

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

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

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.	
2. Name of Operator		9. API Well No. 30-045-38425	
3a. Address		3b. Phone No. (include area code)	
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 11. Sec., T. R. M. or Blk. and Survey or Area	
14. Distance in miles and direction from nearest town or post office*		12. County or Parish	
13. State			
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		16. No of acres in lease	
17. Spacing Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		19. Proposed Depth	
20. BLM/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		22. Approximate date work will start*	
23. Estimated duration			
24. Attachments			
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)			
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.	
25. Signature		Name (Printed/Typed)	
Title		Date	
Approved by (Signature)		Name (Printed/Typed)	
Title		Office	
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.			

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 11/25/2024

Additional Operator Remarks

Location of Well

0. SHL: SENE / 2371 FNL / 1232 FEL / TWSP: 24N / RANGE: 8W / SECTION: 25 / LAT: 36.285847 / LONG: -107.62864 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 1136 FNL / 238 FEL / TWSP: 24N / RANGE: 8W / SECTION: 25 / LAT: 36.289204 / LONG: -107.62534 (TVD: 5583 feet, MD: 6050 feet)

PPP: SESW / 1326 FNL / 1 FWL / TWSP: 24N / RANGE: 8W / SECTION: 24 / LAT: 36.303297 / LONG: -107.642678 (TVD: 5743 feet, MD: 15173 feet)

PPP: NWNW / 1317 FNL / 9 FEL / TWSP: 24N / RANGE: 8W / SECTION: 24 / LAT: 36.303323 / LONG: -107.642711 (TVD: 5743 feet, MD: 15173 feet)

PPP: SENE / 1326 FNL / 1 FEL / TWSP: 24N / RANGE: 8W / SECTION: 23 / LAT: 36.303297 / LONG: -107.642678 (TVD: 5743 feet, MD: 15173 feet)

BHL: NENE / 230 FNL / 1049 FEL / TWSP: 24N / RANGE: 8W / SECTION: 23 / LAT: 36.306274 / LONG: -107.646341 (TVD: 5743 feet, MD: 15173 feet)

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 30-045-38425	Pool Code 42289	Pool Name LYBROOK GALLUP
Property Code 336777	Property Name RIDGE UNIT	Well Number 124H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6923'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL H	Section 25	Township 24N	Range 8W	Lot	Feet from N/S Line 2371' NORTH	Feet from E/W Line 1232' EAST	Latitude 36.285847 °N	Longitude -107.628640 °W	County SAN JUAN
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Bottom Hole Location

UL A	Section 23	Township 24N	Range 8W	Lot	Feet from N/S Line 230' NORTH	Feet from E/W Line 1049' EAST	Latitude 36.306274 °N	Longitude -107.646341 °W	County SAN JUAN
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Penetrated Spacing Unit:

Dedicated Acres 440.00	E/2 NE/4 - Section 23 NW/4 NW/4, S/2 NW/4, N/2 SW/4 SE/4 SW/4 - Section 24 N/2 NE/4, SE/4 NE/4 - Section 25	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit ☐ Yes ☐ No	Consolidation Code UNIT
Order Numbers R-20594			Well setbacks are under Common Ownership: ☒ Yes ☐ No		

Kick Off Point (KOP)

UL H	Section 25	Township 24N	Range 8W	Lot	Feet from N/S Line 2371' NORTH	Feet from E/W Line 1232' EAST	Latitude 36.285847 °N	Longitude -107.628640 °W	County SAN JUAN
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First Take Point (FTP)

UL A	Section 25	Township 24N	Range 8W	Lot	Feet from N/S Line 1136' NORTH	Feet from E/W Line 238' EAST	Latitude 36.289204 °N	Longitude -107.625340 °W	County SAN JUAN
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Last Take Point (LTP)

UL A	Section 23	Township 24N	Range 8W	Lot	Feet from N/S Line 230' NORTH	Feet from E/W Line 1049' EAST	Latitude 36.306274 °N	Longitude -107.646341 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest RIDGE UNIT	Spacing Unit Type ☒ Horizontal ☐ Vertical ☐ Directional	Ground Floor Elevation
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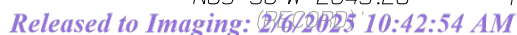
OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed 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. <u>Shaw-Marie Ford</u> Signature <u>1/13/2025</u> Date <u>Shaw-Marie Ford</u> Printed Name <u>sford@enduringresources.com</u> 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 <table><tr><td>Certificate Number 15269</td><td>Date of Survey OCTOBER 29, 2021</td></tr></table>	Certificate Number 15269	Date of Survey OCTOBER 29, 2021
Certificate Number 15269	Date of Survey OCTOBER 29, 2021		

RESUME PRODUCTION (RP)
1506' FSL 2374' FWL
SECTION 24, T24N, R8W

LAT 36.296559 °N
LONG -107.634388 °W
DATUM: NAD1983

PAUSE PRODUCTION (PP)
236' FNL 1130' FEL
SECTION 25, T24N, R8W

LAT 36.291709 °N
LONG -107.628422 °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:** 1/14/2025

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

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Ridge Unit 124H	TBD	H-25-24N-8W	2371 FNL x 1232 FEL	595	2381	238
Ridge Unit 127H	TBD	H-25-24N-8W	2371 FNL x 1252 FEL	608	2432	243
Ridge Unit 128H	TBD	H-25-24N-8W	2371 FNL x 1272 FEL	544	2177	218
Ridge Unit 129H	TBD	H-25-24N-8W	2371 FNL x 1292 FEL	510	2041	204
				3-year Decline	3-year Decline	3-year Decline
Ridge Unit 124H	TBD	H-25-24N-8W	2371 FNL x 1232 FEL	134	538	54
Ridge Unit 127H	TBD	H-25-24N-8W	2371 FNL x 1252 FEL	137	549	55
Ridge Unit 128H	TBD	H-25-24N-8W	2371 FNL x 1272 FEL	123	492	49
Ridge Unit 129H	TBD	H-25-24N-8W	2371 FNL x 1292 FEL	115	461	46

IV. Central Delivery Point Name: Ridge Unit CDP [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
Ridge Unit 124H	TBD	9/22/2025	10/2/2025	11/5/2025	11/20/2025	11/22/2025
Ridge Unit 127H	TBD	10/3/2025	10/13/2025	11/5/2025	11/25/2025	11/27/2025
Ridge Unit 128H	TBD	10/14/2025	10/23/2025	11/5/2025	11/30/2025	12/2/2025
Ridge Unit 129H	TBD	10/24/2025	11/2/2025	11/5/2025	12/5/2025	12/7/2025

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: 1/14/2025
Phone: 505-716-3297
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Enduring Resources, LLC.
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN
Ridge Unit 124H 127H 128H and 129H

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
Ridge Unit 124H 127H 128H and 129H

VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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



Enduring Resources, LLC.
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN
Ridge Unit 124H 127H 128H and 129H

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
Ridge Unit 124H 127H 128H and 129H

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 80111

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

WELL INFORMATION:

Name: RIDGE UNIT 124H

API Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 6,923 ft ASL (GL)

6,936 ft ASL (KB)

Surface Location: 25-24N-08W Sec-Twn-Rng

2,371 ft FNL

1,232 ft FEL

36.285847 ° N latitude

107.62864 ° W longitude

(NAD 83)

BH Location: 23-24N-08W Sec-Twn-Rng

230 ft FNL

1,049 ft FEL

36.306274 ° N latitude

107.646341 ° 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 43.5 miles to County Road 7998, Left (North) on CR 7998 for 1.0 miles to fork in road, Left (North-West) on lease road for 0.2 miles to fork in road, Right (Straight)(West) for 0.4 miles to fork, Right (North-East) for 0.6 miles to access road, right on access road for 0.4 miles to Ridge Unit 127H Pad. The 124H well is the furthest East and furthest away from the location entrance From East to West: RU 124H, 127H, 128H and 129H.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	5,590	1,358	1,360	W	normal
	Kirtland	5,475	1,473	1,478	W	normal
	Fruitland	5,230	1,718	1,736	G, W	sub
	Pictured Cliffs	4,935	2,013	2,065	G, W	sub
	Lewis	4,810	2,138	2,206	G, W	normal
	Chacra	4,500	2,448	2,557	G, W	normal
	Cliff House	3,400	3,548	3,802	G, W	sub
	Menefee	3,385	3,563	3,819	G, W	normal
	Point Lookout	2,555	4,393	4,745	G, W	normal
	Mancos	2,315	4,633	4,993	O,G	sub (~0.38)
	Gallup (MNCS_A)	1,945	5,003	5,365	O,G	sub (~0.38)
	MNCS_B	1,865	5,083	5,445	O,G	sub (~0.38)
	MNCS_C	1,735	5,213	5,576	O,G	sub (~0.38)
	MNCS_Cms	1,650	5,298	5,665	O,G	sub (~0.38)
	MNCS_D	1,585	5,363	5,737	O,G	sub (~0.38)
	MNCS_E	1,505	5,443	5,833	O,G	sub (~0.38)
	MNCS_F	1,450	5,498	5,908	O,G	sub (~0.38)
	MNCS_G	1,365	5,583	6,050	O,G	sub (~0.38)
	MNCS_H	1,325	5,623	6,131	O,G	sub (~0.38)
	MNCS_I	1,275	5,673	6,275	O,G	sub (~0.38)
	P.O.E. TARGET	1,365	5,583	6,050	O,G	sub (~0.38)
	PROJECTED TD	1,205	5,743	15,173	O,G	sub (~0.38)

Surface: Nacimiento

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

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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,470 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,210 psi

Temperature: Maximum anticipated BHT is 140° 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; gas detection from drill out of 13-3/8" casing to TD; remote geo-steering from drill out of 9-5/8" casing to TD.

MWD / LWD: MWD surveys with inclination and azimuth in 100' stations (minimum) from drill out of 13-3/8" casing to TD; Gamma Ray from drill out of 9-5/8" casing to TD; Gamma Ray optional in 12-1/4" intermediate hole

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 5-1/2" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Aztec

Rig No.: 1000

Draw Works: E80 AC 1,500 hp

Mast: Hyduke Triple (136 ft, 600,000 lbs, 10 lines)

Top Drive: NOV IDS-350PE (350 ton)

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

Pumps: 2 - RS F-1600 (7,500 psi)

BOPE 1: Cameron single & double gate rams (13-5/8", 3,000 psi)

BOPE 2: Cameron annular (13-5/8", 5,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 12.5'

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when 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 for specifics.

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: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	800	116,634	116,634
Min. S.F.					7.39	3.41	7.31	7.79

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)
	TYPE III	14.6	1.39	6.686	0.6946	100%	0	364

Annular Capacity 0.6946 cuft/ft 13-3/8" casing x 17-1/2" hole annulus Csg capacity 0.8680 ft3/ft

Drake Energy Services: Calculated cement volumes assume gauge hole and the excess noted in table

Tail	ASTM Type III Blend	Calcium Chloride 2% BWOC Accelerator	D-CD2 .3% BWOC Dispersant/Friction reducer	.25 lbs/sx Cello Flake - seepage	Cu Ft Slurry
					505.3

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

350 ft (MD)	to	3,989 ft (MD)	Hole Section Length:	3,639 ft
350 ft (TVD)	to	3,713 ft (TVD)	Casing Required:	3,989 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum), GR optional

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,622	1,422	225,230	225,230
Min. S.F.					1.25	2.47	2.50	2.01

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

Stage 1	Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
	Spacer	D-Mud Breaker	8.5				0	10 bbls	
	Lead	90:10 Type III:POZ	12.5	2.140	12.05	70%	0	840	1,798
	Tail	Type III	14.6	1.380	6.61	20%	3,489	150	207
	Displacement	305	est bbls						

Annular Capacity 0.3627 cuft/ft 9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft 9-5/8" casing x 12-1/4" hole annulus 9-5/8" 36# ID 8.921

0.4341 cuft/ft 9-5/8" casing vol est shoe jt ft 44

Calculated cement volumes assume gauge hole and the excess (open hole only) noted in table

Spacer	D-Mud Breaker	SAPP						
Lead	ASTM Type III 90/10 Poz	D-CSE 1 5.0% BWOC Strength Enhancer	D-MPA-1 .4% BWOC Fluid Loss & Gas Migration Control	D-SA 1 1.4% BWOC Na Metasilicate	D-CD 2 .4% BWOC Dispersant	Cello Flace LCM .25 lb/sx	D-FP1 0.5% BWOC Defoamer	D-R1 .5% Retarder
Tail	ASTM Type III Blend		BWOC Fluid Loss & Gas Migration Control		D-CD 2 .5% BWOC Dispersant	Cello Flace LCM .25 lb/sx		D-R1 .2% Retarder

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

3,989 ft (MD)	to	15,173 ft (MD)	Hole Section Length:	11,184 ft
3,713 ft (TVD)	to	5,743 ft (TVD)	Casing Required:	15,173 ft

Estimated KOP:	5,450 ft (MD)	5,088 ft (TVD)
Estimated Landing Point (P.O.E.):	6,050 ft (MD)	5,583 ft (TVD)
Estimated Lateral Length:	9,123 ft (MD)	

Fluid:	Type	MW (ppg)	WPS ppm	HTHP	YP (lb/100 sqft)	ES	OWR	Comment
	OBM	8.0 - 9.0	120,000 CaCl	NC	±6	+300	80:20	WBM as contingency

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum) before KOP, every joint from KOP to POE, every 100' (minimum) from POE to TD; Gamma Ray from drill out of 9-5/8" shoe to TD

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

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,837	9,038	322,580	322,580
Min. S.F.					2.63	1.18	1.69	1.38

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

MU Torque (ft lbs): Minimum: 3,470 Optimum: 4,620 Maximum: 5,780

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Lead	ASTM type I/II	12.4	2.370	13.40	50%	0	599	1,418
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,993	1,642	2,578

Displacement 334 est bbls

Annular Capacity 0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus
 0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus
 0.1245 cuft/ft 5-1/2" casing vol est shoe jt ft 100

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

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

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 9,023

Est Frac Inform: 38 Frac Stages 145,000 bbls slick water 11,730,000 lbs proppant

Flowback: Well will be flowed back through production tubing. An ESP may be used to assist in load water recovery.

Production: Well will produce up production tubing via gas-lift into permanent production and storage facilities.

ESTIMATED START DATES:

Drilling: 11/3/2023

Completion: 12/18/2023

Production: 1/17/2024

Prepared by: Alec Bridge 2/22/2019

Updated by: Alec Bridge 4/3/2019 - updated directional plans to reflect updated development plan & well placement

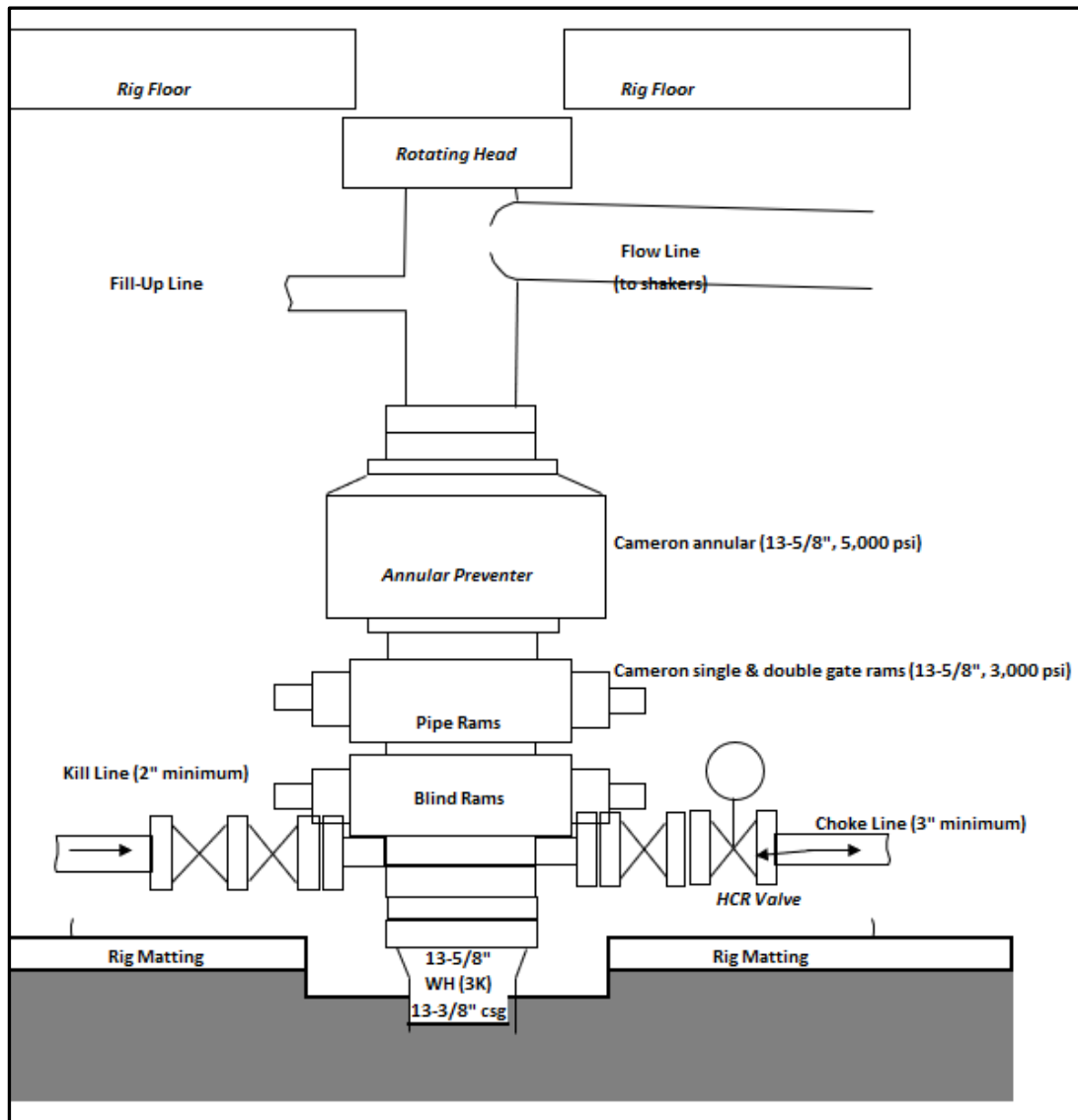
G Olson 7/15/2022

G Olson 7/20/2023

G Olson 8/17/2023

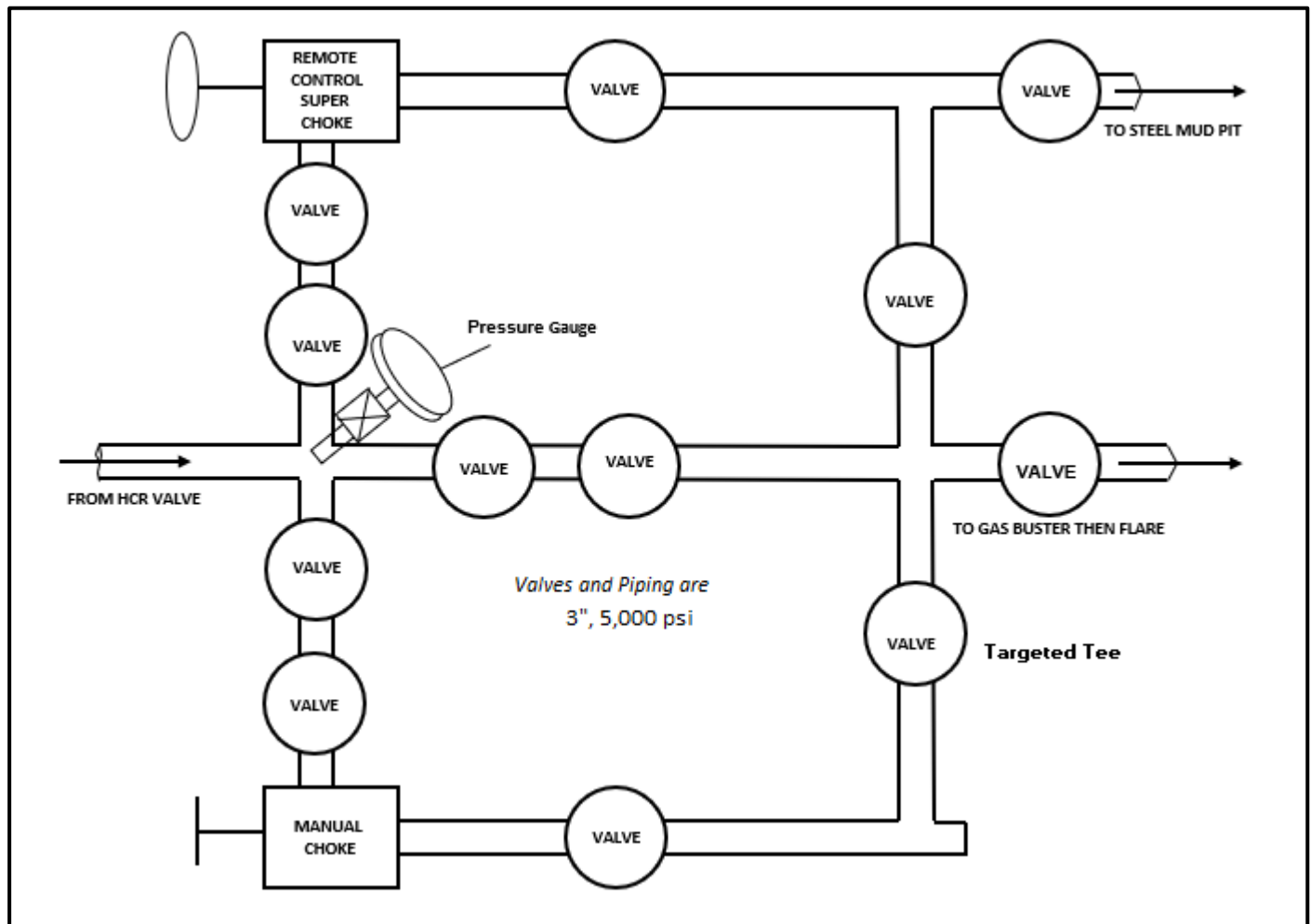


Enduring Resources IV, LLC BOPE Diagram





Enduring Resources IV, LLC CHOKE MANIFOLD



WELL NAME: RIDGE UNIT 124H
OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-I formation
API Number: Not yet assigned
State: New Mexico
County: San Juan

QUICK REFERENCE	
Sur TD (MD)	350 ft
Int TD (MD)	3,989 ft
KOP (MD)	5,450 ft
KOP (TVD)	5,088 ft
Target (TVD)	5,583 ft
Curve BUR	10 °/100 ft
POE (MD)	6,050 ft
TD (MD)	15,173 ft
Lat Len (ft)	9,123 ft

Surface Elev.: 6,923 ft ASL (GL) 6,936 ft ASL (KB)
Surface Location: 25-24N-08W Sec-Twn- Rng 2,371 ft FNL 1,232 ft FEL
BH Location: 23-24N-08W Sec-Twn- Rng 230 ft FNL 1049 ft FEL
Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: South on US Hwy 550 for 43.5 miles to County Road 7998, Left (North) on CR 7998 for 1.0 miles to fork in road, Left (North-West) on lease road for 0.2 miles to fork in road, Right (Straight)(West) for 0.4 miles to fork, Right (North-East) for 0.6 miles to access road, right on access road for 0.4 miles to Ridge Unit 127H Pad. The 124H well is the furthest East and furthest away from the location entrance From East to West: RU 124H, 127H, 128H and 129H.

WELL CONSTRUCTION SUMMARY:

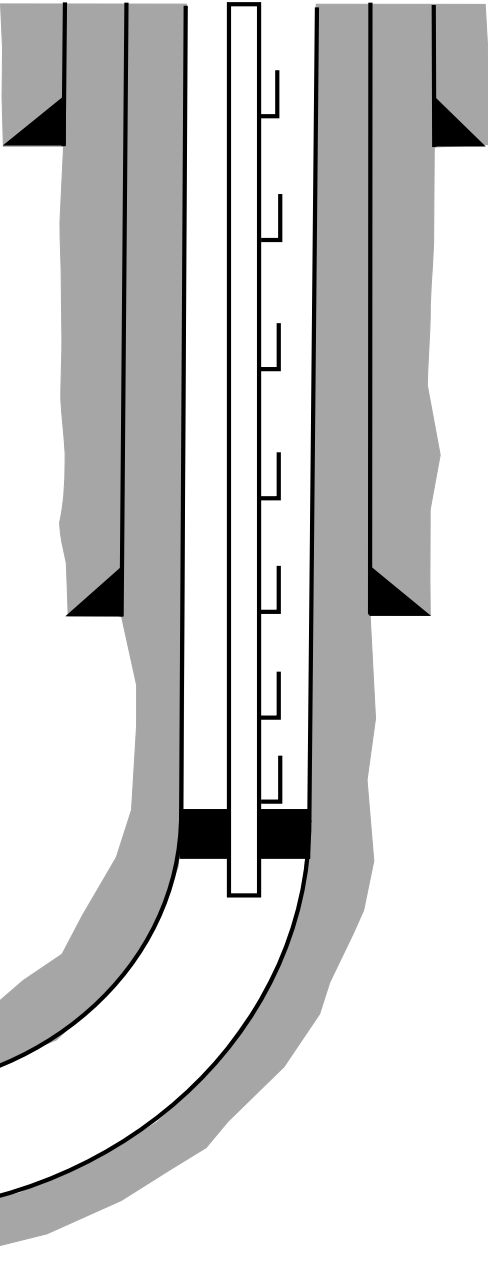
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	3,989	9.625	36.0	J-55	LTC	0	3,989
Production	8.500	15,173	5.500	17.0	P-110	LTC	0	15,173

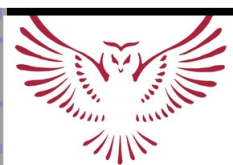
CEMENT PROPERTIES SUMMARY:

	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)	Total Cu Ft
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	364	505
Inter. (Lead)	90:10 Type III:PO	12.5	2.14	12.05	0.3132	70%	0	840	1,798
Inter. (Tail)	Type III	14.6	1.38	6.61	0.3132	20%	3,489	150	207
Prod. (Lead)	ASTM type I/II	12.4	2.37	13.4	0.2291	50%	0	599	1,418
Prod. (Tail)	G:POZ blend	13.3	1.57	7.7	0.2291	10%	4,993	1,642	2,578

COMPLETION / PRODUCTION SUMMARY:

Frac: 30-stage (+/-) plug-and-perf frac with slick water and 10,000,000 lbs (+/-) proppant
Flowback: Flow up production tubing as pressures allow (an ESP may be used to assist in load-water recovery)
Production: 2-7/8" tubing, ESP will be replaced with gas lift as well conditions dictate





Well: Ridge Unit No. 124H
Site: Ridge Unit (124, 127, 128 & 129)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig:

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ridge 124H FTP 1136 FNL 238 FEL 330 perp r1	5688.00	1224.11	969.94	1924635.562	2784388.100	36.289204000	-107.625340000
Ridge 124H LTP 230 FNL 1049 FEL 330 perp r1	5743.00	7425.43	-5231.16	1930836.866	2778187.012	36.306274000	-107.646341000

CASING DETAILS

TVD	MD	Name
350.00	350.00	13 3/8" Csg
3713.00	3988.70	9 5/8" Csg

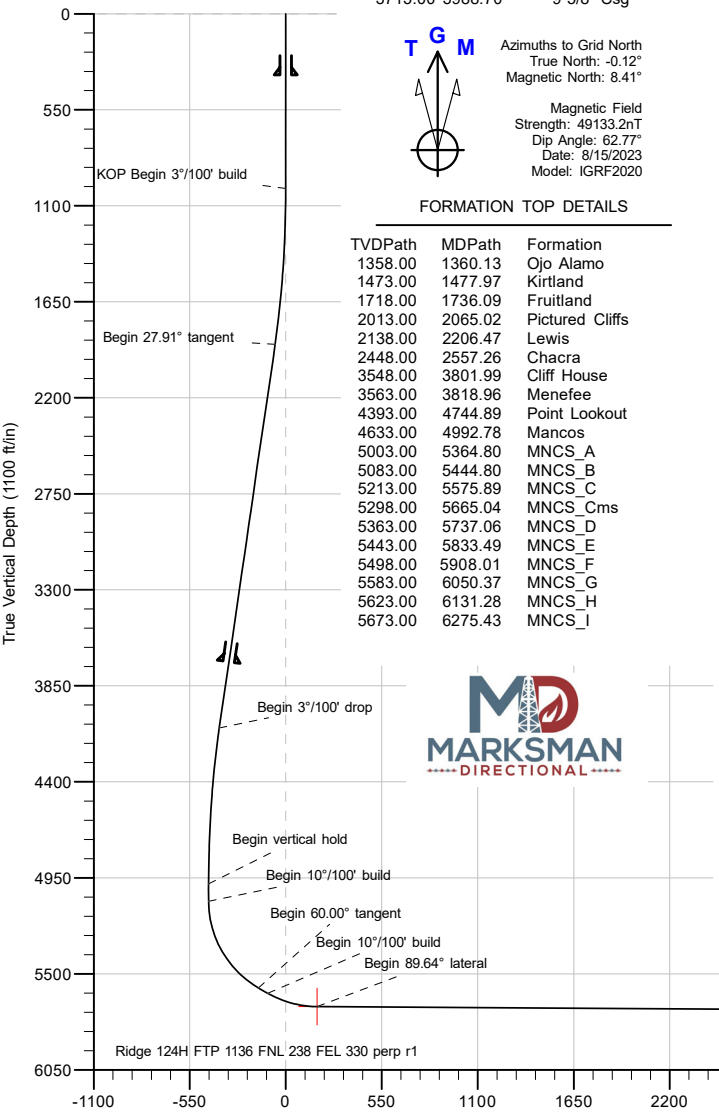


Azimuths to Grid North
True North: -0.12°
Magnetic North: 8.41°

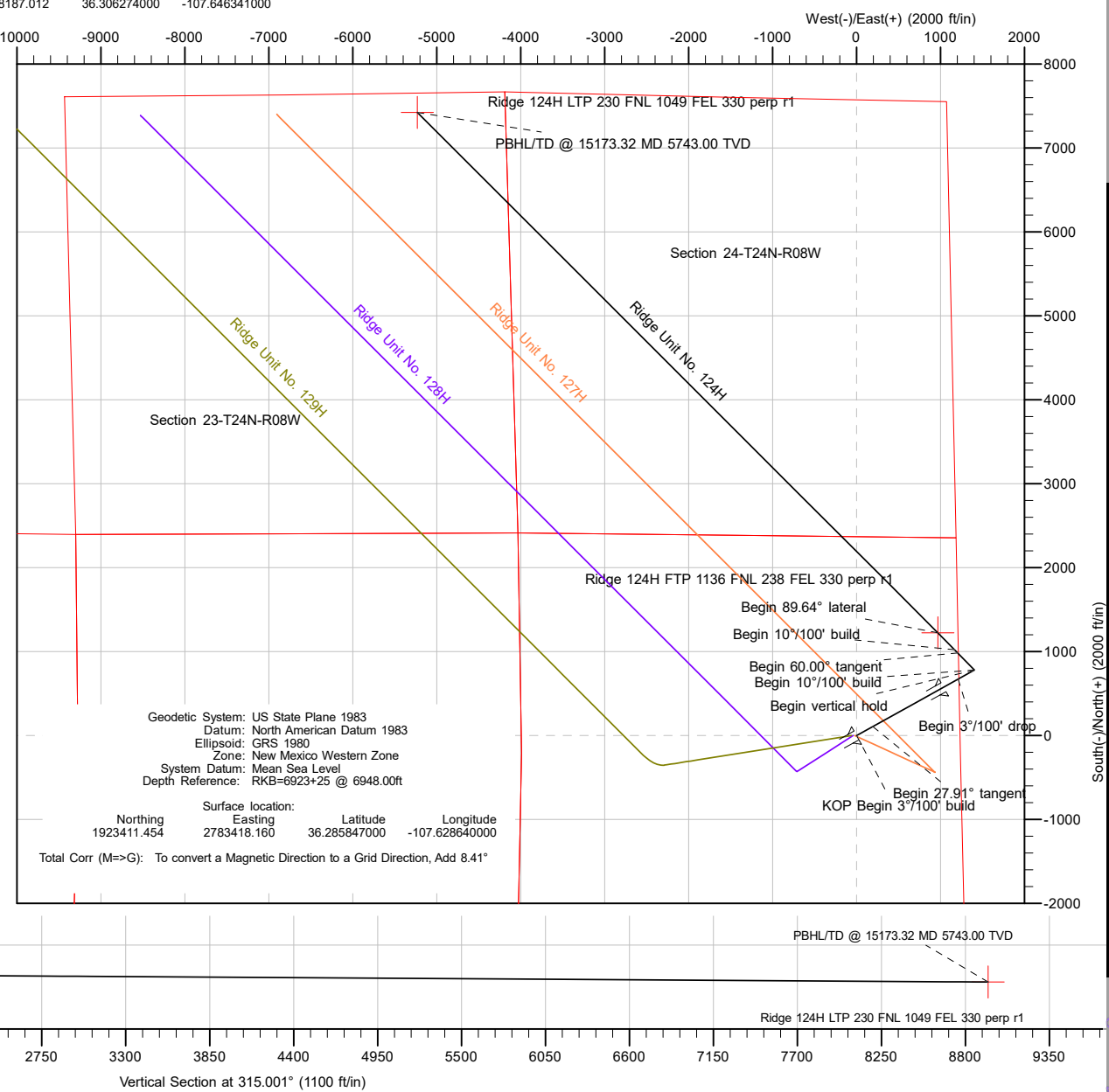
Magnetic Field
Strength: 49133.2nT
Dip Angle: 62.77°
Date: 8/15/2023
Model: IGRF2020

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1358.00	1360.13	Ojo Alamo
1473.00	1477.97	Kirtland
1718.00	1736.09	Fruitland
2013.00	2065.02	Pictured Cliffs
2138.00	2206.47	Lewis
2448.00	2557.26	Chacra
3548.00	3801.99	Cliff House
3563.00	3818.96	Menefee
4393.00	4744.89	Point Lookout
4633.00	4992.78	Mancos
5003.00	5364.80	MNCS_A
5083.00	5444.80	MNCS_B
5213.00	5575.89	MNCS_C
5298.00	5665.04	MNCS_Cms
5363.00	5737.06	MNCS_D
5443.00	5833.49	MNCS_E
5498.00	5908.01	MNCS_F
5583.00	6050.37	MNCS_G
5623.00	6131.28	MNCS_H
5673.00	6275.43	MNCS_I



Section Details											Annotation
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect		
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00		
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00		KOP Begin 3°/100' build
3	1930.18	27.91	60.943	1893.84	107.86	194.12	3.00	60.94	-60.99		Begin 27.91° tangent
4	4416.67	27.91	60.943	4091.20	673.05	1211.36	0.00	0.00	-380.62		Begin 3°/100' drop
5	5346.84	0.00	0.000	4985.04	780.91	1405.48	3.00	180.00	-441.61		Begin vertical hold
6	5446.84	0.00	0.000	5085.04	780.91	1405.48	0.00	0.00	-441.61		Begin 10°/100' build
7	6046.84	60.00	315.661	5581.24	985.80	1205.26	10.00	315.66	-155.15		Begin 60.00° tangent
8	6106.84	60.00	315.661	5611.24	1022.97	1168.94	0.00	0.00	-103.19		Begin 10°/100' build
9	6403.32	89.64	315.001	5688.00	1224.11	969.94	10.00	-1.33	179.75		Begin 89.64° lateral
10	15173.32	89.64	315.001	5743.00	7425.43	-5231.16	0.00	0.00	8949.58		PBHL/TD

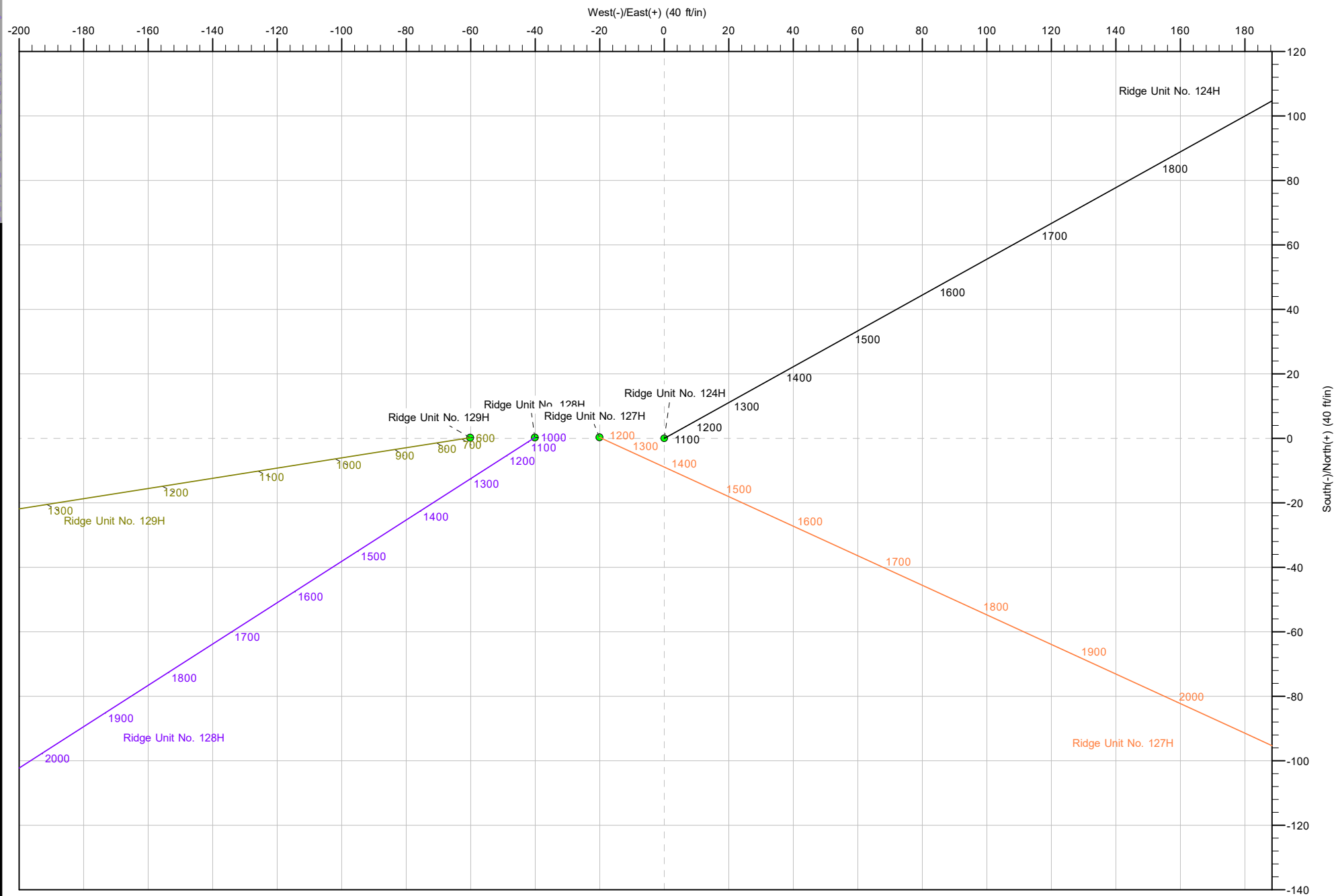


Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6923+25 @ 6948.00ft

Surface location:
Northing: 1923411.454 Easting: 2783418.160 Latitude: 36.285847000 Longitude: -107.628640000
Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.41°



Well: Ridge Unit No. 124H
Site: Ridge Unit (124, 127, 128 & 129)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig:





Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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

Site	Ridge Unit (124, 127, 128 & 129)		
Site Position:		Northing:	1,923,411.454 usft
From:	Lat/Long	Easting:	2,783,418.160 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.285847000
		Longitude:	-107.628640000

Well	Ridge Unit No. 124H, Surf loc: 2371 FNL 1232 FEL Sec23-T24N-R08W		
Well Position	+N/-S	0.00 ft	Northing: 1,923,411.454 usft
	+E/-W	0.00 ft	Easting: 2,783,418.160 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
Grid Convergence:	0.12 °	Ground Level:	6,923.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/15/2023	8.53	62.77	49,133.22589793

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	315.001

Plan Survey Tool Program	Date	8/16/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,173.32 rev1 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report

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Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,930.18	27.91	60.943	1,893.84	107.86	194.12	3.00	3.00	0.00	60.94	
4,416.67	27.91	60.943	4,091.20	673.05	1,211.36	0.00	0.00	0.00	0.00	
5,346.84	0.00	0.000	4,985.04	780.91	1,405.48	3.00	-3.00	0.00	180.00	
5,446.84	0.00	0.000	5,085.04	780.91	1,405.48	0.00	0.00	0.00	0.00	
6,046.84	60.00	315.661	5,581.24	985.80	1,205.26	10.00	10.00	0.00	315.66	
6,106.84	60.00	315.661	5,611.24	1,022.97	1,168.94	0.00	0.00	0.00	0.00	
6,403.32	89.64	315.001	5,688.00	1,224.11	969.94	10.00	10.00	-0.22	-1.33	
15,173.32	89.64	315.001	5,743.00	7,425.43	-5,231.16	0.00	0.00	0.00	0.00	Ridge 124H LTP 230



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Csg									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,100.00	3.00	60.943	1,099.95	1.27	2.29	-0.72	3.00	3.00	0.00
1,200.00	6.00	60.943	1,199.63	5.08	9.15	-2.87	3.00	3.00	0.00
1,300.00	9.00	60.943	1,298.77	11.42	20.55	-6.46	3.00	3.00	0.00
1,360.13	10.80	60.943	1,358.00	16.44	29.59	-9.30	3.00	3.00	0.00
Ojo Alamo									
1,400.00	12.00	60.943	1,397.08	20.27	36.48	-11.46	3.00	3.00	0.00
1,477.97	14.34	60.943	1,473.00	28.90	52.01	-16.34	3.00	3.00	0.00
Kirtland									
1,500.00	15.00	60.943	1,494.31	31.61	56.89	-17.87	3.00	3.00	0.00
1,600.00	18.00	60.943	1,590.18	45.40	81.71	-25.67	3.00	3.00	0.00
1,700.00	21.00	60.943	1,684.43	61.61	110.89	-34.84	3.00	3.00	0.00
1,736.09	22.08	60.943	1,718.00	68.05	122.47	-38.48	3.00	3.00	0.00
Fruitland									
1,800.00	24.00	60.943	1,776.81	80.19	144.33	-45.35	3.00	3.00	0.00
1,900.00	27.00	60.943	1,867.06	101.10	181.96	-57.17	3.00	3.00	0.00
1,930.18	27.91	60.943	1,893.84	107.86	194.12	-60.99	3.00	3.00	0.00
Begin 27.91° tangent									
2,000.00	27.91	60.943	1,955.54	123.73	222.69	-69.97	0.00	0.00	0.00
2,065.02	27.91	60.943	2,013.00	138.51	249.29	-78.33	0.00	0.00	0.00
Pictured Cliffs									
2,100.00	27.91	60.943	2,043.91	146.46	263.60	-82.82	0.00	0.00	0.00
2,200.00	27.91	60.943	2,132.29	169.19	304.51	-95.68	0.00	0.00	0.00
2,206.47	27.91	60.943	2,138.00	170.66	307.15	-96.51	0.00	0.00	0.00
Lewis									
2,300.00	27.91	60.943	2,220.66	191.92	345.42	-108.53	0.00	0.00	0.00
2,400.00	27.91	60.943	2,309.03	214.65	386.33	-121.39	0.00	0.00	0.00
2,500.00	27.91	60.943	2,397.40	237.38	427.24	-134.24	0.00	0.00	0.00
2,557.26	27.91	60.943	2,448.00	250.40	450.66	-141.60	0.00	0.00	0.00
Chacra									
2,600.00	27.91	60.943	2,485.77	260.11	468.15	-147.10	0.00	0.00	0.00
2,700.00	27.91	60.943	2,574.15	282.84	509.06	-159.95	0.00	0.00	0.00
2,800.00	27.91	60.943	2,662.52	305.57	549.97	-172.80	0.00	0.00	0.00
2,900.00	27.91	60.943	2,750.89	328.30	590.88	-185.66	0.00	0.00	0.00
3,000.00	27.91	60.943	2,839.26	351.04	631.79	-198.51	0.00	0.00	0.00
3,100.00	27.91	60.943	2,927.64	373.77	672.70	-211.37	0.00	0.00	0.00
3,200.00	27.91	60.943	3,016.01	396.50	713.61	-224.22	0.00	0.00	0.00
3,300.00	27.91	60.943	3,104.38	419.23	754.52	-237.08	0.00	0.00	0.00
3,400.00	27.91	60.943	3,192.75	441.96	795.43	-249.93	0.00	0.00	0.00
3,500.00	27.91	60.943	3,281.12	464.69	836.34	-262.78	0.00	0.00	0.00



Planning Report

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Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,600.00	27.91	60.943	3,369.50	487.42	877.26	-275.64	0.00	0.00	0.00
3,700.00	27.91	60.943	3,457.87	510.15	918.17	-288.49	0.00	0.00	0.00
3,800.00	27.91	60.943	3,546.24	532.88	959.08	-301.35	0.00	0.00	0.00
3,801.99	27.91	60.943	3,548.00	533.33	959.89	-301.60	0.00	0.00	0.00
Cliff House									
3,818.96	27.91	60.943	3,563.00	537.19	966.83	-303.79	0.00	0.00	0.00
Menefee									
3,900.00	27.91	60.943	3,634.61	555.61	999.99	-314.20	0.00	0.00	0.00
3,988.70	27.91	60.943	3,713.00	575.77	1,036.27	-325.60	0.00	0.00	0.00
9 5/8" Csg									
4,000.00	27.91	60.943	3,722.99	578.34	1,040.90	-327.06	0.00	0.00	0.00
4,100.00	27.91	60.943	3,811.36	601.07	1,081.81	-339.91	0.00	0.00	0.00
4,200.00	27.91	60.943	3,899.73	623.80	1,122.72	-352.77	0.00	0.00	0.00
4,300.00	27.91	60.943	3,988.10	646.53	1,163.63	-365.62	0.00	0.00	0.00
4,400.00	27.91	60.943	4,076.47	669.26	1,204.54	-378.47	0.00	0.00	0.00
4,416.67	27.91	60.943	4,091.20	673.05	1,211.36	-380.62	0.00	0.00	0.00
Begin 3°/100' drop									
4,500.00	25.41	60.943	4,165.67	691.21	1,244.03	-390.88	3.00	-3.00	0.00
4,600.00	22.41	60.943	4,257.09	710.89	1,279.45	-402.01	3.00	-3.00	0.00
4,700.00	19.41	60.943	4,350.49	728.22	1,310.64	-411.81	3.00	-3.00	0.00
4,744.89	18.06	60.943	4,393.00	735.22	1,323.24	-415.77	3.00	-3.00	0.00
Point Lookout									
4,800.00	16.41	60.943	4,445.64	743.15	1,337.51	-420.25	3.00	-3.00	0.00
4,900.00	13.41	60.943	4,542.26	755.64	1,359.99	-427.32	3.00	-3.00	0.00
4,992.78	10.62	60.943	4,633.00	765.02	1,376.87	-432.62	3.00	-3.00	0.00
Mancos									
5,000.00	10.41	60.943	4,640.10	765.66	1,378.03	-432.98	3.00	-3.00	0.00
5,100.00	7.41	60.943	4,738.88	773.17	1,391.56	-437.24	3.00	-3.00	0.00
5,200.00	4.41	60.943	4,838.34	778.17	1,400.55	-440.06	3.00	-3.00	0.00
5,300.00	1.41	60.943	4,938.20	780.63	1,404.98	-441.45	3.00	-3.00	0.00
5,346.84	0.00	0.000	4,985.04	780.91	1,405.48	-441.61	3.00	-3.00	0.00
Begin vertical hold									
5,364.80	0.00	0.000	5,003.00	780.91	1,405.48	-441.61	0.00	0.00	0.00
MNCS_A									
5,400.00	0.00	0.000	5,038.20	780.91	1,405.48	-441.61	0.00	0.00	0.00
5,444.80	0.00	0.000	5,083.00	780.91	1,405.48	-441.61	0.00	0.00	0.00
MNCS_B									
5,446.84	0.00	0.000	5,085.04	780.91	1,405.48	-441.61	0.00	0.00	0.00
Begin 10°/100' build									
5,450.00	0.32	315.661	5,088.20	780.92	1,405.47	-441.60	10.00	10.00	0.00
5,500.00	5.32	315.661	5,138.12	782.67	1,403.76	-439.15	10.00	10.00	0.00
5,550.00	10.32	315.661	5,187.64	787.53	1,399.01	-432.35	10.00	10.00	0.00
5,575.89	12.90	315.661	5,213.00	791.26	1,395.37	-427.14	10.00	10.00	0.00
MNCS_C									
5,600.00	15.32	315.661	5,236.38	795.46	1,391.26	-421.26	10.00	10.00	0.00
5,650.00	20.32	315.661	5,283.97	806.40	1,380.57	-405.97	10.00	10.00	0.00
5,665.04	21.82	315.661	5,298.00	810.27	1,376.79	-400.57	10.00	10.00	0.00
MNCS_Cms									
5,700.00	25.32	315.661	5,330.04	820.26	1,367.02	-386.59	10.00	10.00	0.00
5,737.06	29.02	315.661	5,363.00	832.36	1,355.20	-369.68	10.00	10.00	0.00
MNCS_D									
5,750.00	30.32	315.661	5,374.25	836.95	1,350.72	-363.27	10.00	10.00	0.00



Planning Report

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Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,800.00	35.32	315.661	5,416.26	856.32	1,331.79	-336.18	10.00	10.00	0.00	
5,833.49	38.66	315.661	5,443.00	870.73	1,317.71	-316.04	10.00	10.00	0.00	
MNCS_E										
5,850.00	40.32	315.661	5,455.74	878.24	1,310.37	-305.54	10.00	10.00	0.00	
5,900.00	45.32	315.661	5,492.41	902.53	1,286.63	-271.57	10.00	10.00	0.00	
5,908.01	46.12	315.661	5,498.00	906.64	1,282.62	-265.84	10.00	10.00	0.00	
MNCS_F										
5,950.00	50.32	315.661	5,525.97	929.02	1,260.74	-234.53	10.00	10.00	0.00	
6,000.00	55.32	315.661	5,556.18	957.51	1,232.91	-194.71	10.00	10.00	0.00	
6,046.84	60.00	315.661	5,581.24	985.80	1,205.26	-155.15	10.00	10.00	0.00	
Begin 60.00° tangent										
6,050.37	60.00	315.661	5,583.00	987.99	1,203.12	-152.10	0.00	0.00	0.00	
MNCS_G										
6,106.84	60.00	315.661	5,611.24	1,022.97	1,168.94	-103.19	0.00	0.00	0.00	
Begin 10°/100' build										
6,131.28	62.44	315.597	5,623.00	1,038.28	1,153.97	-81.78	10.00	10.00	-0.26	
MNCS_H										
6,150.00	64.31	315.550	5,631.39	1,050.23	1,142.25	-65.04	10.00	10.00	-0.25	
6,200.00	69.31	315.430	5,651.07	1,082.99	1,110.04	-19.10	10.00	10.00	-0.24	
6,250.00	74.31	315.318	5,666.67	1,116.79	1,076.68	28.39	10.00	10.00	-0.22	
6,275.43	76.86	315.264	5,673.00	1,134.30	1,059.35	53.02	10.00	10.00	-0.22	
MNCS_I										
6,300.00	79.31	315.212	5,678.07	1,151.36	1,042.43	77.05	10.00	10.00	-0.21	
6,350.00	84.31	315.109	5,685.19	1,186.44	1,007.54	126.53	10.00	10.00	-0.21	
6,403.32	89.64	315.001	5,688.00	1,224.11	969.94	179.75	10.00	10.00	-0.20	
Begin 89.64° lateral										
6,500.00	89.64	315.001	5,688.61	1,292.48	901.58	276.43	0.00	0.00	0.00	
6,600.00	89.64	315.001	5,689.24	1,363.19	830.87	376.43	0.00	0.00	0.00	
6,700.00	89.64	315.001	5,689.87	1,433.90	760.17	476.43	0.00	0.00	0.00	
6,800.00	89.64	315.001	5,690.49	1,504.61	689.46	576.43	0.00	0.00	0.00	
6,900.00	89.64	315.001	5,691.12	1,575.32	618.75	676.42	0.00	0.00	0.00	
7,000.00	89.64	315.001	5,691.75	1,646.03	548.04	776.42	0.00	0.00	0.00	
7,100.00	89.64	315.001	5,692.37	1,716.74	477.33	876.42	0.00	0.00	0.00	
7,200.00	89.64	315.001	5,693.00	1,787.45	406.63	976.42	0.00	0.00	0.00	
7,300.00	89.64	315.001	5,693.63	1,858.16	335.92	1,076.42	0.00	0.00	0.00	
7,400.00	89.64	315.001	5,694.25	1,928.87	265.21	1,176.41	0.00	0.00	0.00	
7,500.00	89.64	315.001	5,694.88	1,999.58	194.50	1,276.41	0.00	0.00	0.00	
7,600.00	89.64	315.001	5,695.51	2,070.29	123.79	1,376.41	0.00	0.00	0.00	
7,700.00	89.64	315.001	5,696.14	2,141.00	53.09	1,476.41	0.00	0.00	0.00	
7,800.00	89.64	315.001	5,696.76	2,211.71	-17.62	1,576.41	0.00	0.00	0.00	
7,900.00	89.64	315.001	5,697.39	2,282.42	-88.33	1,676.40	0.00	0.00	0.00	
8,000.00	89.64	315.001	5,698.02	2,353.13	-159.04	1,776.40	0.00	0.00	0.00	
8,100.00	89.64	315.001	5,698.64	2,423.85	-229.75	1,876.40	0.00	0.00	0.00	
8,200.00	89.64	315.001	5,699.27	2,494.56	-300.45	1,976.40	0.00	0.00	0.00	
8,300.00	89.64	315.001	5,699.90	2,565.27	-371.16	2,076.40	0.00	0.00	0.00	
8,400.00	89.64	315.001	5,700.53	2,635.98	-441.87	2,176.39	0.00	0.00	0.00	
8,500.00	89.64	315.001	5,701.15	2,706.69	-512.58	2,276.39	0.00	0.00	0.00	
8,600.00	89.64	315.001	5,701.78	2,777.40	-583.29	2,376.39	0.00	0.00	0.00	
8,700.00	89.64	315.001	5,702.41	2,848.11	-654.00	2,476.39	0.00	0.00	0.00	
8,800.00	89.64	315.001	5,703.03	2,918.82	-724.70	2,576.39	0.00	0.00	0.00	
8,900.00	89.64	315.001	5,703.66	2,989.53	-795.41	2,676.38	0.00	0.00	0.00	
9,000.00	89.64	315.001	5,704.29	3,060.24	-866.12	2,776.38	0.00	0.00	0.00	
9,100.00	89.64	315.001	5,704.92	3,130.95	-936.83	2,876.38	0.00	0.00	0.00	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,200.00	89.64	315.001	5,705.54	3,201.66	-1,007.54	2,976.38	0.00	0.00	0.00	
9,300.00	89.64	315.001	5,706.17	3,272.37	-1,078.24	3,076.38	0.00	0.00	0.00	
9,400.00	89.64	315.001	5,706.80	3,343.08	-1,148.95	3,176.37	0.00	0.00	0.00	
9,500.00	89.64	315.001	5,707.42	3,413.79	-1,219.66	3,276.37	0.00	0.00	0.00	
9,600.00	89.64	315.001	5,708.05	3,484.50	-1,290.37	3,376.37	0.00	0.00	0.00	
9,700.00	89.64	315.001	5,708.68	3,555.21	-1,361.08	3,476.37	0.00	0.00	0.00	
9,800.00	89.64	315.001	5,709.30	3,625.92	-1,431.78	3,576.37	0.00	0.00	0.00	
9,900.00	89.64	315.001	5,709.93	3,696.63	-1,502.49	3,676.36	0.00	0.00	0.00	
10,000.00	89.64	315.001	5,710.56	3,767.34	-1,573.20	3,776.36	0.00	0.00	0.00	
10,100.00	89.64	315.001	5,711.19	3,838.06	-1,643.91	3,876.36	0.00	0.00	0.00	
10,200.00	89.64	315.001	5,711.81	3,908.77	-1,714.62	3,976.36	0.00	0.00	0.00	
10,300.00	89.64	315.001	5,712.44	3,979.48	-1,785.32	4,076.36	0.00	0.00	0.00	
10,400.00	89.64	315.001	5,713.07	4,050.19	-1,856.03	4,176.35	0.00	0.00	0.00	
10,500.00	89.64	315.001	5,713.69	4,120.90	-1,926.74	4,276.35	0.00	0.00	0.00	
10,600.00	89.64	315.001	5,714.32	4,191.61	-1,997.45	4,376.35	0.00	0.00	0.00	
10,700.00	89.64	315.001	5,714.95	4,262.32	-2,068.16	4,476.35	0.00	0.00	0.00	
10,800.00	89.64	315.001	5,715.58	4,333.03	-2,138.87	4,576.35	0.00	0.00	0.00	
10,900.00	89.64	315.001	5,716.20	4,403.74	-2,209.57	4,676.34	0.00	0.00	0.00	
11,000.00	89.64	315.001	5,716.83	4,474.45	-2,280.28	4,776.34	0.00	0.00	0.00	
11,100.00	89.64	315.001	5,717.46	4,545.16	-2,350.99	4,876.34	0.00	0.00	0.00	
11,200.00	89.64	315.001	5,718.08	4,615.87	-2,421.70	4,976.34	0.00	0.00	0.00	
11,300.00	89.64	315.001	5,718.71	4,686.58	-2,492.41	5,076.34	0.00	0.00	0.00	
11,400.00	89.64	315.001	5,719.34	4,757.29	-2,563.11	5,176.34	0.00	0.00	0.00	
11,500.00	89.64	315.001	5,719.97	4,828.00	-2,633.82	5,276.33	0.00	0.00	0.00	
11,600.00	89.64	315.001	5,720.59	4,898.71	-2,704.53	5,376.33	0.00	0.00	0.00	
11,700.00	89.64	315.001	5,721.22	4,969.42	-2,775.24	5,476.33	0.00	0.00	0.00	
11,800.00	89.64	315.001	5,721.85	5,040.13	-2,845.95	5,576.33	0.00	0.00	0.00	
11,900.00	89.64	315.001	5,722.47	5,110.84	-2,916.65	5,676.33	0.00	0.00	0.00	
12,000.00	89.64	315.001	5,723.10	5,181.55	-2,987.36	5,776.32	0.00	0.00	0.00	
12,100.00	89.64	315.001	5,723.73	5,252.26	-3,058.07	5,876.32	0.00	0.00	0.00	
12,200.00	89.64	315.001	5,724.35	5,322.98	-3,128.78	5,976.32	0.00	0.00	0.00	
12,300.00	89.64	315.001	5,724.98	5,393.69	-3,199.49	6,076.32	0.00	0.00	0.00	
12,400.00	89.64	315.001	5,725.61	5,464.40	-3,270.19	6,176.32	0.00	0.00	0.00	
12,500.00	89.64	315.001	5,726.24	5,535.11	-3,340.90	6,276.31	0.00	0.00	0.00	
12,600.00	89.64	315.001	5,726.86	5,605.82	-3,411.61	6,376.31	0.00	0.00	0.00	
12,700.00	89.64	315.001	5,727.49	5,676.53	-3,482.32	6,476.31	0.00	0.00	0.00	
12,800.00	89.64	315.001	5,728.12	5,747.24	-3,553.03	6,576.31	0.00	0.00	0.00	
12,900.00	89.64	315.001	5,728.74	5,817.95	-3,623.73	6,676.31	0.00	0.00	0.00	
13,000.00	89.64	315.001	5,729.37	5,888.66	-3,694.44	6,776.30	0.00	0.00	0.00	
13,100.00	89.64	315.001	5,730.00	5,959.37	-3,765.15	6,876.30	0.00	0.00	0.00	
13,200.00	89.64	315.001	5,730.63	6,030.08	-3,835.86	6,976.30	0.00	0.00	0.00	
13,300.00	89.64	315.001	5,731.25	6,100.79	-3,906.57	7,076.30	0.00	0.00	0.00	
13,400.00	89.64	315.001	5,731.88	6,171.50	-3,977.28	7,176.30	0.00	0.00	0.00	
13,500.00	89.64	315.001	5,732.51	6,242.21	-4,047.98	7,276.29	0.00	0.00	0.00	
13,600.00	89.64	315.001	5,733.13	6,312.92	-4,118.69	7,376.29	0.00	0.00	0.00	
13,700.00	89.64	315.001	5,733.76	6,383.63	-4,189.40	7,476.29	0.00	0.00	0.00	
13,800.00	89.64	315.001	5,734.39	6,454.34	-4,260.11	7,576.29	0.00	0.00	0.00	
13,900.00	89.64	315.001	5,735.02	6,525.05	-4,330.82	7,676.29	0.00	0.00	0.00	
14,000.00	89.64	315.001	5,735.64	6,595.76	-4,401.52	7,776.28	0.00	0.00	0.00	
14,100.00	89.64	315.001	5,736.27	6,666.47	-4,472.23	7,876.28	0.00	0.00	0.00	
14,200.00	89.64	315.001	5,736.90	6,737.19	-4,542.94	7,976.28	0.00	0.00	0.00	
14,300.00	89.64	315.001	5,737.52	6,807.90	-4,613.65	8,076.28	0.00	0.00	0.00	
14,400.00	89.64	315.001	5,738.15	6,878.61	-4,684.36	8,176.28	0.00	0.00	0.00	
14,500.00	89.64	315.001	5,738.78	6,949.32	-4,755.06	8,276.27	0.00	0.00	0.00	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,600.00	89.64	315.001	5,739.40	7,020.03	-4,825.77	8,376.27	0.00	0.00	0.00
14,700.00	89.64	315.001	5,740.03	7,090.74	-4,896.48	8,476.27	0.00	0.00	0.00
14,800.00	89.64	315.001	5,740.66	7,161.45	-4,967.19	8,576.27	0.00	0.00	0.00
14,900.00	89.64	315.001	5,741.29	7,232.16	-5,037.90	8,676.27	0.00	0.00	0.00
15,000.00	89.64	315.001	5,741.91	7,302.87	-5,108.60	8,776.26	0.00	0.00	0.00
15,100.00	89.64	315.001	5,742.54	7,373.58	-5,179.31	8,876.26	0.00	0.00	0.00
15,173.32	89.64	315.001	5,743.00	7,425.43	-5,231.16	8,949.58	0.00	0.00	0.00
PBHL/TD @ 15173.32 MD 5743.00 TVD									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ridge 124H FTP 1136 F - plan misses target center by 0.01ft at 6403.32ft MD (5688.00 TVD, 1224.11 N, 969.94 E) - Point	0.00	0.000	5,688.00	1,224.11	969.94	1,924,635.562	2,784,388.100	36.289204000	-107.625340000
Ridge 124H LTP 230 FN - plan hits target center - Point	0.00	0.000	5,743.00	7,425.43	-5,231.16	1,930,836.866	2,778,187.012	36.306274000	-107.646341000

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Csg	13-3/8	17-1/2	
3,988.70	3,713.00	9 5/8" Csg	9-5/8	12-1/4	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,360.13	1,358.00	Ojo Alamo				
1,477.97	1,473.00	Kirtland				
1,736.09	1,718.00	Fruitland				
2,065.02	2,013.00	Pictured Cliffs				
2,206.47	2,138.00	Lewis				
2,557.26	2,448.00	Chacra				
3,801.99	3,548.00	Cliff House				
3,818.96	3,563.00	Menefee				
4,744.89	4,393.00	Point Lookout				
4,992.78	4,633.00	Mancos				
5,364.80	5,003.00	MNCS_A				
5,444.80	5,083.00	MNCS_B				
5,575.89	5,213.00	MNCS_C				
5,665.04	5,298.00	MNCS_Cms				
5,737.06	5,363.00	MNCS_D				
5,833.49	5,443.00	MNCS_E				
5,908.01	5,498.00	MNCS_F				
6,050.37	5,583.00	MNCS_G				
6,131.28	5,623.00	MNCS_H				
6,275.43	5,673.00	MNCS_I				

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	
1,930.18	1,893.84	107.86	194.12	Begin 27.91° tangent	
4,416.67	4,091.20	673.05	1,211.36	Begin 3°/100' drop	
5,346.84	4,985.04	780.91	1,405.48	Begin vertical hold	
5,446.84	5,085.04	780.91	1,405.48	Begin 10°/100' build	
6,046.84	5,581.24	985.80	1,205.26	Begin 60.00° tangent	
6,106.84	5,611.24	1,022.97	1,168.94	Begin 10°/100' build	
6,403.32	5,688.00	1,224.11	969.94	Begin 89.64° lateral	
15,173.32	5,743.00	7,425.43	-5,231.16	PBHL/TD @ 15173.32 MD 5743.00 TVD	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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

Site		Ridge Unit (124, 127, 128 & 129)			
Site Position:		Northing:	1,923,411.454 usft	Latitude:	36.285847000
From:	Lat/Long	Easting:	2,783,418.160 usft	Longitude:	-107.628640000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Ridge Unit No. 124H, Surf loc: 2371 FNL 1232 FEL Sec23-T24N-R08W					
Well Position	+N/-S	0.00 ft	Northing:	1,923,411.454 usft	Latitude:	36.285847000
	+E/-W	0.00 ft	Easting:	2,783,418.160 usft	Longitude:	-107.628640000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,923.00 ft
Grid Convergence:		0.12 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	8/15/2023	8.53	62.77	49,133.22589793

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	315.001

Plan Survey Tool Program	Date	8/16/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,173.32 rev1 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,930.18	27.91	60.943	1,893.84	107.86	194.12	3.00	3.00	0.00	60.94	
4,416.67	27.91	60.943	4,091.20	673.05	1,211.36	0.00	0.00	0.00	0.00	
5,346.84	0.00	0.000	4,985.04	780.91	1,405.48	3.00	-3.00	0.00	180.00	
5,446.84	0.00	0.000	5,085.04	780.91	1,405.48	0.00	0.00	0.00	0.00	
6,046.84	60.00	315.661	5,581.24	985.80	1,205.26	10.00	10.00	0.00	315.66	
6,106.84	60.00	315.661	5,611.24	1,022.97	1,168.94	0.00	0.00	0.00	0.00	
6,403.32	89.64	315.001	5,688.00	1,224.11	969.94	10.00	10.00	-0.22	-1.33	
15,173.32	89.64	315.001	5,743.00	7,425.43	-5,231.16	0.00	0.00	0.00	0.00	Ridge 124H LTP 230



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
100.00	0.00	0.000	100.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
200.00	0.00	0.000	200.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
300.00	0.00	0.000	300.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
350.00	0.00	0.000	350.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
13 3/8" Csg									
400.00	0.00	0.000	400.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
500.00	0.00	0.000	500.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
600.00	0.00	0.000	600.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
700.00	0.00	0.000	700.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
800.00	0.00	0.000	800.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
900.00	0.00	0.000	900.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,923,411.454	2,783,418.160	36.285847000	-107.628640000
KOP Begin 3"/100' build									
1,100.00	3.00	60.943	1,099.95	1.27	2.29	1,923,412.725	2,783,420.448	36.285850479	-107.628632228
1,200.00	6.00	60.943	1,199.63	5.08	9.15	1,923,416.535	2,783,427.305	36.285860906	-107.628608932
1,300.00	9.00	60.943	1,298.77	11.42	20.55	1,923,422.874	2,783,438.714	36.285878252	-107.628570177
1,360.13	10.80	60.943	1,358.00	16.44	29.59	1,923,427.896	2,783,447.752	36.285891995	-107.628539473
Ojo Alamo									
1,400.00	12.00	60.943	1,397.08	20.27	36.48	1,923,431.724	2,783,454.642	36.285902471	-107.628516069
1,477.97	14.34	60.943	1,473.00	28.90	52.01	1,923,440.352	2,783,470.170	36.285926081	-107.628463319
Kirtland									
1,500.00	15.00	60.943	1,494.31	31.61	56.89	1,923,443.061	2,783,475.045	36.285933495	-107.628446755
1,600.00	18.00	60.943	1,590.18	45.40	81.71	1,923,456.853	2,783,499.869	36.285971239	-107.628362427
1,700.00	21.00	60.943	1,684.43	61.61	110.89	1,923,473.064	2,783,529.045	36.286015601	-107.628263315
1,736.09	22.08	60.943	1,718.00	68.05	122.47	1,923,479.500	2,783,540.628	36.286033213	-107.628223967
Fruitland									
1,800.00	24.00	60.943	1,776.81	80.19	144.33	1,923,491.648	2,783,562.493	36.286066458	-107.628149690
1,900.00	27.00	60.943	1,867.06	101.10	181.96	1,923,512.555	2,783,600.121	36.286123671	-107.628021865
1,930.18	27.91	60.943	1,893.84	107.86	194.12	1,923,519.312	2,783,612.282	36.286142161	-107.627980554
Begin 27.91° tangent									
2,000.00	27.91	60.943	1,955.54	123.73	222.69	1,923,535.183	2,783,640.847	36.286185594	-107.627883516
2,065.02	27.91	60.943	2,013.00	138.51	249.29	1,923,549.962	2,783,667.446	36.286226038	-107.627793154
Pictured Cliffs									
2,100.00	27.91	60.943	2,043.91	146.46	263.60	1,923,557.913	2,783,681.757	36.286247797	-107.627744539
2,200.00	27.91	60.943	2,132.29	169.19	304.51	1,923,580.644	2,783,722.667	36.286310000	-107.627605563
2,206.47	27.91	60.943	2,138.00	170.66	307.15	1,923,582.114	2,783,725.313	36.286314022	-107.627596576
Lewis									
2,300.00	27.91	60.943	2,220.66	191.92	345.42	1,923,603.375	2,783,763.578	36.286372203	-107.627466586
2,400.00	27.91	60.943	2,309.03	214.65	386.33	1,923,626.105	2,783,804.488	36.286434406	-107.627327609
2,500.00	27.91	60.943	2,397.40	237.38	427.24	1,923,648.836	2,783,845.399	36.286496608	-107.627188632
2,557.26	27.91	60.943	2,448.00	250.40	450.66	1,923,661.850	2,783,868.822	36.286532223	-107.627109060
Chacra									
2,600.00	27.91	60.943	2,485.77	260.11	468.15	1,923,671.566	2,783,886.309	36.286558811	-107.627049655
2,700.00	27.91	60.943	2,574.15	282.84	509.06	1,923,694.297	2,783,927.219	36.286621013	-107.626910677
2,800.00	27.91	60.943	2,662.52	305.57	549.97	1,923,717.027	2,783,968.130	36.286683215	-107.626771699
2,900.00	27.91	60.943	2,750.89	328.30	590.88	1,923,739.758	2,784,009.040	36.286745417	-107.626632721
3,000.00	27.91	60.943	2,839.26	351.04	631.79	1,923,762.488	2,784,049.951	36.286807619	-107.626493743
3,100.00	27.91	60.943	2,927.64	373.77	672.70	1,923,785.219	2,784,090.861	36.286869821	-107.626354764
3,200.00	27.91	60.943	3,016.01	396.50	713.61	1,923,807.949	2,784,131.771	36.286932022	-107.626215786
3,300.00	27.91	60.943	3,104.38	419.23	754.52	1,923,830.680	2,784,172.682	36.286994224	-107.626076807
3,400.00	27.91	60.943	3,192.75	441.96	795.43	1,923,853.411	2,784,213.592	36.287056425	-107.625937828
3,500.00	27.91	60.943	3,281.12	464.69	836.34	1,923,876.141	2,784,254.503	36.287118626	-107.625798848



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,600.00	27.91	60.943	3,369.50	487.42	877.26	1,923,898.872	2,784,295.413	36.287180827	-107.625659869
3,700.00	27.91	60.943	3,457.87	510.15	918.17	1,923,921.602	2,784,336.323	36.287243027	-107.625520889
3,800.00	27.91	60.943	3,546.24	532.88	959.08	1,923,944.333	2,784,377.234	36.287305228	-107.625381909
3,801.99	27.91	60.943	3,548.00	533.33	959.89	1,923,944.785	2,784,378.048	36.287306466	-107.625379142
Cliff House									
3,818.96	27.91	60.943	3,563.00	537.19	966.83	1,923,948.643	2,784,384.992	36.287317024	-107.625355552
Menefee									
3,900.00	27.91	60.943	3,634.61	555.61	999.99	1,923,967.063	2,784,418.144	36.287367428	-107.625242928
3,988.70	27.91	60.943	3,713.00	575.77	1,036.27	1,923,987.225	2,784,454.432	36.287422600	-107.625119652
9 5/8" Csg									
4,000.00	27.91	60.943	3,722.99	578.34	1,040.90	1,923,989.794	2,784,459.054	36.287429628	-107.625103948
4,100.00	27.91	60.943	3,811.36	601.07	1,081.81	1,924,012.524	2,784,499.965	36.287491828	-107.624964967
4,200.00	27.91	60.943	3,899.73	623.80	1,122.72	1,924,035.255	2,784,540.875	36.287554028	-107.624825986
4,300.00	27.91	60.943	3,988.10	646.53	1,163.63	1,924,057.986	2,784,581.786	36.287616228	-107.624687005
4,400.00	27.91	60.943	4,076.47	669.26	1,204.54	1,924,080.716	2,784,622.696	36.287678428	-107.624548024
4,416.67	27.91	60.943	4,091.20	673.05	1,211.36	1,924,084.505	2,784,629.515	36.287688795	-107.624524859
Begin 3°/100' drop									
4,500.00	25.41	60.943	4,165.67	691.21	1,244.03	1,924,102.660	2,784,662.191	36.287738476	-107.624413849
4,600.00	22.41	60.943	4,257.09	710.89	1,279.45	1,924,122.339	2,784,697.610	36.287792324	-107.624293526
4,700.00	19.41	60.943	4,350.49	728.22	1,310.64	1,924,139.668	2,784,728.797	36.287839741	-107.624187574
4,744.89	18.06	60.943	4,393.00	735.22	1,323.24	1,924,146.669	2,784,741.398	36.287858899	-107.624144768
Point Lookout									
4,800.00	16.41	60.943	4,445.64	743.15	1,337.51	1,924,154.598	2,784,755.669	36.287880596	-107.624096285
4,900.00	13.41	60.943	4,542.26	755.64	1,359.99	1,924,167.090	2,784,778.151	36.287914777	-107.624019908
4,992.78	10.62	60.943	4,633.00	765.02	1,376.87	1,924,176.468	2,784,795.030	36.287940440	-107.623962566
Mancos									
5,000.00	10.41	60.943	4,640.10	765.66	1,378.03	1,924,177.108	2,784,796.182	36.287942191	-107.623958653
5,100.00	7.41	60.943	4,738.88	773.17	1,391.56	1,924,184.626	2,784,809.712	36.287962762	-107.623912688
5,200.00	4.41	60.943	4,838.34	778.17	1,400.55	1,924,189.622	2,784,818.704	36.287976434	-107.623882138
5,300.00	1.41	60.943	4,938.20	780.63	1,404.98	1,924,192.083	2,784,823.135	36.287983169	-107.623867088
5,346.84	0.00	0.000	4,985.04	780.91	1,405.48	1,924,192.362	2,784,823.637	36.287983932	-107.623865382
Begin vertical hold									
5,364.80	0.00	0.000	5,003.00	780.91	1,405.48	1,924,192.362	2,784,823.637	36.287983932	-107.623865382
MNCS_A									
5,400.00	0.00	0.000	5,038.20	780.91	1,405.48	1,924,192.362	2,784,823.637	36.287983932	-107.623865382
5,444.80	0.00	0.000	5,083.00	780.91	1,405.48	1,924,192.362	2,784,823.637	36.287983932	-107.623865382
MNCS_B									
5,446.84	0.00	0.000	5,085.04	780.91	1,405.48	1,924,192.362	2,784,823.637	36.287983932	-107.623865382
Begin 10°/100' build									
5,450.00	0.32	315.661	5,088.20	780.92	1,405.47	1,924,192.369	2,784,823.631	36.287983950	-107.623865403
5,500.00	5.32	315.661	5,138.12	782.67	1,403.76	1,924,194.125	2,784,821.915	36.287988784	-107.623871212
5,550.00	10.32	315.661	5,187.64	787.53	1,399.01	1,924,198.986	2,784,817.164	36.288002166	-107.623887296
5,575.89	12.90	315.661	5,213.00	791.26	1,395.37	1,924,202.713	2,784,813.523	36.288012425	-107.623899625
MNCS_C									
5,600.00	15.32	315.661	5,236.38	795.46	1,391.26	1,924,206.916	2,784,809.415	36.288023996	-107.623913531
5,650.00	20.32	315.661	5,283.97	806.40	1,380.57	1,924,217.853	2,784,798.727	36.288054106	-107.623949717
5,665.04	21.82	315.661	5,298.00	810.27	1,376.79	1,924,221.720	2,784,794.949	36.288064750	-107.623962510
MNCS_Cms									
5,700.00	25.32	315.661	5,330.04	820.26	1,367.02	1,924,231.716	2,784,785.181	36.288092267	-107.623995580
5,737.06	29.02	315.661	5,363.00	832.36	1,355.20	1,924,243.815	2,784,773.358	36.288125574	-107.624035609
MNCS_D									
5,750.00	30.32	315.661	5,374.25	836.95	1,350.72	1,924,248.398	2,784,768.880	36.288138189	-107.624050770
5,800.00	35.32	315.661	5,416.26	856.32	1,331.79	1,924,267.771	2,784,749.948	36.288191522	-107.624114868



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,833.49	38.66	315.661	5,443.00	870.73	1,317.71	1,924,282.180	2,784,735.867	36.288231188	-107.624162539	
MNCS_E										
5,850.00	40.32	315.661	5,455.74	878.24	1,310.37	1,924,289.690	2,784,728.529	36.288251861	-107.624187385	
5,900.00	45.32	315.661	5,492.41	902.53	1,286.63	1,924,313.987	2,784,704.786	36.288318747	-107.624267769	
5,908.01	46.12	315.661	5,498.00	906.64	1,282.62	1,924,318.088	2,784,700.779	36.288330036	-107.624281337	
MNCS_F										
5,950.00	50.32	315.661	5,525.97	929.02	1,260.74	1,924,340.477	2,784,678.901	36.288391669	-107.624355410	
6,000.00	55.32	315.661	5,556.18	957.51	1,232.91	1,924,368.958	2,784,651.069	36.288470074	-107.624449639	
6,046.84	60.00	315.661	5,581.24	985.80	1,205.26	1,924,397.257	2,784,623.416	36.288547974	-107.624543263	
Begin 60.00° tangent										
6,050.37	60.00	315.661	5,583.00	987.99	1,203.12	1,924,399.442	2,784,621.281	36.288553990	-107.624550493	
MNCS_G										
6,106.84	60.00	315.661	5,611.24	1,022.97	1,168.94	1,924,434.420	2,784,587.100	36.288650279	-107.624666218	
Begin 10°/100' build										
6,131.28	62.44	315.597	5,623.00	1,038.28	1,153.97	1,924,449.730	2,784,572.123	36.288692425	-107.624716928	
MNCS_H										
6,150.00	64.31	315.550	5,631.39	1,050.23	1,142.25	1,924,461.680	2,784,560.410	36.288725321	-107.624756585	
6,200.00	69.31	315.430	5,651.07	1,082.99	1,110.04	1,924,494.445	2,784,528.199	36.288815519	-107.624865644	
6,250.00	74.31	315.318	5,666.67	1,116.79	1,076.68	1,924,528.242	2,784,494.840	36.288908557	-107.624978590	
6,275.43	76.86	315.264	5,673.00	1,134.30	1,059.35	1,924,545.747	2,784,477.511	36.288956748	-107.625037262	
MNCS_I										
6,300.00	79.31	315.212	5,678.07	1,151.36	1,042.43	1,924,562.812	2,784,460.587	36.289003726	-107.625094564	
6,350.00	84.31	315.109	5,685.19	1,186.44	1,007.54	1,924,597.893	2,784,425.702	36.289100301	-107.625126883	
6,403.32	89.64	315.001	5,688.00	1,224.11	969.94	1,924,635.564	2,784,388.102	36.289204007	-107.625339990	
Begin 89.64° lateral										
6,500.00	89.64	315.001	5,688.61	1,292.48	901.58	1,924,703.929	2,784,319.740	36.289392211	-107.625571460	
6,600.00	89.64	315.001	5,689.24	1,363.19	830.87	1,924,774.639	2,784,249.032	36.289586872	-107.625810873	
6,700.00	89.64	315.001	5,689.87	1,433.90	760.17	1,924,845.349	2,784,178.325	36.289781532	-107.626050288	
6,800.00	89.64	315.001	5,690.49	1,504.61	689.46	1,924,916.060	2,784,107.617	36.289976193	-107.626289704	
6,900.00	89.64	315.001	5,691.12	1,575.32	618.75	1,924,986.770	2,784,036.909	36.290170852	-107.626529121	
7,000.00	89.64	315.001	5,691.75	1,646.03	548.04	1,925,057.480	2,783,966.201	36.290365511	-107.626768540	
7,100.00	89.64	315.001	5,692.37	1,716.74	477.33	1,925,128.191	2,783,895.493	36.290560170	-107.627007959	
7,200.00	89.64	315.001	5,693.00	1,787.45	406.63	1,925,198.901	2,783,824.785	36.290754828	-107.627247380	
7,300.00	89.64	315.001	5,693.63	1,858.16	335.92	1,925,269.611	2,783,754.077	36.290949486	-107.627486802	
7,400.00	89.64	315.001	5,694.25	1,928.87	265.21	1,925,340.322	2,783,683.369	36.291144143	-107.627726225	
7,500.00	89.64	315.001	5,694.88	1,999.58	194.50	1,925,411.032	2,783,612.661	36.291338800	-107.627965649	
7,600.00	89.64	315.001	5,695.51	2,070.29	123.79	1,925,481.742	2,783,541.953	36.291533456	-107.628205075	
7,700.00	89.64	315.001	5,696.14	2,141.00	53.09	1,925,552.453	2,783,471.245	36.291728112	-107.628444502	
7,800.00	89.64	315.001	5,696.76	2,211.71	-17.62	1,925,623.163	2,783,400.537	36.291922767	-107.628683930	
7,900.00	89.64	315.001	5,697.39	2,282.42	-88.33	1,925,693.874	2,783,329.829	36.292117422	-107.628923359	
8,000.00	89.64	315.001	5,698.02	2,353.13	-159.04	1,925,764.584	2,783,259.121	36.292312076	-107.629162789	
8,100.00	89.64	315.001	5,698.64	2,423.85	-229.75	1,925,835.294	2,783,188.413	36.292506730	-107.629402220	
8,200.00	89.64	315.001	5,699.27	2,494.56	-300.45	1,925,906.005	2,783,117.705	36.292701383	-107.629641653	
8,300.00	89.64	315.001	5,699.90	2,565.27	-371.16	1,925,976.715	2,783,046.997	36.292896036	-107.629881087	
8,400.00	89.64	315.001	5,700.53	2,635.98	-441.87	1,926,047.425	2,782,976.290	36.293090689	-107.630120522	
8,500.00	89.64	315.001	5,701.15	2,706.69	-512.58	1,926,118.136	2,782,905.582	36.293285340	-107.630359958	
8,600.00	89.64	315.001	5,701.78	2,777.40	-583.29	1,926,188.846	2,782,834.874	36.293479992	-107.630599396	
8,700.00	89.64	315.001	5,702.41	2,848.11	-654.00	1,926,259.556	2,782,764.166	36.293674643	-107.630838834	
8,800.00	89.64	315.001	5,703.03	2,918.82	-724.70	1,926,330.267	2,782,693.458	36.293869293	-107.631078274	
8,900.00	89.64	315.001	5,703.66	2,989.53	-795.41	1,926,400.977	2,782,622.750	36.294063943	-107.631317715	
9,000.00	89.64	315.001	5,704.29	3,060.24	-866.12	1,926,471.688	2,782,552.042	36.294258593	-107.631557157	
9,100.00	89.64	315.001	5,704.92	3,130.95	-936.83	1,926,542.399	2,782,481.334	36.294453242	-107.631796601	
9,200.00	89.64	315.001	5,705.54	3,201.66	-1,007.54	1,926,613.109	2,782,410.626	36.294647890	-107.632036045	
9,300.00	89.64	315.001	5,706.17	3,272.37	-1,078.24	1,926,683.819	2,782,339.918	36.294842538	-107.632275491	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude		Longitude
9,400.00	89.64	315.001	5,706.80	3,343.08	-1,148.95	1,926,754.530	2,782,269.210	36.295037186		-107.632514938
9,500.00	89.64	315.001	5,707.42	3,413.79	-1,219.66	1,926,825.240	2,782,198.502	36.295231833		-107.632754386
9,600.00	89.64	315.001	5,708.05	3,484.50	-1,290.37	1,926,895.950	2,782,127.794	36.295426479		-107.632993835
9,700.00	89.64	315.001	5,708.68	3,555.21	-1,361.08	1,926,966.661	2,782,057.086	36.295621125		-107.633233286
9,800.00	89.64	315.001	5,709.30	3,625.92	-1,431.78	1,927,037.371	2,781,986.378	36.295815770		-107.633472737
9,900.00	89.64	315.001	5,709.93	3,696.63	-1,502.49	1,927,108.081	2,781,915.670	36.296010415		-107.633712190
10,000.00	89.64	315.001	5,710.56	3,767.34	-1,573.20	1,927,178.792	2,781,844.962	36.296205060		-107.633951644
10,100.00	89.64	315.001	5,711.19	3,838.06	-1,643.91	1,927,249.502	2,781,774.255	36.296399704		-107.634191100
10,200.00	89.64	315.001	5,711.81	3,908.77	-1,714.62	1,927,320.212	2,781,703.547	36.296594348		-107.634430556
10,300.00	89.64	315.001	5,712.44	3,979.48	-1,785.32	1,927,390.923	2,781,632.839	36.296788991		-107.634670014
10,400.00	89.64	315.001	5,713.07	4,050.19	-1,856.03	1,927,461.633	2,781,562.131	36.296983634		-107.634909473
10,500.00	89.64	315.001	5,713.69	4,120.90	-1,926.74	1,927,532.343	2,781,491.423	36.297178276		-107.635148933
10,600.00	89.64	315.001	5,714.32	4,191.61	-1,997.45	1,927,603.054	2,781,420.715	36.297372918		-107.635388394
10,700.00	89.64	315.001	5,714.95	4,262.32	-2,068.16	1,927,673.764	2,781,350.007	36.297567559		-107.635627856
10,800.00	89.64	315.001	5,715.58	4,333.03	-2,138.87	1,927,744.474	2,781,279.299	36.297762200		-107.635867320
10,900.00	89.64	315.001	5,716.20	4,403.74	-2,209.57	1,927,815.185	2,781,208.591	36.297956840		-107.636106785
11,000.00	89.64	315.001	5,716.83	4,474.45	-2,280.28	1,927,885.895	2,781,137.883	36.298151480		-107.636346251
11,100.00	89.64	315.001	5,717.46	4,545.16	-2,350.99	1,927,956.606	2,781,067.175	36.298346120		-107.636585718
11,200.00	89.64	315.001	5,718.08	4,615.87	-2,421.70	1,928,027.316	2,780,996.467	36.298540759		-107.636825186
11,300.00	89.64	315.001	5,718.71	4,686.58	-2,492.41	1,928,098.026	2,780,925.759	36.298735397		-107.637064656
11,400.00	89.64	315.001	5,719.34	4,757.29	-2,563.11	1,928,168.737	2,780,855.051	36.298930035		-107.637304126
11,500.00	89.64	315.001	5,719.97	4,828.00	-2,633.82	1,928,239.447	2,780,784.343	36.299124672		-107.637543598
11,600.00	89.64	315.001	5,720.59	4,898.71	-2,704.53	1,928,310.157	2,780,713.635	36.299319309		-107.637783071
11,700.00	89.64	315.001	5,721.22	4,969.42	-2,775.24	1,928,380.868	2,780,642.927	36.299513946		-107.638022546
11,800.00	89.64	315.001	5,721.85	5,040.13	-2,845.95	1,928,451.578	2,780,572.220	36.299708582		-107.638262021
11,900.00	89.64	315.001	5,722.47	5,110.84	-2,916.65	1,928,522.288	2,780,501.512	36.299903217		-107.638501498
12,000.00	89.64	315.001	5,723.10	5,181.55	-2,987.36	1,928,592.999	2,780,430.804	36.300097852		-107.638740976
12,100.00	89.64	315.001	5,723.73	5,252.26	-3,058.07	1,928,663.709	2,780,360.096	36.300292487		-107.638980455
12,200.00	89.64	315.001	5,724.35	5,322.98	-3,128.78	1,928,734.419	2,780,289.388	36.300487121		-107.639219935
12,300.00	89.64	315.001	5,724.98	5,393.69	-3,199.49	1,928,805.130	2,780,218.680	36.300681754		-107.639459417
12,400.00	89.64	315.001	5,725.61	5,464.40	-3,270.19	1,928,875.840	2,780,147.972	36.300876388		-107.639698899
12,500.00	89.64	315.001	5,726.24	5,535.11	-3,340.90	1,928,946.550	2,780,077.264	36.301071020		-107.639938383
12,600.00	89.64	315.001	5,726.86	5,605.82	-3,411.61	1,929,017.261	2,780,006.556	36.301265652		-107.640177868
12,700.00	89.64	315.001	5,727.49	5,676.53	-3,482.32	1,929,087.971	2,779,935.848	36.301460284		-107.640417354
12,800.00	89.64	315.001	5,728.12	5,747.24	-3,553.03	1,929,158.681	2,779,865.140	36.301654915		-107.640656842
12,900.00	89.64	315.001	5,728.74	5,817.95	-3,623.73	1,929,229.392	2,779,794.432	36.301849546		-107.640896330
13,000.00	89.64	315.001	5,729.37	5,888.66	-3,694.44	1,929,300.102	2,779,723.724	36.302044176		-107.641135820
13,100.00	89.64	315.001	5,730.00	5,959.37	-3,765.15	1,929,370.812	2,779,653.016	36.302238806		-107.641375311
13,200.00	89.64	315.001	5,730.63	6,030.08	-3,835.86	1,929,441.523	2,779,582.308	36.302433435		-107.641614803
13,300.00	89.64	315.001	5,731.25	6,100.79	-3,906.57	1,929,512.233	2,779,511.600	36.302628064		-107.641854296
13,400.00	89.64	315.001	5,731.88	6,171.50	-3,977.28	1,929,582.943	2,779,440.892	36.302822692		-107.642093791
13,500.00	89.64	315.001	5,732.51	6,242.21	-4,047.98	1,929,653.654	2,779,370.185	36.303017320		-107.642333287
13,600.00	89.64	315.001	5,733.13	6,312.92	-4,118.69	1,929,724.364	2,779,299.477	36.303211947		-107.642572784
13,700.00	89.64	315.001	5,733.76	6,383.63	-4,189.40	1,929,795.074	2,779,228.769	36.303406574		-107.642812282
13,800.00	89.64	315.001	5,734.39	6,454.34	-4,260.11	1,929,865.785	2,779,158.061	36.303601200		-107.643051781
13,900.00	89.64	315.001	5,735.02	6,525.05	-4,330.82	1,929,936.495	2,779,087.353	36.303795826		-107.643291282
14,000.00	89.64	315.001	5,735.64	6,595.76	-4,401.52	1,930,007.206	2,779,016.645	36.303990451		-107.643530783
14,100.00	89.64	315.001	5,736.27	6,666.47	-4,472.23	1,930,077.916	2,778,945.937	36.304185076		-107.643770286
14,200.00	89.64	315.001	5,736.90	6,737.19	-4,542.94	1,930,148.626	2,778,875.229	36.304379701		-107.644009790
14,300.00	89.64	315.001	5,737.52	6,807.90	-4,613.65	1,930,219.337	2,778,804.521	36.304574325		-107.644249295
14,400.00	89.64	315.001	5,738.15	6,878.61	-4,684.36	1,930,290.047	2,778,733.813	36.304768948		-107.644488802
14,500.00	89.64	315.001	5,738.78	6,949.32	-4,755.06	1,930,360.757	2,778,663.105	36.304963571		-107.644728309
14,600.00	89.64	315.001	5,739.40	7,020.03	-4,825.77	1,930,431.468	2,778,592.397	36.305158194		-107.644967818
14,700.00	89.64	315.001	5,740.03	7,090.74	-4,896.48	1,930,502.178	2,778,521.689	36.305352816		-107.645207328
14,800.00	89.64	315.001	5,740.66	7,161.45	-4,967.19	1,930,572.888	2,778,450.981	36.305547437		-107.645446839



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,900.00	89.64	315.001	5,741.29	7,232.16	-5,037.90	1,930,643.599	2,778,380.273	36.305742058	-107.645686352
15,000.00	89.64	315.001	5,741.91	7,302.87	-5,108.60	1,930,714.309	2,778,309.565	36.305936679	-107.645925865
15,100.00	89.64	315.001	5,742.54	7,373.58	-5,179.31	1,930,785.019	2,778,238.857	36.306131299	-107.646165380
15,173.32	89.64	315.001	5,743.00	7,425.43	-5,231.16	1,930,836.866	2,778,187.012	36.306274000	-107.646341000
PBHL/TD @ 15173.32 MD 5743.00 TVD									

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Ridge 124H FTP 1136 F	0.00	0.000	5,688.00	1,224.11	969.94	1,924,635.562	2,784,388.100	36.289204000	-107.625340000	
- plan misses target center by 0.01ft at 6403.32ft MD (5688.00 TVD, 1224.11 N, 969.94 E)										
- Point										
Ridge 124H LTP 230 FN	0.00	0.000	5,743.00	7,425.43	-5,231.16	1,930,836.866	2,778,187.012	36.306274000	-107.646341000	
- plan hits target center										
- Point										

Casing Points							Casing Diameter (")	Hole Diameter (")
Measured Depth (ft)	Vertical Depth (ft)	Name						
350.00	350.00	13 3/8" Csg					13-3/8	17-1/2
3,988.70	3,713.00	9 5/8" Csg					9-5/8	12-1/4



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6923+25 @ 6948.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6923+25 @ 6948.00ft
Site:	Ridge Unit (124, 127, 128 & 129)	North Reference:	Grid
Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,360.13	1,358.00	Ojo Alamo				
1,477.97	1,473.00	Kirtland				
1,736.09	1,718.00	Fruitland				
2,065.02	2,013.00	Pictured Cliffs				
2,206.47	2,138.00	Lewis				
2,557.26	2,448.00	Chacra				
3,801.99	3,548.00	Cliff House				
3,818.96	3,563.00	Menefee				
4,744.89	4,393.00	Point Lookout				
4,992.78	4,633.00	Mancos				
5,364.80	5,003.00	MNCS_A				
5,444.80	5,083.00	MNCS_B				
5,575.89	5,213.00	MNCS_C				
5,665.04	5,298.00	MNCS_Cms				
5,737.06	5,363.00	MNCS_D				
5,833.49	5,443.00	MNCS_E				
5,908.01	5,498.00	MNCS_F				
6,050.37	5,583.00	MNCS_G				
6,131.28	5,623.00	MNCS_H				
6,275.43	5,673.00	MNCS_I				

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	
1,930.18	1,893.84	107.86	194.12	Begin 27.91° tangent	
4,416.67	4,091.20	673.05	1,211.36	Begin 3°/100' drop	
5,346.84	4,985.04	780.91	1,405.48	Begin vertical hold	
5,446.84	5,085.04	780.91	1,405.48	Begin 10°/100' build	
6,046.84	5,581.24	985.80	1,205.26	Begin 60.00° tangent	
6,106.84	5,611.24	1,022.97	1,168.94	Begin 10°/100' build	
6,403.32	5,688.00	1,224.11	969.94	Begin 89.64° lateral	
15,173.32	5,743.00	7,425.43	-5,231.16	PBHL/TD @ 15173.32 MD 5743.00 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Ridge Unit No. 124H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference	rev1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,717.33ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	8/16/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.00	15,173.32	rev1 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance		Separation	Warning
Offset Well - Wellbore - Design	Depth (ft)	Depth (ft)	Between Centres (ft)	Between Ellipses (ft)	Factor	
Ridge Unit (124, 127, 128 & 129)						
Ridge Unit No. 127H - Original Hole - rev1	1,000.00	1,000.00	20.04	13.32	2.982	CC, ES
Ridge Unit No. 127H - Original Hole - rev1	15,173.32	15,481.92	1,200.56	765.49	2.759	SF
Ridge Unit No. 128H - Original Hole - rev1	1,000.00	1,000.00	40.08	33.36	5.964	CC, ES, SF
Ridge Unit No. 129H - Original Hole - rev1	600.00	600.00	60.12	56.27	15.602	CC, ES
Ridge Unit No. 129H - Original Hole - rev1	800.00	793.31	70.14	64.91	13.408	SF

Offset Design:	Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 127H - Original Hole - rev1											Offset Site Error:	0.00 ft
Survey Program:	0-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Tooface (")	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-89.08	0.32	-20.04	20.04				
100.00	100.00	100.00	100.00	0.13	0.13	-89.08	0.32	-20.04	20.04	19.78	0.27	74.554	
200.00	200.00	200.00	200.00	0.49	0.49	-89.08	0.32	-20.04	20.04	19.06	0.99	20.333	
300.00	300.00	300.00	300.00	0.85	0.85	-89.08	0.32	-20.04	20.04	18.34	1.70	11.772	
400.00	400.00	400.00	400.00	1.21	1.21	-89.08	0.32	-20.04	20.04	17.62	2.42	8.284	
500.00	500.00	500.00	500.00	1.57	1.57	-89.08	0.32	-20.04	20.04	16.91	3.14	6.390	
600.00	600.00	600.00	600.00	1.93	1.93	-89.08	0.32	-20.04	20.04	16.19	3.85	5.201	
700.00	700.00	700.00	700.00	2.29	2.29	-89.08	0.32	-20.04	20.04	15.47	4.57	4.386	
800.00	800.00	800.00	800.00	2.64	2.64	-89.08	0.32	-20.04	20.04	14.76	5.29	3.791	
900.00	900.00	900.00	900.00	3.00	3.00	-89.08	0.32	-20.04	20.04	14.04	6.00	3.338	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.08	0.32	-20.04	20.04	13.32	6.72	2.982	CC, ES
1,100.00	1,099.95	1,099.95	1,099.95	3.72	3.72	-153.35	0.32	-20.04	22.35	14.92	7.43	3.007	
1,200.00	1,199.63	1,200.84	1,200.79	4.07	4.07	-163.30	-0.79	-17.62	27.43	19.30	8.13	3.375	
1,300.00	1,298.77	1,301.43	1,301.06	4.43	4.41	-177.57	-4.10	-10.40	34.70	25.89	8.81	3.938	
1,400.00	1,397.08	1,401.41	1,400.16	4.82	4.76	168.48	-9.57	1.53	46.06	36.54	9.53	4.836	
1,500.00	1,494.31	1,500.44	1,497.51	5.23	5.13	157.26	-17.12	17.98	62.44	52.15	10.28	6.073	
1,600.00	1,590.18	1,598.23	1,592.60	5.68	5.53	148.92	-26.62	38.70	83.92	72.84	11.08	7.571	
1,700.00	1,684.43	1,694.52	1,684.97	6.18	5.96	142.74	-37.95	63.39	110.31	98.36	11.95	9.233	
1,800.00	1,776.81	1,789.34	1,774.94	6.74	6.42	138.67	-50.42	90.58	141.25	128.38	12.87	10.976	
1,900.00	1,867.06	1,883.02	1,863.80	7.38	6.90	136.89	-62.78	117.53	176.12	162.28	13.84	12.725	
2,000.00	1,955.54	1,975.68	1,951.70	8.08	7.40	136.75	-75.01	144.20	213.71	198.86	14.85	14.390	
2,100.00	2,043.91	2,068.28	2,039.53	8.83	7.91	136.86	-87.23	170.85	251.46	235.57	15.89	15.822	

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 Ridge Unit No. 124H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 127H - Original Hole - rev1											Offset Site Error:		0.00 ft	
Survey Program:		0-MWD								Rule Assigned:				Offset Well Error:		0.00 ft
Measured Depth (ft)	Vertical Reference Depth (ft)	Measured Depth (ft)	Vertical Offset Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning			
2,200.00	2,132.29	2,160.88	2,127.37	9.61	8.44	136.94	-99.45	197.49	289.22	272.25	16.97	17.047				
2,300.00	2,220.66	2,253.48	2,215.21	10.41	8.97	137.00	-111.68	224.14	326.97	308.91	18.07	18.099				
2,400.00	2,309.03	2,346.08	2,303.04	11.22	9.52	137.05	-123.90	250.78	364.72	345.54	19.19	19.010				
2,500.00	2,397.40	2,438.67	2,390.88	12.05	10.07	137.09	-136.12	277.43	402.48	382.15	20.33	19.802				
2,600.00	2,485.77	2,531.27	2,478.71	12.89	10.63	137.13	-148.34	304.08	440.23	418.75	21.48	20.496				
2,700.00	2,574.15	2,623.87	2,566.55	13.74	11.19	137.16	-160.56	330.72	477.99	455.34	22.65	21.107				
2,800.00	2,662.52	2,716.47	2,654.39	14.59	11.76	137.18	-172.79	357.37	515.74	491.92	23.82	21.648				
2,900.00	2,750.89	2,809.07	2,742.22	15.46	12.34	137.20	-185.01	384.02	553.50	528.49	25.01	22.130				
3,000.00	2,839.26	2,901.67	2,830.06	16.32	12.91	137.22	-197.23	410.66	591.25	565.04	26.21	22.562				
3,100.00	2,927.64	2,994.27	2,917.89	17.19	13.49	137.23	-209.45	437.31	629.01	601.60	27.41	22.949				
3,200.00	3,016.01	3,086.87	3,005.73	18.07	14.08	137.25	-221.67	463.95	666.76	638.14	28.62	23.299				
3,300.00	3,104.38	3,179.47	3,093.57	18.95	14.66	137.26	-233.89	490.60	704.51	674.68	29.83	23.617				
3,400.00	3,192.75	3,272.07	3,181.40	19.83	15.25	137.27	-246.12	517.25	742.27	711.22	31.05	23.905				
3,500.00	3,281.12	3,364.66	3,269.24	20.72	15.83	137.28	-258.34	543.89	780.02	747.75	32.27	24.169				
3,600.00	3,369.50	3,457.26	3,357.07	21.60	16.42	137.29	-270.56	570.54	817.78	784.28	33.50	24.411				
3,700.00	3,457.87	3,549.86	3,444.91	22.49	17.02	137.30	-282.78	597.19	855.53	820.80	34.73	24.633				
3,800.00	3,546.24	3,642.46	3,532.75	23.38	17.61	137.31	-295.00	623.83	893.29	857.32	35.96	24.838				
3,900.00	3,634.61	3,735.06	3,620.58	24.27	18.20	137.32	-307.23	650.48	931.04	893.84	37.20	25.028				
4,000.00	3,722.99	3,827.66	3,708.42	25.16	18.80	137.32	-319.45	677.12	968.80	930.36	38.44	25.203				
4,100.00	3,811.36	3,920.26	3,796.26	26.06	19.39	137.33	-331.67	703.77	1,006.55	966.87	39.68	25.367				
4,200.00	3,899.73	4,012.86	3,884.09	26.95	19.99	137.33	-343.89	730.42	1,044.31	1,003.38	40.92	25.519				
4,300.00	3,988.10	4,105.46	3,971.93	27.85	20.59	137.34	-356.11	757.06	1,082.06	1,039.89	42.17	25.661				
4,400.00	4,076.47	4,198.05	4,059.76	28.75	21.19	137.35	-368.34	783.71	1,119.82	1,076.40	43.41	25.793				
4,500.00	4,165.67	4,291.14	4,148.06	29.62	21.79	137.34	-380.62	810.49	1,156.32	1,111.66	44.66	25.891				
4,600.00	4,257.09	4,385.44	4,237.51	30.40	22.40	138.40	-393.07	837.63	1,189.25	1,143.34	45.90	25.908				
4,700.00	4,350.49	4,483.37	4,330.82	31.11	23.01	138.67	-405.46	864.65	1,218.41	1,171.27	47.14	25.849				
4,800.00	4,445.64	4,583.89	4,427.99	31.73	23.58	138.92	-416.16	887.98	1,243.54	1,195.26	48.27	25.760				
4,900.00	4,542.26	4,685.83	4,527.77	32.28	24.08	139.17	-424.82	906.87	1,264.52	1,215.24	49.29	25.656				
5,000.00	4,640.10	4,788.87	4,629.62	32.74	24.52	139.43	-431.31	921.01	1,281.29	1,231.12	50.17	25.539				
5,100.00	4,738.88	4,892.68	4,732.93	33.13	24.89	139.69	-435.52	930.19	1,293.77	1,242.85	50.92	25.410				
5,200.00	4,838.34	4,996.90	4,837.04	33.45	25.19	139.96	-437.39	934.26	1,301.92	1,250.40	51.53	25.266				
5,300.00	4,938.20	5,098.07	4,938.20	33.70	25.43	140.17	-437.49	934.48	1,305.83	1,253.81	52.02	25.105				
5,400.00	5,038.20	5,198.06	5,038.20	33.89	25.67	-158.86	-437.49	934.48	1,306.27	1,253.79	52.48	24.889				
5,500.00	5,138.12	5,298.95	5,060.23	34.07	26.02	-104.19	-238.57	735.55	1,291.36	1,241.70	49.66	26.002				
5,600.00	5,236.38	5,900.47	5,599.89	34.21	26.14	-104.16	-189.82	686.80	1,264.59	1,214.72	49.87	25.359				
5,700.00	5,330.04	6,086.08	5,661.16	34.32	26.74	-99.85	-66.55	563.52	1,241.65	1,192.00	49.65	25.009				
5,800.00	5,416.26	6,194.48	5,670.06	34.39	27.29	-97.58	9.74	487.24	1,222.45	1,172.28	50.17	24.367				
5,900.00	5,492.41	6,259.52	5,670.42	34.43	27.73	-96.53	55.72	441.25	1,209.73	1,158.87	50.86	23.786				
6,000.00	5,556.18	6,336.72	5,670.85	34.44	28.33	-94.89	110.31	386.66	1,202.93	1,151.27	51.65	23.288				
6,100.00	5,607.81	6,422.60	5,671.32	34.42	29.11	-92.97	171.04	325.93	1,200.12	1,147.44	52.68	22.781				
6,191.51	5,647.52	6,505.18	5,671.78	34.39	29.97	-91.25	229.42	267.54	1,199.48	1,145.62	53.86	22.271				
6,200.00	5,651.07	6,512.86	5,671.82	34.39	30.05	-91.08	234.86	262.11	1,199.48	1,145.51	53.97	22.224				
6,300.00	5,678.07	6,609.16	5,672.36	34.34	31.19	-89.77	302.95	194.01	1,199.85	1,144.17	55.68	21.549				
6,400.00	5,687.97	6,708.60	5,672.91	34.27	32.49	-89.28	373.26	123.70	1,200.13	1,142.32	57.81	20.761				
6,500.00	5,688.61	6,808.60	5,673.46	34.20	33.91	-89.28	443.97	52.99	1,200.13	1,139.87	60.26	19.917				
6,600.00	5,689.24	6,908.60	5,674.02	34.13	35.42	-89.27	514.67	-17.72	1,200.13	1,137.18	62.96	19.063				
6,700.00	5,689.87	7,008.60	5,674.57	34.07	37.02	-89.27	585.38	-88.43	1,200.14	1,134.27	65.87	18.221				
6,800.00	5,690.49	7,108.60	5,675.12	34.03	38.69	-89.27	656.09	-159.14	1,200.14	1,131.18	68.96	17.403				
6,900.00	5,691.12	7,208.60	5,675.68	33.99	40.42	-89.26	726.80	-229.86	1,200.15	1,127.93	72.22	16.617				
7,000.00	5,691.75	7,308.60	5,676.23	34.02	42.21	-89.26	797.51	-300.57	1,200.15	1,124.53	75.62	15.870				
7,100.00	5,692.37	7,408.60	5,676.79	35.38	44.04	-89.26	868.21	-371.28	1,200.16	1,121.01	79.15	15.163				
7,200.00	5,693.00	7,508.60	5,677.34	37.15	45.92	-89.25	938.92	-441.99	1,200.16	1,117.39	82.78	14.499				

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 Ridge Unit No. 124H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 127H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
7,300.00	5,693.63	7,608.60	5,677.90	38.97	47.84	-89.25	1,009.63	-512.70	1,200.17	1,113.67	86.50	13.875	
7,400.00	5,694.25	7,708.60	5,678.45	40.85	49.78	-89.25	1,080.34	-583.41	1,200.17	1,109.87	90.30	13.290	
7,500.00	5,694.88	7,808.60	5,679.00	42.77	51.76	-89.24	1,151.05	-654.12	1,200.18	1,106.00	94.18	12.744	
7,600.00	5,695.51	7,908.60	5,679.56	44.72	53.76	-89.24	1,221.75	-724.83	1,200.18	1,102.07	98.12	12.232	
7,700.00	5,696.14	8,008.59	5,680.11	46.69	55.78	-89.24	1,292.46	-795.54	1,200.19	1,098.08	102.11	11.754	
7,800.00	5,696.76	8,108.59	5,680.67	48.70	57.83	-89.23	1,363.17	-866.26	1,200.19	1,094.04	106.15	11.307	
7,900.00	5,697.39	8,208.59	5,681.22	50.73	59.89	-89.23	1,433.88	-936.97	1,200.20	1,089.96	110.23	10.888	
8,000.00	5,698.02	8,308.59	5,681.78	52.78	61.97	-89.22	1,504.59	-1,007.68	1,200.20	1,085.85	114.36	10.495	
8,100.00	5,698.64	8,408.59	5,682.33	54.85	64.06	-89.22	1,575.29	-1,078.39	1,200.21	1,081.69	118.51	10.127	
8,200.00	5,699.27	8,508.59	5,682.88	56.94	66.17	-89.22	1,646.00	-1,149.10	1,200.21	1,077.51	122.70	9.781	
8,300.00	5,699.90	8,608.59	5,683.44	59.04	68.29	-89.21	1,716.71	-1,219.81	1,200.22	1,073.30	126.92	9.457	
8,400.00	5,700.53	8,708.59	5,683.99	61.15	70.42	-89.21	1,787.42	-1,290.52	1,200.22	1,069.06	131.16	9.151	
8,500.00	5,701.15	8,808.59	5,684.55	63.28	72.56	-89.21	1,858.13	-1,361.23	1,200.23	1,064.80	135.42	8.863	
8,600.00	5,701.78	8,908.59	5,685.10	65.41	74.70	-89.20	1,928.84	-1,431.94	1,200.23	1,060.52	139.71	8.591	
8,700.00	5,702.41	9,008.59	5,685.65	67.56	76.86	-89.20	1,999.54	-1,502.66	1,200.24	1,056.22	144.01	8.334	
8,800.00	5,703.03	9,108.59	5,686.21	69.72	79.03	-89.20	2,070.25	-1,573.37	1,200.24	1,051.91	148.33	8.092	
8,900.00	5,703.66	9,208.59	5,686.76	71.88	81.20	-89.19	2,140.96	-1,644.08	1,200.25	1,047.58	152.67	7.862	
9,000.00	5,704.29	9,308.59	5,687.32	74.05	83.38	-89.19	2,211.67	-1,714.79	1,200.25	1,043.23	157.02	7.644	
9,100.00	5,704.92	9,408.59	5,687.87	76.23	85.56	-89.19	2,282.38	-1,785.50	1,200.26	1,038.87	161.38	7.437	
9,200.00	5,705.54	9,508.59	5,688.43	78.42	87.75	-89.18	2,353.08	-1,856.21	1,200.26	1,034.50	165.76	7.241	
9,300.00	5,706.17	9,608.59	5,688.98	80.61	89.95	-89.18	2,423.79	-1,926.92	1,200.27	1,030.12	170.15	7.054	
9,400.00	5,706.80	9,708.59	5,689.53	82.80	92.15	-89.18	2,494.50	-1,997.63	1,200.27	1,025.73	174.54	6.877	
9,500.00	5,707.42	9,808.59	5,690.09	85.00	94.36	-89.17	2,565.21	-2,068.34	1,200.28	1,021.33	178.95	6.707	
9,600.00	5,708.05	9,908.59	5,690.64	87.21	96.56	-89.17	2,635.92	-2,139.05	1,200.28	1,016.92	183.36	6.546	
9,700.00	5,708.68	10,008.59	5,691.20	89.42	98.78	-89.17	2,706.62	-2,209.77	1,200.28	1,012.50	187.79	6.392	
9,800.00	5,709.30	10,108.59	5,691.75	91.64	100.99	-89.16	2,777.33	-2,280.48	1,200.29	1,008.07	192.22	6.244	
9,900.00	5,709.93	10,208.59	5,692.30	93.85	103.21	-89.16	2,848.04	-2,351.19	1,200.29	1,003.64	196.66	6.103	
10,000.00	5,710.56	10,308.59	5,692.86	96.07	105.44	-89.16	2,918.75	-2,421.90	1,200.30	999.20	201.10	5.969	
10,100.00	5,711.19	10,408.59	5,693.41	98.30	107.66	-89.15	2,989.46	-2,492.61	1,200.30	994.75	205.56	5.839	
10,200.00	5,711.81	10,508.59	5,693.97	100.53	109.89	-89.15	3,060.16	-2,563.32	1,200.31	990.30	210.01	5.715	
10,300.00	5,712.44	10,608.59	5,694.52	102.76	112.13	-89.14	3,130.87	-2,634.03	1,200.31	985.84	214.48	5.597	
10,400.00	5,713.07	10,708.59	5,695.08	104.99	114.36	-89.14	3,201.58	-2,704.74	1,200.32	981.38	218.94	5.482	
10,500.00	5,713.69	10,808.59	5,695.63	107.23	116.60	-89.14	3,272.29	-2,775.45	1,200.32	976.91	223.42	5.373	
10,600.00	5,714.32	10,908.59	5,696.18	109.47	118.84	-89.13	3,343.00	-2,846.17	1,200.33	972.44	227.89	5.267	
10,700.00	5,714.95	11,008.59	5,696.74	111.71	121.08	-89.13	3,413.70	-2,916.88	1,200.33	967.96	232.38	5.166	
10,800.00	5,715.58	11,108.59	5,697.29	113.95	123.32	-89.13	3,484.41	-2,987.59	1,200.34	963.48	236.86	5.068	
10,900.00	5,716.20	11,208.59	5,697.85	116.19	125.56	-89.12	3,555.12	-3,058.30	1,200.34	958.99	241.35	4.973	
11,000.00	5,716.83	11,308.59	5,698.40	118.44	127.81	-89.12	3,625.83	-3,129.01	1,200.35	954.51	245.84	4.883	
11,100.00	5,717.46	11,408.59	5,698.96	120.69	130.06	-89.12	3,696.54	-3,199.72	1,200.35	950.01	250.34	4.795	
11,200.00	5,718.08	11,508.59	5,699.51	122.94	132.31	-89.11	3,767.24	-3,270.43	1,200.36	945.52	254.84	4.710	
11,300.00	5,718.71	11,608.59	5,700.06	125.19	134.56	-89.11	3,837.95	-3,341.14	1,200.36	941.02	259.34	4.628	
11,400.00	5,719.34	11,708.59	5,700.62	127.44	136.81	-89.11	3,908.66	-3,411.85	1,200.37	936.52	263.85	4.549	
11,500.00	5,719.97	11,808.59	5,701.17	129.70	139.07	-89.10	3,979.37	-3,482.57	1,200.37	932.02	268.36	4.473	
11,600.00	5,720.59	11,908.59	5,701.73	131.95	141.32	-89.10	4,050.08	-3,553.28	1,200.38	927.51	272.87	4.399	
11,700.00	5,721.22	12,008.59	5,702.28	134.21	143.58	-89.10	4,120.78	-3,623.99	1,200.38	923.00	277.38	4.328	
11,800.00	5,721.85	12,108.59	5,702.83	136.47	145.84	-89.09	4,191.49	-3,694.70	1,200.39	918.49	281.89	4.258	
11,900.00	5,722.47	12,208.59	5,703.39	138.73	148.09	-89.09	4,262.20	-3,765.41	1,200.39	913.98	286.41	4.191	
12,000.00	5,723.10	12,308.59	5,703.94	140.99	150.35	-89.09	4,332.91	-3,836.12	1,200.40	909.47	290.93	4.126	
12,100.00	5,723.73	12,408.59	5,704.50	143.25	152.62	-89.08	4,403.62	-3,906.83	1,200.40	904.95	295.45	4.063	
12,200.00	5,724.35	12,508.59	5,705.05	145.51	154.88	-89.08	4,474.33	-3,977.54	1,200.41	900.43	299.98	4.002	
12,300.00	5,724.98	12,608.59	5,705.61	147.77	157.14	-89.08	4,545.03	-4,048.25	1,200.41	895.91	304.50	3.942	
12,400.00	5,725.61	12,708.59	5,706.16	150.04	159.40	-89.07	4,615.74	-4,118.97	1,200.42	891.39	309.03	3.884	

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 Ridge Unit No. 124H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 127H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
12,500.00	5,726.24	12,808.59	5,706.71	152.30	161.67	-89.07	4,686.45	-4,189.68	1,200.42	886.86	313.56	3.828	
12,600.00	5,726.86	12,908.59	5,707.27	154.57	163.94	-89.06	4,757.16	-4,260.39	1,200.43	882.34	318.09	3.774	
12,700.00	5,727.49	13,008.59	5,707.82	156.84	166.20	-89.06	4,827.87	-4,331.10	1,200.43	877.81	322.62	3.721	
12,800.00	5,728.12	13,108.59	5,708.38	159.11	168.47	-89.06	4,898.57	-4,401.81	1,200.44	873.28	327.16	3.669	
12,900.00	5,728.74	13,208.59	5,708.93	161.37	170.74	-89.05	4,969.28	-4,472.52	1,200.44	868.75	331.69	3.619	
13,000.00	5,729.37	13,308.59	5,709.49	163.64	173.01	-89.05	5,039.99	-4,543.23	1,200.45	864.22	336.23	3.570	
13,100.00	5,730.00	13,408.59	5,710.04	165.91	175.27	-89.05	5,110.70	-4,613.94	1,200.45	859.69	340.77	3.523	
13,200.00	5,730.63	13,508.59	5,710.59	168.18	177.54	-89.04	5,181.41	-4,684.65	1,200.46	855.15	345.31	3.477	
13,300.00	5,731.25	13,608.59	5,711.15	170.45	179.81	-89.04	5,252.11	-4,755.37	1,200.46	850.62	349.85	3.431	
13,400.00	5,731.88	13,708.59	5,711.70	172.73	182.09	-89.04	5,322.82	-4,826.08	1,200.47	846.08	354.39	3.387	
13,500.00	5,732.51	13,808.59	5,712.26	175.00	184.36	-89.03	5,393.53	-4,896.79	1,200.47	841.55	358.93	3.345	
13,600.00	5,733.13	13,908.59	5,712.81	177.27	186.63	-89.03	5,464.24	-4,967.50	1,200.48	837.01	363.47	3.303	
13,700.00	5,733.76	14,008.59	5,713.36	179.54	188.90	-89.03	5,534.95	-5,038.21	1,200.48	832.47	368.02	3.262	
13,800.00	5,734.39	14,108.59	5,713.92	181.82	191.18	-89.02	5,605.65	-5,108.92	1,200.49	827.93	372.56	3.222	
13,900.00	5,735.02	14,208.59	5,714.47	184.09	193.45	-89.02	5,676.36	-5,179.63	1,200.49	823.39	377.11	3.183	
14,000.00	5,735.64	14,308.59	5,715.03	186.37	195.72	-89.02	5,747.07	-5,250.34	1,200.50	818.84	381.66	3.145	
14,100.00	5,736.27	14,408.59	5,715.58	188.64	198.00	-89.01	5,817.78	-5,321.05	1,200.51	814.30	386.20	3.108	
14,200.00	5,736.90	14,508.59	5,716.14	190.92	200.27	-89.01	5,888.49	-5,391.77	1,200.51	809.76	390.75	3.072	
14,300.00	5,737.52	14,608.59	5,716.69	193.20	202.55	-89.01	5,959.19	-5,462.48	1,200.52	805.21	395.30	3.037	
14,400.00	5,738.15	14,708.59	5,717.24	195.47	204.83	-89.00	6,029.90	-5,533.19	1,200.52	800.67	399.85	3.002	
14,500.00	5,738.78	14,808.59	5,717.80	197.75	207.10	-89.00	6,100.61	-5,603.90	1,200.53	796.12	404.40	2.969	
14,600.00	5,739.40	14,908.59	5,718.35	200.03	209.38	-89.00	6,171.32	-5,674.61	1,200.53	791.57	408.96	2.936	
14,700.00	5,740.03	15,008.59	5,718.91	202.31	211.66	-88.99	6,242.03	-5,745.32	1,200.54	787.03	413.51	2.903	
14,800.00	5,740.66	15,108.59	5,719.46	204.58	213.93	-88.99	6,312.73	-5,816.03	1,200.54	782.48	418.06	2.872	
14,900.00	5,741.29	15,208.59	5,720.02	206.86	216.21	-88.98	6,383.44	-5,886.74	1,200.55	777.93	422.62	2.841	
15,000.00	5,741.91	15,308.59	5,720.57	209.14	218.49	-88.98	6,454.15	-5,957.45	1,200.55	773.38	427.17	2.810	
15,100.00	5,742.54	15,408.59	5,721.12	211.42	220.77	-88.98	6,524.86	-6,028.17	1,200.56	768.83	431.73	2.781	
15,173.32	5,743.00	15,481.92	5,721.53	213.09	222.44	-88.98	6,576.70	-6,080.01	1,200.56	765.49	435.07	2.759 SF	

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



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Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 128H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-89.60	0.28	-40.08	40.08				
100.00	100.00	100.00	100.00	0.13	0.13	-89.60	0.28	-40.08	40.08	39.81	0.27	149.090	
200.00	200.00	200.00	200.00	0.49	0.49	-89.60	0.28	-40.08	40.08	39.10	0.99	40.661	
300.00	300.00	300.00	300.00	0.85	0.85	-89.60	0.28	-40.08	40.08	38.38	1.70	23.540	
400.00	400.00	400.00	400.00	1.21	1.21	-89.60	0.28	-40.08	40.08	37.66	2.42	16.566	
500.00	500.00	500.00	500.00	1.57	1.57	-89.60	0.28	-40.08	40.08	36.95	3.14	12.779	
600.00	600.00	600.00	600.00	1.93	1.93	-89.60	0.28	-40.08	40.08	36.23	3.85	10.402	
700.00	700.00	700.00	700.00	2.29	2.29	-89.60	0.28	-40.08	40.08	35.51	4.57	8.770	
800.00	800.00	800.00	800.00	2.64	2.64	-89.60	0.28	-40.08	40.08	34.80	5.29	7.581	
900.00	900.00	900.00	900.00	3.00	3.00	-89.60	0.28	-40.08	40.08	34.08	6.00	6.676	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.60	0.28	-40.08	40.08	33.36	6.72	5.964 CC, ES, SF	
1,100.00	1,099.95	1,098.01	1,097.97	3.72	3.70	-153.88	-1.08	-42.20	44.59	37.18	7.41	6.018	
1,200.00	1,199.63	1,194.46	1,194.13	4.07	4.03	-160.65	-5.06	-48.41	58.70	50.63	8.07	7.273	
1,300.00	1,298.77	1,287.90	1,286.81	4.43	4.35	-166.63	-11.41	-58.32	82.97	74.26	8.71	9.526	
1,400.00	1,397.08	1,377.05	1,374.61	4.82	4.68	-170.73	-19.74	-71.31	117.16	107.84	9.32	12.577	
1,500.00	1,494.31	1,462.93	1,458.46	5.23	5.02	-173.44	-29.76	-86.93	160.42	150.51	9.91	16.189	
1,600.00	1,590.18	1,549.89	1,543.16	5.68	5.38	-175.22	-40.39	-103.51	209.47	198.92	10.55	19.860	
1,700.00	1,684.43	1,634.15	1,625.23	6.18	5.74	-176.38	-50.69	-119.58	263.11	251.93	11.18	23.533	
1,800.00	1,776.81	1,715.48	1,704.44	6.74	6.10	-177.18	-60.63	-135.08	321.16	309.36	11.80	27.215	
1,900.00	1,867.06	1,793.65	1,780.58	7.38	6.45	-177.76	-70.19	-149.99	383.41	371.01	12.41	30.903	
2,000.00	1,955.54	1,869.31	1,854.27	8.08	6.80	-178.24	-79.43	-164.41	448.75	435.75	13.00	34.520	
2,100.00	2,043.91	1,944.80	1,927.81	8.83	7.15	-178.62	-88.66	-178.80	514.28	500.70	13.58	37.861	
2,200.00	2,132.29	2,020.30	2,001.34	9.61	7.51	-178.92	-97.89	-193.20	579.82	565.65	14.17	40.905	
2,300.00	2,220.66	2,095.80	2,074.88	10.41	7.87	-179.16	-107.12	-207.59	645.37	630.59	14.77	43.683	
2,400.00	2,309.03	2,171.30	2,148.41	11.22	8.23	-179.35	-116.35	-221.99	710.92	695.54	15.38	46.223	
2,500.00	2,397.40	2,246.79	2,221.95	12.05	8.60	-179.51	-125.58	-236.38	776.48	760.49	15.99	48.555	
2,600.00	2,485.77	2,322.29	2,295.48	12.89	8.97	-179.64	-134.81	-250.77	842.04	825.43	16.61	50.699	
2,700.00	2,574.15	2,397.79	2,369.02	13.74	9.34	-179.76	-144.04	-265.17	907.60	890.37	17.23	52.676	
2,800.00	2,662.52	2,473.29	2,442.56	14.59	9.71	-179.86	-153.27	-279.56	973.16	955.31	17.86	54.501	
2,900.00	2,750.89	2,548.78	2,516.09	15.46	10.09	-179.95	-162.50	-293.96	1,038.73	1,020.24	18.49	56.192	
3,000.00	2,839.26	2,624.28	2,589.63	16.32	10.46	179.98	-171.72	-308.35	1,104.29	1,085.18	19.12	57.762	
3,100.00	2,927.64	2,699.78	2,663.16	17.19	10.84	179.91	-180.95	-322.75	1,169.86	1,150.11	19.75	59.222	
3,200.00	3,016.01	2,775.28	2,736.70	18.07	11.22	179.85	-190.18	-337.14	1,235.43	1,215.04	20.39	60.581	
3,300.00	3,104.38	2,850.77	2,810.23	18.95	11.60	179.79	-199.41	-351.53	1,301.00	1,279.97	21.03	61.851	
3,400.00	3,192.75	2,926.27	2,883.77	19.83	11.98	179.74	-208.64	-365.93	1,366.57	1,344.89	21.68	63.038	
3,500.00	3,281.12	3,001.77	2,957.30	20.72	12.36	179.70	-217.87	-380.32	1,432.14	1,409.82	22.32	64.152	
3,600.00	3,369.50	3,077.26	3,030.84	21.60	12.74	179.66	-227.10	-394.72	1,497.71	1,474.74	22.97	65.196	
3,700.00	3,457.87	3,152.76	3,104.38	22.49	13.12	179.62	-236.33	-409.11	1,563.28	1,539.66	23.62	66.177	
3,800.00	3,546.24	3,228.26	3,177.91	23.38	13.51	179.58	-245.56	-423.51	1,628.85	1,604.58	24.27	67.102	
3,900.00	3,634.61	3,303.76	3,251.45	24.27	13.89	179.55	-254.79	-437.90	1,694.42	1,669.50	24.93	67.973	

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



Anticollision Report

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Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 129H - Original Hole - rev1												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)	Measured Depth (ft)	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	-89.77	0.24	-60.12	60.12				
100.00	100.00	100.00	100.00	0.13	0.13	-89.77	0.24	-60.12	60.12	59.85	0.27	223.629	
200.00	200.00	200.00	200.00	0.49	0.49	-89.77	0.24	-60.12	60.12	59.14	0.99	60.990	
300.00	300.00	300.00	300.00	0.85	0.85	-89.77	0.24	-60.12	60.12	58.42	1.70	35.310	
400.00	400.00	400.00	400.00	1.21	1.21	-89.77	0.24	-60.12	60.12	57.70	2.42	24.848	
500.00	500.00	500.00	500.00	1.57	1.57	-89.77	0.24	-60.12	60.12	56.99	3.14	19.168	
600.00	600.00	600.00	600.00	1.93	1.93	-89.77	0.24	-60.12	60.12	56.27	3.85	15.602 CC, ES	
700.00	700.00	696.90	696.86	2.29	2.27	-90.13	-0.15	-62.55	62.63	58.08	4.55	13.767	
800.00	800.00	793.31	792.98	2.64	2.60	-91.06	-1.29	-69.78	70.14	64.91	5.23	13.408 SF	
900.00	900.00	888.74	887.64	3.00	2.95	-92.22	-3.16	-81.64	82.63	76.73	5.90	14.003	
1,000.00	1,000.00	982.74	980.18	3.36	3.32	-93.35	-5.73	-97.88	100.03	93.47	6.56	15.259	
1,100.00	1,099.95	1,074.29	1,069.43	3.72	3.71	-155.43	-8.91	-117.99	124.51	117.32	7.19	17.316	
1,200.00	1,199.63	1,161.88	1,153.81	4.07	4.13	-156.81	-12.57	-141.18	158.14	150.33	7.80	20.262	
1,300.00	1,298.77	1,244.55	1,232.39	4.43	4.56	-158.03	-16.58	-166.54	200.48	192.10	8.38	23.912	
1,400.00	1,397.08	1,321.56	1,304.52	4.82	5.01	-158.96	-20.78	-193.16	250.98	242.05	8.93	28.116	
1,500.00	1,494.31	1,392.41	1,369.87	5.23	5.46	-159.57	-25.05	-220.18	308.97	299.53	9.43	32.750	
1,600.00	1,590.18	1,456.83	1,428.37	5.68	5.92	-159.89	-29.26	-246.81	373.73	363.83	9.90	37.734	
1,700.00	1,684.43	1,514.73	1,480.15	6.18	6.34	-159.94	-33.30	-272.39	444.56	434.23	10.34	43.012	
1,800.00	1,776.81	1,568.60	1,527.63	6.74	6.77	-159.76	-37.28	-297.55	520.72	509.96	10.76	48.400	
1,900.00	1,867.06	1,628.32	1,580.00	7.38	7.28	-159.58	-41.75	-325.89	600.60	589.32	11.28	53.222	
2,000.00	1,955.54	1,684.90	1,629.62	8.08	7.76	-160.23	-46.00	-352.74	682.75	670.96	11.79	57.899	
2,100.00	2,043.91	1,741.28	1,679.06	8.83	8.25	-161.11	-50.22	-379.50	765.10	752.81	12.29	62.250	
2,200.00	2,132.29	1,797.66	1,728.51	9.61	8.75	-161.83	-54.45	-406.26	847.49	834.70	12.80	66.229	
2,300.00	2,220.66	1,854.04	1,777.95	10.41	9.25	-162.41	-58.68	-433.02	929.92	916.61	13.31	69.864	
2,400.00	2,309.03	1,910.42	1,827.40	11.22	9.76	-162.91	-62.91	-459.78	1,012.38	998.55	13.83	73.199	
2,500.00	2,397.40	1,966.80	1,876.84	12.05	10.27	-163.32	-67.14	-486.54	1,094.85	1,080.49	14.36	76.259	
2,600.00	2,485.77	2,023.18	1,926.29	12.89	10.79	-163.68	-71.36	-513.30	1,177.34	1,162.45	14.89	79.075	
2,700.00	2,574.15	2,079.56	1,975.74	13.74	11.31	-164.00	-75.59	-540.05	1,259.85	1,244.42	15.43	81.672	
2,800.00	2,662.52	2,135.94	2,025.18	14.59	11.83	-164.27	-79.82	-566.81	1,342.36	1,326.39	15.97	84.070	
2,900.00	2,750.89	2,192.32	2,074.63	15.46	12.35	-164.52	-84.05	-593.57	1,424.89	1,408.37	16.51	86.291	
3,000.00	2,839.26	2,248.70	2,124.07	16.32	12.88	-164.73	-88.27	-620.33	1,507.42	1,490.35	17.06	88.349	
3,100.00	2,927.64	2,305.09	2,173.52	17.19	13.41	-164.93	-92.50	-647.09	1,589.95	1,572.34	17.61	90.262	
3,200.00	3,016.01	2,361.47	2,222.96	18.07	13.94	-165.10	-96.73	-673.85	1,672.50	1,654.33	18.17	92.041	

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Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6923+25 @ 6948.00ft

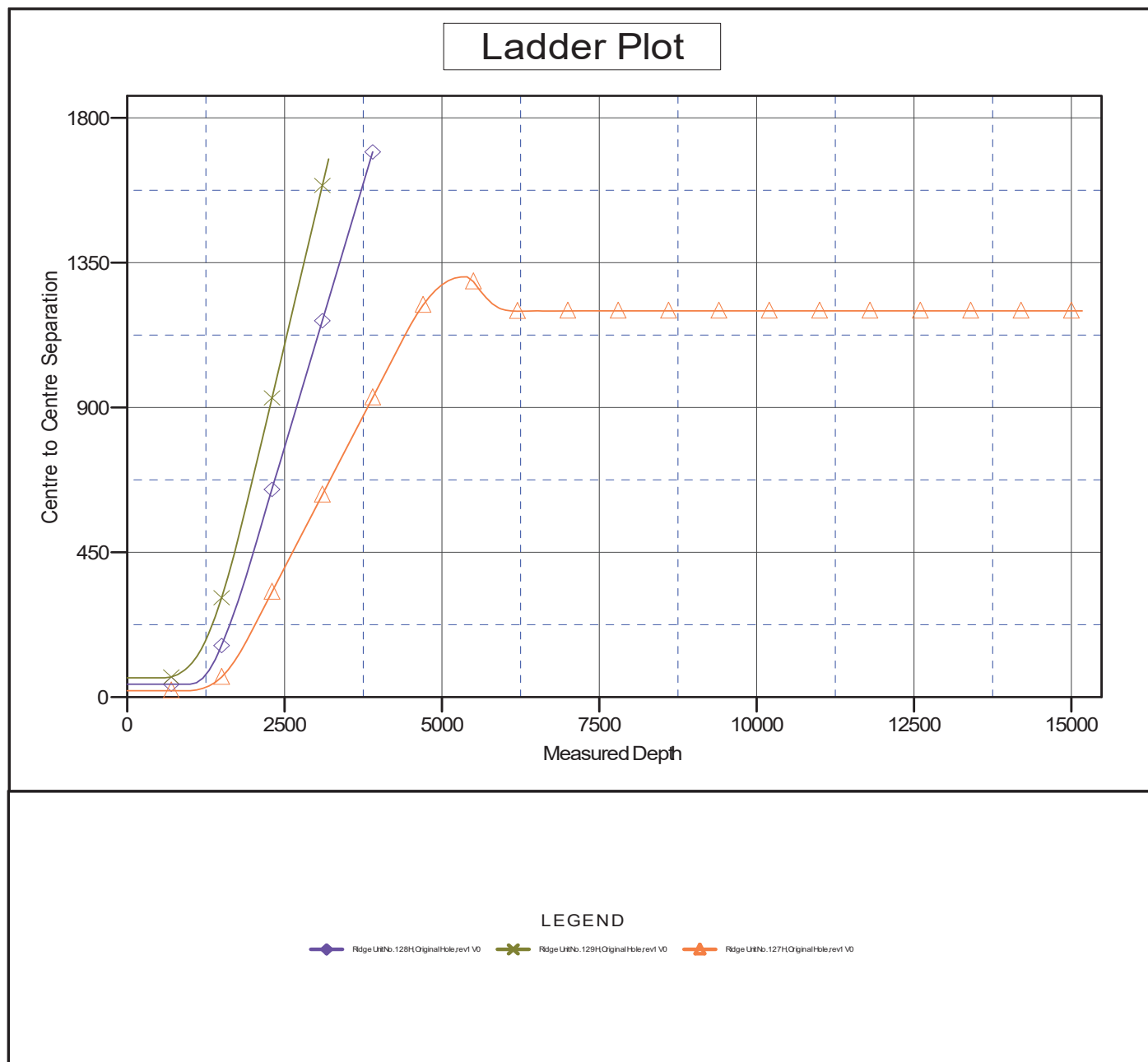
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 124H

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

Grid Convergence at Surface is: 0.12°



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 Ridge Unit No. 124H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6923+25 @ 6948.00ft
Reference Site:	Ridge Unit (124, 127, 128 & 129)	MD Reference:	RKB=6923+25 @ 6948.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 124H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6923+25 @ 6948.00ft

Offset Depths are relative to Offset Datum

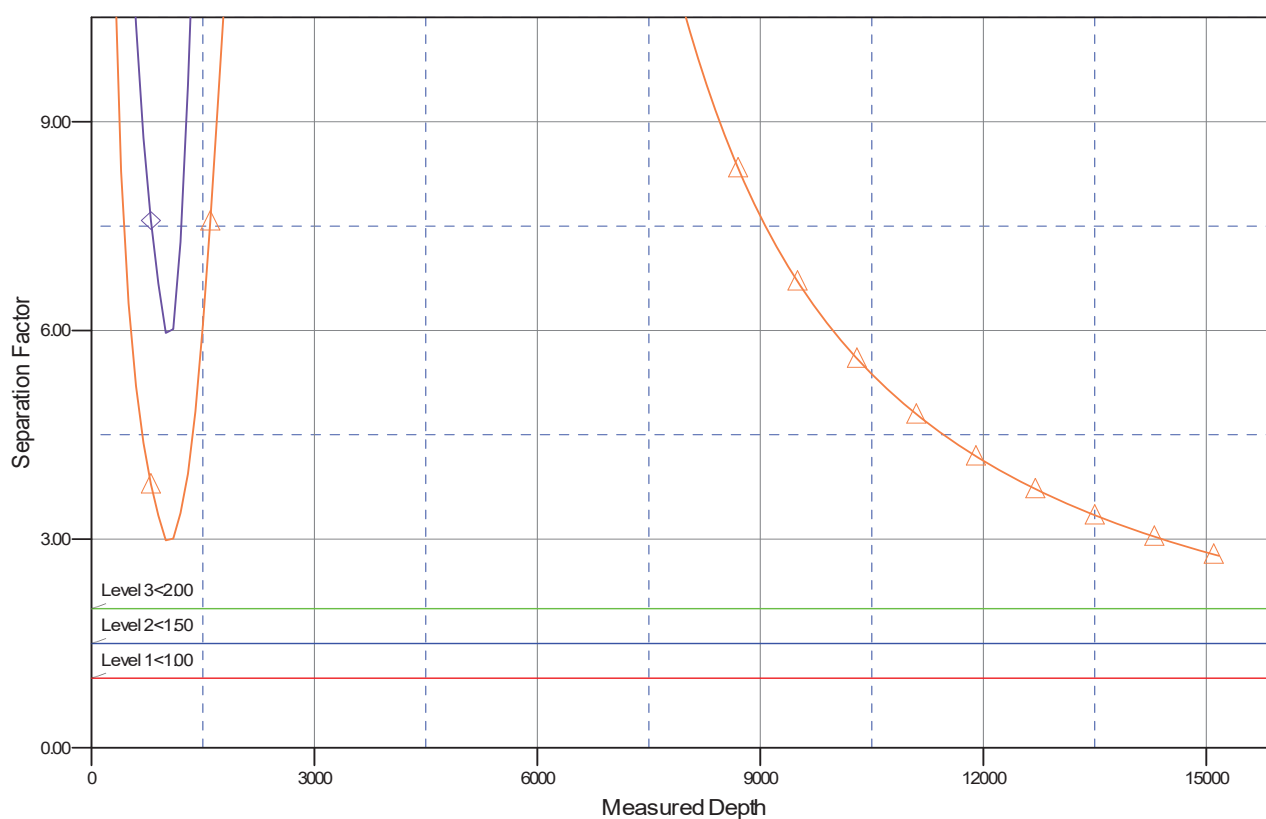
Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 124H

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

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

Ridge Unit No. 128H Original Hole rev1 V0
 Ridge Unit No. 129H Original Hole rev1 V0
 Ridge Unit No. 127H Original Hole rev1 V0

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



Enduring Resources IV, LLC

Main Office- 6300 S. Syracuse Way Suite 525 Centennial, CO 80111

Field Office- 200 Energy Court Farmington, NM 87401

Field Office: 505.636.9720 | Main Office: 303.573.1222

Well No: Ridge Unit 124H
Legal Description: T24N, R8W, SEC 25 SENE
County, State: San Juan, NM

Enduring Resources, LLC agrees that completion activities cannot proceed until approval of the expansion of the Ridge Unit (NMNM140471X) is issued by the BLM. This includes the East half of Section 24, T24N, R8W.

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 420393

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 420393
	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.	1/14/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/14/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/6/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/6/2025
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.	2/6/2025
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.	2/6/2025
ward.rikala	The SWSE-S24-T24N-R8W is not part of the dedicated acreage per the attached C-102	2/6/2025
ward.rikala	Per the attached completion agreement, "Enduring Resources, LLC agrees that completion activities cannot proceed until approval of the expansion of the Ridge Unit (NMNM140471X) is issued by the BLM. This includes the East half of Section 24, T24N, R8W."	2/6/2025