685.01	1,676.97	6.30	6.12	124.493	90.99	-63.91	124.34	112.07	12.27	10.137	
1,800.00	1,777.16	1,780.07	1,770.31	6.87	6.52	129.165	104.40	-75.98	153.15	140.02	13.12	11.670	
1,900.00	1,869.71	1,875.01	1,863.52	7.48	6.93	132.669	117.79	-88.03	182.98	168.99	13.98	13.087	
2,000.00	1,962.27	1,969.95	1,956.74	8.11	7.34	135.193	131.17	-100.08	213.26	198.41	14.85	14.361	
2,100.00	2,054.82	2,064.89	2,049.95	8.77	7.76	137.090	144.56	-112.14	243.83	228.10	15.73	15.503	
2,200.00	2,147.38	2,159.83	2,143.17	9.44	8.18	138.566	157.95	-124.19	274.58	257.97	16.61	16.529	
2,300.00	2,239.93	2,254.77	2,236.38	10.13	8.60	139.744	171.34	-136.25	305.47	287.97	17.50	17.451	
2,400.00	2,332.49	2,349.71	2,329.60	10.83	9.03	140.707	184.73	-148.30	336.46	318.06	18.40	18.283	
2,500.00	2,425.05	2,444.65	2,422.81	11.53	9.45	141.507	198.12	-160.35	367.51	348.21	19.31	19.035	
2,600.00	2,517.60	2,539.59	2,516.03	12.25	9.88	142.183	211.51	-172.41	398.63	378.41	20.22	19.718	
2,700.00	2,610.16	2,634.53	2,609.25	12.97	10.31	142.761	224.90	-184.46	429.78	408.65	21.13	20.340	
2,800.00	2,702.72	2,729.47	2,702.46	13.69	10.74	143.303	238.28	-196.52	460.96	438.91	22.05	20.908	
2,900.00	2,796.36	2,825.18	2,796.43	14.38	11.18	144.059	251.78	-208.67	489.86	466.90	22.97	21.331	
3,000.00	2,891.70	2,922.03	2,891.52	15.01	11.62	144.351	265.44	-220.96	514.69	490.80	23.88	21.550	
3,100.00	2,988.50	3,019.75	2,987.47	15.56	12.07	144.241	279.22	-233.37	535.39	510.59	24.80	21.587	
3,200.00	3,086.47	3,118.09	3,084.02	16.05	12.52	143.769	293.09	-245.86	551.99	526.27	25.72	21.465	
3,300.00	3,185.35	3,217.31	3,181.53	16.47	12.97	143.001	306.70	-258.11	564.52	537.91	26.62	21.210	
3,400.00	3,284.87	3,318.06	3,281.27	16.82	13.40	142.313	317.23	-267.59	572.87	545.41	27.45	20.866	
3,500.00	3,384.77	3,419.63	3,382.44	17.12	13.78	141.770	323.88	-273.58	576.87	548.67	28.21	20.452	
3,600.00	3,484.76	3,521.70	3,484.43	17.37	14.13	43.917	326.52	-275.96	577.35	548.48	28.87	19.996	
3,700.00	3,584.62	3,621.89	3,584.62	17.59	14.45	-91.745	326.57	-276.00	577.46	547.99	29.47	19.592	
3,800.00	3,682.46	3,719.73	3,682.46	17.75	14.75	-93.586	326.57	-276.00	578.42	548.33	30.10	19.219	
3,900.00	3,775.34	3,812.61	3,775.34	17.85	15.05	-96.582	326.57	-276.00	581.97	551.22	30.75	18.926	
4,000.00	3,860.42	3,897.69	3,860.42	17.92	15.32	-100.002	326.57	-276.00	590.95	559.51	31.43	18.801	
4,100.00	3,935.13	3,973.18	3,935.91	17.97	15.56	-103.000	326.57	-276.00	608.61	576.49	32.13	18.944	
4,200.00	3,997.20	4,089.92	4,051.79	18.03	15.85	-108.060	317.81	-267.33	634.97	602.17	32.81	19.354	
4,300.00	4,044.74	4,245.49	4,197.82	18.11	16.09	-114.048	280.69	-230.59	665.85	632.96	32.89	20.247	
4,400.00	4,076.30	4,472.42	4,373.51	18.30	16.45	-120.989	180.27	-131.19	694.98	663.10	31.88	21.798	
4,500.00	4,090.94	4,797.40	4,501.86	18.72	18.24	-125.609	-28.56	75.51	710.50	678.70	31.81	22.336	
4,600.00	4,091.57	4,939.44	4,506.23	19.54	19.72	-125.686	-128.83	175.82	710.85	676.93	33.91	20.961	
4,700.00	4,090.96	5,022.67	4,505.81	20.77	20.76	-125.711	-185.75	236.54	710.77	674.85	35.91	19.791	
4,800.00	4,090.34	5,107.93	4,505.37	22.28	21.97	-125.755	-242.20	300.43	710.32	672.19	38.14	18.626	
4,804.45	4,090.32	5,109.95	4,505.36	22.35	22.00	-125.755	-243.51	301.97	710.32	672.11	38.22	18.587	
4,900.00	4,089.73	5,205.50	4,504.88	23.95	23.50	-125.762	-305.70	374.50	710.37	669.61	40.75	17.431	
4,904.45	4,089.71	5,209.95	4,504.86	24.02	23.57	-125.762	-308.60	377.88	710.37	669.49	40.88	17.378	
5,000.00	4,089.12	5,305.50	4,504.37	25.73	25.18	-125.762	-370.79	450.42	710.52	666.94	43.58	16.305	
5,100.00	4,088.51	5,430.10	4,503.74	27.58	27.41	-125.729	-453.85	543.29	711.08	664.10	46.98	15.137	
5,200.00	4,087.91	5,552.66	4,503.13	29.47	29.67	-125.737	-539.39	631.04	710.94	660.56	50.38	14.113	
5,270.40	4,087.48	5,623.06	4,502.77	30.84	31.01	-125.746	-589.42	680.56	710.89	658.33	52.56	13.524	

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

Offset Design:		Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 44H - Original Hole - rev0											Offset Site Error:		0.00 ft		
Survey Program:		0-MWD						Rule Assigned:						Offset Well Error:		0.00 ft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			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)	Minimum Separation (ft)						
5,300.00	4,087.31	5,652.66	4,502.62	31.41	31.58	-125.743	-610.46	701.38	710.99	657.50	53.49	13.291					
5,400.00	4,086.70	5,752.66	4,502.12	33.39	33.53	-125.749	-681.53	771.73	711.05	654.37	56.68	12.546					
5,500.00	4,086.10	5,852.66	4,501.61	35.42	35.52	-125.755	-752.60	842.08	711.10	651.19	59.91	11.869					
5,600.00	4,085.50	5,952.66	4,501.11	37.47	37.54	-125.762	-823.67	912.43	711.16	647.97	63.19	11.254					
5,700.00	4,084.89	6,052.66	4,500.60	39.55	39.60	-125.768	-894.74	982.77	711.22	644.71	66.51	10.693					
5,800.00	4,084.29	6,152.66	4,500.10	41.65	41.68	-125.775	-965.81	1,053.12	711.28	641.42	69.86	10.181					
5,900.00	4,083.69	6,252.66	4,499.59	43.77	43.78	-125.781	-1,036.88	1,123.47	711.34	638.10	73.24	9.713					
6,000.00	4,083.08	6,352.66	4,499.09	45.91	45.89	-125.788	-1,107.95	1,193.82	711.39	634.77	76.63	9.284					
6,100.00	4,082.48	6,452.66	4,498.58	48.06	48.03	-125.794	-1,179.02	1,264.16	711.45	631.42	80.04	8.889					
6,200.00	4,081.88	6,552.66	4,498.08	50.22	50.17	-125.800	-1,250.09	1,334.51	711.51	628.05	83.46	8.525					
6,300.00	4,081.27	6,652.66	4,497.57	52.39	52.33	-125.807	-1,321.16	1,404.86	711.57	624.68	86.89	8.190					
6,400.00	4,080.67	6,752.66	4,497.07	54.58	54.50	-125.813	-1,392.23	1,475.21	711.63	621.30	90.32	7.879					
6,500.00	4,080.07	6,852.66	4,496.56	56.77	56.68	-125.820	-1,463.30	1,545.55	711.68	617.92	93.77	7.590					
6,600.00	4,079.46	6,952.66	4,496.06	58.97	58.87	-125.826	-1,534.37	1,615.90	711.74	614.53	97.21	7.322					
6,700.00	4,078.86	7,052.66	4,495.55	61.17	61.07	-125.833	-1,605.44	1,686.25	711.80	611.14	100.66	7.071					
6,800.00	4,078.26	7,152.66	4,495.05	63.38	63.27	-125.839	-1,676.51	1,756.60	711.86	607.75	104.11	6.838					
6,900.00	4,077.65	7,252.66	4,494.55	65.60	65.48	-125.845	-1,747.58	1,826.94	711.92	604.36	107.55	6.619					
7,000.00	4,077.05	7,352.66	4,494.04	67.82	67.69	-125.852	-1,818.65	1,897.29	711.97	600.98	111.00	6.414					
7,100.00	4,076.45	7,452.66	4,493.54	70.05	69.91	-125.858	-1,889.72	1,967.64	712.03	597.59	114.44	6.222					
7,200.00	4,075.84	7,552.66	4,493.03	72.28	72.13	-125.865	-1,960.79	2,037.99	712.09	594.21	117.88	6.041					
7,300.00	4,075.24	7,652.66	4,492.53	74.51	74.36	-125.871	-2,031.86	2,108.33	712.15	590.84	121.31	5.870					
7,400.00	4,074.64	7,752.66	4,492.02	76.75	76.59	-125.878	-2,102.93	2,178.68	712.21	587.47	124.74	5.710					
7,500.00	4,074.03	7,852.66	4,491.52	78.99	78.83	-125.884	-2,174.00	2,249.03	712.26	584.10	128.16	5.558					
7,600.00	4,073.43	7,952.66	4,491.01	81.23	81.06	-125.890	-2,245.07	2,319.38	712.32	580.75	131.58	5.414					
7,700.00	4,072.83	8,052.66	4,490.51	83.48	83.30	-125.897	-2,316.14	2,389.72	712.38	577.39	134.99	5.277					
7,800.00	4,072.22	8,152.66	4,490.00	85.72	85.55	-125.903	-2,387.21	2,460.07	712.44	574.05	138.39	5.148					
7,900.00	4,071.62	8,252.66	4,489.50	87.97	87.79	-125.910	-2,458.28	2,530.42	712.50	570.72	141.78	5.025					
8,000.00	4,071.02	8,352.66	4,488.99	90.23	90.04	-125.916	-2,529.36	2,600.77	712.56	567.39	145.17	4.909					
8,100.00	4,070.41	8,452.66	4,488.49	92.48	92.29	-125.922	-2,600.43	2,671.11	712.61	564.07	148.54	4.797					
8,200.00	4,069.81	8,552.66	4,487.98	94.73	94.54	-125.929	-2,671.50	2,741.46	712.67	560.76	151.91	4.691					
8,300.00	4,069.21	8,652.66	4,487.48	96.99	96.79	-125.935	-2,742.57	2,811.81	712.73	557.46	155.27	4.590					
8,400.00	4,068.60	8,752.66	4,486.97	99.25	99.05	-125.942	-2,813.64	2,882.16	712.79	554.17	158.62	4.494					
8,500.00	4,068.00	8,852.66	4,486.47	101.51	101.30	-125.948	-2,884.71	2,952.50	712.85	550.89	161.96	4.401					
8,600.00	4,067.40	8,952.66	4,485.97	103.77	103.56	-125.954	-2,955.78	3,022.85	712.90	547.62	165.29	4.313					
8,700.00	4,066.79	9,052.66	4,485.46	106.03	105.82	-125.961	-3,026.85	3,093.20	712.96	544.36	168.60	4.229					
8,800.00	4,066.19	9,152.66	4,484.96	108.30	108.08	-125.967	-3,097.92	3,163.55	713.02	541.11	171.91	4.148					
8,900.00	4,065.59	9,252.66	4,484.45	110.56	110.34	-125.974	-3,168.99	3,233.89	713.08	537.87	175.21	4.070					
9,000.00	4,064.98	9,352.66	4,483.95	112.83	112.61	-125.980	-3,240.06	3,304.24	713.14	534.64	178.49	3.995					
9,100.00	4,064.38	9,452.66	4,483.44	115.09	114.87	-125.986	-3,311.13	3,374.59	713.20	531.43	181.77	3.924					
9,200.00	4,063.78	9,552.66	4,482.94	117.36	117.14	-125.993	-3,382.20	3,444.94	713.25	528.22	185.03	3.855					
9,300.00	4,063.17	9,652.66	4,482.43	119.63	119.40	-125.999	-3,453.27	3,515.28	713.31	525.03	188.28	3.789					
9,400.00	4,062.57	9,752.66	4,481.93	121.90	121.67	-126.006	-3,524.34	3,585.63	713.37	521.85	191.52	3.725					
9,500.00	4,061.97	9,852.66	4,481.42	124.17	123.94	-126.012	-3,595.41	3,655.98	713.43	518.68	194.74	3.663					
9,600.00	4,061.36	9,952.65	4,480.92	126.44	126.20	-126.018	-3,666.48	3,726.33	713.49	515.53	197.96	3.604					
9,700.00	4,060.76	10,052.65	4,480.41	128.71	128.47	-126.025	-3,737.55	3,796.67	713.54	512.39	201.16	3.547					
9,800.00	4,060.16	10,152.65	4,479.91	130.98	130.74	-126.031	-3,808.62	3,867.02	713.60	509.26	204.35	3.492					
9,900.00	4,059.55	10,252.65	4,479.40	133.25	133.01	-126.038	-3,879.69	3,937.37	713.66	506.14	207.52	3.439					
10,000.00	4,058.95	10,352.65	4,478.90	135.53	135.29	-126.044	-3,950.76	4,007.72	713.72	503.03	210.69	3.388					
10,100.00	4,058.35	10,452.65	4,478.40	137.80	137.56	-126.050	-4,021.83	4,078.06	713.78	499.94	213.84	3.338					
10,200.00	4,057.74	10,552.65	4,477.89	140.08	139.83	-126.057	-4,092.90	4,148.41	713.84	496.86	216.97	3.290					
10,300.00	4,057.14	10,652.65	4,477.39	142.35	142.10	-126.063	-4,163.97	4,218.76	713.89	493.80	220.09	3.244					
10,400.00	4,056.54	10,752.65	4,476.88	144.63	144.38	-126.069	-4,235.04	4,289.11	713.95	490.75	223.20	3.199					

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

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 44H - 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		Rule Assigned:	
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
10,500.00	4,055.93	10,852.65	4,476.38	146.90	146.65	-126.076	-4,306.11	4,359.45	714.01	487.71	226.30	3.155
10,600.00	4,055.33	10,952.65	4,475.87	149.18	148.93	-126.082	-4,377.18	4,429.80	714.07	484.69	229.38	3.113
10,700.00	4,054.73	11,052.65	4,475.37	151.45	151.20	-126.089	-4,448.25	4,500.15	714.13	481.68	232.45	3.072
10,800.00	4,054.12	11,152.65	4,474.86	153.73	153.48	-126.095	-4,519.32	4,570.50	714.19	478.68	235.50	3.033
10,900.00	4,053.52	11,252.65	4,474.36	156.01	155.75	-126.101	-4,590.39	4,640.84	714.24	475.70	238.54	2.994
11,000.00	4,052.92	11,352.65	4,473.85	158.29	158.03	-126.108	-4,661.46	4,711.19	714.30	472.73	241.57	2.957
11,100.00	4,052.31	11,452.65	4,473.35	160.56	160.30	-126.114	-4,732.53	4,781.54	714.36	469.78	244.58	2.921
11,200.00	4,051.71	11,552.65	4,472.84	162.84	162.58	-126.120	-4,803.60	4,851.89	714.42	466.84	247.58	2.886
11,300.00	4,051.11	11,652.65	4,472.34	165.12	164.86	-126.127	-4,874.67	4,922.23	714.48	463.91	250.56	2.851
11,400.00	4,050.50	11,752.65	4,471.83	167.40	167.14	-126.133	-4,945.74	4,992.58	714.54	461.00	253.53	2.818
11,500.00	4,049.90	11,852.65	4,471.33	169.68	169.42	-126.140	-5,016.81	5,062.93	714.60	458.11	256.49	2.786
11,600.00	4,049.30	11,952.65	4,470.82	171.96	171.69	-126.146	-5,087.88	5,133.28	714.65	455.23	259.43	2.755
11,700.00	4,048.69	12,052.65	4,470.32	174.24	173.97	-126.152	-5,158.95	5,203.62	714.71	452.36	262.35	2.724
11,800.00	4,048.09	12,152.65	4,469.82	176.52	176.25	-126.159	-5,230.02	5,273.97	714.77	449.50	265.27	2.695
11,900.00	4,047.49	12,252.65	4,469.31	178.80	178.53	-126.165	-5,301.09	5,344.32	714.83	446.67	268.16	2.666
12,000.00	4,046.88	12,352.65	4,468.81	181.08	180.81	-126.171	-5,372.16	5,414.67	714.89	443.84	271.05	2.638
12,100.00	4,046.28	12,452.65	4,468.30	183.36	183.09	-126.178	-5,443.23	5,485.01	714.95	441.03	273.91	2.610
12,200.00	4,045.68	12,552.65	4,467.80	185.64	185.37	-126.184	-5,514.30	5,555.36	715.00	438.24	276.77	2.583
12,300.00	4,045.07	12,652.65	4,467.29	187.92	187.65	-126.191	-5,585.37	5,625.71	715.06	435.46	279.61	2.557
12,400.00	4,044.47	12,752.65	4,466.79	190.20	189.93	-126.197	-5,656.44	5,696.06	715.12	432.69	282.43	2.532
12,500.00	4,043.87	12,852.65	4,466.28	192.48	192.21	-126.203	-5,727.51	5,766.40	715.18	429.94	285.24	2.507
12,600.00	4,043.26	12,952.65	4,465.78	194.77	194.49	-126.210	-5,798.58	5,836.75	715.24	427.20	288.04	2.483
12,700.00	4,042.66	13,052.65	4,465.27	197.05	196.77	-126.216	-5,869.65	5,907.10	715.30	424.48	290.82	2.460
12,800.00	4,042.06	13,152.65	4,464.77	199.33	199.05	-126.222	-5,940.72	5,977.45	715.36	421.77	293.58	2.437
12,900.00	4,041.45	13,252.65	4,464.26	201.61	201.34	-126.229	-6,011.79	6,047.79	715.41	419.08	296.34	2.414
12,974.92	4,041.00	13,327.58	4,463.89	203.32	203.05	-126.233	-6,065.04	6,100.50	715.46	417.07	298.39	2.398 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 43H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Reference Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 43H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Jul1724_v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Rule Assigned:				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)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.389	40.04	0.27	40.04				
100.00	100.00	100.00	100.00	0.27	0.27	0.389	40.04	0.27	40.04	39.49	0.55	73.010	
200.00	200.00	200.00	200.00	0.63	0.63	0.389	40.04	0.27	40.04	38.78	1.27	31.645	
300.00	300.00	300.00	300.00	0.99	0.99	0.389	40.04	0.27	40.04	38.06	1.98	20.200	
400.00	400.00	400.00	400.00	1.35	1.35	0.389	40.04	0.27	40.04	37.34	2.70	14.835	
500.00	500.00	500.00	500.00	1.71	1.71	0.389	40.04	0.27	40.04	36.63	3.42	11.721	
600.00	600.00	600.00	600.00	2.07	2.07	0.389	40.04	0.27	40.04	35.91	4.13	9.688	
700.00	700.00	700.00	700.00	2.43	2.43	0.389	40.04	0.27	40.04	35.19	4.85	8.256	
800.00	800.00	800.00	800.00	2.78	2.78	0.389	40.04	0.27	40.04	34.48	5.57	7.193	
900.00	900.00	900.00	900.00	3.14	3.14	0.389	40.04	0.27	40.04	33.76	6.28	6.372 CC, ES	
1,000.00	1,000.00	997.89	997.85	3.50	3.49	0.953	42.51	0.71	42.57	35.59	6.99	6.093	
1,100.00	1,099.95	1,095.14	1,094.80	3.85	3.85	102.442	49.85	2.00	50.67	43.00	7.66	6.610	
1,200.00	1,199.63	1,190.82	1,189.70	4.20	4.19	109.467	61.81	4.11	65.57	57.26	8.32	7.885	
1,300.00	1,298.77	1,284.02	1,281.43	4.55	4.54	116.098	77.94	6.95	88.20	79.25	8.96	9.849	
1,400.00	1,397.08	1,373.92	1,369.07	4.93	4.90	121.120	97.65	10.43	118.75	109.17	9.59	12.389	
1,500.00	1,494.31	1,459.87	1,451.88	5.34	5.27	124.581	120.28	14.42	156.91	146.70	10.21	15.375	
1,600.00	1,590.18	1,541.33	1,529.35	5.79	5.65	126.832	145.09	18.79	202.19	191.36	10.82	18.679	
1,700.00	1,684.43	1,618.33	1,601.51	6.30	6.03	128.199	171.51	23.45	254.03	242.58	11.44	22.197	
1,800.00	1,777.16	1,700.52	1,678.01	6.87	6.47	130.183	201.10	28.66	309.96	297.75	12.21	25.392	
1,900.00	1,869.71	1,782.50	1,754.33	7.48	6.93	132.083	230.61	33.86	366.46	353.48	12.98	28.235	
2,000.00	1,962.27	1,864.49	1,830.64	8.11	7.40	133.480	260.12	39.06	423.16	409.39	13.77	30.737	
2,100.00	2,054.82	1,946.47	1,906.95	8.77	7.88	134.548	289.63	44.27	480.00	465.42	14.57	32.940	
2,200.00	2,147.38	2,028.46	1,983.27	9.44	8.37	135.392	319.14	49.47	536.92	521.53	15.39	34.889	
2,300.00	2,239.93	2,110.44	2,059.58	10.13	8.87	136.074	348.65	54.67	593.91	577.69	16.22	36.619	
2,400.00	2,332.49	2,192.43	2,135.89	10.83	9.37	136.638	378.16	59.87	650.95	633.89	17.06	38.160	
2,500.00	2,425.05	2,274.42	2,212.21	11.53	9.89	137.111	407.67	65.07	708.02	690.11	17.91	39.537	
2,600.00	2,517.60	2,356.40	2,288.52	12.25	10.40	137.513	437.18	70.27	765.12	746.35	18.76	40.775	
2,700.00	2,610.16	2,438.39	2,364.83	12.97	10.92	137.860	466.69	75.48	822.24	802.61	19.63	41.891	
2,800.00	2,702.72	2,520.38	2,441.15	13.69	11.45	138.263	496.20	80.68	879.37	858.87	20.50	42.903	
2,900.00	2,796.36	2,603.68	2,518.69	14.38	11.98	139.688	526.19	85.96	934.65	913.28	21.36	43.752	
3,000.00	2,891.70	2,689.12	2,598.22	15.01	12.54	140.727	556.94	91.38	986.56	964.34	22.22	44.403	
3,100.00	2,988.50	2,776.45	2,679.51	15.56	13.10	141.443	588.38	96.92	1,034.98	1,011.92	23.07	44.872	
3,200.00	3,086.47	2,864.79	2,780.52	16.05	13.80	141.779	626.95	103.72	1,079.63	1,055.51	24.12	44.769	
3,300.00	3,185.35	3,061.25	2,948.71	16.47	14.83	141.681	679.31	112.95	1,115.72	1,089.97	25.76	43.319	
3,400.00	3,284.87	3,250.33	3,133.54	16.82	15.75	141.571	718.19	119.81	1,140.45	1,113.22	27.22	41.890	
3,500.00	3,384.77	3,447.79	3,329.74	17.12	16.49	141.469	739.39	123.54	1,152.93	1,124.51	28.42	40.564	
3,600.00	3,484.76	3,602.88	3,484.76	17.37	16.93	43.899	742.50	124.09	1,154.48	1,125.28	29.21	39.526	
3,700.00	3,584.62	3,705.27	3,587.10	17.59	17.18	-91.487	741.10	125.48	1,154.53	1,124.78	29.75	38.802	
3,800.00	3,682.46	3,811.02	3,691.09	17.75	17.35	-91.621	728.01	138.43	1,154.60	1,124.48	30.12	38.330	
3,900.00	3,775.34	3,917.22	3,790.33	17.85	17.44	-91.702	701.45	164.73	1,154.65	1,124.30	30.36	38.037	
4,000.00	3,860.42	4,023.65	3,881.17	17.92	17.44	-91.729	662.24	203.54	1,154.67	1,124.12	30.55	37.797	
4,100.00	3,935.13	4,130.08	3,960.25	17.97	17.40	-91.699	611.79	253.49	1,154.66	1,123.82	30.84	37.442	
4,200.00	3,997.20	4,236.26	4,024.73	18.03	17.31	-91.614	551.97	312.70	1,154.61	1,123.22	31.38	36.789	
4,300.00	4,044.74	4,341.98	4,072.43	18.11	17.21	-91.478	485.03	378.96	1,154.54	1,122.20	32.33	35.707	
4,400.00	4,076.30	4,447.05	4,101.91	18.30	17.09	-91.294	413.47	449.80	1,154.45	1,120.68	33.77	34.188	
4,500.00	4,090.94	4,551.30	4,112.53	18.72	17.60	-91.071	339.87	522.65	1,154.36	1,118.69	35.67	32.364	
4,550.40	4,093.11	4,590.42	4,112.36	19.09	18.05	-90.954	312.17	550.28	1,154.25	1,117.58	36.67	31.479	
4,600.00	4,091.57	4,625.80	4,112.12	19.54	18.49	-91.020	287.43	575.57	1,154.68	1,116.98	37.70	30.628	
4,700.00	4,090.96	4,700.00	4,111.61	20.77	19.48	-91.030	236.58	629.60	1,154.25	1,114.19	40.06	28.816	
4,800.00	4,090.34	4,768.37	4,111.15	22.28	20.49	-91.037	190.98	680.53	1,152.94	1,110.32	42.62	27.050	
4,840.50	4,090.10	4,797.67	4,110.95	22.94	20.94	-91.036	171.81	702.69	1,152.75	1,109.01	43.75	26.351	
4,900.00	4,089.73	4,856.58	4,110.55	23.95	21.91	-91.034	133.50	747.44	1,152.78	1,107.09	45.69	25.229	

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

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
4,904.45	4,089.71	4,861.03	4,110.52	24.02	21.98	-91.034	130.60	750.82	1,152.79	1,106.94	45.84	25.146	
5,000.00	4,089.12	4,956.58	4,109.87	25.73	23.62	-91.027	68.46	823.40	1,152.97	1,103.81	49.16	23.453	
5,100.00	4,088.51	5,096.30	4,108.91	27.58	26.16	-91.009	-23.68	928.41	1,154.71	1,101.25	53.47	21.597	
5,200.00	4,087.91	5,251.73	4,107.85	29.47	29.08	-90.991	-131.79	1,040.06	1,154.69	1,096.57	58.12	19.866	
5,280.40	4,087.42	5,332.13	4,107.31	31.03	30.63	-90.987	-188.93	1,096.61	1,154.57	1,093.34	61.24	18.854	
5,300.00	4,087.31	5,351.73	4,107.17	31.41	31.01	-90.986	-202.86	1,110.40	1,154.68	1,092.68	62.00	18.624	
5,400.00	4,086.70	5,451.73	4,106.49	33.39	32.99	-90.982	-273.93	1,180.75	1,154.68	1,088.71	65.97	17.504	
5,500.00	4,086.10	5,551.73	4,105.81	35.42	35.00	-90.978	-345.00	1,251.09	1,154.68	1,084.67	70.01	16.494	
5,600.00	4,085.50	5,651.73	4,105.13	37.47	37.04	-90.974	-416.07	1,321.44	1,154.68	1,080.57	74.11	15.581	
5,700.00	4,084.89	5,751.73	4,104.44	39.55	39.11	-90.970	-487.14	1,391.79	1,154.68	1,076.41	78.27	14.753	
5,800.00	4,084.29	5,851.73	4,103.76	41.65	41.20	-90.966	-558.21	1,462.13	1,154.67	1,072.21	82.47	14.002	
5,900.00	4,083.69	5,951.73	4,103.08	43.77	43.31	-90.962	-629.28	1,532.48	1,154.67	1,067.97	86.71	13.317	
6,000.00	4,083.08	6,051.73	4,102.40	45.91	45.43	-90.959	-700.35	1,602.83	1,154.67	1,063.69	90.98	12.692	
6,100.00	4,082.48	6,151.73	4,101.72	48.06	47.57	-90.955	-771.42	1,673.17	1,154.67	1,059.39	95.28	12.119	
6,200.00	4,081.88	6,251.73	4,101.03	50.22	49.73	-90.951	-842.49	1,743.52	1,154.67	1,055.06	99.60	11.593	
6,300.00	4,081.27	6,351.73	4,100.35	52.39	51.89	-90.947	-913.56	1,813.86	1,154.66	1,050.71	103.95	11.108	
6,400.00	4,080.67	6,451.73	4,099.67	54.58	54.07	-90.943	-984.63	1,884.21	1,154.66	1,046.35	108.32	10.660	
6,500.00	4,080.07	6,551.73	4,098.99	56.77	56.25	-90.939	-1,055.70	1,954.56	1,154.66	1,041.96	112.70	10.245	
6,600.00	4,079.46	6,651.73	4,098.31	58.97	58.45	-90.935	-1,126.76	2,024.90	1,154.66	1,037.56	117.10	9.861	
6,700.00	4,078.86	6,751.73	4,097.62	61.17	60.65	-90.931	-1,197.83	2,095.25	1,154.66	1,033.15	121.51	9.503	
6,800.00	4,078.26	6,851.73	4,096.94	63.38	62.85	-90.927	-1,268.90	2,165.60	1,154.66	1,028.72	125.93	9.169	
6,900.00	4,077.65	6,951.73	4,096.26	65.60	65.06	-90.923	-1,339.97	2,235.94	1,154.65	1,024.29	130.37	8.857	
7,000.00	4,077.05	7,051.73	4,095.58	67.82	67.28	-90.919	-1,411.04	2,306.29	1,154.65	1,019.84	134.81	8.565	
7,100.00	4,076.45	7,151.73	4,094.89	70.05	69.50	-90.916	-1,482.11	2,376.63	1,154.65	1,015.39	139.26	8.291	
7,200.00	4,075.84	7,251.73	4,094.21	72.28	71.73	-90.912	-1,553.18	2,446.98	1,154.65	1,010.92	143.73	8.034	
7,300.00	4,075.24	7,351.73	4,093.53	74.51	73.96	-90.908	-1,624.25	2,517.33	1,154.65	1,006.45	148.19	7.791	
7,400.00	4,074.64	7,451.73	4,092.85	76.75	76.19	-90.904	-1,695.32	2,587.67	1,154.65	1,001.98	152.67	7.563	
7,500.00	4,074.03	7,551.73	4,092.17	78.99	78.42	-90.900	-1,766.39	2,658.02	1,154.64	997.50	157.15	7.347	
7,600.00	4,073.43	7,651.73	4,091.48	81.23	80.66	-90.896	-1,837.46	2,728.37	1,154.64	993.01	161.63	7.144	
7,700.00	4,072.83	7,751.73	4,090.80	83.48	82.90	-90.892	-1,908.53	2,798.71	1,154.64	988.52	166.13	6.950	
7,800.00	4,072.22	7,851.73	4,090.12	85.72	85.15	-90.888	-1,979.60	2,869.06	1,154.64	984.02	170.62	6.767	
7,900.00	4,071.62	7,951.73	4,089.44	87.97	87.40	-90.884	-2,050.67	2,939.40	1,154.64	979.52	175.12	6.593	
8,000.00	4,071.02	8,051.73	4,088.76	90.23	89.64	-90.880	-2,121.74	3,009.75	1,154.64	975.01	179.63	6.428	
8,100.00	4,070.41	8,151.73	4,088.07	92.48	91.89	-90.877	-2,192.81	3,080.10	1,154.63	970.50	184.13	6.271	
8,200.00	4,069.81	8,251.73	4,087.39	94.73	94.15	-90.873	-2,263.88	3,150.44	1,154.63	965.99	188.64	6.121	
8,300.00	4,069.21	8,351.73	4,086.71	96.99	96.40	-90.869	-2,334.95	3,220.79	1,154.63	961.47	193.16	5.978	
8,400.00	4,068.60	8,451.72	4,086.03	99.25	98.66	-90.865	-2,406.02	3,291.14	1,154.63	956.95	197.68	5.841	
8,500.00	4,068.00	8,551.72	4,085.35	101.51	100.92	-90.861	-2,477.09	3,361.48	1,154.63	952.43	202.20	5.710	
8,600.00	4,067.40	8,651.72	4,084.66	103.77	103.17	-90.857	-2,548.16	3,431.83	1,154.63	947.91	206.72	5.585	
8,700.00	4,066.79	8,751.72	4,083.98	106.03	105.43	-90.853	-2,619.23	3,502.17	1,154.63	943.38	211.25	5.466	
8,800.00	4,066.19	8,851.72	4,083.30	108.30	107.70	-90.849	-2,690.30	3,572.52	1,154.62	938.85	215.77	5.351	
8,900.00	4,065.59	8,951.72	4,082.62	110.56	109.96	-90.845	-2,761.37	3,642.87	1,154.62	934.32	220.30	5.241	
9,000.00	4,064.98	9,051.72	4,081.94	112.83	112.22	-90.841	-2,832.44	3,713.21	1,154.62	929.79	224.83	5.135	
9,100.00	4,064.38	9,151.72	4,081.25	115.09	114.49	-90.837	-2,903.51	3,783.56	1,154.62	925.25	229.37	5.034	
9,200.00	4,063.78	9,251.72	4,080.57	117.36	116.75	-90.834	-2,974.58	3,853.91	1,154.62	920.71	233.90	4.936	
9,300.00	4,063.17	9,351.72	4,079.89	119.63	119.02	-90.830	-3,045.65	3,924.25	1,154.62	916.17	238.44	4.842	
9,400.00	4,062.57	9,451.72	4,079.21	121.90	121.29	-90.826	-3,116.72	3,994.60	1,154.61	911.63	242.98	4.752	
9,500.00	4,061.97	9,551.72	4,078.53	124.17	123.55	-90.822	-3,187.79	4,064.94	1,154.61	907.09	247.52	4.665	
9,600.00	4,061.36	9,651.72	4,077.84	126.44	125.82	-90.818	-3,258.86	4,135.29	1,154.61	902.55	252.06	4.581	
9,700.00	4,060.76	9,751.72	4,077.16	128.71	128.09	-90.814	-3,329.93	4,205.64	1,154.61	898.01	256.60	4.500	
9,800.00	4,060.16	9,851.72	4,076.48	130.98	130.36	-90.810	-3,401.00	4,275.98	1,154.61	893.46	261.15	4.421	
9,900.00	4,059.55	9,951.72	4,075.80	133.25	132.63	-90.806	-3,472.07	4,346.33	1,154.61	888.91	265.69	4.346	

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

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 45H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,000.00	4,058.95	10,051.72	4,075.12	135.53	134.91	-90.802	-3,543.14	4,416.68	1,154.60	884.37	270.24	4.273	
10,100.00	4,058.35	10,151.72	4,074.43	137.80	137.18	-90.798	-3,614.21	4,487.02	1,154.60	879.82	274.79	4.202	
10,200.00	4,057.74	10,251.72	4,073.75	140.08	139.45	-90.795	-3,685.28	4,557.37	1,154.60	875.27	279.34	4.133	
10,300.00	4,057.14	10,351.72	4,073.07	142.35	141.73	-90.791	-3,756.35	4,627.71	1,154.60	870.72	283.89	4.067	
10,400.00	4,056.54	10,451.72	4,072.39	144.63	144.00	-90.787	-3,827.42	4,698.06	1,154.60	866.16	288.44	4.003	
10,500.00	4,055.93	10,551.72	4,071.71	146.90	146.27	-90.783	-3,898.49	4,768.41	1,154.60	861.61	292.99	3.941	
10,600.00	4,055.33	10,651.72	4,071.02	149.18	148.55	-90.779	-3,969.56	4,838.75	1,154.60	857.06	297.54	3.880	
10,700.00	4,054.73	10,751.72	4,070.34	151.45	150.82	-90.775	-4,040.63	4,909.10	1,154.59	852.50	302.09	3.822	
10,800.00	4,054.12	10,851.72	4,069.66	153.73	153.10	-90.771	-4,111.70	4,979.45	1,154.59	847.95	306.65	3.765	
10,900.00	4,053.52	10,951.72	4,068.98	156.01	155.38	-90.767	-4,182.77	5,049.79	1,154.59	843.39	311.20	3.710	
11,000.00	4,052.92	11,051.72	4,068.30	158.29	157.65	-90.763	-4,253.84	5,120.14	1,154.59	838.83	315.76	3.657	
11,100.00	4,052.31	11,151.72	4,067.61	160.56	159.93	-90.759	-4,324.91	5,190.48	1,154.59	834.28	320.31	3.605	
11,200.00	4,051.71	11,251.72	4,066.93	162.84	162.21	-90.755	-4,395.98	5,260.83	1,154.59	829.72	324.87	3.554	
11,300.00	4,051.11	11,351.72	4,066.25	165.12	164.48	-90.752	-4,467.05	5,331.18	1,154.59	825.16	329.43	3.505	
11,400.00	4,050.50	11,451.72	4,065.57	167.40	166.76	-90.748	-4,538.12	5,401.52	1,154.58	820.60	333.98	3.457	
11,500.00	4,049.90	11,551.72	4,064.89	169.68	169.04	-90.744	-4,609.19	5,471.87	1,154.58	816.04	338.54	3.410	
11,600.00	4,049.30	11,651.72	4,064.20	171.96	171.32	-90.740	-4,680.26	5,542.22	1,154.58	811.48	343.10	3.365	
11,700.00	4,048.69	11,751.72	4,063.52	174.24	173.60	-90.736	-4,751.33	5,612.56	1,154.58	806.92	347.66	3.321	
11,800.00	4,048.09	11,851.72	4,062.84	176.52	175.88	-90.732	-4,822.40	5,682.91	1,154.58	802.36	352.22	3.278	
11,900.00	4,047.49	11,951.72	4,062.16	178.80	178.16	-90.728	-4,893.47	5,753.25	1,154.58	797.80	356.78	3.236	
12,000.00	4,046.88	12,051.72	4,061.48	181.08	180.44	-90.724	-4,964.54	5,823.60	1,154.58	793.23	361.34	3.195	
12,100.00	4,046.28	12,151.72	4,060.79	183.36	182.72	-90.720	-5,035.61	5,893.95	1,154.57	788.67	365.90	3.155	
12,200.00	4,045.68	12,251.72	4,060.11	185.64	185.00	-90.716	-5,106.68	5,964.29	1,154.57	784.11	370.47	3.117	
12,300.00	4,045.07	12,351.72	4,059.43	187.92	187.28	-90.713	-5,177.75	6,034.64	1,154.57	779.54	375.03	3.079	
12,400.00	4,044.47	12,451.72	4,058.75	190.20	189.56	-90.709	-5,248.82	6,104.99	1,154.57	774.98	379.59	3.042	
12,500.00	4,043.87	12,551.72	4,058.07	192.48	191.84	-90.705	-5,319.89	6,175.33	1,154.57	770.41	384.15	3.005	
12,600.00	4,043.26	12,651.72	4,057.38	194.77	194.12	-90.701	-5,390.96	6,245.68	1,154.57	765.85	388.72	2.970	
12,700.00	4,042.66	12,751.72	4,056.70	197.05	196.40	-90.697	-5,462.03	6,316.02	1,154.57	761.28	393.28	2.936	
12,800.00	4,042.06	12,851.72	4,056.02	199.33	198.68	-90.693	-5,533.10	6,386.37	1,154.56	756.72	397.85	2.902	
12,900.00	4,041.45	12,951.72	4,055.34	201.61	200.97	-90.689	-5,604.17	6,456.72	1,154.56	752.15	402.41	2.869	
12,974.92	4,041.00	13,026.65	4,054.83	203.32	202.67	-90.686	-5,657.42	6,509.42	1,154.56	748.73	405.83	2.845 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 43H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6640+23.5 @ 6663.50ft
Reference Site:	Greater Lybrook Unit 730 (43,44,45,46&47)	MD Reference:	RKB=6640+23.5 @ 6663.50ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Greater Lybrook Unit 43H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Jul1724_v17
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 46H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Rule Assigned:												Warning	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.530	60.06	0.56	60.07				
100.00	100.00	100.00	100.00	0.27	0.27	0.530	60.06	0.56	60.07	59.52	0.55	109.518	
200.00	200.00	200.00	200.00	0.63	0.63	0.530	60.06	0.56	60.07	58.80	1.27	47.468	
300.00	300.00	300.00	300.00	0.99	0.99	0.530	60.06	0.56	60.07	58.08	1.98	30.301	
400.00	400.00	400.00	400.00	1.35	1.35	0.530	60.06	0.56	60.07	57.37	2.70	22.253	
500.00	500.00	500.00	500.00	1.71	1.71	0.530	60.06	0.56	60.07	56.65	3.42	17.583	
600.00	600.00	600.00	600.00	2.07	2.07	0.530	60.06	0.56	60.07	55.93	4.13	14.533	
700.00	700.00	700.00	700.00	2.43	2.43	0.530	60.06	0.56	60.07	55.22	4.85	12.385 CC, ES	
800.00	800.00	797.13	797.09	2.78	2.77	1.467	62.30	1.60	62.39	56.84	5.55	11.234	
900.00	900.00	893.76	893.43	3.14	3.12	3.891	68.97	4.69	69.44	63.20	6.25	11.117 SF	
1,000.00	1,000.00	989.41	988.30	3.50	3.47	6.971	79.91	9.77	81.35	74.43	6.92	11.753	
1,100.00	1,099.95	1,083.31	1,080.74	3.85	3.83	108.398	94.83	16.70	99.00	91.43	7.57	13.083	
1,200.00	1,199.63	1,174.34	1,169.48	4.20	4.21	113.284	113.22	25.23	123.72	115.54	8.18	15.124	
1,300.00	1,298.77	1,261.61	1,253.55	4.55	4.60	117.817	134.42	35.08	156.08	147.30	8.78	17.781	
1,400.00	1,397.08	1,344.41	1,332.25	4.93	5.00	121.479	157.74	45.90	196.10	186.76	9.34	20.996	
1,500.00	1,494.31	1,424.96	1,407.74	5.34	5.42	124.338	183.24	57.74	243.34	233.40	9.94	24.475	
1,600.00	1,590.18	1,509.00	1,486.19	5.79	5.88	126.825	210.57	70.43	295.06	284.41	10.65	27.718	
1,700.00	1,684.43	1,590.57	1,562.33	6.30	6.35	128.797	237.09	82.75	350.36	338.99	11.36	30.834	
1,800.00	1,777.16	1,669.93	1,636.42	6.87	6.82	131.235	262.90	94.73	408.73	396.64	12.09	33.800	
1,900.00	1,869.71	1,749.05	1,710.28	7.48	7.30	133.648	288.63	106.67	467.99	455.16	12.82	36.494	
2,000.00	1,962.27	1,828.18	1,784.14	8.11	7.78	135.532	314.36	118.62	527.68	514.11	13.57	38.897	
2,100.00	2,054.82	1,907.30	1,858.00	8.77	8.27	137.041	340.09	130.57	587.67	573.35	14.32	41.044	
2,200.00	2,147.38	1,986.42	1,931.87	9.44	8.77	138.275	365.82	142.51	647.88	632.80	15.08	42.963	
2,300.00	2,239.93	2,065.54	2,005.73	10.13	9.27	139.302	391.55	154.46	708.24	692.40	15.85	44.687	
2,400.00	2,332.49	2,144.67	2,079.59	10.83	9.77	140.169	417.28	166.40	768.74	752.11	16.62	46.241	
2,500.00	2,425.05	2,223.79	2,153.45	11.53	10.28	140.912	443.01	178.35	829.33	811.92	17.41	47.647	
2,600.00	2,517.60	2,302.91	2,227.32	12.25	10.79	141.554	468.74	190.30	889.99	871.80	18.19	48.922	
2,700.00	2,610.16	2,382.03	2,301.18	12.97	11.31	142.115	494.47	202.24	950.72	931.74	18.98	50.081	
2,800.00	2,702.72	2,461.16	2,375.05	13.69	11.82	142.710	520.20	214.19	1,011.49	991.72	19.78	51.141	
2,900.00	2,796.36	2,541.84	2,450.36	14.38	12.35	144.329	546.43	226.37	1,070.38	1,049.81	20.57	52.034	
3,000.00	2,891.70	2,625.06	2,528.04	15.01	12.89	145.574	573.49	238.93	1,125.79	1,104.43	21.36	52.707	
3,100.00	2,988.50	2,710.59	2,607.89	15.56	13.45	146.507	601.31	251.85	1,177.55	1,155.41	22.14	53.176	
3,200.00	3,086.47	2,798.21	2,689.68	16.05	14.03	147.175	629.80	265.08	1,225.54	1,202.62	22.92	53.464	
3,300.00	3,185.35	2,887.67	2,773.20	16.47	14.62	147.613	658.89	278.58	1,269.66	1,245.96	23.69	53.591	
3,400.00	3,284.87	2,978.72	2,858.20	16.82	15.22	147.848	688.50	292.33	1,309.82	1,285.37	24.45	53.577	
3,500.00	3,384.77	3,071.12	2,944.46	17.12	15.84	147.901	718.55	306.28	1,345.97	1,320.79	25.19	53.440	
3,600.00	3,484.76	3,164.42	3,031.55	17.37	16.46	49.938	748.89	320.37	1,379.01	1,353.09	25.91	53.217	
3,700.00	3,584.62	3,257.16	3,118.13	17.59	17.07	-83.863	779.05	334.37	1,411.65	1,385.04	26.61	53.052	
3,800.00	3,682.46	3,346.00	3,201.06	17.75	17.66	-81.882	807.93	347.78	1,443.09	1,415.89	27.20	53.054	
3,900.00	3,775.34	3,428.11	3,277.71	17.85	18.21	-80.448	834.64	360.18	1,473.38	1,445.67	27.70	53.183	

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

Offset Design: Greater Lybrook Unit 730 (43,44,45,46&47) - Greater Lybrook Unit 47H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.389	80.08	0.54	80.09				
100.00	100.00	100.00	100.00	0.27	0.27	0.389	80.08	0.54	80.09	79.54	0.55	146.021	
200.00	200.00	200.00	200.00	0.63	0.63	0.389	80.08	0.54	80.09	78.82	1.27	63.289	
300.00	300.00	300.00	300.00	0.99	0.99	0.389	80.08	0.54	80.09	78.10	1.98	40.400	
400.00	400.00	400.00	400.00	1.35	1.35	0.389	80.08	0.54	80.09	77.39	2.70	29.670	
500.00	500.00	500.00	500.00	1.71	1.71	0.389	80.08	0.54	80.09	76.67	3.42	23.443 CC, ES	
600.00	600.00	596.44	596.39	2.07	2.05	1.253	82.17	1.80	82.27	78.15	4.12	19.970	
700.00	700.00	692.38	692.06	2.43	2.40	3.581	88.38	5.53	88.91	84.09	4.82	18.454	
800.00	800.00	787.36	786.28	2.78	2.75	6.747	98.58	11.66	100.21	94.70	5.51	18.203 SF	
900.00	900.00	880.94	878.41	3.14	3.12	10.104	112.54	20.05	116.33	110.15	6.18	18.833	
1,000.00	1,000.00	972.69	967.88	3.50	3.51	13.220	129.96	30.53	137.31	130.48	6.83	20.109	
1,100.00	1,099.95	1,061.80	1,053.73	3.85	3.92	113.454	150.39	42.81	164.07	156.62	7.45	22.028	
1,200.00	1,199.63	1,147.10	1,134.79	4.20	4.35	116.496	173.14	56.49	197.81	189.78	8.03	24.621	
1,300.00	1,298.77	1,227.87	1,210.38	4.55	4.80	119.290	197.52	71.15	238.70	230.11	8.59	27.789	
1,400.00	1,397.08	1,300.00	1,276.81	4.93	5.23	121.397	221.59	85.62	286.62	277.54	9.08	31.558	
1,500.00	1,494.31	1,373.85	1,343.68	5.34	5.73	123.252	248.45	101.77	341.14	331.49	9.65	35.353	
1,600.00	1,590.18	1,438.50	1,401.18	5.79	6.18	124.333	273.76	116.98	401.84	391.68	10.15	39.571	
1,700.00	1,684.43	1,502.38	1,457.07	6.30	6.65	125.061	300.27	132.92	468.00	457.30	10.71	43.708	
1,800.00	1,777.16	1,571.81	1,517.61	6.87	7.19	127.063	329.41	150.44	537.29	525.91	11.38	47.216	
1,900.00	1,869.71	1,640.96	1,577.90	7.48	7.74	129.432	358.43	167.89	607.41	595.36	12.05	50.393	
2,000.00	1,962.27	1,710.11	1,638.20	8.11	8.30	131.332	387.44	185.33	677.97	665.23	12.74	53.216	
2,100.00	2,054.82	1,779.26	1,698.49	8.77	8.86	132.888	416.46	202.78	748.86	735.42	13.44	55.721	
2,200.00	2,147.38	1,848.41	1,758.79	9.44	9.43	134.183	445.48	220.22	819.98	805.83	14.15	57.956	
2,300.00	2,239.93	1,917.56	1,819.08	10.13	10.00	135.277	474.50	237.67	891.27	876.41	14.86	59.959	
2,400.00	2,332.49	1,986.71	1,879.38	10.83	10.58	136.212	503.52	255.12	962.71	947.12	15.59	61.756	
2,500.00	2,425.05	2,055.87	1,939.67	11.53	11.16	137.021	532.53	272.56	1,034.26	1,017.94	16.32	63.374	
2,600.00	2,517.60	2,125.02	1,999.97	12.25	11.75	137.726	561.55	290.01	1,105.90	1,088.84	17.06	64.840	
2,700.00	2,610.16	2,194.17	2,060.26	12.97	12.33	138.348	590.57	307.45	1,177.61	1,159.82	17.80	66.170	
2,800.00	2,702.72	2,263.33	2,120.56	13.69	12.92	139.047	619.59	324.90	1,249.38	1,230.83	18.54	67.381	
2,900.00	2,796.36	2,334.28	2,182.43	14.38	13.53	141.315	649.37	342.80	1,319.57	1,300.29	19.29	68.418	
3,000.00	2,891.70	2,408.23	2,246.91	15.01	14.16	143.138	680.40	361.46	1,386.82	1,366.79	20.03	69.231	
3,100.00	2,988.50	2,484.97	2,313.82	15.56	14.82	144.589	712.60	380.82	1,450.91	1,430.14	20.78	69.827	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 730H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 401-MWD, 2583-MWD, 12844-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		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	
0.00	0.00	5.52	5.52	0.00	0.01	30.845	59.72	35.66	69.56				
100.00	100.00	105.81	105.81	0.27	0.18	30.817	59.54	35.51	69.33	68.87	0.45	153.694	
200.00	200.00	206.09	206.09	0.63	0.35	30.737	59.02	35.10	68.67	67.70	0.98	70.298	
300.00	300.00	306.37	306.36	0.99	0.51	30.603	58.18	34.41	67.60	66.10	1.50	44.990	
400.00	400.00	406.61	406.59	1.35	0.69	30.408	57.01	33.46	66.12	64.08	2.04	32.426	
500.00	500.00	506.31	506.28	1.71	1.05	30.243	55.91	32.59	64.72	61.96	2.75	23.493	
600.00	600.00	606.23	606.19	2.07	1.41	29.956	55.06	31.73	63.56	60.08	3.47	18.309	
700.00	700.00	706.09	706.04	2.43	1.77	29.835	54.29	31.13	62.58	58.40	4.19	14.945	
800.00	800.00	806.00	805.95	2.78	2.13	29.795	53.62	30.70	61.79	56.89	4.90	12.601	
900.00	900.00	905.99	905.95	3.14	2.48	29.832	52.98	30.38	61.08	55.46	5.62	10.867	
1,000.00	1,000.00	1,005.91	1,005.86	3.50	2.84	29.879	52.34	30.07	60.37	54.03	6.34	9.527	
1,017.30	1,017.30	1,023.18	1,023.13	3.56	2.90	127.447	52.27	30.01	60.32	53.86	6.46	9.339 CC, ES	
1,100.00	1,099.95	1,104.71	1,104.65	3.85	3.18	129.298	52.38	30.15	62.07	55.04	7.03	8.832 SF	
1,200.00	1,199.63	1,202.93	1,202.84	4.20	3.51	135.024	53.70	32.34	69.73	62.03	7.70	9.058	
1,300.00	1,298.77	1,299.04	1,298.81	4.55	3.83	142.771	55.44	37.16	84.33	75.97	8.36	10.084	
1,400.00	1,397.08	1,392.26	1,391.65	4.93	4.15	150.111	57.97	45.10	107.80	98.79	9.01	11.960	
1,500.00	1,494.31	1,481.94	1,480.62	5.34	4.46	156.064	60.78	56.00	140.34	130.70	9.64	14.554	
1,600.00	1,590.18	1,565.68	1,563.25	5.79	4.77	160.468	63.58	69.26	181.71	171.49	10.23	17.771	
1,700.00	1,684.43	1,641.29	1,637.20	6.30	5.06	163.754	65.89	84.78	232.20	221.46	10.74	21.624	
1,800.00	1,777.16	1,708.88	1,702.48	6.87	5.34	166.475	67.77	102.16	290.94	279.76	11.18	26.023	
1,900.00	1,869.71	1,772.49	1,763.11	7.48	5.62	168.650	69.57	121.31	353.98	342.41	11.57	30.594	
2,000.00	1,962.27	1,835.13	1,822.05	8.11	5.93	170.315	71.55	142.41	420.13	408.16	11.97	35.099	
2,100.00	2,054.82	1,896.32	1,879.07	8.77	6.25	171.556	73.91	164.48	488.45	476.07	12.38	39.466	
2,200.00	2,147.38	1,956.13	1,934.33	9.44	6.59	172.385	77.38	187.09	558.54	545.75	12.78	43.689	
2,300.00	2,239.93	2,011.16	1,984.73	10.13	6.93	172.864	81.88	208.73	630.23	617.08	13.15	47.915	
2,400.00	2,332.49	2,061.60	2,030.38	10.83	7.25	173.172	86.75	229.63	703.74	690.25	13.48	52.198	
2,500.00	2,425.05	2,110.87	2,074.44	11.53	7.59	173.390	92.09	251.03	778.89	765.07	13.81	56.384	
2,600.00	2,517.60	2,170.00	2,126.66	12.25	8.01	173.589	98.97	277.88	855.54	841.26	14.28	59.923	
2,700.00	2,610.16	2,213.69	2,164.95	12.97	8.35	173.714	104.20	298.27	933.00	918.43	14.57	64.028	
2,800.00	2,702.72	2,272.89	2,216.70	13.69	8.81	173.908	111.15	326.15	1,010.90	995.85	15.06	67.130	
2,900.00	2,796.36	2,342.83	2,277.89	14.38	9.37	174.405	119.26	359.04	1,086.83	1,071.17	15.66	69.410	
3,000.00	2,891.70	2,422.08	2,347.47	15.01	10.02	174.779	128.43	395.86	1,158.83	1,142.49	16.34	70.921	
3,100.00	2,988.50	2,503.32	2,419.12	15.56	10.70	175.051	137.83	432.98	1,226.48	1,209.45	17.03	72.038	
3,200.00	3,086.47	2,598.35	2,503.30	16.05	11.27	175.255	148.62	475.73	1,289.58	1,271.96	17.62	73.183	
3,300.00	3,185.35	2,708.78	2,602.22	16.47	11.75	175.364	161.28	523.15	1,346.63	1,328.50	18.14	74.251	
3,400.00	3,284.87	2,790.11	2,675.35	16.82	12.13	175.525	168.96	557.91	1,398.83	1,380.37	18.45	75.802	
3,500.00	3,384.77	2,867.00	2,744.24	17.12	12.53	175.672	175.81	591.36	1,447.12	1,428.38	18.74	77.225	
3,600.00	3,484.76	2,953.24	2,821.32	17.37	13.01	175.811	183.83	629.19	1,492.23	1,473.13	19.10	78.135	
4,900.00	4,089.73	3,767.20	3,555.15	23.95	18.31	-68.830	256.31	973.71	1,496.92	1,462.32	34.59	43.271	
4,991.34	4,089.18	3,792.90	3,578.42	25.57	18.50	-69.785	258.40	984.42	1,494.09	1,457.18	36.91	40.477	
5,000.00	4,089.12	3,795.43	3,580.71	25.73	18.52	-69.874	258.60	985.47	1,493.81	1,456.67	37.13	40.229	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 763H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2584-MWD, 13747-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		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	
0.00	0.00	5.51	5.51	0.00	0.01	60.927	19.68	35.39	40.49				
100.00	100.00	105.64	105.64	0.27	0.18	61.027	19.53	35.26	40.31	39.86	0.45	89.238	
200.00	200.00	205.77	205.77	0.63	0.35	61.314	19.10	34.91	39.79	38.81	0.98	40.677	
300.00	300.00	305.90	305.89	0.99	0.51	61.802	18.40	34.32	38.94	37.44	1.50	25.881	
400.00	400.00	406.02	406.00	1.35	0.68	62.516	17.43	33.50	37.77	35.74	2.03	18.594	
500.00	500.00	506.01	505.98	1.71	0.99	62.959	16.54	32.40	36.38	33.68	2.70	13.476	
600.00	600.00	605.91	605.88	2.07	1.35	63.279	15.84	31.47	35.24	31.82	3.42	10.316	
700.00	700.00	705.93	705.89	2.43	1.71	63.347	15.27	30.41	34.03	29.90	4.13	8.236	
800.00	800.00	805.84	805.80	2.78	2.07	63.397	14.82	29.59	33.09	28.24	4.85	6.825	
900.00	900.00	905.71	905.66	3.14	2.43	63.665	14.30	28.90	32.24	26.68	5.56	5.796	
1,000.00	1,000.00	1,005.67	1,005.62	3.50	2.78	63.857	14.09	28.71	31.98	25.70	6.28	5.096	
1,008.40	1,008.40	1,014.08	1,014.03	3.53	2.81	161.374	14.09	28.67	31.96	25.63	6.33	5.046 CC, ES	
1,100.00	1,099.95	1,105.70	1,105.65	3.85	3.13	162.417	14.05	28.14	33.94	26.96	6.98	4.863 SF	
1,200.00	1,199.63	1,205.52	1,205.47	4.20	3.49	165.724	13.74	27.53	40.80	33.12	7.68	5.313	
1,300.00	1,298.77	1,304.15	1,304.09	4.55	3.83	169.248	13.48	27.22	53.17	44.80	8.37	6.353	
1,400.00	1,397.08	1,401.96	1,401.90	4.93	4.16	171.530	14.09	27.76	71.85	62.81	9.05	7.944	
1,500.00	1,494.31	1,498.85	1,498.78	5.34	4.48	173.173	14.87	28.58	95.99	86.27	9.72	9.875	
1,600.00	1,590.18	1,594.63	1,594.56	5.79	4.80	174.516	15.34	29.44	125.19	114.80	10.40	12.041	
1,700.00	1,684.43	1,685.97	1,685.88	6.30	5.11	175.881	14.82	31.06	159.99	148.93	11.06	14.465	
1,800.00	1,777.16	1,771.53	1,771.26	6.87	5.41	177.909	11.32	35.16	201.06	189.37	11.69	17.199	
1,900.00	1,869.71	1,853.61	1,852.75	7.48	5.70	-179.749	4.62	42.24	245.66	233.38	12.28	20.004	
2,000.00	1,962.27	1,934.57	1,932.58	8.11	5.99	-177.444	-4.66	51.90	293.20	280.33	12.87	22.786	
2,100.00	2,054.82	2,011.52	2,007.86	8.77	6.28	-175.272	-16.14	62.95	343.07	329.65	13.43	25.551	
2,200.00	2,147.38	2,075.00	2,069.30	9.44	6.53	-173.535	-27.39	74.25	396.43	382.58	13.84	28.637	
2,300.00	2,239.93	2,146.70	2,137.78	10.13	6.83	-171.648	-42.01	89.63	453.17	438.80	14.37	31.529	
2,400.00	2,332.49	2,207.58	2,195.06	10.83	7.11	-170.141	-55.86	104.90	513.31	498.52	14.79	34.713	
2,500.00	2,425.05	2,264.00	2,247.46	11.53	7.39	-168.910	-69.16	121.02	576.63	561.47	15.16	38.042	
2,600.00	2,517.60	2,330.22	2,308.36	12.25	7.74	-167.653	-85.22	141.48	642.09	626.41	15.68	40.939	
2,700.00	2,610.16	2,400.82	2,372.94	12.97	8.14	-166.512	-102.60	164.08	708.63	692.35	16.29	43.508	
2,800.00	2,702.72	2,478.70	2,444.31	13.69	8.55	-165.553	-121.39	188.98	775.23	758.28	16.95	45.727	
2,900.00	2,796.36	2,564.84	2,523.43	14.38	8.91	-165.165	-142.52	215.67	839.01	821.41	17.60	47.664	
3,000.00	2,891.70	2,654.80	2,606.32	15.01	9.19	-164.708	-164.99	242.47	898.01	879.85	18.16	49.461	
3,100.00	2,988.50	2,749.05	2,693.57	15.56	9.49	-164.230	-188.13	269.56	952.04	933.34	18.71	50.885	
3,200.00	3,086.47	2,852.85	2,790.33	16.05	9.85	-163.710	-212.44	298.20	1,000.71	981.37	19.34	51.735	
3,300.00	3,185.35	2,922.28	2,855.16	16.47	10.12	-163.486	-228.52	317.17	1,044.86	1,025.19	19.67	53.129	
3,400.00	3,284.87	2,987.52	2,915.35	16.82	10.39	-163.206	-244.83	336.32	1,086.83	1,066.90	19.93	54.537	
3,500.00	3,384.77	3,109.57	3,028.16	17.12	10.96	-162.322	-274.93	371.86	1,124.20	1,103.46	20.74	54.210	
3,600.00	3,484.76	3,271.29	3,180.51	17.37	11.68	-161.387	-308.97	413.95	1,154.59	1,132.74	21.85	52.835	
3,700.00	3,584.62	3,367.92	3,258.91	17.59	12.55	-160.593	-336.50	-193.30	1,138.34	1,112.75	25.59	44.481	
3,800.00	3,682.46	3,530.53	3,428.56	17.75	13.22	-159.825	-363.87	-181.35	1,058.51	1,031.88	26.63	39.750	
3,900.00	3,775.34	3,616.96	3,509.88	17.85	13.66	-159.175	-391.54	-158.23	985.31	957.78	27.54	35.782	
4,000.00	3,860.42	3,698.17	3,586.87	17.92	14.03	-158.527	-419.27	-124.53	921.05	892.78	28.27	32.581	
4,100.00	3,935.13	3,775.77	3,665.64	17.97	14.41	-157.880	-447.00	-81.32	867.36	838.54	28.82	30.093	
4,200.00	3,997.20	3,852.10	3,741.16	18.03	14.84	-157.233	-474.73	-24.74	824.99	795.91	29.09	28.363	
4,300.00	4,044.74	3,924.08	3,813.32	18.11	15.24	-156.586	-502.46	44.58	792.31	763.14	29.17	27.161	
4,400.00	4,076.30	3,991.95	3,881.88	18.30	15.68	-155.939	-530.19	129.21	769.30	740.17	29.13	26.413	
4,500.00	4,090.94	4,063.24	3,953.23	18.72	16.16	-155.292	-557.92	287.45	743.54	714.19	29.36	25.327	
4,600.00	4,091.57	4,120.07	4,010.58	19.54	16.68	-154.645	-585.65	370.85	715.91	684.89	31.01	23.084	
4,700.00	4,090.96	4,173.27	4,063.15	20.77	17.24	-153.998	-613.38	440.52	682.02	648.81	33.21	20.537	
4,800.00	4,090.34	4,226.83	4,116.23	22.28	17.89	-153.351	-641.11	465.85	649.49	614.03	35.47	18.313	
4,900.00	4,089.73	4,280.91	4,170.13	23.95	18.58	-152.704	-668.84	486.23	625.43	587.71	37.71	16.584	
5,000.00	4,089.12	4,335.12	4,224.16	25.73	19.32	-152.057	-696.57	499.47	612.88	573.18	39.69	15.440	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 763H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2584-MWD, 13747-MWD												Offset Well Error:	0.00 ft
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)			
5,028.32	4,088.95	4,183.28	4,069.91	26.25	14.07	-87.703	-369.19	501.71	612.16	571.98	40.18	15.234	
5,100.00	4,088.51	4,163.51	4,051.19	27.58	14.09	-85.939	-373.91	505.93	616.83	575.62	41.21	14.967	
5,200.00	4,087.91	4,145.00	4,033.47	29.47	14.11	-84.229	-377.90	509.51	638.80	596.70	42.10	15.175	
5,300.00	4,087.31	4,125.02	4,014.17	31.41	14.12	-82.418	-381.71	512.97	676.00	633.67	42.33	15.970	
5,400.00	4,086.70	4,113.00	4,002.47	33.39	14.13	-81.331	-383.75	514.83	724.67	682.54	42.14	17.199	
5,500.00	4,086.10	4,098.54	3,988.33	35.42	14.14	-80.025	-385.97	516.86	782.77	741.13	41.64	18.799	
5,600.00	4,085.50	4,082.00	3,972.08	37.47	14.14	-78.535	-388.25	518.94	848.47	807.49	40.98	20.704	
5,700.00	4,084.89	4,082.00	3,972.08	39.55	14.14	-78.535	-388.25	518.94	920.10	879.76	40.34	22.809	
5,800.00	4,084.29	4,071.84	3,962.05	41.65	14.14	-77.624	-389.49	520.07	996.51	956.85	39.66	25.128	
5,900.00	4,083.69	4,065.57	3,955.86	43.77	14.14	-77.064	-390.18	520.71	1,076.69	1,037.67	39.02	27.592	
6,000.00	4,083.08	4,050.00	3,940.42	45.91	14.14	-75.680	-391.70	522.11	1,160.01	1,121.60	38.41	30.202	
6,100.00	4,082.48	4,050.00	3,940.42	48.06	14.14	-75.680	-391.70	522.11	1,245.52	1,207.64	37.89	32.873	
6,200.00	4,081.88	4,050.00	3,940.42	50.22	14.14	-75.680	-391.70	522.11	1,333.06	1,295.64	37.42	35.628	
6,300.00	4,081.27	4,050.00	3,940.42	52.39	14.14	-75.680	-391.70	522.11	1,422.24	1,385.25	36.99	38.450	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 830H - Original Hole - Surveys Original Hole													Offset Site Error:	0.00 ft
Survey Program:		431-MWD, 2554-MWD, 12753-MWD					Rule Assigned:						Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor		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	Warning	
0.00	0.00	5.50	5.50	0.00	0.01	41.708	39.70	35.38	53.18					
100.00	100.00	105.51	105.51	0.27	0.18	41.539	39.80	35.26	53.17	52.72	0.45	117.825		
200.00	200.00	205.52	205.52	0.63	0.34	41.064	40.07	34.91	53.14	52.17	0.98	54.367		
300.00	300.00	305.52	305.52	0.99	0.51	40.284	40.52	34.34	53.11	51.61	1.50	35.320		
400.00	400.00	405.52	405.51	1.35	0.68	39.197	41.14	33.55	53.08	51.05	2.03	26.150		
500.00	500.00	505.61	505.59	1.71	0.99	37.953	41.80	32.60	53.01	50.31	2.70	19.641		
600.00	600.00	605.66	605.63	2.07	1.35	36.457	42.44	31.36	52.77	49.35	3.42	15.447		
700.00	700.00	705.68	705.66	2.43	1.71	35.581	42.75	30.59	52.57	48.43	4.13	12.721		
800.00	800.00	805.86	805.83	2.78	2.07	34.869	42.71	29.76	52.06	47.21	4.85	10.739		
900.00	900.00	905.97	905.93	3.14	2.42	33.395	42.88	28.27	51.36	45.79	5.56	9.230		
1,000.00	1,000.00	1,005.93	1,005.87	3.50	2.78	31.360	43.12	26.28	50.49	44.21	6.28	8.039		
1,019.90	1,019.90	1,025.80	1,025.73	3.57	2.85	128.554	43.19	25.89	50.42	44.00	6.42	7.851 CC, ES		
1,100.00	1,099.95	1,105.78	1,105.70	3.85	3.14	129.092	43.57	24.41	51.55	44.57	6.99	7.376		
1,200.00	1,199.63	1,205.61	1,205.52	4.20	3.50	133.724	43.91	22.92	56.21	48.52	7.69	7.308 SF		
1,300.00	1,298.77	1,304.54	1,304.44	4.55	3.85	141.022	44.04	21.92	65.32	56.92	8.40	7.779		
1,400.00	1,397.08	1,402.18	1,402.08	4.93	4.19	149.154	43.82	22.21	80.45	71.37	9.09	8.854		
1,500.00	1,494.31	1,497.06	1,496.87	5.34	4.50	157.425	41.79	25.36	103.04	93.29	9.75	10.569		
1,600.00	1,590.18	1,586.66	1,586.21	5.79	4.80	164.073	38.87	31.55	134.66	124.29	10.38	12.978		
1,700.00	1,684.43	1,669.15	1,668.11	6.30	5.07	168.715	36.18	40.90	176.17	165.23	10.94	16.097		
1,800.00	1,777.16	1,745.15	1,742.99	6.87	5.34	172.269	33.12	53.53	226.70	215.24	11.45	19.793		
1,900.00	1,869.71	1,816.80	1,812.81	7.48	5.60	175.119	28.96	69.00	282.05	270.14	11.90	23.692		
2,000.00	1,962.27	1,886.00	1,879.55	8.11	5.87	177.253	24.59	86.73	341.08	328.73	12.34	27.632		
2,100.00	2,054.82	1,950.33	1,940.96	8.77	6.15	178.819	20.41	105.46	403.22	390.48	12.75	31.631		
2,200.00	2,147.38	2,010.88	1,998.10	9.44	6.43	-179.969	16.33	125.02	468.15	455.04	13.11	35.708		
2,300.00	2,239.93	2,075.00	2,057.78	10.13	6.74	-178.897	11.92	148.05	535.92	522.36	13.56	39.533		
2,400.00	2,332.49	2,117.13	2,096.43	10.83	6.98	-178.295	9.04	164.56	606.14	592.41	13.73	44.136		
2,500.00	2,425.05	2,170.00	2,144.21	11.53	7.28	-177.649	5.60	186.92	678.99	664.92	14.07	48.253		
2,600.00	2,517.60	2,221.10	2,189.88	12.25	7.61	-177.111	2.30	209.61	753.45	739.05	14.41	52.298		
2,700.00	2,610.16	2,283.51	2,245.41	12.97	8.02	-176.539	-1.84	237.80	828.61	813.71	14.90	55.598		
2,800.00	2,702.72	2,358.45	2,312.25	13.69	8.54	-175.990	-6.82	271.32	903.47	887.91	15.56	58.050		
2,900.00	2,796.36	2,432.27	2,378.35	14.38	9.08	-175.753	-11.66	303.82	975.82	959.63	16.19	60.262		
3,000.00	2,891.70	2,511.19	2,449.22	15.01	9.54	-175.538	-16.79	338.16	1,044.08	1,027.34	16.74	62.372		
3,100.00	2,988.50	2,593.35	2,523.22	15.56	9.90	-175.348	-21.95	373.48	1,108.02	1,090.83	17.19	64.465		
3,200.00	3,086.47	2,680.71	2,602.16	16.05	10.24	-175.193	-26.78	410.60	1,167.45	1,149.86	17.59	66.382		
3,300.00	3,185.35	2,772.34	2,685.24	16.47	10.63	-175.049	-31.45	448.97	1,222.08	1,204.07	18.02	67.827		
3,400.00	3,284.87	2,871.17	2,775.19	16.82	11.09	-174.893	-36.21	489.62	1,271.59	1,253.09	18.50	68.725		
3,500.00	3,384.77	2,971.39	2,866.80	17.12	11.59	-174.742	-40.67	530.01	1,315.72	1,296.72	19.00	69.252		
3,600.00	3,484.76	3,078.68	2,965.32	17.37	12.15	87.958	-44.86	572.28	1,355.28	1,335.74	19.55	69.338		
3,700.00	3,584.62	3,184.00	3,114.23	17.59	12.19	-92.717	758.30	188.97	1,319.89	1,286.25	33.64	39.238		
3,800.00	3,682.46	3,288.61	3,213.73	17.75	20.74	-95.372	740.16	206.72	1,283.89	1,249.77	34.12	37.625		
3,900.00	3,775.34	3,388.94	3,313.31	17.85	20.35	-97.299	724.85	222.05	1,256.16	1,221.63	34.53	36.383		
4,000.00	3,860.42	3,480.00	3,412.40	17.92	19.51	-97.376	692.26	255.82	1,237.28	1,202.97	34.32	36.054		
4,100.00	3,935.13	3,574.08	3,506.50	17.97	18.72	-96.892	660.69	289.16	1,226.31	1,192.22	34.09	35.974		
4,200.00	3,997.20	3,674.06	3,606.34	18.03	17.13	-94.474	591.23	361.09	1,220.88	1,187.94	32.95	37.055		
4,300.00	4,044.74	3,774.16	3,706.81	18.11	15.76	-92.171	515.45	436.20	1,217.44	1,185.45	31.99	38.058		
4,400.00	4,076.30	3,871.72	3,804.26	18.30	15.06	-89.803	441.83	508.05	1,215.61	1,184.12	31.50	38.596		
4,484.85	4,089.83	4,435.29	4,054.30	18.63	14.93	-88.058	390.21	557.47	1,215.01	1,183.41	31.61	38.441		
4,500.00	4,090.94	4,423.76	4,049.48	18.72	14.92	-87.792	382.64	564.71	1,215.04	1,183.32	31.72	38.305		
4,600.00	4,091.57	4,439.19	4,009.43	19.54	14.95	-85.867	329.02	616.34	1,215.89	1,183.51	32.38	37.555		
4,700.00	4,090.96	3,999.64	3,801.41	20.77	15.44	-75.705	111.92	766.63	1,206.86	1,175.28	31.58	38.220		
4,800.00	4,090.34	3,883.81	3,709.05	22.28	15.50	-70.839	44.82	785.25	1,189.96	1,157.31	32.65	36.441		
4,900.00	4,089.73	3,863.00	3,691.57	23.95	15.49	-69.916	33.63	786.83	1,177.78	1,143.19	34.59	34.051		

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 830H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 431-MWD, 2554-MWD, 12753-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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	
4,998.28	4,089.13	3,832.00	3,664.80	25.69	15.48	-68.518	18.11	788.55	1,173.77	1,137.41	36.36	32.283	
5,000.00	4,089.12	3,832.00	3,664.80	25.73	15.48	-68.512	18.11	788.55	1,173.44	1,137.05	36.39	32.244	
5,100.00	4,088.51	3,832.00	3,664.80	27.58	15.48	-68.455	18.11	788.55	1,179.49	1,141.04	38.45	30.679	
5,200.00	4,087.91	3,811.26	3,646.39	29.47	15.48	-67.362	8.59	789.41	1,196.61	1,156.52	40.09	29.849	
5,300.00	4,087.31	3,797.01	3,633.54	31.41	15.47	-66.691	2.45	789.86	1,223.14	1,181.55	41.59	29.408	
5,400.00	4,086.70	3,769.00	3,608.00	33.39	15.45	-65.386	-9.03	789.81	1,256.56	1,213.87	42.70	29.429	
5,500.00	4,086.10	3,755.61	3,595.69	35.42	15.43	-64.757	-14.27	789.27	1,296.41	1,252.66	43.75	29.635	
5,600.00	4,085.50	3,737.00	3,578.47	37.47	15.41	-63.876	-21.20	787.95	1,342.32	1,297.82	44.50	30.162	
5,700.00	4,084.89	3,737.00	3,578.47	39.55	15.41	-63.876	-21.20	787.95	1,393.69	1,348.38	45.31	30.761	
5,800.00	4,084.29	3,737.00	3,578.47	41.65	15.41	-63.876	-21.20	787.95	1,450.14	1,404.21	45.93	31.571	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 861H - Original Hole - Surveys Original												Offset Site Error:	0.00 ft
Survey Program: 401-MWD, 2682-MWD, 11416-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		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	
0.00	0.00	5.51	5.51	0.00	0.01	24.266	79.74	35.95	87.47				
100.00	100.00	105.77	105.77	0.27	0.18	24.232	79.61	35.83	87.31	86.86	0.45	193.677	
200.00	200.00	206.02	206.02	0.63	0.34	24.138	79.26	35.52	86.85	85.88	0.98	88.945	
300.00	300.00	306.27	306.27	0.99	0.51	23.981	78.67	35.00	86.11	84.61	1.50	57.325	
400.00	400.00	406.50	406.49	1.35	0.69	23.758	77.86	34.27	85.08	83.04	2.04	41.739	
500.00	500.00	506.47	506.45	1.71	1.05	23.609	76.90	33.61	83.93	81.17	2.75	30.464	
600.00	600.00	606.35	606.33	2.07	1.41	23.587	75.91	33.14	82.83	79.36	3.47	23.864	
700.00	700.00	706.20	706.17	2.43	1.77	23.401	75.24	32.56	81.99	77.80	4.19	19.582	
800.00	800.00	806.23	806.20	2.78	2.12	23.184	74.55	31.93	81.10	76.19	4.90	16.538	
900.00	900.00	906.24	906.21	3.14	2.48	23.150	73.81	31.56	80.28	74.66	5.62	14.284	
974.01	974.01	979.55	979.51	3.41	2.74	23.278	73.25	31.51	79.74	73.59	6.14	12.982 CC	
1,000.00	1,000.00	1,004.91	1,004.88	3.50	2.83	23.397	73.27	31.70	79.84	73.52	6.32	12.629 ES	
1,100.00	1,099.95	1,101.95	1,101.87	3.85	3.15	123.172	74.93	33.78	83.68	76.69	6.99	11.969 SF	
1,200.00	1,199.63	1,197.34	1,197.04	4.20	3.47	128.005	79.39	38.23	94.61	86.96	7.64	12.381	
1,300.00	1,298.77	1,289.70	1,288.82	4.55	3.78	133.658	86.79	45.34	114.14	105.87	8.28	13.793	
1,400.00	1,397.08	1,377.02	1,374.97	4.93	4.10	138.700	96.93	55.31	143.52	134.65	8.87	16.177	
1,500.00	1,494.31	1,459.96	1,455.89	5.34	4.42	142.821	109.28	68.59	183.09	173.65	9.44	19.394	
1,600.00	1,590.18	1,538.74	1,532.00	5.79	4.75	145.945	122.64	83.92	231.15	221.16	9.99	23.128	
1,700.00	1,684.43	1,611.90	1,601.96	6.30	5.08	148.058	136.63	100.08	286.75	276.23	10.52	27.262	
1,800.00	1,777.16	1,678.32	1,664.75	6.87	5.40	149.947	151.00	116.27	348.69	337.70	10.99	31.718	
1,900.00	1,869.71	1,738.35	1,720.74	7.48	5.72	151.492	165.47	132.35	414.05	402.65	11.41	36.303	
2,000.00	1,962.27	1,791.00	1,769.07	8.11	6.02	152.545	179.18	148.11	482.58	470.84	11.74	41.100	
2,100.00	2,054.82	1,847.98	1,820.56	8.77	6.37	153.416	195.11	166.59	553.63	541.47	12.16	45.528	
2,200.00	2,147.38	1,901.25	1,867.97	9.44	6.72	154.010	211.09	184.87	626.73	614.18	12.55	49.935	
2,300.00	2,239.93	1,957.00	1,917.01	10.13	7.12	154.418	228.99	204.43	701.18	688.19	13.00	53.955	
2,400.00	2,332.49	2,005.22	1,958.93	10.83	7.48	154.623	245.50	221.61	776.85	763.48	13.37	58.125	
2,500.00	2,425.05	2,046.41	1,994.10	11.53	7.80	154.711	260.55	236.87	854.24	840.58	13.66	62.514	
2,600.00	2,517.60	2,075.00	2,018.13	12.25	8.03	154.731	271.53	247.80	933.35	919.54	13.82	67.547	
2,700.00	2,610.16	2,120.52	2,055.74	12.97	8.43	154.727	289.70	265.90	1,013.80	999.59	14.21	71.337	
2,800.00	2,702.72	2,170.00	2,095.69	13.69	8.87	154.832	310.23	286.64	1,095.90	1,081.24	14.66	74.748	
2,900.00	2,796.36	2,195.44	2,115.94	14.38	9.11	156.475	321.00	297.63	1,177.20	1,162.40	14.80	79.522	
3,000.00	2,891.70	2,247.38	2,157.16	15.01	9.61	157.748	343.00	320.34	1,256.40	1,241.14	15.26	82.337	
3,100.00	2,988.50	2,313.65	2,209.60	15.56	10.27	158.683	370.97	349.64	1,332.84	1,316.96	15.88	83.937	
3,200.00	3,086.47	2,400.36	2,278.66	16.05	11.14	159.283	407.00	387.74	1,405.63	1,388.90	16.73	84.020	
3,300.00	3,185.35	2,484.89	2,346.85	16.47	11.99	159.739	441.19	424.15	1,473.77	1,456.24	17.53	84.092	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 863H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 400-MWD, 2583-MWD, 13910-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
							+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	5.50	5.50	0.00	0.01	90.560	-0.34	35.11	35.11				
100.00	100.00	105.57	105.57	0.27	0.18	90.299	-0.18	35.00	35.00	34.55	0.45	77.727	
200.00	200.00	205.63	205.63	0.63	0.34	89.558	0.27	34.71	34.71	33.74	0.98	35.577	
300.00	300.00	305.69	305.69	0.99	0.51	88.315	1.01	34.23	34.25	32.75	1.50	22.815	
400.00	400.00	405.74	405.72	1.35	0.69	86.532	2.03	33.56	33.63	31.59	2.04	16.505	
500.00	500.00	505.69	505.67	1.71	1.05	85.052	2.85	32.95	33.08	30.32	2.75	12.010	
600.00	600.00	605.79	605.76	2.07	1.41	83.285	3.78	32.10	32.32	28.85	3.47	9.312	
700.00	700.00	705.65	705.62	2.43	1.76	82.070	4.38	31.43	31.74	27.55	4.18	7.588	
800.00	800.00	805.57	805.54	2.78	2.10	83.132	3.77	31.29	31.52	26.64	4.88	6.458	
900.00	900.00	905.68	905.64	3.14	2.44	84.372	3.07	31.18	31.33	25.75	5.58	5.616	
1,000.00	1,000.00	1,005.66	1,005.62	3.50	2.78	85.726	2.29	30.65	30.73	24.45	6.28	4.891	
1,006.78	1,006.78	1,012.43	1,012.39	3.52	2.81	-176.685	2.25	30.62	30.72	24.39	6.33	4.852 CC	
1,100.00	1,099.95	1,105.57	1,105.53	3.85	3.13	-176.349	1.90	30.44	33.11	26.13	6.98	4.742	
1,200.00	1,199.63	1,205.24	1,205.20	4.20	3.48	-176.266	1.34	30.26	40.72	33.04	7.67	5.306	
1,300.00	1,298.77	1,304.53	1,304.48	4.55	3.83	-176.316	0.55	30.07	53.51	45.14	8.37	6.391	
1,400.00	1,397.08	1,403.02	1,402.97	4.93	4.18	-176.765	-0.05	29.64	71.22	62.15	9.07	7.851	
1,500.00	1,494.31	1,500.30	1,500.25	5.34	4.53	-177.083	-0.81	29.20	94.03	84.27	9.77	9.625	
1,600.00	1,590.18	1,594.44	1,594.35	5.79	4.86	-176.670	-2.90	29.60	122.63	112.17	10.46	11.728	
1,700.00	1,684.43	1,687.06	1,686.73	6.30	5.18	-174.830	-9.10	31.43	157.40	146.26	11.14	14.132	
1,800.00	1,777.16	1,777.32	1,776.22	6.87	5.51	-172.082	-20.52	34.05	197.03	185.21	11.82	16.670	
1,900.00	1,869.71	1,866.78	1,864.12	7.48	5.84	-168.989	-36.81	37.20	238.10	225.59	12.51	19.036	
2,000.00	1,962.27	1,953.62	1,948.80	8.11	6.18	-166.150	-55.69	40.74	280.39	267.18	13.21	21.232	
2,100.00	2,054.82	2,035.58	2,028.01	8.77	6.53	-163.612	-76.24	45.10	324.66	310.77	13.89	23.376	
2,200.00	2,147.38	2,113.95	2,102.57	9.44	6.88	-161.072	-99.70	50.68	371.77	357.20	14.56	25.525	
2,300.00	2,239.93	2,190.28	2,173.72	10.13	7.25	-158.475	-126.58	57.06	421.58	406.34	15.25	27.648	
2,400.00	2,332.49	2,265.19	2,242.09	10.83	7.65	-155.922	-156.39	63.90	473.85	457.90	15.95	29.705	
2,500.00	2,425.05	2,345.58	2,314.59	11.53	8.12	-153.437	-190.27	71.53	527.80	511.02	16.77	31.463	
2,600.00	2,517.60	2,422.88	2,384.17	12.25	8.60	-151.446	-223.06	79.21	582.81	565.23	17.58	33.147	
2,700.00	2,610.16	2,503.25	2,456.59	12.97	9.02	-149.772	-256.82	87.89	638.81	620.45	18.36	34.792	
2,800.00	2,702.72	2,583.00	2,528.83	13.69	9.39	-148.545	-289.41	96.74	694.99	675.90	19.09	36.410	
2,900.00	2,796.36	2,648.57	2,588.37	14.38	9.61	-148.659	-315.54	105.22	750.36	730.86	19.51	38.465	
3,000.00	2,891.70	2,720.64	2,653.70	15.01	9.87	-148.676	-343.74	116.65	804.17	784.19	19.98	40.245	
3,100.00	2,988.50	2,803.92	2,729.13	15.56	10.20	-148.441	-376.25	130.41	854.94	834.36	20.58	41.547	
3,200.00	3,086.47	2,893.14	2,810.11	16.05	10.59	-148.040	-410.60	145.29	902.01	880.78	21.23	42.486	
3,300.00	3,185.35	4,972.58	4,092.84	16.47	21.89	178.092	-76.17	-616.44	903.22	887.53	15.70	57.545	
3,400.00	3,284.87	4,981.77	4,093.08	16.82	22.07	173.319	-69.63	-622.87	804.42	788.40	16.02	50.219	
3,500.00	3,384.77	4,987.37	4,093.23	17.12	22.17	165.227	-65.63	-626.79	705.09	688.79	16.30	43.255	
3,600.00	3,484.76	4,990.23	4,093.30	17.37	22.22	61.574	-63.59	-628.80	605.46	588.91	16.55	36.576	
3,700.00	3,584.62	4,988.86	4,093.26	17.59	22.20	-130.844	-64.56	-627.84	505.98	489.16	16.82	30.077	
3,800.00	3,682.46	4,970.57	4,092.79	17.75	21.85	-153.680	-77.61	-615.03	408.29	391.24	17.05	23.946	
3,900.00	3,775.34	4,938.68	4,091.99	17.85	21.27	-158.780	-100.26	-592.60	315.52	298.18	17.34	18.200	
4,000.00	3,860.42	4,892.04	4,091.38	17.92	20.41	-158.645	-133.08	-559.47	231.46	213.56	17.90	12.931	
4,100.00	3,935.13	4,827.28	4,091.36	17.97	19.26	-154.038	-178.20	-513.01	160.00	140.79	19.21	8.329	
4,200.00	3,997.20	4,748.24	4,091.28	18.03	17.92	-143.507	-233.57	-456.60	104.15	81.99	22.17	4.699	
4,300.00	4,044.74	4,659.39	4,090.71	18.11	16.53	-123.824	-296.59	-393.97	68.26	40.31	27.95	2.442	
4,400.00	4,076.30	4,564.21	4,088.28	18.30	15.22	-96.400	-365.05	-327.90	54.17	21.72	32.45	1.669 Level 3<2.00, ES, SF	
4,427.88	4,082.11	4,537.68	4,085.95	18.39	14.90	-88.187	-384.03	-309.53	53.49	21.72	31.77	1.684 Level 3<2.00	
4,500.00	4,090.94	4,471.65	4,074.24	18.72	14.23	-67.841	-430.17	-263.83	58.25	31.05	27.20	2.142	
4,600.00	4,091.57	4,385.36	4,047.44	19.54	13.81	-48.746	-485.93	-203.82	78.87	55.98	22.89	3.446	
4,700.00	4,090.96	4,307.61	4,012.56	20.77	13.77	-36.004	-530.98	-151.01	116.03	94.69	21.34	5.436	
4,800.00	4,090.34	4,227.89	3,971.24	22.28	13.87	-27.185	-574.68	-98.69	162.44	141.72	20.72	7.839	
4,900.00	4,089.73	4,164.86	3,934.45	23.95	13.99	-22.268	-606.50	-58.64	217.65	195.85	21.80	9.986	

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

Offset Design: W Lybrook 730 Pad (730, 763, 830, 861 & 863) - W Lybrook Unit No. 863H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 400-MWD, 2583-MWD, 13910-MWD												Offset Well Error:	0.00 ft
Reference		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	
5,000.00	4,089.12	4,112.00	3,900.11	25.73	14.10	-19.072	-630.12	-26.16	281.25	258.14	23.12	12.167	
5,100.00	4,088.51	4,063.17	3,865.77	27.58	14.20	-15.818	-649.18	2.84	351.73	327.59	24.14	14.569	
5,200.00	4,087.91	4,018.00	3,831.94	29.47	14.28	-13.300	-663.96	28.85	427.82	402.90	24.93	17.164	
5,300.00	4,087.31	3,987.00	3,807.59	31.41	14.33	-13.272	-672.30	46.12	508.05	482.29	25.76	19.721	
5,400.00	4,086.70	3,965.58	3,790.25	33.39	14.36	-13.394	-677.22	57.68	591.40	564.91	26.49	22.325	
5,500.00	4,086.10	3,941.49	3,770.24	35.42	14.39	-13.538	-681.92	70.24	677.35	650.39	26.96	25.125	
5,600.00	4,085.50	3,924.00	3,755.44	37.47	14.40	-13.642	-684.88	79.08	765.24	737.87	27.37	27.958	
5,700.00	4,084.89	3,892.00	3,727.91	39.55	14.43	-13.820	-689.50	94.72	854.48	826.93	27.56	31.008	
5,800.00	4,084.29	3,877.04	3,714.85	41.65	14.44	-13.896	-691.33	101.79	944.91	917.08	27.83	33.952	
5,900.00	4,083.69	3,861.00	3,700.70	43.77	14.45	-13.972	-693.02	109.16	1,036.42	1,008.38	28.04	36.962	
6,000.00	4,083.08	3,846.58	3,687.86	45.91	14.45	-14.038	-694.29	115.59	1,128.85	1,100.63	28.22	40.002	
6,100.00	4,082.48	3,830.00	3,672.96	48.06	14.46	-14.109	-695.45	122.76	1,222.07	1,193.71	28.36	43.095	
6,200.00	4,081.88	3,830.00	3,672.96	50.22	14.46	-14.109	-695.45	122.76	1,316.00	1,287.47	28.53	46.127	
6,300.00	4,081.27	3,808.93	3,653.85	52.39	14.46	-14.197	-696.50	131.56	1,410.33	1,381.72	28.61	49.291	

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

Offset Design: W Lybrook Unit - W Lybrook Unit No. 735H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 21-GYRO-NS, 532-MWD												Offset Well Error:	0.00 ft
Reference												Rule Assigned:	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
3,300.00	3,185.35	9,840.13	4,580.65	16.47	117.88	-50.581	-468.09	-1,051.36	1,448.01	1,380.64	67.37	21.494	
3,400.00	3,284.87	9,845.82	4,580.63	16.82	118.01	-43.327	-464.06	-1,055.38	1,353.23	1,284.14	69.09	19.587	
3,500.00	3,384.77	9,848.15	4,580.62	17.12	118.07	-38.245	-462.41	-1,057.03	1,260.66	1,189.38	71.28	17.686	
3,600.00	3,484.76	9,847.89	4,580.62	17.37	118.06	-134.453	-462.60	-1,056.84	1,170.69	1,096.67	74.02	15.815	
3,700.00	3,584.62	9,843.58	4,580.64	17.59	117.96	101.638	-465.64	-1,053.80	1,082.75	1,005.51	77.23	14.019	
3,800.00	3,682.46	9,822.81	4,580.71	17.75	117.49	114.431	-480.36	-1,039.14	998.76	918.05	80.71	12.375	
3,900.00	3,775.34	9,782.54	4,580.74	17.85	116.59	122.101	-508.92	-1,010.76	921.52	837.19	84.33	10.928	
4,000.00	3,860.42	9,725.17	4,580.45	17.92	115.29	126.294	-549.58	-970.28	853.22	765.26	87.96	9.700	
4,100.00	3,935.13	9,664.82	4,579.81	17.97	113.94	128.794	-592.59	-927.95	795.83	704.20	91.63	8.686	
4,200.00	3,997.20	9,582.05	4,578.49	18.03	112.08	129.300	-652.33	-870.68	750.90	656.13	94.77	7.924	
4,300.00	4,044.74	9,491.53	4,575.99	18.11	110.04	129.142	-716.82	-807.22	716.84	619.67	97.18	7.377	
4,400.00	4,076.30	9,409.77	4,575.97	18.30	108.21	129.150	-774.87	-749.64	696.09	597.35	98.74	7.050	
4,500.00	4,090.94	9,309.25	4,576.23	18.72	105.95	128.861	-846.88	-679.52	687.59	588.67	98.92	6.951	
4,600.00	4,091.57	9,184.89	4,572.66	19.54	103.16	128.530	-935.87	-592.73	686.55	588.64	97.91	7.012	
4,665.08	4,091.17	9,115.03	4,569.50	20.32	101.59	128.272	-984.76	-542.92	685.90	588.27	97.62	7.026	
4,700.00	4,090.96	9,083.32	4,568.31	20.77	100.88	128.149	-1,006.91	-520.26	686.15	588.50	97.65	7.027	
4,800.00	4,090.34	8,990.65	4,566.40	22.28	98.79	127.826	-1,071.45	-453.79	689.43	591.64	97.78	7.050	
4,900.00	4,089.73	8,894.80	4,567.16	23.95	96.62	127.669	-1,137.40	-384.25	694.26	596.55	97.71	7.105	
5,000.00	4,089.12	8,799.75	4,569.02	25.73	94.48	127.590	-1,202.65	-315.15	699.54	601.90	97.64	7.164	
5,100.00	4,088.51	8,703.45	4,571.12	27.58	92.32	127.595	-1,269.24	-245.62	703.46	606.00	97.46	7.218	
5,200.00	4,087.91	8,599.31	4,572.51	29.47	89.98	127.722	-1,341.79	-170.93	704.67	607.69	96.98	7.266	
5,300.00	4,087.31	8,487.00	4,572.36	31.41	87.46	127.904	-1,419.51	-89.86	702.88	606.66	96.22	7.305	
5,400.00	4,086.70	8,392.00	4,572.00	33.39	85.33	128.063	-1,484.96	-21.01	700.62	604.61	96.01	7.297	
5,500.00	4,086.10	8,292.13	4,570.86	35.42	83.10	128.115	-1,554.72	50.45	698.94	603.12	95.82	7.294	
5,600.00	4,085.50	8,190.91	4,568.85	37.47	80.85	128.102	-1,625.55	122.72	696.89	601.21	95.69	7.283	
5,695.27	4,084.92	8,110.28	4,567.26	39.45	79.06	128.039	-1,682.73	179.55	695.95	599.85	96.10	7.242	
5,700.00	4,084.89	8,105.19	4,567.17	39.55	78.95	128.032	-1,686.39	183.09	695.96	599.86	96.09	7.243	
5,800.00	4,084.29	8,000.91	4,564.43	41.65	76.64	127.841	-1,761.21	255.66	695.50	599.37	96.13	7.235	
5,822.28	4,084.15	7,982.46	4,563.91	42.12	76.24	127.802	-1,774.50	268.47	695.44	599.17	96.27	7.224	
5,900.00	4,083.69	7,917.00	4,562.81	43.77	74.80	127.688	-1,821.96	313.53	696.19	599.48	96.70	7.199	
6,000.00	4,083.08	7,822.00	4,561.70	45.91	72.73	127.496	-1,891.64	378.09	698.45	601.41	97.04	7.197	
6,100.00	4,082.48	7,734.46	4,560.91	48.06	70.83	127.282	-1,956.58	436.79	701.87	604.28	97.59	7.192	
6,200.00	4,081.88	7,633.00	4,560.32	50.22	68.64	127.034	-2,032.16	504.47	705.86	607.99	97.87	7.212	
6,300.00	4,081.27	7,538.40	4,559.44	52.39	66.60	126.762	-2,102.93	567.24	710.05	611.71	98.34	7.221	
6,400.00	4,080.67	7,436.86	4,558.57	54.58	64.43	126.451	-2,179.28	634.17	714.76	616.05	98.72	7.241	
6,500.00	4,080.07	7,330.73	4,557.26	56.77	62.16	126.127	-2,258.75	704.50	718.89	619.87	99.02	7.260	
6,600.00	4,079.46	7,220.42	4,555.67	58.97	59.80	125.824	-2,340.72	778.31	722.25	623.04	99.20	7.280	
6,700.00	4,078.86	7,076.62	4,553.02	61.17	56.71	125.684	-2,443.26	879.05	721.97	623.71	98.26	7.347	
6,800.00	4,078.26	6,979.00	4,550.91	63.38	54.59	125.755	-2,510.02	950.25	718.04	619.73	98.31	7.304	
6,900.00	4,077.65	6,897.58	4,550.08	65.60	52.85	125.827	-2,566.45	1,008.93	715.81	616.96	98.84	7.242	
6,929.67	4,077.47	6,874.00	4,550.04	66.26	52.34	125.842	-2,583.07	1,025.66	715.68	616.66	99.02	7.228	
7,000.00	4,077.05	6,810.27	4,550.16	67.82	50.99	125.876	-2,628.35	1,070.50	715.99	616.77	99.23	7.216	
7,100.00	4,076.45	6,711.18	4,550.39	70.05	48.91	125.889	-2,699.38	1,139.58	717.19	617.82	99.37	7.217	
7,200.00	4,075.84	6,612.25	4,549.42	72.28	46.84	125.793	-2,770.76	1,208.08	718.23	618.58	99.65	7.207	
7,300.00	4,075.24	6,476.13	4,546.58	74.51	44.02	125.699	-2,866.91	1,304.35	716.89	617.90	99.00	7.242	
7,400.00	4,074.64	6,382.22	4,544.20	76.75	42.08	125.693	-2,931.91	1,372.07	713.68	614.34	99.34	7.184	
7,500.00	4,074.03	6,276.74	4,542.89	78.99	39.92	125.849	-3,003.82	1,449.23	710.02	610.80	99.22	7.156	
7,600.00	4,073.43	6,184.20	4,542.48	81.23	38.05	126.039	-3,066.87	1,516.97	706.79	607.35	99.44	7.108	
7,700.00	4,072.83	6,091.61	4,542.07	83.48	36.22	126.176	-3,130.77	1,583.97	704.57	604.84	99.73	7.065	
7,800.00	4,072.22	6,000.05	4,541.59	85.72	34.45	126.239	-3,194.98	1,649.23	703.54	603.40	100.14	7.025	
7,853.26	4,071.90	5,950.07	4,541.18	86.92	33.49	126.234	-3,230.46	1,684.43	703.42	603.02	100.39	7.007	
7,900.00	4,071.62	5,905.69	4,540.73	87.97	32.66	126.212	-3,262.16	1,715.49	703.51	602.88	100.63	6.991	

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

Offset Design: W Lybrook Unit - W Lybrook Unit No. 735H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 21-GYRO-NS, 532-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
				Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8,000.00	4,071.02	5,808.36	4,541.36	90.23	30.87	126.300	-3,331.20	1,784.08	704.09	603.13	100.96	6.974	
8,100.00	4,070.41	5,706.27	4,541.71	92.48	29.07	126.359	-3,403.83	1,855.84	704.72	603.44	101.29	6.958	
8,200.00	4,069.81	5,608.35	4,540.48	94.73	27.44	126.281	-3,473.94	1,924.17	704.98	603.09	101.89	6.919	
8,300.00	4,069.21	5,519.79	4,539.45	96.99	26.20	126.145	-3,538.38	1,984.92	706.59	603.86	102.72	6.878	
8,400.00	4,068.60	5,425.92	4,540.66	99.25	25.53	126.165	-3,606.48	2,049.51	709.42	606.03	103.40	6.861	
8,500.00	4,068.00	5,328.65	4,542.19	101.51	25.34	126.183	-3,677.36	2,116.11	712.81	608.61	104.20	6.841	
8,600.00	4,067.40	5,217.10	4,542.52	103.77	25.44	126.059	-3,759.38	2,191.69	716.30	611.33	104.97	6.824	
8,700.00	4,066.79	5,117.38	4,539.07	106.03	25.55	125.647	-3,833.55	2,258.25	718.59	612.23	106.36	6.756	
8,800.00	4,066.19	4,950.32	4,507.10	108.30	25.75	122.908	-3,960.05	2,361.95	715.28	605.10	110.17	6.492	
8,900.00	4,065.59	4,762.95	4,425.21	110.56	25.91	116.234	-4,094.64	2,462.10	703.61	586.10	117.51	5.988	
9,000.00	4,064.98	4,672.00	4,369.24	112.83	25.96	111.585	-4,153.54	2,502.77	688.45	564.73	123.71	5.565	
9,100.00	4,064.38	4,608.40	4,324.20	115.09	25.96	107.701	-4,192.64	2,524.76	679.83	551.01	128.82	5.277	
9,148.88	4,064.08	4,577.83	4,301.30	116.20	25.96	105.704	-4,210.79	2,533.74	678.75	547.85	130.90	5.185 CC	
9,200.00	4,063.78	4,542.91	4,274.25	117.36	25.94	103.347	-4,230.79	2,543.08	679.86	547.03	132.83	5.118 ES, SF	
9,300.00	4,063.17	4,495.79	4,235.96	119.63	25.91	100.028	-4,256.09	2,553.75	689.43	555.20	134.23	5.136	
9,400.00	4,062.57	4,458.68	4,204.70	121.90	25.88	97.336	-4,274.97	2,560.25	710.20	576.91	133.29	5.328	
9,500.00	4,061.97	4,422.00	4,172.98	124.17	25.83	94.640	-4,292.67	2,565.35	741.67	610.89	130.78	5.671	
9,600.00	4,061.36	4,399.50	4,153.22	126.44	25.80	92.984	-4,303.15	2,567.84	783.06	656.34	126.72	6.180	
9,700.00	4,060.76	4,379.42	4,135.41	128.71	25.76	91.508	-4,312.24	2,569.54	833.35	711.22	122.12	6.824	
9,800.00	4,060.16	4,359.00	4,117.06	130.98	25.73	90.009	-4,321.15	2,570.64	891.33	773.87	117.46	7.588	
9,900.00	4,059.55	4,359.00	4,117.06	133.25	25.73	90.009	-4,321.15	2,570.64	955.82	843.51	112.31	8.511	
10,000.00	4,058.95	4,338.14	4,098.16	135.53	25.68	88.489	-4,329.95	2,571.06	1,025.44	917.28	108.15	9.481	
10,100.00	4,058.35	4,328.00	4,088.93	137.80	25.65	87.757	-4,334.16	2,570.99	1,099.54	995.51	104.03	10.570	
10,200.00	4,057.74	4,316.42	4,078.36	140.08	25.62	86.927	-4,338.87	2,570.74	1,177.22	1,076.89	100.32	11.734	
10,300.00	4,057.14	4,306.44	4,069.21	142.35	25.59	86.215	-4,342.83	2,570.39	1,257.82	1,160.88	96.94	12.976	
10,400.00	4,056.54	4,296.00	4,059.59	144.63	25.56	85.476	-4,346.88	2,569.90	1,340.86	1,246.96	93.90	14.280	
10,500.00	4,055.93	4,285.22	4,049.63	146.90	25.53	84.718	-4,350.96	2,569.31	1,425.90	1,334.73	91.17	15.639	

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

Reference Depths are relative to RKB=6640+23.5 @ 6663.50ft

Offset Depths are relative to Offset Datum

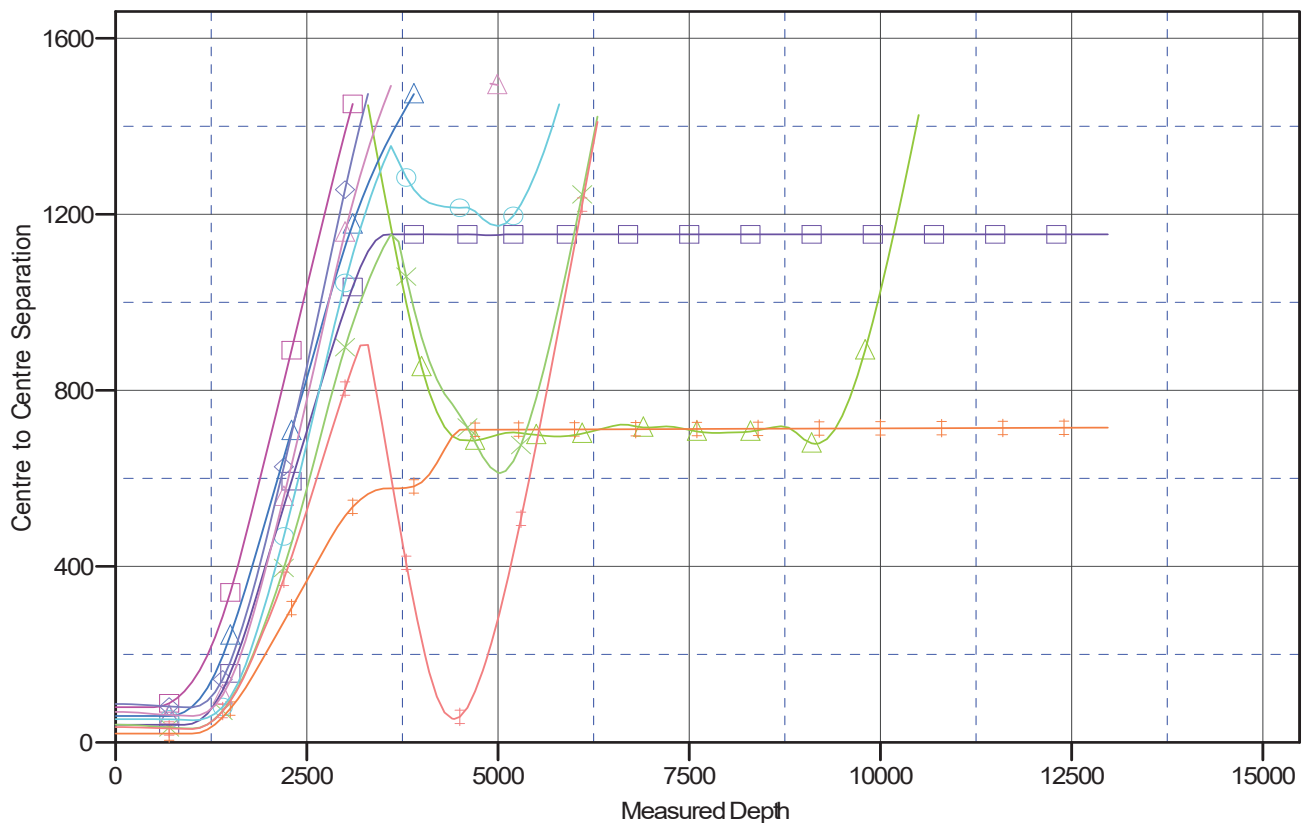
Central Meridian is -107.83333333

Coordinates are relative to: Greater Lybrook Unit 43H

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

Grid Convergence at Surface is: 0.033°

Ladder Plot



LEGEND

W LybrookUnitNo.735HOriginalHole,SurveyOriginalHole V0	GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.730HOriginalHole,SurveyOriginalHole V0
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.830HOriginalHole,SurveyOriginalHole V0	W LybrookUnitNo.863HOriginalHole,SurveyOriginalHole V0
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.763HOriginalHole,SurveyOriginalHole V0	
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.861HOriginalHole,SurveyOriginalHole V0	

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

Reference Depths are relative to RKB=6640+23.5 @ 6663.50ft

Offset Depths are relative to Offset Datum

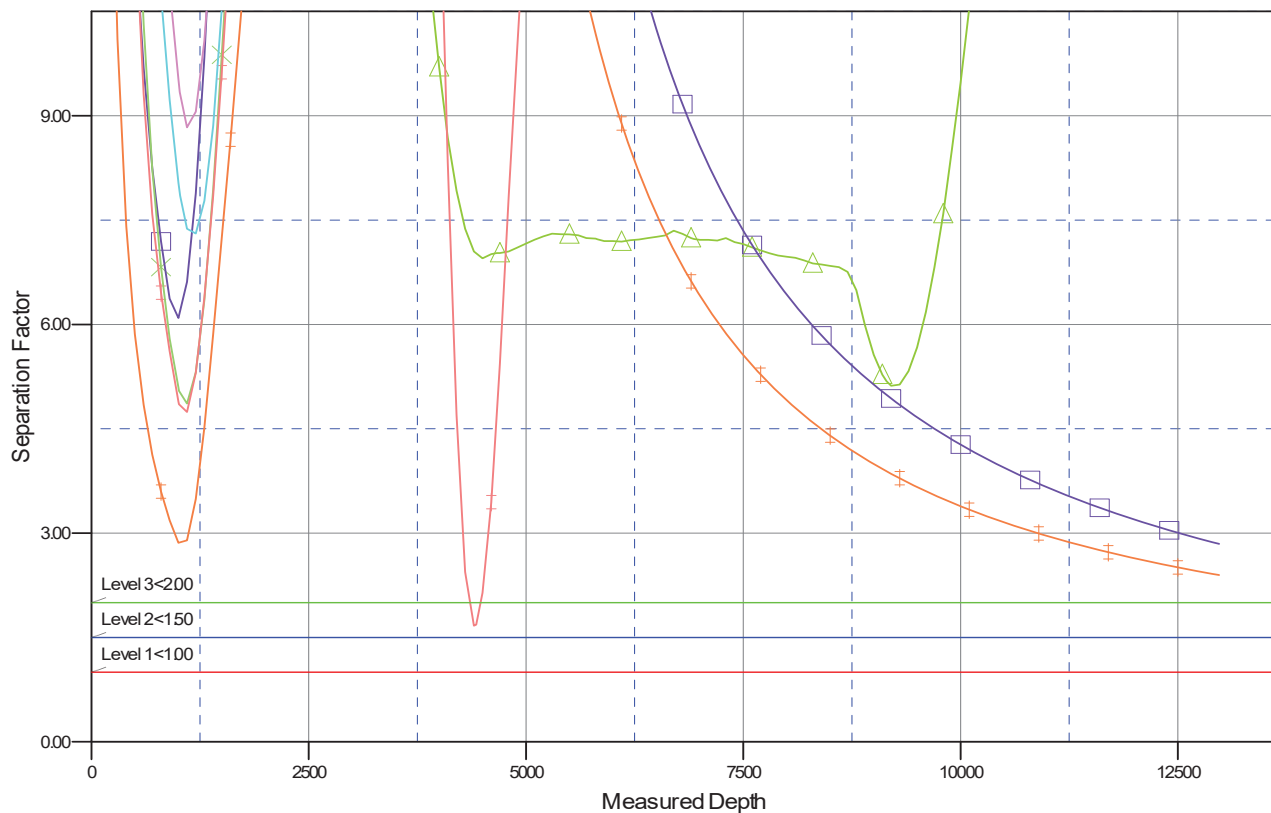
Central Meridian is -107.8333333

Coordinates are relative to: Greater Lybrook Unit 43H

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

Grid Convergence at Surface is: 0.033°

Separation Factor Plot



LEGEND

W LybrookUnitNo.735HOriginalHole,SurveyOriginalHole V0	GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.730HOriginalHole,SurveyOriginalHole V0
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.830HOriginalHole,SurveyOriginalHole V0	W LybrookUnitNo.863HOriginalHole,SurveyOriginalHole V0
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.763HOriginalHole,SurveyOriginalHole V0	
GreaterLybrookUnit43HOriginalHole,rev0 V0	W LybrookUnitNo.861HOriginalHole,SurveyOriginalHole 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
#043H GREATER LYBROOK UNIT
Lease: NMNM118731 Agreement: NMNM144419X

SH: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 27, T. 23N., R. 09W.
San Juan County, New Mexico
BH: SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 35, T. 23N., R. 09W.
San Juan County, New Mexico
***Above Data Required on Well Sign**

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

The following special requirements apply and are effective when checked:

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

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

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

II. REPORTING REQUIREMENTS

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

III. DRILLER'S LOG

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

IV. GAS FLARING

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

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

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

VII. PHONE NUMBERS

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

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 524928

ACKNOWLEDGMENTS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 524928
	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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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 524928

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 524928
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	11/10/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/10/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/22/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/22/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	12/22/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	12/22/2025