

Form 3160-3  
(June 2015)FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-045-38418
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Continued on page 2)

\*(Instructions on page 2)



**Additional Operator Remarks****Location of Well**

0. SHL: SENW / 1829 FNL / 2289 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.287465 / LONG: -107.652359 ( TVD: 0 feet, MD: 0 feet )  
PPP: SENW / 2379 FNL / 1572 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.28595 / LONG: -107.654775 ( TVD: 5432 feet, MD: 5689 feet )  
PPP: NENE / 0 FNL / 787 FEL / TWSP: 24N / RANGE: 8W / SECTION: 27 / LAT: 36.292512 / LONG: -107.662852 ( TVD: 5540 feet, MD: 9400 feet )  
PPP: NWNW / 786 FNL / 1 FEL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.290323 / LONG: -107.660157 ( TVD: 5582 feet, MD: 15525 feet )  
PPP: SESE / 1 FSL / 787 FEL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.292512 / LONG: -107.662852 ( TVD: 5582 feet, MD: 15525 feet )  
PPP: SENW / 2609 FSL / 1897 FWL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.29975 / LONG: -107.671763 ( TVD: 5582 feet, MD: 15525 feet )  
PPP: NESW / 1857 FSL / 2632 FWL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.297683 / LONG: -107.669217 ( TVD: 5582 feet, MD: 15525 feet )  
PPP: NENE / 786 FNL / 1 FEL / TWSP: 24N / RANGE: 8W / SECTION: 27 / LAT: 36.290323 / LONG: -107.660157 ( TVD: 5582 feet, MD: 15525 feet )  
PPP: NENE / 1 FNL / 787 FEL / TWSP: 24N / RANGE: 8W / SECTION: 27 / LAT: 36.292512 / LONG: -107.662852 ( TVD: 5582 feet, MD: 15525 feet )  
BHL: NWNW / 955 FNL / 238 FWL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.304405 / LONG: -107.677495 ( TVD: 5582 feet, MD: 15525 feet )

**BLM Point of Contact**

Name: JEFFREY J TAFOYA  
Title: Assistant Field Manager  
Phone: (505) 564-7672  
Email: JTAFOYA@BLM.GOV

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

WELL LOCATION INFORMATION

API Number <b>30-045-38418</b>	Pool Code 42289	Pool Name LYBROOK GALLUP
Property Code <b>336777</b>	Property Name RIDGE UNIT	Well Number 136H
OGRID No. 372286	Operator Name ENDURING RESOURCES, LLC	Ground Level Elevation 6832'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input checked="" type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL F	Section 26	Township 24N	Range 8W	Lot	Feet from N/S Line 1829' NORTH	Feet from E/W Line 2289' WEST	Latitude 36.287465 °N	Longitude -107.652359 °W	County SAN JUAN
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Bottom Hole Location

UL D	Section 22	Township 24N	Range 8W	Lot	Feet from N/S Line 955' NORTH	Feet from E/W Line 238' WEST	Latitude 36.304405 °N	Longitude -107.677495 °W	County SAN JUAN
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Dedicated Acres		Penetrated Spacing Unit:							
440.00	W/2 NW/4, SE/4 NW/4, NE/4 SW/4 NW/4 SE/4, S/2 SE/4 - Section 22 NW/4 NW/4, S/2 NW/4 - Section 26 NE/4 NE/4 - Section 27					Infill or Defining Well	Defining Well API	Overlapping Spacing Unit <input type="checkbox"/> Yes <input type="checkbox"/> No	Consolidation Code
Order Numbers R-20594						Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No			

Kick Off Point (KOP)

UL F	Section 26	Township 24N	Range 8W	Lot	Feet from N/S Line 1829' NORTH	Feet from E/W Line 2289' WEST	Latitude 36.287465 °N	Longitude -107.652359 °W	County SAN JUAN
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First Take Point (FTP)

UL F	Section 26	Township 24N	Range 8W	Lot	Feet from N/S Line 2379' NORTH	Feet from E/W Line 1572' WEST	Latitude 36.285950 °N	Longitude -107.654775 °W	County SAN JUAN
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Last Take Point (LTP)

UL D	Section 22	Township 24N	Range 8W	Lot	Feet from N/S Line 955' NORTH	Feet from E/W Line 238' WEST	Latitude 36.304405 °N	Longitude -107.677495 °W	County SAN JUAN
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Unitized Area or Area of Uniform Interest RIDGE UNIT	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Directional	Ground Floor Elevation
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<p>OPERATOR CERTIFICATION</p> <p>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.</p> <p>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.</p> <div><div>Shaw-Marie Ford</div><div>Signature</div></div> <div><div>12/16/2024</div><div>Date</div></div> <div><div>Shaw-Marie Ford</div><div>Printed Name</div></div> <div><div>sford@enduringresources.com</div><div>E-mail Address</div></div>	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <div></div> <div><div>JASON C. EDWARDS</div><div>Signature and Seal of Professional Surveyor</div></div> <div><div>Certificate Number 15269</div><div>Date of Survey NOVEMBER 30, 2021</div></div>
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BOTTOM HOLE LOCATION (BHL)  
955' FNL 238' FWL  
SECTION 22, T24N, R8W

LAT 36.304405 °N  
LONG -107.677495 °W  
DATUM: NAD1983

LAST TAKE POINT (LTP)  
955' FNL 238' FWL  
SECTION 22, T24N, R8W

LAT 36.304405 °N  
LONG -107.677495 °W  
DATUM: NAD1983

SURFACE LOCATION (SHL)  
1829' FNL 2289' FWL  
SECTION 26, T24N, R8W

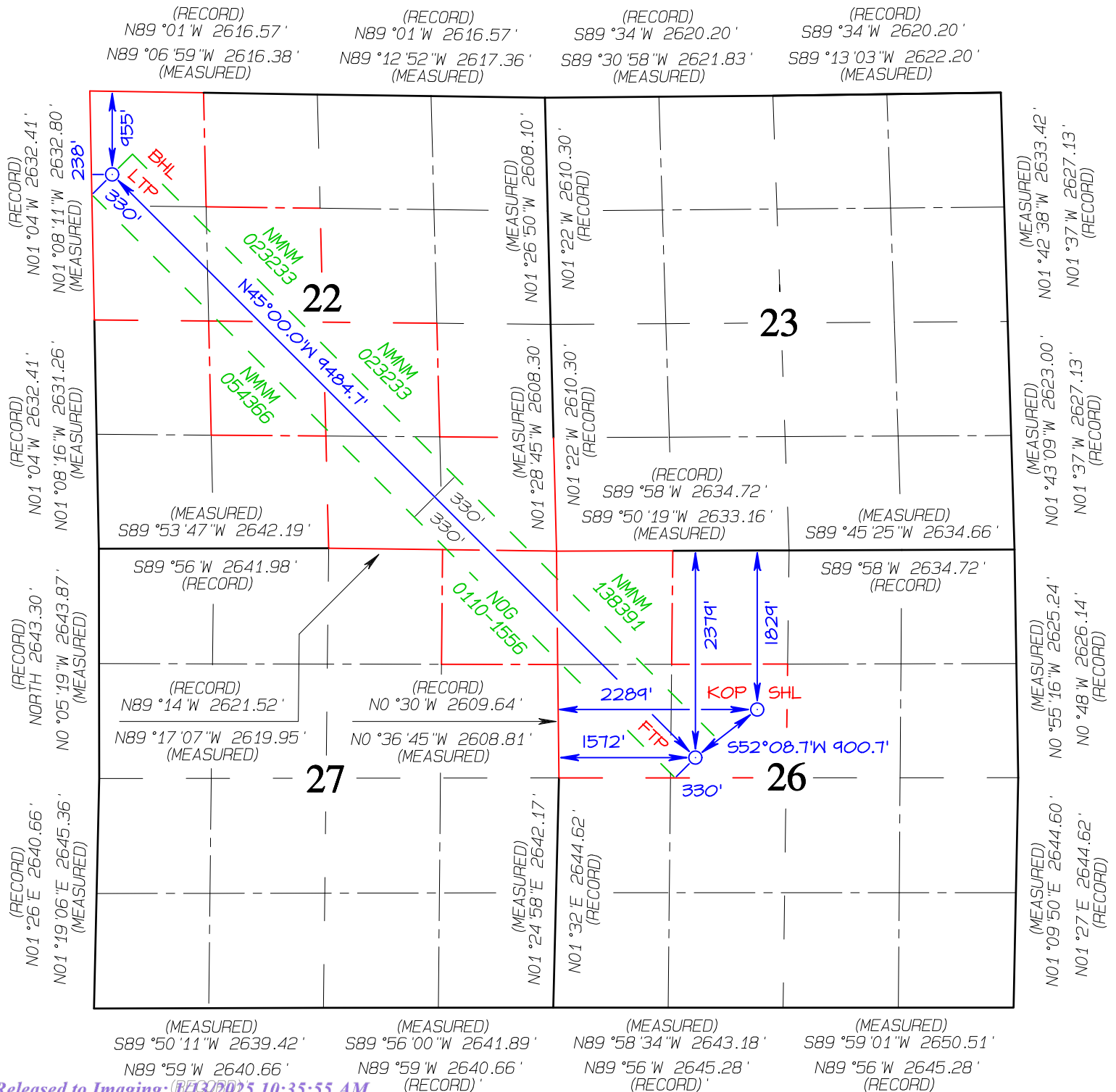
LAT 36.287465 °N  
LONG -107.652359 °W  
DATUM: NAD1983

KICK OFF POINT (KOP)  
1829' FNL 2289' FWL  
SECTION 26, T24N, R8W

LAT 36.287465 °N  
LONG -107.652359 °W  
DATUM: NAD1983

FIRST TAKE POINT (FTP)  
2379' FNL 1572' FWL  
SECTION 26, T24N, R8W

LAT 36.285950 °N  
LONG -107.654775 °W  
DATUM: NAD1983



State of New Mexico  
Energy, Minerals and Natural Resources DepartmentSubmit Electronically  
Via E-permittingOil 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:** 12 / 17 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

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

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Ridge Unit 130H	TBD	F-26-24N-8W	1815 FNL x 2327 FWL	519	2075	208
Ridge Unit 135H	TBD	F-26-24N-8W	1822 FNL x 2308 FWL	510	2041	204
Ridge Unit 136H	TBD	F-26-24N-8W	1829 FNL x 2289 FWL	446	1786	179
Ridge Unit 137H	TBD	F-26-24N-8W	1835 FNL x 2270 FWL	349	1395	139
				3-year Decline	3-year Decline	3-year Decline
Ridge Unit 130H	TBD	F-26-24N-8W	1815 FNL x 2327 FWL	117	469	47
Ridge Unit 135H	TBD	F-26-24N-8W	1822 FNL x 2308 FWL	115	461	46
Ridge Unit 136H	TBD	F-26-24N-8W	1829 FNL x 2289 FWL	101	403	40
Ridge Unit 137H	TBD	F-26-24N-8W	1835 FNL x 2270 FWL	79	315	32

**IV. Central Delivery Point Name:** Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Ridge Unit 130H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 135H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 136H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 137H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

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

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

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

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

### **IX. Anticipated Natural Gas Production:**

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

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

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: <a href="mailto:sford@enduringresources.com">sford@enduringresources.com</a>
Date: 12/17/2024
Phone: 505-716-3297
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:





Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Ridge Unit 130H, 135H, 136H and 137H

### 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 130H, 135H, 136H and 137H

**VENTING and FLARING**

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

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

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

Enduring will only flare gas during the following times:

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



Enduring Resources, LLC.  
NATURAL GAS MANAGEMENT and WASTE MINIMIZATION PLAN  
Ridge Unit 130H, 135H, 136H and 137H

**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 130H, 135H, 136H and 137H

**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 136H

**State:** New Mexico

**County:** San Juan

**Surface Elevation:** 6,832 ft ASL (GL) 6,857 ft ASL (KB)

**Surface Location:** 26-24N-08W Sec-Twn-Rng 1,829 ft FNL 2,289 ft FWL  
 36.287465 ° N latitude 107.652359 ° W longitude (NAD 83)

**BH Location:** 22-24N-08W Sec-Twn-Rng 955 ft FNL 238 ft FWL  
 36.304405 ° N latitude 107.677495 ° 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 42.8 miles to MM 109.0, Left (North) on CR 7997 for 1.8 miles to fork in road, Right (North-East) for 0.6 miles to fork in road, Right (Straight)(North-East) for 0.1 miles to access road, Left on access road to Ridge Unit 130H Pad. The 130H well is the third well from the East and third from the location entrance. From East to West: RU 130H, 135H, 136H and 137H.

**GEOLOGIC AND RESERVOIR INFORMATION:**

<b>Prognosis:</b>	<b>Formation Tops</b>	<b>TVD (ft ASL)</b>	<b>TVD (ft KB)</b>	<b>MD (ft KB)</b>	<b>O / G / W</b>	<b>Pressure</b>
	Ojo Alamo	5,623	1,234	1,235	W	normal
	Kirtland	5,500	1,357	1,359	W	normal
	Fruitland	5,280	1,577	1,586	G, W	sub
	Pictured Cliffs	4,960	1,897	1,922	G, W	sub
	Lewis	4,860	1,997	2,027	G, W	normal
	Chacra	4,545	2,312	2,357	G, W	normal
	Cliff House	3,445	3,412	3,511	G, W	sub
	Menefee	3,440	3,417	3,517	G, W	normal
	Point Lookout	2,605	4,252	4,393	G, W	normal
	Mancos	2,380	4,477	4,625	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,010	4,847	4,997	O,G	sub (~0.38)
	<b>P.O.E. TARGET</b>	<b>1,425</b>	<b>5,432</b>	<b>5,689</b>	<b>O,G</b>	<b>sub (~0.38)</b>
	<b>PROJECTED TD</b>	<b>1,275</b>	<b>5,582</b>	<b>15,525</b>	<b>O,G</b>	<b>sub (~0.38)</b>

**Surface:** Naciminto

**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:** **2,410 psi**

**Maximum anticipated surface pressure, assuming partially evacuated hole:** **1,190 psi**

**Temperature:** Maximum anticipated BHT is 140° F or less



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

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

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

**LOGGING, CORING, AND TESTING:**

**Mud Logs:** None planned; 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 double gate ram (13-5/8", 3,000 psi)

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

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

**KB-GL (ft):** 25

**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	769	116,634	116,634
Min. S.F.					7.39	3.55	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*

ASTM Type III  
**Tail 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	3,674 ft (MD)	Hole Section Length:	3,324 ft
350 ft (TVD)	to	3,567 ft (TVD)	Casing Required:	3,674 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					1,558	1,394	215,341	215,341
Min. S.F.					1.30	2.53	2.62	2.10

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

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

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

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	762	1,631
	Tail	Type III	14.6	1.380	6.61	20%	3,174	150	207
	Displacement	281	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

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

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

3,674 ft (MD)	to	15,525 ft (MD)	Hole Section Length:	11,851 ft
3,567 ft (TVD)	to	5,582 ft (TVD)	Casing Required:	15,525 ft

Estimated KOP:	5,100 ft (MD)	4,950 ft (TVD)
Estimated Landing Point (P.O.E.):	5,689 ft (MD)	5,432 ft (TVD)
Estimated Lateral Length:	9,836 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					2,758	9,022	327,743	327,743
Min. S.F.					2.71	1.18	1.67	1.36

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

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	555	1,315
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,625	1,758	2,759
Displacement	342	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

American Cementing Liner & Production Blend

Spacer	S-8 Silica Flour	Avis 616 viscosifier	FP24 Defoamer .5	Plus 3K LCM 15	SS201 Surfactant 1			
	163.7 lbs/bbl	11.6 lb/bbl	lb/bbl	lb/bbl	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	R3 Retarder .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx

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

**FINISH WELL:** ND BOP, NU WH, RDMO.

COMPLETION AND PRODUCTION PLAN:

**Est Lateral Length:** 9,736  
**Est Frac Inform:** 41 Frac Stages 156,000 bbls slick water 12,660,000 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:** 5/3/2023  
**Completion:** 6/17/2023  
**Production:** 7/17/2023

**Prepared by:** G Olson 7/21/2022

**WELL NAME:** RIDGE UNIT 136H  
**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)	3,674 ft
KOP (MD)	5,100 ft
KOP (TVD)	4,950 ft
Target (TVD)	5,432 ft
Curve BUR	10 °/100 ft
POE (MD)	5,689 ft
TD (MD)	15,525 ft
Lat Len (ft)	9,836 ft

**Surface Elev.:** 6,832 ft ASL (GL) 6,857 ft ASL (KB)  
**Surface Location:** 26-24N-08W Sec-Twn- Rng 1,829 ft FNL 2,289 ft FWL  
**BH Location:** 22-24N-08W Sec-Twn- Rng 955 ft FNL 238 ft FWL  
**Driving Directions:** FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: South on US Hwy 550 for 42.8 miles to MM 109.0, Left (North) on CR 7997 for 1.8 miles to fork in road, Right (North-East) for 0.6 miles to fork in road, Right (Straight)(North-East) for 0.1 miles to access road, Left on access road to Ridge Unit 130H Pad. The 130H well is the third well from the East and third from the location entrance. From East to West: RU 130H, 135H, 136H and 137H.

WELL CONSTRUCTION SUMMARY:

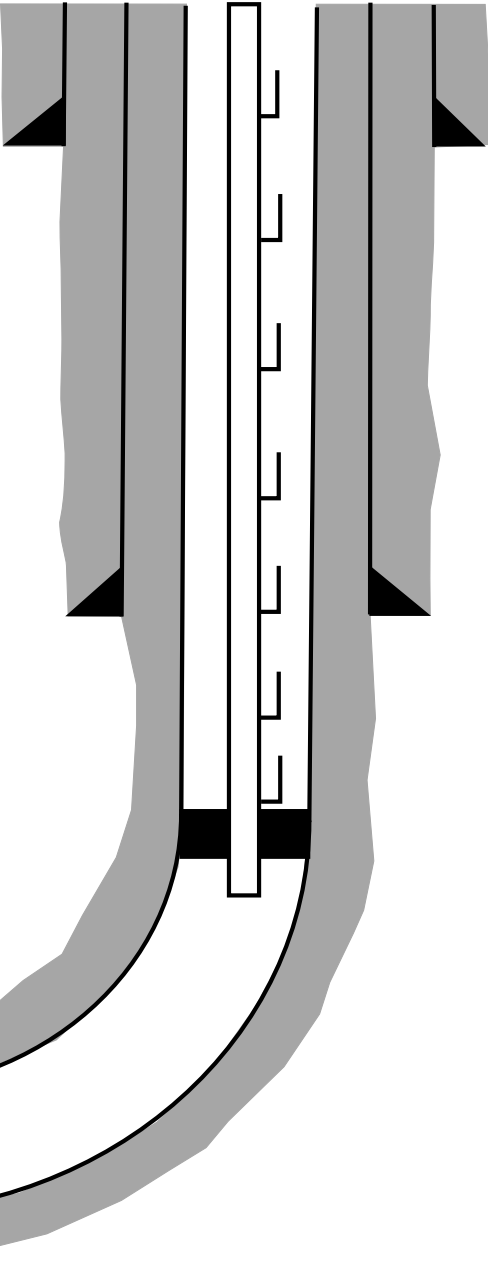
	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	3,674	9.625	36.0	J-55	LTC	0	3,674
Production	8.500	15,525	5.500	17.0	P-110	LTC	0	15,525

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:POZ	12.5	2.14	12.05	0.3132	70%	0	762	1,631
Inter. (Tail)	Type III	14.6	1.38	6.61	0.3132	20%	3,174	150	207
Prod. (Lead)	ASTM type I/II	12.4	2.37	13.40	0.2291	50%	0	555	1,315
Prod. (Tail)	G:POZ blend	13.3	1.57	7.70	0.2291	10%	4,625	1,758	2,759

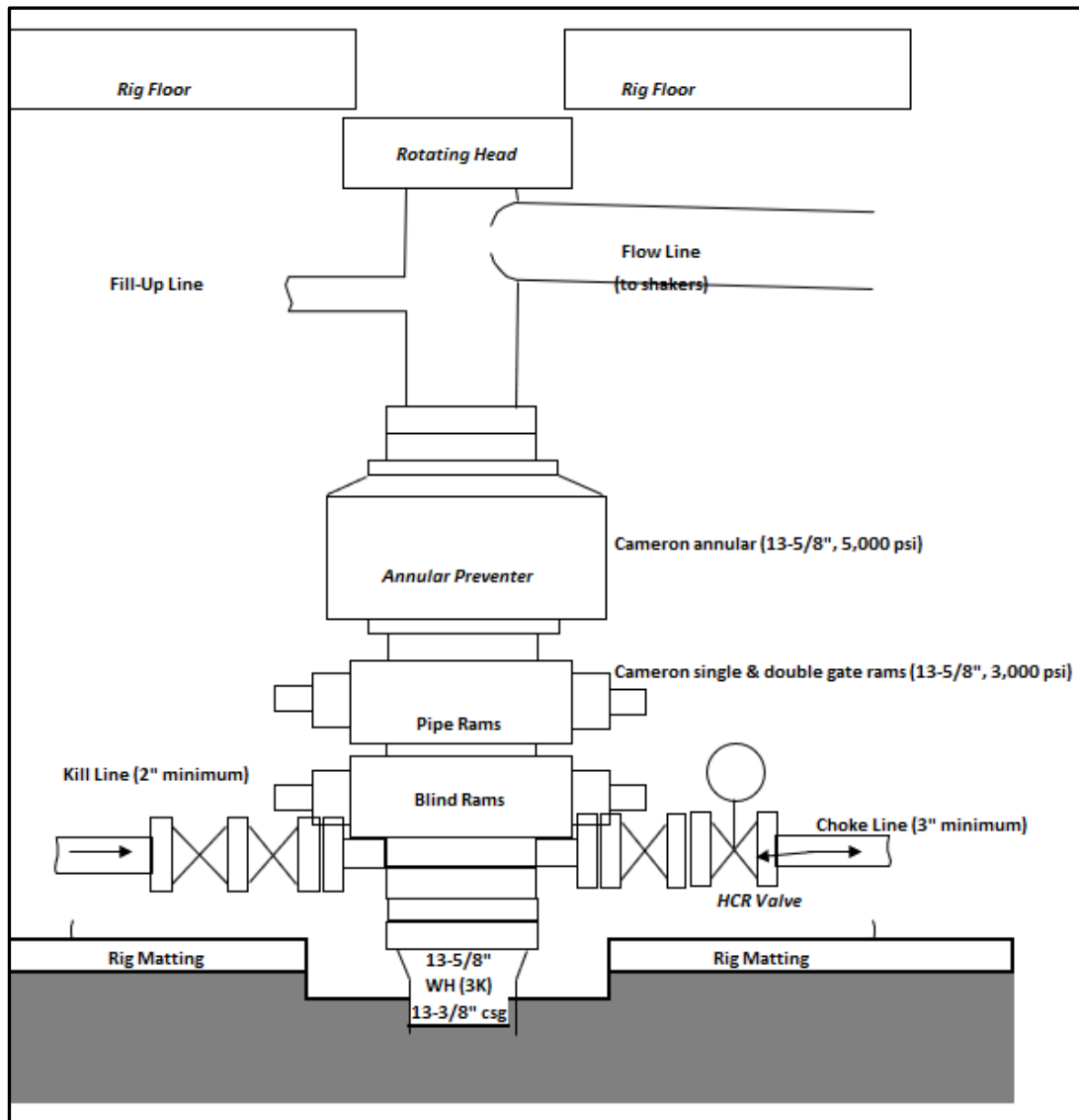
COMPLETION / PRODUCTION SUMMARY:

**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



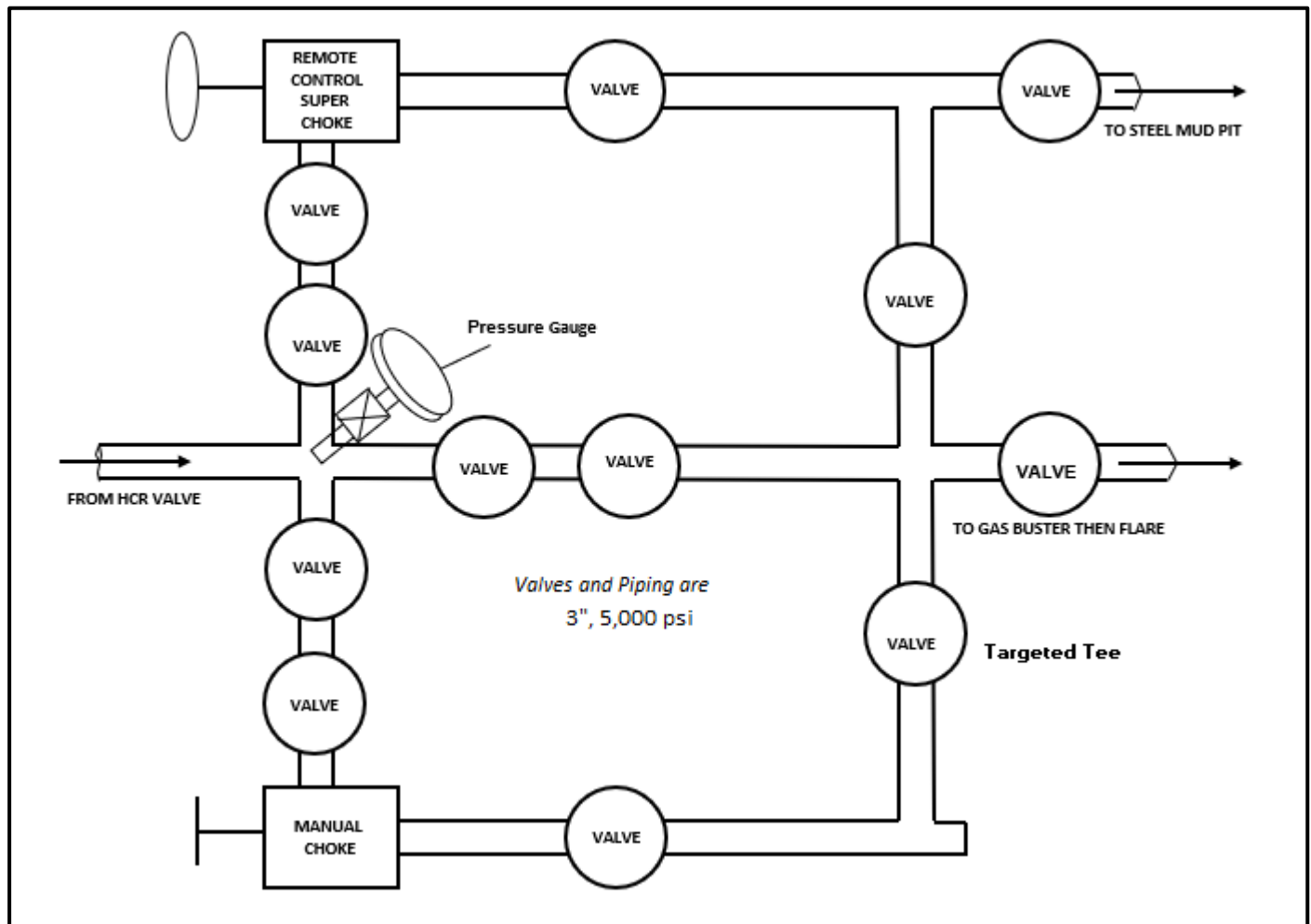


## Enduring Resources IV, LLC BOPE Diagram





## Enduring Resources IV, LLC CHOKE MANIFOLD



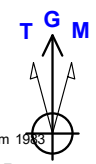




Well: Ridge Unit No. 136H  
Site: Ridge Unit (130, 135, 136 & 137)  
Project: San Juan County, New Mexico NAD83 NM W  
Design: rev1  
Rig:

DESIGN TARGET DETAILS

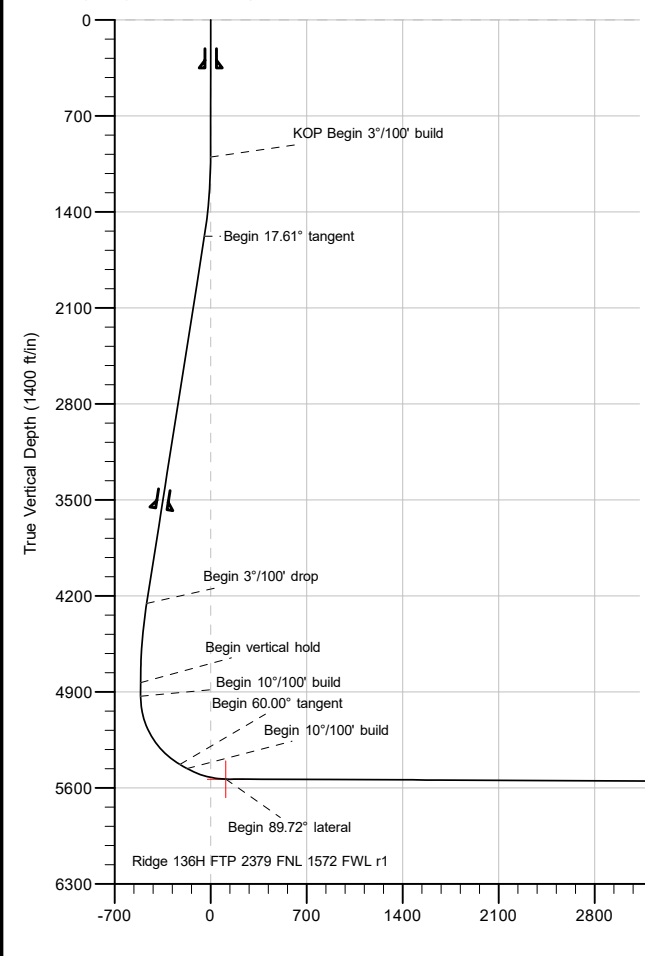
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ridge 136H FTP 2379 FNL 1572 FWL r1	5537.00	-552.82	-711.01	1923433.703	2775715.668	36.285950000	-107.654775000
Ridge 136H LTP 955 FNL 238 FWL 330 perp r1	5582.00	6153.73	-7417.79	1930140.240	2769008.898	36.304405000	-107.677495000



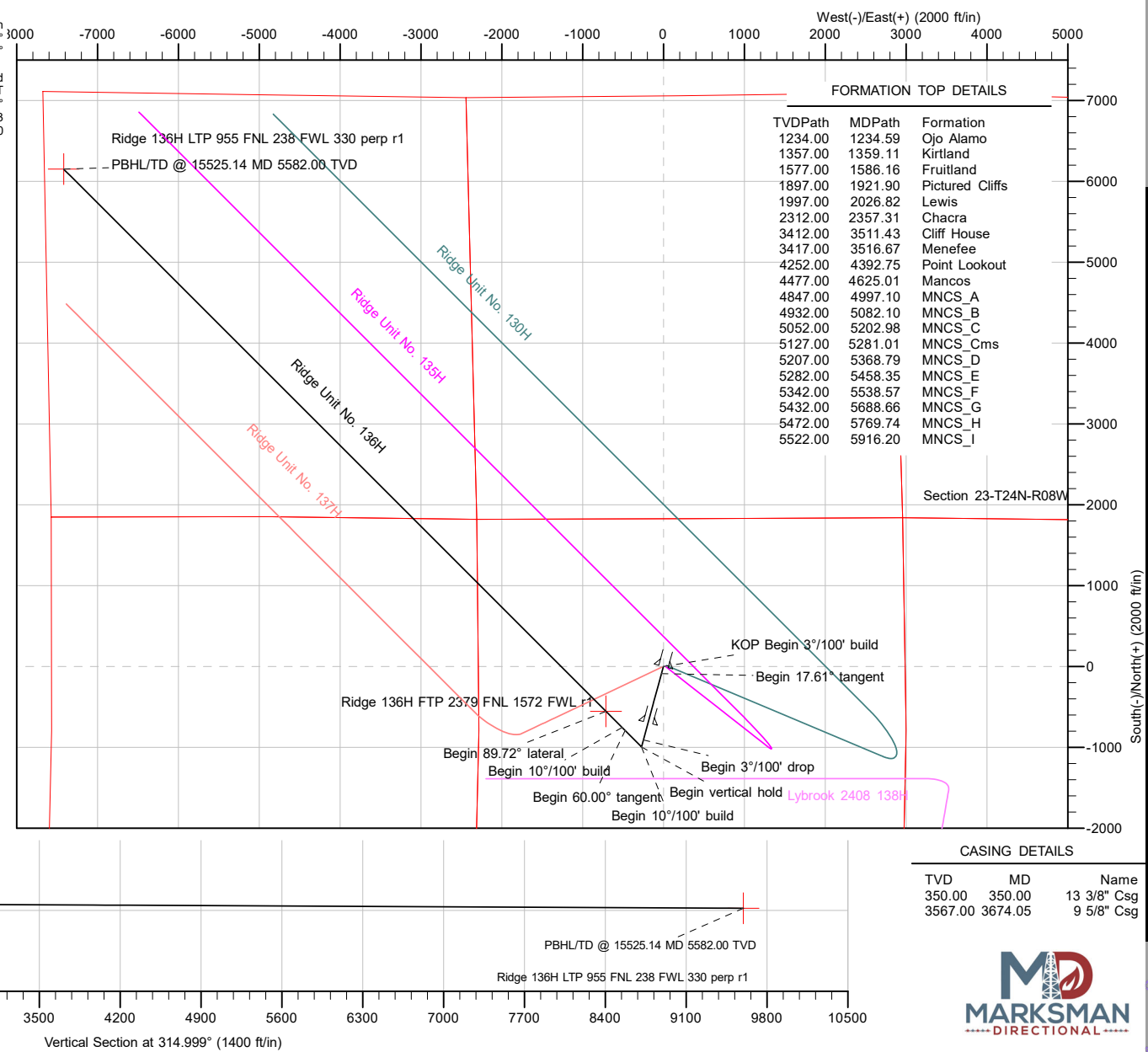
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Western Zone  
System Datum: Mean Sea Level  
Depth Reference: RKB=6832+25 @ 6857.00ft

Surface location:  
Northing 1923986.524 Easting 2776426.672 Latitude 36.287465000 Longitude -107.652359000

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

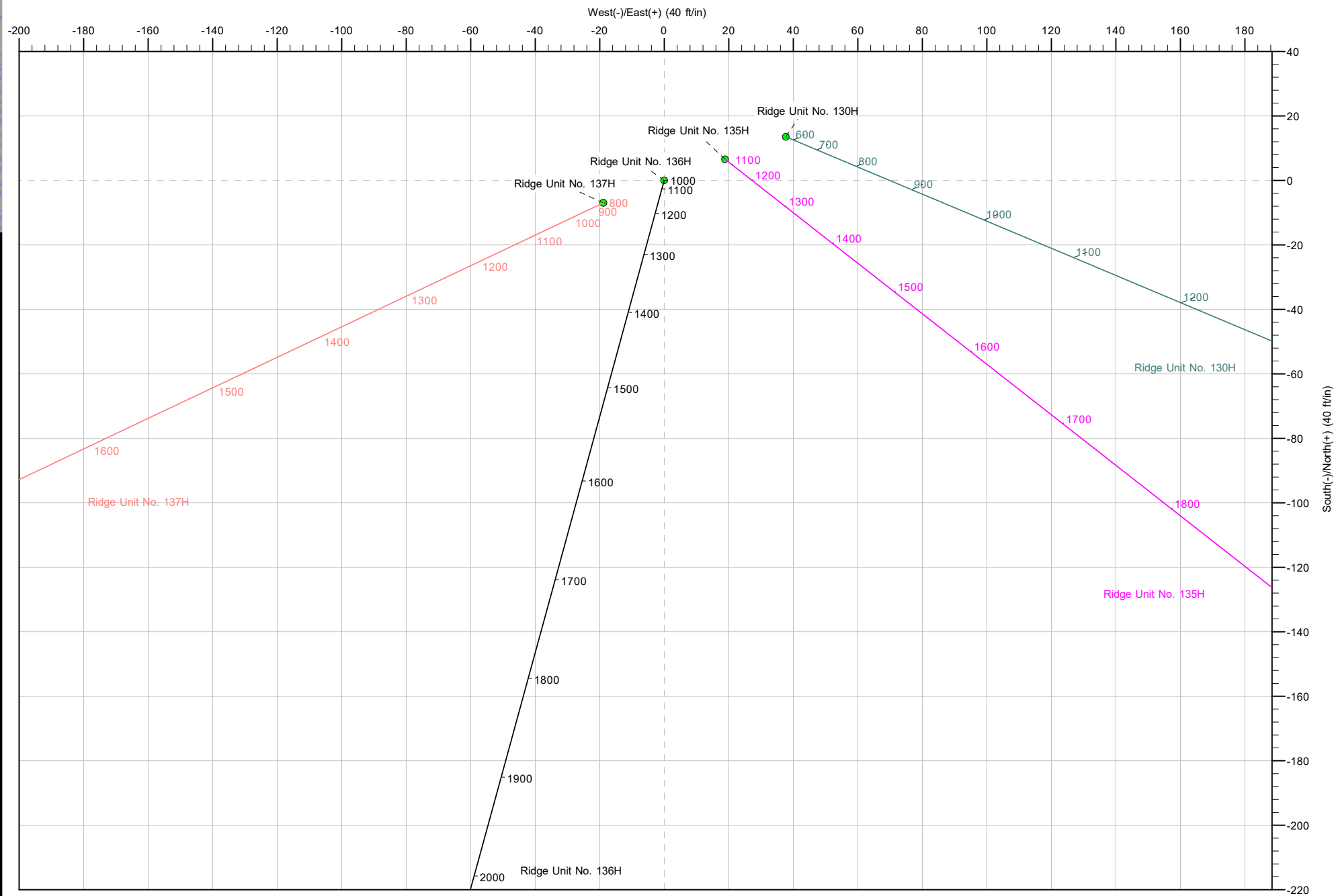


Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1587.15	17.61	195.273	1577.94	-86.38	-23.59	3.00	195.27	-44.40	Begin 17.61° tangent
4	4396.01	17.61	195.273	4255.11	-906.35	-247.49	0.00	0.00	-465.87	Begin 3°/100' drop
5	4983.15	0.00	0.000	4833.05	-992.73	-271.08	3.00	180.00	-510.27	Begin vertical hold
6	5083.15	0.00	0.000	4933.05	-992.73	-271.08	0.00	0.00	-510.27	Begin 10°/100' build
7	5683.15	60.00	314.999	5429.25	-790.16	-473.65	10.00	315.00	-223.79	Begin 60.00° tangent
8	5743.15	60.00	314.999	5459.25	-753.42	-510.40	0.00	0.00	-171.83	Begin 10°/100' build
9	6040.38	89.72	314.999	5536.00	-552.82	-711.01	10.00	0.00	111.87	Begin 89.72° lateral
10	15525.14	89.72	314.999	5582.00	6153.73	-7417.79	0.00	0.00	9596.53	PBHL/TD





Well: Ridge Unit No. 136H  
Site: Ridge Unit (130, 135, 136 & 137)  
Project: San Juan County, New Mexico NAD83 NM W  
Design: rev1  
Rig:





## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev1		

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

Site	Ridge Unit (130, 135, 136 & 137)				
Site Position:		Northing:	1,924,000.063 usft	Latitude:	36.287502000
From:	Lat/Long	Easting:	2,776,464.370 usft	Longitude:	-107.652231000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Ridge Unit No. 136H, Surf loc: 1829 FNL 2289 FWL Section 26-T24N-R08W					
Well Position	+N/-S	0.00 ft	Northing:	1,923,986.524 usft	Latitude:	36.287465000
	+E/-W	0.00 ft	Easting:	2,776,426.672 usft	Longitude:	-107.652359000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,832.00 ft
Grid Convergence:		0.11 °				

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	8/15/2023	8.54	62.77	49,131.93328095

<b>Design</b>	rev1				
<b>Audit Notes:</b>					
<b>Version:</b>		<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	314.999	

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/16/2023			
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	15,525.14 rev1 (Original Hole)	MWD		
			OWSG MWD - Standard		



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 136H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6832+25 @ 6857.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6832+25 @ 6857.00ft
Site:	Ridge Unit (130, 135, 136 & 137)	North Reference:	Grid
Well:	Ridge Unit No. 136H	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	
1,587.15	17.61	195.273	1,577.94	-86.38	-23.59	3.00	3.00	0.00	195.27	
4,396.01	17.61	195.273	4,255.11	-906.35	-247.49	0.00	0.00	0.00	0.00	
4,983.15	0.00	0.000	4,833.05	-992.73	-271.08	3.00	-3.00	0.00	180.00	
5,083.15	0.00	0.000	4,933.05	-992.73	-271.08	0.00	0.00	0.00	0.00	
5,683.15	60.00	314.999	5,429.25	-790.16	-473.65	10.00	10.00	0.00	315.00	
5,743.15	60.00	314.999	5,459.25	-753.42	-510.40	0.00	0.00	0.00	0.00	
6,040.38	89.72	314.999	5,536.00	-552.82	-711.01	10.00	10.00	0.00	0.00	
15,525.14	89.72	314.999	5,582.00	6,153.73	-7,417.79	0.00	0.00	0.00	0.00	Ridge 136H LTP 955



## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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
<b>13 3/8" Csg</b>									
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
<b>KOP Begin 3°/100' build</b>									
1,100.00	3.00	195.273	1,099.95	-2.52	-0.69	-1.30	3.00	3.00	0.00
1,200.00	6.00	195.273	1,199.63	-10.09	-2.76	-5.19	3.00	3.00	0.00
1,234.59	7.04	195.273	1,234.00	-13.88	-3.79	-7.13	3.00	3.00	0.00
<b>Ojo Alamo</b>									
1,300.00	9.00	195.273	1,298.77	-22.68	-6.19	-11.66	3.00	3.00	0.00
1,359.11	10.77	195.273	1,357.00	-32.47	-8.87	-16.69	3.00	3.00	0.00
<b>Kirtland</b>									
1,400.00	12.00	195.273	1,397.08	-40.26	-10.99	-20.69	3.00	3.00	0.00
1,500.00	15.00	195.273	1,494.31	-62.78	-17.14	-32.27	3.00	3.00	0.00
1,586.16	17.58	195.273	1,577.00	-86.09	-23.51	-44.25	3.00	3.00	0.00
<b>Fruitland</b>									
1,587.15	17.61	195.273	1,577.94	-86.38	-23.59	-44.40	3.00	3.00	0.00
<b>Begin 17.61° tangent</b>									
1,600.00	17.61	195.273	1,590.19	-90.13	-24.61	-46.33	0.00	0.00	0.00
1,700.00	17.61	195.273	1,685.50	-119.33	-32.58	-61.33	0.00	0.00	0.00
1,800.00	17.61	195.273	1,780.82	-148.52	-40.56	-76.34	0.00	0.00	0.00
1,900.00	17.61	195.273	1,876.13	-177.71	-48.53	-91.34	0.00	0.00	0.00
1,921.90	17.61	195.273	1,897.00	-184.10	-50.27	-94.63	0.00	0.00	0.00
<b>Pictured Cliffs</b>									
2,000.00	17.61	195.273	1,971.44	-206.90	-56.50	-106.35	0.00	0.00	0.00
2,026.82	17.61	195.273	1,997.00	-214.73	-58.64	-110.37	0.00	0.00	0.00
<b>Lewis</b>									
2,100.00	17.61	195.273	2,066.75	-236.09	-64.47	-121.35	0.00	0.00	0.00
2,200.00	17.61	195.273	2,162.06	-265.29	-72.44	-136.36	0.00	0.00	0.00
2,300.00	17.61	195.273	2,257.37	-294.48	-80.41	-151.36	0.00	0.00	0.00
2,357.31	17.61	195.273	2,312.00	-311.21	-84.98	-159.96	0.00	0.00	0.00
<b>Chacra</b>									
2,400.00	17.61	195.273	2,352.68	-323.67	-88.38	-166.37	0.00	0.00	0.00
2,500.00	17.61	195.273	2,448.00	-352.86	-96.35	-181.37	0.00	0.00	0.00
2,600.00	17.61	195.273	2,543.31	-382.06	-104.33	-196.38	0.00	0.00	0.00
2,700.00	17.61	195.273	2,638.62	-411.25	-112.30	-211.38	0.00	0.00	0.00
2,800.00	17.61	195.273	2,733.93	-440.44	-120.27	-226.39	0.00	0.00	0.00
2,900.00	17.61	195.273	2,829.24	-469.63	-128.24	-241.39	0.00	0.00	0.00
3,000.00	17.61	195.273	2,924.55	-498.82	-136.21	-256.40	0.00	0.00	0.00
3,100.00	17.61	195.273	3,019.86	-528.02	-144.18	-271.40	0.00	0.00	0.00
3,200.00	17.61	195.273	3,115.18	-557.21	-152.15	-286.41	0.00	0.00	0.00
3,300.00	17.61	195.273	3,210.49	-586.40	-160.13	-301.41	0.00	0.00	0.00
3,400.00	17.61	195.273	3,305.80	-615.59	-168.10	-316.42	0.00	0.00	0.00
3,500.00	17.61	195.273	3,401.11	-644.78	-176.07	-331.42	0.00	0.00	0.00



## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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)	
3,511.43	17.61	195.273	3,412.00	-648.12	-176.98	-333.14	0.00	0.00	0.00	
<b>Cliff House</b>										
3,516.67	17.61	195.273	3,417.00	-649.65	-177.40	-333.92	0.00	0.00	0.00	
<b>Menefee</b>										
3,600.00	17.61	195.273	3,496.42	-673.98	-184.04	-346.43	0.00	0.00	0.00	
3,674.05	17.61	195.273	3,567.00	-695.59	-189.94	-357.54	0.00	0.00	0.00	
<b>9 5/8" Csg</b>										
3,700.00	17.61	195.273	3,591.73	-703.17	-192.01	-361.43	0.00	0.00	0.00	
3,800.00	17.61	195.273	3,687.04	-732.36	-199.98	-376.44	0.00	0.00	0.00	
3,900.00	17.61	195.273	3,782.36	-761.55	-207.95	-391.44	0.00	0.00	0.00	
4,000.00	17.61	195.273	3,877.67	-790.75	-215.92	-406.45	0.00	0.00	0.00	
4,100.00	17.61	195.273	3,972.98	-819.94	-223.90	-421.45	0.00	0.00	0.00	
4,200.00	17.61	195.273	4,068.29	-849.13	-231.87	-436.46	0.00	0.00	0.00	
4,300.00	17.61	195.273	4,163.60	-878.32	-239.84	-451.46	0.00	0.00	0.00	
4,392.75	17.61	195.273	4,252.00	-905.40	-247.23	-465.38	0.00	0.00	0.00	
<b>Point Lookout</b>										
4,396.01	17.61	195.273	4,255.11	-906.35	-247.49	-465.87	0.00	0.00	0.00	
<b>Begin 3°/100' drop</b>										
4,400.00	17.49	195.273	4,258.91	-907.51	-247.81	-466.46	3.00	-3.00	0.00	
4,500.00	14.49	195.273	4,355.03	-934.09	-255.07	-480.13	3.00	-3.00	0.00	
4,600.00	11.49	195.273	4,452.46	-955.78	-260.99	-491.27	3.00	-3.00	0.00	
4,625.01	10.74	195.273	4,477.00	-960.43	-262.26	-493.67	3.00	-3.00	0.00	
<b>Mancos</b>										
4,700.00	8.49	195.273	4,550.93	-972.52	-265.56	-499.88	3.00	-3.00	0.00	
4,800.00	5.49	195.273	4,650.18	-984.26	-268.77	-505.92	3.00	-3.00	0.00	
4,900.00	2.49	195.273	4,749.92	-990.98	-270.60	-509.37	3.00	-3.00	0.00	
4,983.15	0.00	0.000	4,833.05	-992.73	-271.08	-510.27	3.00	-3.00	0.00	
<b>Begin vertical hold</b>										
4,997.10	0.00	0.000	4,847.00	-992.73	-271.08	-510.27	0.00	0.00	0.00	
<b>MNCS_A</b>										
5,000.00	0.00	0.000	4,849.90	-992.73	-271.08	-510.27	0.00	0.00	0.00	
5,082.10	0.00	0.000	4,932.00	-992.73	-271.08	-510.27	0.00	0.00	0.00	
<b>MNCS_B</b>										
5,083.15	0.00	0.000	4,933.05	-992.73	-271.08	-510.27	0.00	0.00	0.00	
<b>Begin 10°/100' build</b>										
5,100.00	1.68	314.999	4,949.89	-992.55	-271.26	-510.02	10.00	10.00	0.00	
5,150.00	6.68	314.999	4,999.74	-989.98	-273.83	-506.37	10.00	10.00	0.00	
5,200.00	11.68	314.999	5,049.09	-984.33	-279.48	-498.39	10.00	10.00	0.00	
5,202.98	11.98	314.999	5,052.00	-983.90	-279.91	-497.78	10.00	10.00	0.00	
<b>MNCS_C</b>										
5,250.00	16.68	314.999	5,097.55	-975.67	-288.14	-486.15	10.00	10.00	0.00	
5,281.01	19.79	314.999	5,127.00	-968.81	-295.00	-476.44	10.00	10.00	0.00	
<b>MNCS_Cms</b>										
5,300.00	21.68	314.999	5,144.76	-964.06	-299.75	-469.72	10.00	10.00	0.00	
5,350.00	26.68	314.999	5,190.35	-949.58	-314.23	-449.24	10.00	10.00	0.00	
5,368.79	28.56	314.999	5,207.00	-943.42	-320.39	-440.53	10.00	10.00	0.00	
<b>MNCS_D</b>										
5,400.00	31.68	314.999	5,233.99	-932.35	-331.47	-424.87	10.00	10.00	0.00	
5,450.00	36.68	314.999	5,275.34	-912.49	-351.33	-396.79	10.00	10.00	0.00	
5,458.35	37.52	314.999	5,282.00	-908.93	-354.89	-391.75	10.00	10.00	0.00	
<b>MNCS_E</b>										
5,500.00	41.68	314.999	5,314.08	-890.16	-373.66	-365.21	10.00	10.00	0.00	



## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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)	
5,538.57	45.54	314.999	5,342.00	-871.35	-392.46	-338.61	10.00	10.00	0.00	
<b>MNCS_F</b>										
5,550.00	46.68	314.999	5,349.93	-865.52	-398.29	-330.37	10.00	10.00	0.00	
5,600.00	51.68	314.999	5,382.60	-838.77	-425.04	-292.54	10.00	10.00	0.00	
5,650.00	56.68	314.999	5,411.85	-810.11	-453.70	-252.01	10.00	10.00	0.00	
5,683.15	60.00	314.999	5,429.25	-790.16	-473.65	-223.79	10.00	10.00	0.00	
<b>Begin 60.00° tangent</b>										
5,688.66	60.00	314.999	5,432.00	-786.79	-477.03	-219.02	0.00	0.00	0.00	
<b>MNCS_G</b>										
5,700.00	60.00	314.999	5,437.67	-779.85	-483.97	-209.20	0.00	0.00	0.00	
5,743.15	60.00	314.999	5,459.25	-753.42	-510.40	-171.83	0.00	0.00	0.00	
<b>Begin 10°/100' build</b>										
5,750.00	60.68	314.999	5,462.63	-749.21	-514.60	-165.88	10.00	10.00	0.00	
5,769.74	62.66	314.999	5,472.00	-736.93	-526.89	-148.50	10.00	10.00	0.00	
<b>MNCS_H</b>										
5,800.00	65.68	314.999	5,485.18	-717.67	-546.15	-121.27	10.00	10.00	0.00	
5,850.00	70.68	314.999	5,503.76	-684.86	-578.96	-74.87	10.00	10.00	0.00	
5,900.00	75.68	314.999	5,518.22	-651.03	-612.79	-27.02	10.00	10.00	0.00	
5,916.20	77.30	314.999	5,522.00	-639.89	-623.93	-11.27	10.00	10.00	0.00	
<b>MNCS_I</b>										
5,950.00	80.68	314.999	5,528.45	-616.43	-647.39	21.91	10.00	10.00	0.00	
6,000.00	85.68	314.999	5,534.38	-581.34	-682.49	71.54	10.00	10.00	0.00	
6,040.38	89.72	314.999	5,536.00	-552.82	-711.01	111.87	10.00	10.00	0.00	
<b>Begin 89.72° lateral</b>										
6,100.00	89.72	314.999	5,536.29	-510.66	-753.17	171.50	0.00	0.00	0.00	
6,200.00	89.72	314.999	5,536.78	-439.95	-823.88	271.49	0.00	0.00	0.00	
6,300.00	89.72	314.999	5,537.26	-369.24	-894.59	371.49	0.00	0.00	0.00	
6,400.00	89.72	314.999	5,537.75	-298.53	-965.30	471.49	0.00	0.00	0.00	
6,500.00	89.72	314.999	5,538.23	-227.82	-1,036.01	571.49	0.00	0.00	0.00	
6,600.00	89.72	314.999	5,538.72	-157.12	-1,106.72	671.49	0.00	0.00	0.00	
6,700.00	89.72	314.999	5,539.20	-86.41	-1,177.43	771.49	0.00	0.00	0.00	
6,800.00	89.72	314.999	5,539.69	-15.70	-1,248.15	871.49	0.00	0.00	0.00	
6,900.00	89.72	314.999	5,540.17	55.01	-1,318.86	971.49	0.00	0.00	0.00	
7,000.00	89.72	314.999	5,540.66	125.72	-1,389.57	1,071.49	0.00	0.00	0.00	
7,100.00	89.72	314.999	5,541.14	196.43	-1,460.28	1,171.48	0.00	0.00	0.00	
7,200.00	89.72	314.999	5,541.63	267.14	-1,530.99	1,271.48	0.00	0.00	0.00	
7,300.00	89.72	314.999	5,542.11	337.84	-1,601.70	1,371.48	0.00	0.00	0.00	
7,400.00	89.72	314.999	5,542.60	408.55	-1,672.41	1,471.48	0.00	0.00	0.00	
7,500.00	89.72	314.999	5,543.08	479.26	-1,743.12	1,571.48	0.00	0.00	0.00	
7,600.00	89.72	314.999	5,543.57	549.97	-1,813.83	1,671.48	0.00	0.00	0.00	
7,700.00	89.72	314.999	5,544.05	620.68	-1,884.55	1,771.48	0.00	0.00	0.00	
7,800.00	89.72	314.999	5,544.53	691.39	-1,955.26	1,871.48	0.00	0.00	0.00	
7,900.00	89.72	314.999	5,545.02	762.10	-2,025.97	1,971.47	0.00	0.00	0.00	
8,000.00	89.72	314.999	5,545.50	832.81	-2,096.68	2,071.47	0.00	0.00	0.00	
8,100.00	89.72	314.999	5,545.99	903.51	-2,167.39	2,171.47	0.00	0.00	0.00	
8,200.00	89.72	314.999	5,546.47	974.22	-2,238.10	2,271.47	0.00	0.00	0.00	
8,300.00	89.72	314.999	5,546.96	1,044.93	-2,308.81	2,371.47	0.00	0.00	0.00	
8,400.00	89.72	314.999	5,547.44	1,115.64	-2,379.52	2,471.47	0.00	0.00	0.00	
8,500.00	89.72	314.999	5,547.93	1,186.35	-2,450.23	2,571.47	0.00	0.00	0.00	
8,600.00	89.72	314.999	5,548.41	1,257.06	-2,520.95	2,671.47	0.00	0.00	0.00	
8,700.00	89.72	314.999	5,548.90	1,327.77	-2,591.66	2,771.47	0.00	0.00	0.00	
8,800.00	89.72	314.999	5,549.38	1,398.47	-2,662.37	2,871.46	0.00	0.00	0.00	
8,900.00	89.72	314.999	5,549.87	1,469.18	-2,733.08	2,971.46	0.00	0.00	0.00	



## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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)
9,000.00	89.72	314.999	5,550.35	1,539.89	-2,803.79	3,071.46	0.00	0.00	0.00
9,100.00	89.72	314.999	5,550.84	1,610.60	-2,874.50	3,171.46	0.00	0.00	0.00
9,200.00	89.72	314.999	5,551.32	1,681.31	-2,945.21	3,271.46	0.00	0.00	0.00
9,300.00	89.72	314.999	5,551.81	1,752.02	-3,015.92	3,371.46	0.00	0.00	0.00
9,400.00	89.72	314.999	5,552.29	1,822.73	-3,086.63	3,471.46	0.00	0.00	0.00
9,500.00	89.72	314.999	5,552.78	1,893.43	-3,157.35	3,571.46	0.00	0.00	0.00
9,600.00	89.72	314.999	5,553.26	1,964.14	-3,228.06	3,671.45	0.00	0.00	0.00
9,700.00	89.72	314.999	5,553.75	2,034.85	-3,298.77	3,771.45	0.00	0.00	0.00
9,800.00	89.72	314.999	5,554.23	2,105.56	-3,369.48	3,871.45	0.00	0.00	0.00
9,900.00	89.72	314.999	5,554.72	2,176.27	-3,440.19	3,971.45	0.00	0.00	0.00
10,000.00	89.72	314.999	5,555.20	2,246.98	-3,510.90	4,071.45	0.00	0.00	0.00
10,100.00	89.72	314.999	5,555.69	2,317.69	-3,581.61	4,171.45	0.00	0.00	0.00
10,200.00	89.72	314.999	5,556.17	2,388.39	-3,652.32	4,271.45	0.00	0.00	0.00
10,300.00	89.72	314.999	5,556.66	2,459.10	-3,723.03	4,371.45	0.00	0.00	0.00
10,400.00	89.72	314.999	5,557.14	2,529.81	-3,793.75	4,471.45	0.00	0.00	0.00
10,500.00	89.72	314.999	5,557.63	2,600.52	-3,864.46	4,571.44	0.00	0.00	0.00
10,600.00	89.72	314.999	5,558.11	2,671.23	-3,935.17	4,671.44	0.00	0.00	0.00
10,700.00	89.72	314.999	5,558.60	2,741.94	-4,005.88	4,771.44	0.00	0.00	0.00
10,800.00	89.72	314.999	5,559.08	2,812.65	-4,076.59	4,871.44	0.00	0.00	0.00
10,900.00	89.72	314.999	5,559.57	2,883.35	-4,147.30	4,971.44	0.00	0.00	0.00
11,000.00	89.72	314.999	5,560.05	2,954.06	-4,218.01	5,071.44	0.00	0.00	0.00
11,100.00	89.72	314.999	5,560.54	3,024.77	-4,288.72	5,171.44	0.00	0.00	0.00
11,200.00	89.72	314.999	5,561.02	3,095.48	-4,359.43	5,271.44	0.00	0.00	0.00
11,300.00	89.72	314.999	5,561.51	3,166.19	-4,430.14	5,371.43	0.00	0.00	0.00
11,400.00	89.72	314.999	5,561.99	3,236.90	-4,500.86	5,471.43	0.00	0.00	0.00
11,500.00	89.72	314.999	5,562.48	3,307.61	-4,571.57	5,571.43	0.00	0.00	0.00
11,600.00	89.72	314.999	5,562.96	3,378.32	-4,642.28	5,671.43	0.00	0.00	0.00
11,700.00	89.72	314.999	5,563.45	3,449.02	-4,712.99	5,771.43	0.00	0.00	0.00
11,800.00	89.72	314.999	5,563.93	3,519.73	-4,783.70	5,871.43	0.00	0.00	0.00
11,900.00	89.72	314.999	5,564.42	3,590.44	-4,854.41	5,971.43	0.00	0.00	0.00
12,000.00	89.72	314.999	5,564.90	3,661.15	-4,925.12	6,071.43	0.00	0.00	0.00
12,100.00	89.72	314.999	5,565.39	3,731.86	-4,995.83	6,171.43	0.00	0.00	0.00
12,200.00	89.72	314.999	5,565.87	3,802.57	-5,066.54	6,271.42	0.00	0.00	0.00
12,300.00	89.72	314.999	5,566.36	3,873.28	-5,137.26	6,371.42	0.00	0.00	0.00
12,400.00	89.72	314.999	5,566.84	3,943.98	-5,207.97	6,471.42	0.00	0.00	0.00
12,500.00	89.72	314.999	5,567.33	4,014.69	-5,278.68	6,571.42	0.00	0.00	0.00
12,600.00	89.72	314.999	5,567.81	4,085.40	-5,349.39	6,671.42	0.00	0.00	0.00
12,700.00	89.72	314.999	5,568.30	4,156.11	-5,420.10	6,771.42	0.00	0.00	0.00
12,800.00	89.72	314.999	5,568.78	4,226.82	-5,490.81	6,871.42	0.00	0.00	0.00
12,900.00	89.72	314.999	5,569.27	4,297.53	-5,561.52	6,971.42	0.00	0.00	0.00
13,000.00	89.72	314.999	5,569.75	4,368.24	-5,632.23	7,071.41	0.00	0.00	0.00
13,100.00	89.72	314.999	5,570.24	4,438.94	-5,702.94	7,171.41	0.00	0.00	0.00
13,200.00	89.72	314.999	5,570.72	4,509.65	-5,773.66	7,271.41	0.00	0.00	0.00
13,300.00	89.72	314.999	5,571.21	4,580.36	-5,844.37	7,371.41	0.00	0.00	0.00
13,400.00	89.72	314.999	5,571.69	4,651.07	-5,915.08	7,471.41	0.00	0.00	0.00
13,500.00	89.72	314.999	5,572.18	4,721.78	-5,985.79	7,571.41	0.00	0.00	0.00
13,600.00	89.72	314.999	5,572.66	4,792.49	-6,056.50	7,671.41	0.00	0.00	0.00
13,700.00	89.72	314.999	5,573.15	4,863.20	-6,127.21	7,771.41	0.00	0.00	0.00
13,800.00	89.72	314.999	5,573.63	4,933.90	-6,197.92	7,871.41	0.00	0.00	0.00
13,900.00	89.72	314.999	5,574.12	5,004.61	-6,268.63	7,971.40	0.00	0.00	0.00
14,000.00	89.72	314.999	5,574.60	5,075.32	-6,339.34	8,071.40	0.00	0.00	0.00
14,100.00	89.72	314.999	5,575.09	5,146.03	-6,410.06	8,171.40	0.00	0.00	0.00
14,200.00	89.72	314.999	5,575.57	5,216.74	-6,480.77	8,271.40	0.00	0.00	0.00
14,300.00	89.72	314.999	5,576.06	5,287.45	-6,551.48	8,371.40	0.00	0.00	0.00





## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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)
14,400.00	89.72	314.999	5,576.54	5,358.16	-6,622.19	8,471.40	0.00	0.00	0.00
14,500.00	89.72	314.999	5,577.03	5,428.86	-6,692.90	8,571.40	0.00	0.00	0.00
14,600.00	89.72	314.999	5,577.51	5,499.57	-6,763.61	8,671.40	0.00	0.00	0.00
14,700.00	89.72	314.999	5,578.00	5,570.28	-6,834.32	8,771.40	0.00	0.00	0.00
14,800.00	89.72	314.999	5,578.48	5,640.99	-6,905.03	8,871.39	0.00	0.00	0.00
14,900.00	89.72	314.999	5,578.97	5,711.70	-6,975.74	8,971.39	0.00	0.00	0.00
15,000.00	89.72	314.999	5,579.45	5,782.41	-7,046.46	9,071.39	0.00	0.00	0.00
15,100.00	89.72	314.999	5,579.94	5,853.12	-7,117.17	9,171.39	0.00	0.00	0.00
15,200.00	89.72	314.999	5,580.42	5,923.82	-7,187.88	9,271.39	0.00	0.00	0.00
15,300.00	89.72	314.999	5,580.91	5,994.53	-7,258.59	9,371.39	0.00	0.00	0.00
15,400.00	89.72	314.999	5,581.39	6,065.24	-7,329.30	9,471.39	0.00	0.00	0.00
15,500.00	89.72	314.999	5,581.88	6,135.95	-7,400.01	9,571.39	0.00	0.00	0.00
15,525.14	89.72	314.999	5,582.00	6,153.73	-7,417.79	9,596.53	0.00	0.00	0.00
PBHL/TD @ 15525.14 MD 5582.00 TVD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ridge 136H FTP 2379 F	0.00	0.000	5,537.00	-552.82	-711.01	1,923,433.703	2,775,715.668	36.285950000	-107.654775000
- hit/miss target									
- Shape									
- plan misses target center by 1.00ft at 6040.38ft MD (5536.00 TVD, -552.82 N, -711.01 E)									
- Point									
Ridge 136H LTP 955 FN	0.00	0.000	5,582.00	6,153.73	-7,417.79	1,930,140.240	2,769,008.899	36.304405000	-107.677495000
- plan hits target center									
- Point									

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	
3,674.05	3,567.00	9 5/8" Csg	9-5/8	12-1/4	



## Planning Report

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,234.59	1,234.00	Ojo Alamo				
1,359.11	1,357.00	Kirtland				
1,586.16	1,577.00	Fruitland				
1,921.90	1,897.00	Pictured Cliffs				
2,026.82	1,997.00	Lewis				
2,357.31	2,312.00	Chacra				
3,511.43	3,412.00	Cliff House				
3,516.67	3,417.00	Menefee				
4,392.75	4,252.00	Point Lookout				
4,625.01	4,477.00	Mancos				
4,997.10	4,847.00	MNCS_A				
5,082.10	4,932.00	MNCS_B				
5,202.98	5,052.00	MNCS_C				
5,281.01	5,127.00	MNCS_Cms				
5,368.79	5,207.00	MNCS_D				
5,458.35	5,282.00	MNCS_E				
5,538.57	5,342.00	MNCS_F				
5,688.66	5,432.00	MNCS_G				
5,769.74	5,472.00	MNCS_H				
5,916.20	5,522.00	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	
1,587.15	1,577.94	-86.38	-23.59	Begin 17.61° tangent	
4,396.01	4,255.11	-906.35	-247.49	Begin 3°/100' drop	
4,983.15	4,833.05	-992.73	-271.08	Begin vertical hold	
5,083.15	4,933.05	-992.73	-271.08	Begin 10°/100' build	
5,683.15	5,429.25	-790.16	-473.65	Begin 60.00° tangent	
5,743.15	5,459.25	-753.42	-510.40	Begin 10°/100' build	
6,040.38	5,536.00	-552.82	-711.01	Begin 89.72° lateral	
15,525.14	5,582.00	6,153.73	-7,417.79	PBHL/TD @ 15525.14 MD 5582.00 TVD	



## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev1		

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

Site		Ridge Unit (130, 135, 136 & 137)			
Site Position:		Northing:	1,924,000.063 usft	Latitude:	36.287502000
From:	Lat/Long	Easting:	2,776,464.370 usft	Longitude:	-107.652231000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	Ridge Unit No. 136H, Surf loc: 1829 FNL 2289 FWL Section 26-T24N-R08W					
Well Position	+N/-S	0.00 ft	Northing:	1,923,986.524 usft	Latitude:	36.287465000
	+E/-W	0.00 ft	Easting:	2,776,426.672 usft	Longitude:	-107.652359000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,832.00 ft
Grid Convergence:		0.11 °				

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	8/15/2023	8.54	62.77	49,131.93328095

<b>Design</b>	rev1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	314.999

<b>Plan Survey Tool Program</b>	<b>Date</b>	8/16/2023		
<b>Depth From (ft)</b>	<b>Depth To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	15,525.14 rev1 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Ridge Unit No. 136H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6832+25 @ 6857.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6832+25 @ 6857.00ft
Site:	Ridge Unit (130, 135, 136 & 137)	North Reference:	Grid
Well:	Ridge Unit No. 136H	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	
1,587.15	17.61	195.273	1,577.94	-86.38	-23.59	3.00	3.00	0.00	195.27	
4,396.01	17.61	195.273	4,255.11	-906.35	-247.49	0.00	0.00	0.00	0.00	
4,983.15	0.00	0.000	4,833.05	-992.73	-271.08	3.00	-3.00	0.00	180.00	
5,083.15	0.00	0.000	4,933.05	-992.73	-271.08	0.00	0.00	0.00	0.00	
5,683.15	60.00	314.999	5,429.25	-790.16	-473.65	10.00	10.00	0.00	315.00	
5,743.15	60.00	314.999	5,459.25	-753.42	-510.40	0.00	0.00	0.00	0.00	
6,040.38	89.72	314.999	5,536.00	-552.82	-711.01	10.00	10.00	0.00	0.00	
15,525.14	89.72	314.999	5,582.00	6,153.73	-7,417.79	0.00	0.00	0.00	0.00	Ridge 136H LTP 955



## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
100.00	0.00	0.000	100.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
200.00	0.00	0.000	200.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
300.00	0.00	0.000	300.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
350.00	0.00	0.000	350.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
<b>13 3/8" Csg</b>									
400.00	0.00	0.000	400.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
500.00	0.00	0.000	500.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
600.00	0.00	0.000	600.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
700.00	0.00	0.000	700.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
800.00	0.00	0.000	800.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
900.00	0.00	0.000	900.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,923,986.524	2,776,426.672	36.287465000	-107.652359000
<b>KOP Begin 3"/100' build</b>									
1,100.00	3.00	195.273	1,099.95	-2.52	-0.69	1,923,983.999	2,776,425.982	36.287458068	-107.652361355
1,200.00	6.00	195.273	1,199.63	-10.09	-2.76	1,923,976.431	2,776,423.916	36.287437289	-107.652368415
1,234.59	7.04	195.273	1,234.00	-13.88	-3.79	1,923,972.643	2,776,422.881	36.287426888	-107.652371949
<b>Ojo Alamo</b>									
1,300.00	9.00	195.273	1,298.77	-22.68	-6.19	1,923,963.841	2,776,420.478	36.287402721	-107.652380160
1,359.11	10.77	195.273	1,357.00	-32.47	-8.87	1,923,954.050	2,776,417.804	36.287375839	-107.652389294
<b>Kirtland</b>									
1,400.00	12.00	195.273	1,397.08	-40.26	-10.99	1,923,946.263	2,776,415.678	36.287354458	-107.652396559
1,500.00	15.00	195.273	1,494.31	-62.78	-17.14	1,923,923.746	2,776,409.529	36.287292633	-107.652417565
1,586.16	17.58	195.273	1,577.00	-86.09	-23.51	1,923,900.430	2,776,403.163	36.287228618	-107.652439315
<b>Fruitland</b>									
1,587.15	17.61	195.273	1,577.94	-86.38	-23.59	1,923,900.142	2,776,403.084	36.287227827	-107.652439584
<b>Begin 17.61° tangent</b>									
1,600.00	17.61	195.273	1,590.19	-90.13	-24.61	1,923,896.390	2,776,402.059	36.287217525	-107.652443085
1,700.00	17.61	195.273	1,685.50	-119.33	-32.58	1,923,867.198	2,776,394.088	36.287137374	-107.652470317
1,800.00	17.61	195.273	1,780.82	-148.52	-40.56	1,923,838.006	2,776,386.117	36.287057222	-107.652497550
1,900.00	17.61	195.273	1,876.13	-177.71	-48.53	1,923,808.814	2,776,378.145	36.286977071	-107.652524783
1,921.90	17.61	195.273	1,897.00	-184.10	-50.27	1,923,802.421	2,776,376.400	36.286959518	-107.652530747
<b>Pictured Cliffs</b>									
2,000.00	17.61	195.273	1,971.44	-206.90	-56.50	1,923,779.622	2,776,370.174	36.286896920	-107.652552016
2,026.82	17.61	195.273	1,997.00	-214.73	-58.64	1,923,771.793	2,776,368.036	36.286875424	-107.652559319
<b>Lewis</b>									
2,100.00	17.61	195.273	2,066.75	-236.09	-64.47	1,923,750.430	2,776,362.203	36.286816769	-107.652579248
2,200.00	17.61	195.273	2,162.06	-265.29	-72.44	1,923,721.238	2,776,354.231	36.286736618	-107.652606481
2,300.00	17.61	195.273	2,257.37	-294.48	-80.41	1,923,692.046	2,776,346.260	36.286656467	-107.652633714
2,357.31	17.61	195.273	2,312.00	-311.21	-84.98	1,923,675.314	2,776,341.691	36.286610528	-107.652649322
<b>Chacra</b>									
2,400.00	17.61	195.273	2,352.68	-323.67	-88.38	1,923,662.854	2,776,338.289	36.286576315	-107.652660946
2,500.00	17.61	195.273	2,448.00	-352.86	-96.35	1,923,633.662	2,776,330.317	36.286496164	-107.652688179
2,600.00	17.61	195.273	2,543.31	-382.06	-104.33	1,923,604.469	2,776,322.346	36.286416013	-107.652715411
2,700.00	17.61	195.273	2,638.62	-411.25	-112.30	1,923,575.277	2,776,314.375	36.286335862	-107.652742643
2,800.00	17.61	195.273	2,733.93	-440.44	-120.27	1,923,546.085	2,776,306.403	36.286255710	-107.652769876
2,900.00	17.61	195.273	2,829.24	-469.63	-128.24	1,923,516.893	2,776,298.432	36.286175559	-107.652797108
3,000.00	17.61	195.273	2,924.55	-498.82	-136.21	1,923,487.701	2,776,290.461	36.286095408	-107.652824340
3,100.00	17.61	195.273	3,019.86	-528.02	-144.18	1,923,458.509	2,776,282.489	36.286015257	-107.652851572
3,200.00	17.61	195.273	3,115.18	-557.21	-152.15	1,923,429.317	2,776,274.518	36.285935105	-107.652878804
3,300.00	17.61	195.273	3,210.49	-586.40	-160.13	1,923,400.125	2,776,266.547	36.285854954	-107.652906036
3,400.00	17.61	195.273	3,305.80	-615.59	-168.10	1,923,370.933	2,776,258.575	36.285774803	-107.652933268
3,500.00	17.61	195.273	3,401.11	-644.78	-176.07	1,923,341.741	2,776,250.604	36.285694652	-107.652960500



## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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	
3,511.43	17.61	195.273	3,412.00	-648.12	-176.98	1,923,338.405	2,776,249.693	36.285685494	-107.652963611	
Cliff House										
3,516.67	17.61	195.273	3,417.00	-649.65	-177.40	1,923,336.874	2,776,249.275	36.285681289	-107.652965040	
Menefee										
3,600.00	17.61	195.273	3,496.42	-673.98	-184.04	1,923,312.549	2,776,242.633	36.285614500	-107.652987732	
3,674.05	17.61	195.273	3,567.00	-695.59	-189.94	1,923,290.932	2,776,236.730	36.285555148	-107.653007897	
9 5/8" Csg										
3,700.00	17.61	195.273	3,591.73	-703.17	-192.01	1,923,283.357	2,776,234.661	36.285534349	-107.653014963	
3,800.00	17.61	195.273	3,687.04	-732.36	-199.98	1,923,254.165	2,776,226.690	36.285454198	-107.653042195	
3,900.00	17.61	195.273	3,782.36	-761.55	-207.95	1,923,224.973	2,776,218.719	36.285374047	-107.653069427	
4,000.00	17.61	195.273	3,877.67	-790.75	-215.92	1,923,195.780	2,776,210.747	36.285293895	-107.653096658	
4,100.00	17.61	195.273	3,972.98	-819.94	-223.90	1,923,166.588	2,776,202.776	36.285213744	-107.653123890	
4,200.00	17.61	195.273	4,068.29	-849.13	-231.87	1,923,137.396	2,776,194.805	36.285133593	-107.653151122	
4,300.00	17.61	195.273	4,163.60	-878.32	-239.84	1,923,108.204	2,776,186.833	36.285053441	-107.653178353	
4,392.75	17.61	195.273	4,252.00	-905.40	-247.23	1,923,081.130	2,776,179.440	36.284979104	-107.653203609	
Point Lookout										
4,396.01	17.61	195.273	4,255.11	-906.35	-247.49	1,923,080.177	2,776,179.180	36.284976489	-107.653204497	
Begin 3°/100' drop										
4,400.00	17.49	195.273	4,258.91	-907.51	-247.81	1,923,079.016	2,776,178.863	36.284973300	-107.653205581	
4,500.00	14.49	195.273	4,355.03	-934.09	-255.07	1,923,052.438	2,776,171.605	36.284900325	-107.653230374	
4,600.00	11.49	195.273	4,452.46	-955.78	-260.99	1,923,030.748	2,776,165.683	36.284840774	-107.653250606	
4,625.01	10.74	195.273	4,477.00	-960.43	-262.26	1,923,026.096	2,776,164.412	36.284827999	-107.653254947	
Mancos										
4,700.00	8.49	195.273	4,550.93	-972.52	-265.56	1,923,014.008	2,776,161.112	36.284794810	-107.653266223	
4,800.00	5.49	195.273	4,650.18	-984.26	-268.77	1,923,002.261	2,776,157.904	36.284762559	-107.653277180	
4,900.00	2.49	195.273	4,749.92	-990.98	-270.60	1,922,995.542	2,776,156.069	36.284744109	-107.653283448	
4,983.15	0.00	0.000	4,833.05	-992.73	-271.08	1,922,993.796	2,776,155.592	36.284739315	-107.653285077	
Begin vertical hold										
4,997.10	0.00	0.000	4,847.00	-992.73	-271.08	1,922,993.796	2,776,155.592	36.284739315	-107.653285077	
MNCS_A										
5,000.00	0.00	0.000	4,849.90	-992.73	-271.08	1,922,993.796	2,776,155.592	36.284739315	-107.653285077	
5,082.10	0.00	0.000	4,932.00	-992.73	-271.08	1,922,993.796	2,776,155.592	36.284739315	-107.653285077	
MNCS_B										
5,083.15	0.00	0.000	4,933.05	-992.73	-271.08	1,922,993.796	2,776,155.592	36.284739315	-107.653285077	
Begin 10°/100' build										
5,100.00	1.68	314.999	4,949.89	-992.55	-271.26	1,922,993.971	2,776,155.417	36.284739797	-107.653285670	
5,150.00	6.68	314.999	4,999.74	-989.98	-273.83	1,922,996.550	2,776,152.838	36.284746895	-107.653294404	
5,200.00	11.68	314.999	5,049.09	-984.33	-279.48	1,923,002.191	2,776,147.197	36.284762421	-107.653313511	
5,202.98	11.98	314.999	5,052.00	-983.90	-279.91	1,923,002.623	2,776,146.765	36.284763608	-107.653314972	
MNCS_C										
5,250.00	16.68	314.999	5,097.55	-975.67	-288.14	1,923,010.852	2,776,138.536	36.284786257	-107.653342843	
5,281.01	19.79	314.999	5,127.00	-968.81	-295.00	1,923,017.713	2,776,131.674	36.284805140	-107.653366081	
MNCS_Cms										
5,300.00	21.68	314.999	5,144.76	-964.06	-299.75	1,923,022.466	2,776,126.921	36.284818221	-107.653382179	
5,350.00	26.68	314.999	5,190.35	-949.58	-314.23	1,923,036.946	2,776,112.441	36.284858070	-107.653431218	
5,368.79	28.56	314.999	5,207.00	-943.42	-320.39	1,923,043.106	2,776,106.281	36.284875024	-107.653452082	
MNCS_D										
5,400.00	31.68	314.999	5,233.99	-932.35	-331.47	1,923,054.180	2,776,095.206	36.284905502	-107.653489588	
5,450.00	36.68	314.999	5,275.34	-912.49	-351.33	1,923,074.038	2,776,075.347	36.284960154	-107.653556845	
5,458.35	37.52	314.999	5,282.00	-908.93	-354.89	1,923,077.600	2,776,071.785	36.284969957	-107.653568908	
MNCS_E										
5,500.00	41.68	314.999	5,314.08	-890.16	-373.66	1,923,096.369	2,776,053.016	36.285021612	-107.653632476	



## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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	
5,538.57	45.54	314.999	5,342.00	-871.35	-392.46	1,923,115.175	2,776,034.209	36.285073369	-107.653696170	
MNCS_F										
5,550.00	46.68	314.999	5,349.93	-865.52	-398.29	1,923,121.002	2,776,028.382	36.285089406	-107.653715906	
5,600.00	51.68	314.999	5,382.60	-838.77	-425.04	1,923,147.751	2,776,001.632	36.285163022	-107.653806500	
5,650.00	56.68	314.999	5,411.85	-810.11	-453.70	1,923,176.411	2,775,972.971	36.285241899	-107.653903568	
5,683.15	60.00	314.999	5,429.25	-790.16	-473.65	1,923,196.363	2,775,953.018	36.285296811	-107.653971144	
Begin 60.00° tangent										
5,688.66	60.00	314.999	5,432.00	-786.79	-477.03	1,923,199.736	2,775,949.645	36.285306093	-107.653982567	
MNCS_G										
5,700.00	60.00	314.999	5,437.67	-779.85	-483.97	1,923,206.679	2,775,942.702	36.285325200	-107.654006081	
5,743.15	60.00	314.999	5,459.25	-753.42	-510.40	1,923,233.105	2,775,916.275	36.285397929	-107.654095584	
Begin 10°/100' build										
5,750.00	60.68	314.999	5,462.63	-749.21	-514.60	1,923,237.311	2,775,912.069	36.285409505	-107.654109830	
5,769.74	62.66	314.999	5,472.00	-736.93	-526.89	1,923,249.597	2,775,899.782	36.285443317	-107.654151441	
MNCS_H										
5,800.00	65.68	314.999	5,485.18	-717.67	-546.15	1,923,268.854	2,775,880.525	36.285496315	-107.654216662	
5,850.00	70.68	314.999	5,503.76	-684.86	-578.96	1,923,301.666	2,775,847.712	36.285586618	-107.654327794	
5,900.00	75.68	314.999	5,518.22	-651.03	-612.79	1,923,335.498	2,775,813.878	36.285679729	-107.654442381	
5,916.20	77.30	314.999	5,522.00	-639.89	-623.93	1,923,346.636	2,775,802.740	36.285710381	-107.654480103	
MNCS_I										
5,950.00	80.68	314.999	5,528.45	-616.43	-647.39	1,923,370.093	2,775,779.282	36.285774938	-107.654559550	
6,000.00	85.68	314.999	5,534.38	-581.34	-682.49	1,923,405.187	2,775,744.187	36.285871520	-107.654678410	
6,040.38	89.72	314.999	5,536.00	-552.82	-711.01	1,923,433.707	2,775,715.666	36.285950012	-107.654775008	
Begin 89.72° lateral										
6,100.00	89.72	314.999	5,536.29	-510.66	-753.17	1,923,475.866	2,775,673.505	36.286066039	-107.654917799	
6,200.00	89.72	314.999	5,536.78	-439.95	-823.88	1,923,546.575	2,775,602.794	36.286260637	-107.655157286	
6,300.00	89.72	314.999	5,537.26	-369.24	-894.59	1,923,617.283	2,775,532.083	36.286455234	-107.655396774	
6,400.00	89.72	314.999	5,537.75	-298.53	-965.30	1,923,687.992	2,775,461.372	36.286649830	-107.655636263	
6,500.00	89.72	314.999	5,538.23	-227.82	-1,036.01	1,923,758.700	2,775,390.661	36.286844426	-107.655875754	
6,600.00	89.72	314.999	5,538.72	-157.12	-1,106.72	1,923,829.409	2,775,319.950	36.287039022	-107.656115245	
6,700.00	89.72	314.999	5,539.20	-86.41	-1,177.43	1,923,900.117	2,775,249.239	36.287233617	-107.656354738	
6,800.00	89.72	314.999	5,539.69	-15.70	-1,248.15	1,923,970.826	2,775,178.528	36.287428211	-107.656594232	
6,900.00	89.72	314.999	5,540.17	55.01	-1,318.86	1,924,041.534	2,775,107.818	36.287622805	-107.656833727	
7,000.00	89.72	314.999	5,540.66	125.72	-1,389.57	1,924,112.243	2,775,037.107	36.287817399	-107.657073224	
7,100.00	89.72	314.999	5,541.14	196.43	-1,460.28	1,924,182.951	2,774,966.396	36.288011992	-107.657312721	
7,200.00	89.72	314.999	5,541.63	267.14	-1,530.99	1,924,253.660	2,774,895.685	36.288206584	-107.657552220	
7,300.00	89.72	314.999	5,542.11	337.84	-1,601.70	1,924,324.368	2,774,824.974	36.288401177	-107.657791720	
7,400.00	89.72	314.999	5,542.60	408.55	-1,672.41	1,924,395.077	2,774,754.263	36.288595768	-107.658031221	
7,500.00	89.72	314.999	5,543.08	479.26	-1,743.12	1,924,465.785	2,774,683.552	36.288790359	-107.658270723	
7,600.00	89.72	314.999	5,543.57	549.97	-1,813.83	1,924,536.493	2,774,612.841	36.288984950	-107.658510227	
7,700.00	89.72	314.999	5,544.05	620.68	-1,884.55	1,924,607.202	2,774,542.130	36.289179540	-107.658749731	
7,800.00	89.72	314.999	5,544.53	691.39	-1,955.26	1,924,677.910	2,774,471.419	36.289374130	-107.658989237	
7,900.00	89.72	314.999	5,545.02	762.10	-2,025.97	1,924,748.619	2,774,400.708	36.289568719	-107.659228744	
8,000.00	89.72	314.999	5,545.50	832.81	-2,096.68	1,924,819.327	2,774,329.997	36.289763308	-107.659468253	
8,100.00	89.72	314.999	5,545.99	903.51	-2,167.39	1,924,890.036	2,774,259.286	36.289957896	-107.659707762	
8,200.00	89.72	314.999	5,546.47	974.22	-2,238.10	1,924,960.744	2,774,188.575	36.290152484	-107.659947273	
8,300.00	89.72	314.999	5,546.96	1,044.93	-2,308.81	1,925,031.453	2,774,117.864	36.290347071	-107.660186784	
8,400.00	89.72	314.999	5,547.44	1,115.64	-2,379.52	1,925,102.161	2,774,047.153	36.290541658	-107.660426297	
8,500.00	89.72	314.999	5,547.93	1,186.35	-2,450.23	1,925,172.870	2,773,976.442	36.290736245	-107.660665812	
8,600.00	89.72	314.999	5,548.41	1,257.06	-2,520.95	1,925,243.578	2,773,905.732	36.290930830	-107.660905327	
8,700.00	89.72	314.999	5,548.90	1,327.77	-2,591.66	1,925,314.287	2,773,835.021	36.291125416	-107.661144844	
8,800.00	89.72	314.999	5,549.38	1,398.47	-2,662.37	1,925,384.995	2,773,764.310	36.291320001	-107.661384361	
8,900.00	89.72	314.999	5,549.87	1,469.18	-2,733.08	1,925,455.703	2,773,693.599	36.291514585	-107.661623880	
9,000.00	89.72	314.999	5,550.35	1,539.89	-2,803.79	1,925,526.412	2,773,622.888	36.291709169	-107.661863400	





## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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	
9,100.00	89.72	314.999	5,550.84	1,610.60	-2,874.50	1,925,597.120	2,773,552.177	36.291903752	-107.662102922	
9,200.00	89.72	314.999	5,551.32	1,681.31	-2,945.21	1,925,667.829	2,773,481.466	36.292098335	-107.662342444	
9,300.00	89.72	314.999	5,551.81	1,752.02	-3,015.92	1,925,738.537	2,773,410.755	36.292292918	-107.662581968	
9,400.00	89.72	314.999	5,552.29	1,822.73	-3,086.63	1,925,809.246	2,773,340.044	36.292487500	-107.662821493	
9,500.00	89.72	314.999	5,552.78	1,893.43	-3,157.35	1,925,879.954	2,773,269.333	36.292682081	-107.663061019	
9,600.00	89.72	314.999	5,553.26	1,964.14	-3,228.06	1,925,950.663	2,773,198.622	36.292876662	-107.663300546	
9,700.00	89.72	314.999	5,553.75	2,034.85	-3,298.77	1,926,021.371	2,773,127.911	36.293071243	-107.663540075	
9,800.00	89.72	314.999	5,554.23	2,105.56	-3,369.48	1,926,092.080	2,773,057.200	36.293265823	-107.663779604	
9,900.00	89.72	314.999	5,554.72	2,176.27	-3,440.19	1,926,162.788	2,772,986.489	36.293460403	-107.664019135	
10,000.00	89.72	314.999	5,555.20	2,246.98	-3,510.90	1,926,233.497	2,772,915.778	36.293654982	-107.664258667	
10,100.00	89.72	314.999	5,555.69	2,317.69	-3,581.61	1,926,304.205	2,772,845.067	36.293849560	-107.664498201	
10,200.00	89.72	314.999	5,556.17	2,388.39	-3,652.32	1,926,374.913	2,772,774.356	36.294044138	-107.664737735	
10,300.00	89.72	314.999	5,556.66	2,459.10	-3,723.03	1,926,445.623	2,772,703.646	36.294238716	-107.664977271	
10,400.00	89.72	314.999	5,557.14	2,529.81	-3,793.75	1,926,516.331	2,772,632.935	36.294433293	-107.665216807	
10,500.00	89.72	314.999	5,557.63	2,600.52	-3,864.46	1,926,587.040	2,772,562.224	36.294627870	-107.665456345	
10,600.00	89.72	314.999	5,558.11	2,671.23	-3,935.17	1,926,657.748	2,772,491.513	36.294822446	-107.665695885	
10,700.00	89.72	314.999	5,558.60	2,741.94	-4,005.88	1,926,728.457	2,772,420.802	36.295017022	-107.665935425	
10,800.00	89.72	314.999	5,559.08	2,812.65	-4,076.59	1,926,799.165	2,772,350.091	36.295211597	-107.666174966	
10,900.00	89.72	314.999	5,559.57	2,883.35	-4,147.30	1,926,869.874	2,772,279.380	36.295406171	-107.666414509	
11,000.00	89.72	314.999	5,560.05	2,954.06	-4,218.01	1,926,940.582	2,772,208.669	36.295600745	-107.666654053	
11,100.00	89.72	314.999	5,560.54	3,024.77	-4,288.72	1,927,011.291	2,772,137.958	36.295795319	-107.666893598	
11,200.00	89.72	314.999	5,561.02	3,095.48	-4,359.43	1,927,081.999	2,772,067.247	36.295989892	-107.667133145	
11,300.00	89.72	314.999	5,561.51	3,166.19	-4,430.14	1,927,152.708	2,771,996.536	36.296184465	-107.667372692	
11,400.00	89.72	314.999	5,561.99	3,236.90	-4,500.86	1,927,223.416	2,771,925.825	36.296379037	-107.667612241	
11,500.00	89.72	314.999	5,562.48	3,307.61	-4,571.57	1,927,294.124	2,771,855.114	36.296573609	-107.667851791	
11,600.00	89.72	314.999	5,562.96	3,378.32	-4,642.28	1,927,364.833	2,771,784.403	36.296768180	-107.668091342	
11,700.00	89.72	314.999	5,563.45	3,449.02	-4,712.99	1,927,435.541	2,771,713.692	36.296962751	-107.668330894	
11,800.00	89.72	314.999	5,563.93	3,519.73	-4,783.70	1,927,506.250	2,771,642.981	36.297157322	-107.668570447	
11,900.00	89.72	314.999	5,564.42	3,590.44	-4,854.41	1,927,576.958	2,771,572.270	36.297351892	-107.668810002	
12,000.00	89.72	314.999	5,564.90	3,661.15	-4,925.12	1,927,647.667	2,771,501.560	36.297546461	-107.669049558	
12,100.00	89.72	314.999	5,565.39	3,731.86	-4,995.83	1,927,718.375	2,771,430.849	36.297741030	-107.669289115	
12,200.00	89.72	314.999	5,565.87	3,802.57	-5,066.54	1,927,789.084	2,771,360.138	36.297935598	-107.669528673	
12,300.00	89.72	314.999	5,566.36	3,873.28	-5,137.26	1,927,859.792	2,771,289.427	36.298130166	-107.669768233	
12,400.00	89.72	314.999	5,566.84	3,943.98	-5,207.97	1,927,930.501	2,771,218.716	36.298324734	-107.670007793	
12,500.00	89.72	314.999	5,567.33	4,014.69	-5,278.68	1,928,001.209	2,771,148.005	36.298519301	-107.670247355	
12,600.00	89.72	314.999	5,567.81	4,085.40	-5,349.39	1,928,071.918	2,771,077.294	36.298713867	-107.670486918	
12,700.00	89.72	314.999	5,568.30	4,156.11	-5,420.10	1,928,142.626	2,771,006.583	36.298908433	-107.670726482	
12,800.00	89.72	314.999	5,568.78	4,226.82	-5,490.81	1,928,213.334	2,770,935.872	36.299102999	-107.670966047	
12,900.00	89.72	314.999	5,569.27	4,297.53	-5,561.52	1,928,284.043	2,770,865.161	36.299297564	-107.671205614	
13,000.00	89.72	314.999	5,569.75	4,368.24	-5,632.23	1,928,354.751	2,770,794.450	36.299492129	-107.671445182	
13,100.00	89.72	314.999	5,570.24	4,438.94	-5,702.94	1,928,425.460	2,770,723.739	36.299686693	-107.671684751	
13,200.00	89.72	314.999	5,570.72	4,509.65	-5,773.66	1,928,496.168	2,770,653.028	36.299881256	-107.671924321	
13,300.00	89.72	314.999	5,571.21	4,580.36	-5,844.37	1,928,566.877	2,770,582.317	36.300075820	-107.672163892	
13,400.00	89.72	314.999	5,571.69	4,651.07	-5,915.08	1,928,637.585	2,770,511.606	36.300270382	-107.672403465	
13,500.00	89.72	314.999	5,572.18	4,721.78	-5,985.79	1,928,708.294	2,770,440.895	36.300464944	-107.672643038	
13,600.00	89.72	314.999	5,572.66	4,792.49	-6,056.50	1,928,779.002	2,770,370.184	36.300659506	-107.672882613	
13,700.00	89.72	314.999	5,573.15	4,863.20	-6,127.21	1,928,849.711	2,770,299.474	36.300854067	-107.673122189	
13,800.00	89.72	314.999	5,573.63	4,933.90	-6,197.92	1,928,920.419	2,770,228.763	36.301048628	-107.673361766	
13,900.00	89.72	314.999	5,574.12	5,004.61	-6,268.63	1,928,991.128	2,770,158.052	36.301243188	-107.673601345	
14,000.00	89.72	314.999	5,574.60	5,075.32	-6,339.34	1,929,061.836	2,770,087.341	36.301437748	-107.673840925	
14,100.00	89.72	314.999	5,575.09	5,146.03	-6,410.06	1,929,132.545	2,770,016.630	36.301632307	-107.674080505	
14,200.00	89.72	314.999	5,575.57	5,216.74	-6,480.77	1,929,203.253	2,769,945.919	36.301826866	-107.674320087	
14,300.00	89.72	314.999	5,576.06	5,287.45	-6,551.48	1,929,273.961	2,769,875.208	36.302021424	-107.674559671	
14,400.00	89.72	314.999	5,576.54	5,358.16	-6,622.19	1,929,344.670	2,769,804.497	36.302215982	-107.674799255	
14,500.00	89.72	314.999	5,577.03	5,428.86	-6,692.90	1,929,415.378	2,769,733.786	36.302410540	-107.675038841	





## Planning Report - Geographic

<b>Database:</b>	DB_Decv0422v16	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Company:</b>	Enduring Resources LLC	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	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
14,600.00	89.72	314.999	5,577.51	5,499.57	-6,763.61	1,929,486.087	2,769,663.075	36.302605097	-107.675278427
14,700.00	89.72	314.999	5,578.00	5,570.28	-6,834.32	1,929,556.795	2,769,592.364	36.302799653	-107.675518015
14,800.00	89.72	314.999	5,578.48	5,640.99	-6,905.03	1,929,627.504	2,769,521.653	36.302994209	-107.675757604
14,900.00	89.72	314.999	5,578.97	5,711.70	-6,975.74	1,929,698.212	2,769,450.942	36.303188764	-107.675997195
15,000.00	89.72	314.999	5,579.45	5,782.41	-7,046.46	1,929,768.921	2,769,380.231	36.303383319	-107.676236786
15,100.00	89.72	314.999	5,579.94	5,853.12	-7,117.17	1,929,839.629	2,769,309.520	36.303577874	-107.676476379
15,200.00	89.72	314.999	5,580.42	5,923.82	-7,187.88	1,929,910.338	2,769,238.809	36.303772428	-107.676715973
15,300.00	89.72	314.999	5,580.91	5,994.53	-7,258.59	1,929,981.046	2,769,168.098	36.303966981	-107.676955568
15,400.00	89.72	314.999	5,581.39	6,065.24	-7,329.30	1,930,051.755	2,769,097.388	36.304161534	-107.677195164
15,500.00	89.72	314.999	5,581.88	6,135.95	-7,400.01	1,930,122.463	2,769,026.677	36.304356086	-107.677434762
15,525.14	89.72	314.999	5,582.00	6,153.73	-7,417.79	1,930,140.240	2,769,008.899	36.304405000	-107.677495000
PBHL/TD @ 15525.14 MD 5582.00 TVD									

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Ridge 136H FTP 2379 F	0.00	0.000	5,537.00	-552.82	-711.01	1,923,433.703	2,775,715.668	36.285950000	-107.654775000	
- hit/miss target										
- Shape										
- plan misses target center by 1.00ft at 6040.38ft MD (5536.00 TVD, -552.82 N, -711.01 E)										
- Point										
Ridge 136H LTP 955 FN	0.00	0.000	5,582.00	6,153.73	-7,417.79	1,930,140.240	2,769,008.899	36.304405000	-107.677495000	
- 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
3,674.05	3,567.00	9 5/8" Csg					9-5/8	12-1/4



## Planning Report - Geographic

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<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>North Reference:</b>	Grid
<b>Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Hole		
<b>Design:</b>	rev1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,234.59	1,234.00	Ojo Alamo				
1,359.11	1,357.00	Kirtland				
1,586.16	1,577.00	Fruitland				
1,921.90	1,897.00	Pictured Cliffs				
2,026.82	1,997.00	Lewis				
2,357.31	2,312.00	Chacra				
3,511.43	3,412.00	Cliff House				
3,516.67	3,417.00	Menefee				
4,392.75	4,252.00	Point Lookout				
4,625.01	4,477.00	Mancos				
4,997.10	4,847.00	MNCS_A				
5,082.10	4,932.00	MNCS_B				
5,202.98	5,052.00	MNCS_C				
5,281.01	5,127.00	MNCS_Cms				
5,368.79	5,207.00	MNCS_D				
5,458.35	5,282.00	MNCS_E				
5,538.57	5,342.00	MNCS_F				
5,688.66	5,432.00	MNCS_G				
5,769.74	5,472.00	MNCS_H				
5,916.20	5,522.00	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	
1,587.15	1,577.94	-86.38	-23.59	Begin 17.61° tangent	
4,396.01	4,255.11	-906.35	-247.49	Begin 3°/100' drop	
4,983.15	4,833.05	-992.73	-271.08	Begin vertical hold	
5,083.15	4,933.05	-992.73	-271.08	Begin 10°/100' build	
5,683.15	5,429.25	-790.16	-473.65	Begin 60.00° tangent	
5,743.15	5,459.25	-753.42	-510.40	Begin 10°/100' build	
6,040.38	5,536.00	-552.82	-711.01	Begin 89.72° lateral	
15,525.14	5,582.00	6,153.73	-7,417.79	PBHL/TD @ 15525.14 MD 5582.00 TVD	



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	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 1,752.51ft	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	15,525.14	rev1 (Original Hole)	MWD	OWSG MWD - Standard	

Summary						
	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
NW Lybrook (138, 139, 140 & 141)						
Lybrook 2408 138H - Original Hole - rev0	5,452.89	9,505.68	537.33	433.07	5.153	CC
Lybrook 2408 138H - Original Hole - rev0	5,500.00	9,526.62	540.49	431.83	4.974	ES
Lybrook 2408 138H - Original Hole - rev0	5,600.00	9,577.69	566.40	450.66	4.894	SF
Ridge Unit (130, 135, 136 & 137)						
Ridge Unit No. 130H - Original Hole - rev1	500.00	500.00	40.06	36.92	12.770	CC, ES
Ridge Unit No. 130H - Original Hole - rev1	700.00	696.26	48.14	43.61	10.629	SF
Ridge Unit No. 135H - Original Hole - rev1	1,000.00	1,000.00	19.97	13.25	2.971	CC, ES
Ridge Unit No. 135H - Original Hole - rev1	15,400.00	16,744.89	1,157.25	684.98	2.450	SF
Ridge Unit No. 137H - Original Hole - rev1	800.00	800.00	20.09	14.80	3.800	CC, ES
Ridge Unit No. 137H - Original Hole - rev1	14,400.00	13,499.34	1,159.03	767.98	2.964	SF

Offset Design:	NW Lybrook (138, 139, 140 & 141) - Lybrook 2408 138H - Original Hole - rev0												Offset Site Error:	0.00 ft	
	Survey Program:		0-MWD		Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
4,100.00	3,972.98	9,382.50	5,545.31	19.89	95.34	-70.53	-1,385.71	-230.23	1,656.93	1,602.28	54.65	30.321			
4,200.00	4,068.29	9,390.08	5,545.28	20.49	95.53	-68.86	-1,385.72	-237.81	1,557.36	1,502.36	55.00	28.317			
4,300.00	4,163.60	9,397.66	5,545.24	21.10	95.71	-67.04	-1,385.72	-245.39	1,457.80	1,402.43	55.37	26.328			
4,400.00	4,258.91	9,405.24	5,545.21	21.70	95.89	-63.96	-1,385.72	-252.97	1,358.27	1,302.51	55.77	24.355			
4,500.00	4,355.03	9,412.11	5,545.18	22.28	96.06	-41.58	-1,385.73	-259.83	1,258.96	1,202.64	56.32	22.353			
4,600.00	4,452.46	9,417.63	5,545.16	22.80	96.20	-29.49	-1,385.73	-265.35	1,160.31	1,103.12	57.19	20.289			
4,700.00	4,550.93	9,421.79	5,545.14	23.25	96.30	-22.74	-1,385.73	-269.52	1,062.83	1,004.37	58.46	18.179			
4,800.00	4,650.18	9,424.58	5,545.13	23.65	96.36	-18.71	-1,385.73	-272.31	967.22	906.91	60.30	16.040			
4,900.00	4,749.92	9,426.00	5,545.12	23.98	96.40	-16.21	-1,385.73	-273.72	874.39	811.49	62.90	13.902			
5,000.00	4,849.90	9,426.05	5,545.12	24.24	96.40	-179.61	-1,385.73	-273.78	785.60	719.07	66.53	11.809			
5,100.00	4,949.89	9,425.81	5,545.12	24.47	96.39	-136.37	-1,385.73	-273.53	700.90	629.58	71.32	9.827			
5,200.00	5,049.09	9,433.60	5,545.09	24.66	96.58	-142.68	-1,385.74	-281.33	626.49	548.24	78.25	8.007			
5,300.00	5,144.76	9,453.46	5,545.01	24.77	97.07	-144.44	-1,385.75	-301.19	571.17	483.40	87.77	6.507			
5,400.00	5,233.99	9,484.79	5,544.88	24.81	97.83	-143.07	-1,385.76	-332.51	541.42	442.69	98.72	5.484			
5,452.89	5,277.65	9,505.68	5,544.79	24.80	98.34	-141.28	-1,385.77	-353.40	537.33	433.07	104.27	5.153 CC			
5,500.00	5,314.08	9,526.62	5,544.70	24.79	98.85	-139.07	-1,385.78	-374.35	540.49	431.83	108.66	4.974 ES			
5,600.00	5,382.60	9,577.69	5,544.48	24.71	100.09	-132.52	-1,385.80	-425.42	566.40	450.66	115.74	4.894 SF			

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> NW Lybrook (138, 139, 140 & 141) - Lybrook 2408 138H - Original Hole - rev0													<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b>	0.00 ft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>		<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>				
5,700.00	5,437.67	9,636.36	5,544.23	24.59	101.53	-124.40	-1,385.83	-484.09	612.86	492.72	120.14	5.101		
5,800.00	5,485.18	9,698.31	5,543.97	24.47	103.04	-116.40	-1,385.86	-546.03	669.62	546.56	123.06	5.441		
5,900.00	5,518.22	9,764.79	5,543.69	24.35	104.67	-104.95	-1,385.89	-612.51	734.93	609.50	125.43	5.859		
6,000.00	5,534.38	9,834.38	5,543.40	24.22	106.37	-93.71	-1,385.92	-682.10	804.60	676.77	127.83	6.295		
6,100.00	5,536.29	9,905.02	5,543.10	24.14	108.10	-89.52	-1,385.95	-752.74	875.33	744.95	130.38	6.714		
6,200.00	5,536.78	9,975.70	5,542.80	24.50	109.84	-89.51	-1,385.98	-823.42	946.07	813.05	133.02	7.112		
6,300.00	5,537.26	10,046.37	5,542.50	25.65	111.58	-89.50	-1,386.01	-894.09	1,016.82	881.08	135.74	7.491		
6,400.00	5,537.75	10,117.05	5,542.20	27.03	113.32	-89.49	-1,386.04	-964.77	1,087.56	949.05	138.51	7.852		
6,500.00	5,538.23	10,187.73	5,541.90	28.53	115.06	-89.49	-1,386.08	-1,035.45	1,158.31	1,016.96	141.34	8.195		
6,600.00	5,538.72	10,258.40	5,541.60	30.13	116.80	-89.48	-1,386.11	-1,106.12	1,229.05	1,084.82	144.23	8.522		
6,700.00	5,539.20	10,329.08	5,541.31	31.80	118.55	-89.47	-1,386.14	-1,176.80	1,299.80	1,152.64	147.16	8.833		
6,800.00	5,539.69	10,399.76	5,541.01	33.55	120.29	-89.47	-1,386.17	-1,247.47	1,370.54	1,220.41	150.13	9.129		
6,900.00	5,540.17	10,470.43	5,540.71	35.36	122.04	-89.46	-1,386.20	-1,318.15	1,441.29	1,288.15	153.13	9.412		
7,000.00	5,540.66	10,541.11	5,540.41	37.21	123.79	-89.46	-1,386.23	-1,388.83	1,512.03	1,355.86	156.17	9.682		
7,100.00	5,541.14	10,611.79	5,540.11	39.12	125.54	-89.46	-1,386.27	-1,459.50	1,582.77	1,423.54	159.23	9.940		
7,200.00	5,541.63	10,682.46	5,539.81	41.06	127.29	-89.45	-1,386.30	-1,530.18	1,653.52	1,491.20	162.32	10.187		
7,300.00	5,542.11	10,753.14	5,539.51	43.03	129.05	-89.45	-1,386.33	-1,600.85	1,724.26	1,558.83	165.43	10.423		

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 130H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program:		0-MWD						Rule Assigned:					Offset Well Error:	0.00 ft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Distance		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)		Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	70.24	13.54	37.70	40.06					
100.00	100.00	100.00	100.00	0.13	0.13	70.24	13.54	37.70	40.06	39.79	0.27	148.986		
200.00	200.00	200.00	200.00	0.49	0.49	70.24	13.54	37.70	40.06	39.07	0.99	40.633		
300.00	300.00	300.00	300.00	0.85	0.85	70.24	13.54	37.70	40.06	38.35	1.70	23.524		
400.00	400.00	400.00	400.00	1.21	1.21	70.24	13.54	37.70	40.06	37.64	2.42	16.554		
500.00	500.00	500.00	500.00	1.57	1.57	70.24	13.54	37.70	40.06	36.92	3.14	12.770	CC, ES	
600.00	600.00	598.39	598.35	1.93	1.91	72.58	12.56	40.03	41.99	38.15	3.84	10.943		
700.00	700.00	696.26	695.92	2.29	2.25	78.41	9.64	46.99	48.14	43.61	4.53	10.629	SF	
800.00	800.00	793.11	791.96	2.64	2.61	85.26	4.84	58.39	59.14	53.93	5.21	11.342		
900.00	900.00	888.47	885.79	3.00	2.99	91.33	-1.71	73.99	75.37	69.48	5.89	12.804		
1,000.00	1,000.00	981.90	976.80	3.36	3.40	96.04	-9.89	93.45	96.79	90.25	6.54	14.804		
1,100.00	1,099.95	1,073.09	1,064.53	3.70	3.84	-96.11	-19.52	116.37	123.48	116.32	7.16	17.252		
1,200.00	1,199.63	1,161.67	1,148.51	4.03	4.33	-95.17	-30.42	142.31	155.15	147.39	7.76	19.998		
1,300.00	1,298.77	1,247.25	1,228.33	4.37	4.85	-95.28	-42.37	170.75	191.47	183.12	8.35	22.923		
1,400.00	1,397.08	1,329.51	1,303.67	4.74	5.42	-95.80	-55.16	201.18	232.30	223.33	8.97	25.884		
1,500.00	1,494.31	1,408.22	1,374.37	5.13	6.00	-96.40	-68.56	233.06	277.52	267.90	9.62	28.843		
1,600.00	1,590.19	1,483.23	1,440.37	5.57	6.63	-97.12	-82.36	265.92	326.98	316.67	10.31	31.719		
1,700.00	1,685.50	1,555.03	1,502.18	6.04	7.29	-98.84	-96.51	299.58	380.08	369.07	11.01	34.510		
1,800.00	1,780.82	1,623.92	1,560.16	6.53	7.96	-99.98	-110.92	333.88	436.24	424.52	11.72	37.233		
1,900.00	1,876.13	1,689.92	1,614.41	7.05	8.64	-100.72	-125.48	368.52	495.13	482.71	12.41	39.891		
2,000.00	1,971.44	1,753.04	1,665.06	7.58	9.36	-101.18	-140.08	403.25	556.51	543.41	13.10	42.479		
2,100.00	2,066.75	1,813.36	1,712.27	8.12	10.06	-101.45	-154.62	437.87	620.19	606.42	13.77	45.048		
2,200.00	2,162.06	1,881.56	1,764.50	8.67	10.91	-101.61	-171.60	478.28	685.66	671.07	14.59	46.996		
2,300.00	2,257.37	1,956.97	1,822.15	9.23	11.87	-101.76	-190.44	523.11	751.31	735.77	15.55	48.320		
2,400.00	2,352.68	2,032.39	1,879.81	9.80	12.84	-101.88	-209.27	567.93	816.97	800.45	16.52	49.448		
2,500.00	2,448.00	2,107.80	1,937.46	10.37	13.82	-101.99	-228.11	612.75	882.63	865.13	17.51	50.415		
2,600.00	2,543.31	2,183.22	1,995.11	10.95	14.81	-102.08	-246.94	657.57	948.29	929.79	18.50	51.247		
2,700.00	2,638.62	2,258.63	2,052.76	11.53	15.81	-102.15	-265.78	702.39	1,013.96	994.45	19.51	51.969		
2,800.00	2,733.93	2,334.05	2,110.41	12.11	16.81	-102.22	-284.61	747.21	1,079.62	1,059.10	20.52	52.602		
2,900.00	2,829.24	2,409.46	2,168.06	12.70	17.82	-102.28	-303.45	792.03	1,145.29	1,123.74	21.54	53.158		
3,000.00	2,924.55	2,484.87	2,225.71	13.29	18.83	-102.34	-322.28	836.85	1,210.95	1,188.38	22.57	53.650		
3,100.00	3,019.86	2,560.29	2,283.36	13.88	19.84	-102.39	-341.12	881.68	1,276.62	1,253.01	23.60	54.086		
3,200.00	3,115.18	2,635.70	2,341.02	14.48	20.85	-102.43	-359.95	926.50	1,342.28	1,317.64	24.64	54.477		
3,300.00	3,210.49	2,711.12	2,398.67	15.07	21.87	-102.47	-378.79	971.32	1,407.95	1,382.27	25.68	54.828		
3,400.00	3,305.80	2,786.53	2,456.32	15.67	22.89	-102.51	-397.62	1,016.14	1,473.62	1,446.89	26.72	55.143		
3,500.00	3,401.11	2,861.95	2,513.97	16.27	23.91	-102.54	-416.46	1,060.96	1,539.28	1,511.51	27.77	55.428		
3,600.00	3,496.42	2,937.36	2,571.62	16.87	24.93	-102.57	-435.29	1,105.78	1,604.95	1,576.13	28.82	55.687		
3,700.00	3,591.73	3,012.78	2,629.27	17.47	25.96	-102.60	-454.13	1,150.60	1,670.62	1,640.75	29.87	55.924		
3,800.00	3,687.04	3,088.19	2,686.92	18.07	26.98	-102.62	-472.96	1,195.43	1,736.29	1,705.36	30.93	56.140		

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 135H - Original Hole - rev1													<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b>	0.00 ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>	<b>Highside</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>				
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Toolface (°)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Separation (ft)</b>	<b>Factor</b>		
0.00	0.00	0.00	0.00	0.00	0.00	70.74	6.59	18.85	19.97					
100.00	100.00	100.00	100.00	0.13	0.13	70.74	6.59	18.85	19.97	19.70	0.27	74.268		
200.00	200.00	200.00	200.00	0.49	0.49	70.74	6.59	18.85	19.97	18.98	0.99	20.255		
300.00	300.00	300.00	300.00	0.85	0.85	70.74	6.59	18.85	19.97	18.26	1.70	11.727		
400.00	400.00	400.00	400.00	1.21	1.21	70.74	6.59	18.85	19.97	17.55	2.42	8.252		
500.00	500.00	500.00	500.00	1.57	1.57	70.74	6.59	18.85	19.97	16.83	3.14	6.366		
600.00	600.00	600.00	600.00	1.93	1.93	70.74	6.59	18.85	19.97	16.11	3.85	5.182		
700.00	700.00	700.00	700.00	2.29	2.29	70.74	6.59	18.85	19.97	15.40	4.57	4.369		
800.00	800.00	800.00	800.00	2.64	2.64	70.74	6.59	18.85	19.97	14.68	5.29	3.776		
900.00	900.00	900.00	900.00	3.00	3.00	70.74	6.59	18.85	19.97	13.96	6.00	3.325		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	70.74	6.59	18.85	19.97	13.25	6.72	2.971	CC, ES	
1,100.00	1,099.95	1,099.36	1,099.31	3.70	3.70	-124.38	4.99	20.88	22.85	15.45	7.40	3.088		
1,200.00	1,199.63	1,198.22	1,197.86	4.03	4.04	-124.05	0.25	26.94	31.49	23.44	8.06	3.909		
1,300.00	1,298.77	1,296.11	1,294.93	4.37	4.38	-123.68	-7.54	36.88	45.82	37.10	8.73	5.252		
1,400.00	1,397.08	1,392.58	1,389.82	4.74	4.74	-123.30	-18.21	50.50	65.73	56.32	9.41	6.984		
1,500.00	1,494.31	1,487.22	1,481.96	5.13	5.12	-122.88	-31.53	67.51	91.07	80.95	10.13	8.993		
1,600.00	1,590.19	1,579.68	1,570.82	5.57	5.53	-122.49	-47.25	87.57	121.65	110.77	10.88	11.179		
1,700.00	1,685.50	1,670.17	1,656.51	6.04	5.97	-121.87	-65.18	110.46	155.68	144.01	11.66	13.349		
1,800.00	1,780.82	1,758.72	1,738.92	6.53	6.46	-120.35	-85.14	135.93	192.15	179.68	12.46	15.417		
1,900.00	1,876.13	1,845.02	1,817.71	7.05	6.99	-118.45	-106.83	163.62	231.18	217.90	13.28	17.411		
2,000.00	1,971.44	1,933.03	1,896.68	7.58	7.58	-116.44	-130.80	194.22	272.47	258.30	14.17	19.228		
2,100.00	2,066.75	2,023.60	1,977.79	8.12	8.22	-114.85	-155.66	225.95	314.21	299.06	15.15	20.741		
2,200.00	2,162.06	2,114.17	2,058.90	8.67	8.90	-113.64	-180.51	257.68	356.10	339.95	16.16	22.042		
2,300.00	2,257.37	2,204.75	2,140.01	9.23	9.59	-112.68	-205.37	289.41	398.10	380.91	17.19	23.165		
2,400.00	2,352.68	2,295.32	2,221.11	9.80	10.30	-111.90	-230.23	321.14	440.17	421.94	18.23	24.139		
2,500.00	2,448.00	2,385.89	2,302.22	10.37	11.02	-111.26	-255.09	352.87	482.30	463.00	19.30	24.990		
2,600.00	2,543.31	2,476.46	2,383.33	10.95	11.75	-110.72	-279.94	384.60	524.47	504.09	20.38	25.738		
2,700.00	2,638.62	2,567.03	2,464.44	11.53	12.49	-110.26	-304.80	416.33	566.67	545.21	21.47	26.400		
2,800.00	2,733.93	2,657.61	2,545.55	12.11	13.24	-109.86	-329.66	448.06	608.90	586.34	22.56	26.987		
2,900.00	2,829.24	2,748.18	2,626.66	12.70	13.99	-109.52	-354.52	479.79	651.15	627.48	23.67	27.513		
3,000.00	2,924.55	2,838.75	2,707.77	13.29	14.75	-109.22	-379.37	511.52	693.41	668.63	24.78	27.985		
3,100.00	3,019.86	2,929.32	2,788.87	13.88	15.51	-108.95	-404.23	543.25	735.69	709.80	25.89	28.411		
3,200.00	3,115.18	3,019.89	2,869.98	14.48	16.28	-108.71	-429.09	574.98	777.98	750.97	27.02	28.796		
3,300.00	3,210.49	3,110.47	2,951.09	15.07	17.05	-108.50	-453.94	606.71	820.28	792.14	28.14	29.146		
3,400.00	3,305.80	3,201.04	3,032.20	15.67	17.82	-108.31	-478.80	638.44	862.59	833.32	29.27	29.466		
3,500.00	3,401.11	3,291.61	3,113.31	16.27	18.60	-108.13	-503.66	670.17	904.91	874.50	30.41	29.759		
3,600.00	3,496.42	3,382.18	3,194.42	16.87	19.37	-107.97	-528.52	701.90	947.23	915.69	31.55	30.027		
3,700.00	3,591.73	3,472.75	3,275.53	17.47	20.15	-107.83	-553.37	733.63	989.56	956.88	32.69	30.275		
3,800.00	3,687.04	3,563.33	3,356.63	18.07	20.93	-107.69	-578.23	765.36	1,031.90	998.07	33.83	30.504		
3,900.00	3,782.36	3,653.90	3,437.74	18.68	21.71	-107.57	-603.09	797.09	1,074.24	1,039.26	34.97	30.716		
4,000.00	3,877.67	3,744.47	3,518.85	19.28	22.50	-107.45	-627.95	828.82	1,116.58	1,080.46	36.12	30.913		
4,100.00	3,972.98	3,835.04	3,599.96	19.89	23.28	-107.35	-652.80	860.55	1,158.92	1,121.65	37.27	31.096		
4,200.00	4,068.29	3,925.61	3,681.07	20.49	24.07	-107.25	-677.66	892.28	1,201.27	1,162.85	38.42	31.267		
4,300.00	4,163.60	4,016.19	3,762.18	21.10	24.86	-107.16	-702.52	924.01	1,243.62	1,204.05	39.57	31.427		
4,400.00	4,258.91	4,106.76	3,843.29	21.70	25.64	-107.13	-727.38	955.74	1,285.97	1,245.25	40.73	31.576		
4,500.00	4,355.03	4,197.59	3,924.62	22.28	26.44	-108.23	-752.30	987.56	1,327.56	1,285.72	41.84	31.729		
4,600.00	4,452.46	4,288.71	4,006.23	22.80	27.23	-109.05	-777.31	1,019.48	1,367.69	1,324.81	42.88	31.897		
4,700.00	4,550.93	4,379.89	4,087.88	23.25	28.02	-109.63	-802.34	1,051.43	1,406.35	1,362.52	43.84	32.082		
4,800.00	4,650.18	4,470.86	4,169.35	23.65	28.82	-109.98	-827.31	1,083.30	1,443.58	1,398.87	44.71	32.289		
4,900.00	4,749.92	4,561.94	4,250.82	23.98	29.62	-110.83	-852.31	1,115.23	1,480.81	1,435.88	45.56	32.506		
5,000.00	4,849.90	4,653.23	4,332.30	24.24	29.61	45.22	-178.17	549.72	1,348.38	1,295.30	53.08	25.401		
5,100.00	4,949.89	4,745.12	4,413.81	24.47	29.62	91.05	-177.55	549.10	1,299.79	1,244.94	54.85	23.697		

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 135H - Original Hole - rev1												<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.00 ft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>		<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>			
5,200.00	5,049.09	6,807.38	5,543.46	24.66	39.75	95.10	-168.88	540.43	1,257.62	1,201.03	56.59	22.222	
5,300.00	5,144.76	6,836.66	5,543.65	24.77	40.08	97.38	-148.17	519.72	1,223.24	1,164.98	58.26	20.996	
5,400.00	5,233.99	6,882.08	5,543.94	24.81	40.59	98.10	-116.06	487.60	1,197.19	1,137.40	59.79	20.022	
5,500.00	5,314.08	6,942.26	5,544.32	24.79	41.30	97.60	-73.51	445.05	1,179.07	1,117.86	61.21	19.261	
5,600.00	5,382.60	7,015.36	5,544.79	24.71	42.20	96.31	-21.82	393.36	1,167.69	1,105.11	62.58	18.658	
5,700.00	5,437.67	7,099.05	5,545.33	24.59	43.29	94.63	37.36	334.19	1,161.38	1,097.35	64.03	18.139	
5,800.00	5,485.18	7,187.28	5,545.89	24.47	44.51	92.75	99.75	271.80	1,157.97	1,092.35	65.62	17.646	
5,900.00	5,518.22	7,281.74	5,546.50	24.35	45.88	91.36	166.54	205.00	1,156.72	1,089.26	67.46	17.146	
6,000.00	5,534.38	7,380.40	5,547.13	24.22	47.37	90.63	236.30	135.24	1,156.45	1,086.84	69.60	16.615	
6,096.16	5,538.37	7,476.48	5,547.74	24.14	48.88	90.46	304.24	67.30	1,156.42	1,084.49	71.92	16.078	
6,100.00	5,536.29	7,480.37	5,547.77	24.14	48.94	90.57	306.98	64.55	1,156.43	1,084.41	72.02	16.057	
6,200.00	5,536.78	7,580.37	5,548.40	24.50	50.57	90.58	377.69	-6.16	1,156.44	1,081.75	74.68	15.485	
6,300.00	5,537.26	7,680.37	5,549.04	25.65	52.25	90.58	448.40	-76.87	1,156.44	1,078.87	77.56	14.910	
6,400.00	5,537.75	7,780.37	5,549.68	27.03	53.97	90.59	519.11	-147.58	1,156.44	1,075.81	80.63	14.342	
6,500.00	5,538.23	7,880.37	5,550.32	28.53	55.74	90.60	589.82	-218.29	1,156.44	1,072.58	83.86	13.790	
6,600.00	5,538.72	7,980.37	5,550.96	30.13	57.54	90.61	660.52	-289.00	1,156.44	1,069.21	87.24	13.256	
6,700.00	5,539.20	8,080.37	5,551.60	31.80	59.38	90.61	731.23	-359.71	1,156.45	1,065.71	90.74	12.745	
6,800.00	5,539.69	8,180.37	5,552.24	33.55	61.24	90.62	801.94	-430.42	1,156.45	1,062.11	94.34	12.258	
6,900.00	5,540.17	8,280.37	5,552.88	35.36	63.14	90.63	872.65	-501.13	1,156.45	1,058.41	98.04	11.796	
7,000.00	5,540.66	8,380.37	5,553.52	37.21	65.06	90.64	943.36	-571.84	1,156.45	1,054.64	101.82	11.358	
7,100.00	5,541.14	8,480.37	5,554.16	39.12	67.01	90.65	1,014.06	-642.55	1,156.45	1,050.79	105.66	10.945	
7,200.00	5,541.63	8,580.37	5,554.80	41.06	68.97	90.65	1,084.77	-713.26	1,156.46	1,046.88	109.57	10.554	
7,300.00	5,542.11	8,680.37	5,555.44	43.03	70.96	90.66	1,155.48	-783.97	1,156.46	1,042.92	113.54	10.185	
7,400.00	5,542.60	8,780.37	5,556.08	45.03	72.97	90.67	1,226.19	-854.68	1,156.46	1,038.91	117.55	9.838	
7,500.00	5,543.08	8,880.37	5,556.72	47.06	74.99	90.68	1,296.90	-925.39	1,156.46	1,034.85	121.61	9.510	
7,600.00	5,543.57	8,980.37	5,557.36	49.11	77.03	90.68	1,367.61	-996.10	1,156.47	1,030.76	125.71	9.200	
7,700.00	5,544.05	9,080.37	5,558.00	51.18	79.08	90.69	1,438.31	-1,066.81	1,156.47	1,026.63	129.83	8.907	
7,800.00	5,544.53	9,180.37	5,558.63	53.27	81.14	90.70	1,509.02	-1,137.52	1,156.47	1,022.48	133.99	8.631	
7,900.00	5,545.02	9,280.37	5,559.27	55.37	83.22	90.71	1,579.73	-1,208.23	1,156.47	1,018.29	138.18	8.369	
8,000.00	5,545.50	9,380.37	5,559.91	57.49	85.30	90.71	1,650.44	-1,278.94	1,156.48	1,014.08	142.40	8.122	
8,100.00	5,545.99	9,480.37	5,560.55	59.62	87.40	90.72	1,721.15	-1,349.65	1,156.48	1,009.85	146.63	7.887	
8,200.00	5,546.47	9,580.37	5,561.19	61.77	89.51	90.73	1,791.86	-1,420.36	1,156.48	1,005.59	150.89	7.664	
8,300.00	5,546.96	9,680.37	5,561.83	63.92	91.63	90.74	1,862.56	-1,491.07	1,156.48	1,001.32	155.17	7.453	
8,400.00	5,547.44	9,780.37	5,562.47	66.08	93.75	90.74	1,933.27	-1,561.78	1,156.49	997.03	159.46	7.253	
8,500.00	5,547.93	9,880.37	5,563.11	68.25	95.88	90.75	2,003.98	-1,632.49	1,156.49	992.72	163.77	7.062	
8,600.00	5,548.41	9,980.37	5,563.75	70.43	98.02	90.76	2,074.69	-1,703.20	1,156.49	988.40	168.09	6.880	
8,700.00	5,548.90	10,080.37	5,564.39	72.61	100.17	90.77	2,145.40	-1,773.91	1,156.49	984.06	172.43	6.707	
8,800.00	5,549.38	10,180.37	5,565.03	74.81	102.32	90.78	2,216.10	-1,844.62	1,156.49	979.71	176.78	6.542	
8,900.00	5,549.87	10,280.37	5,565.67	77.00	104.48	90.78	2,286.81	-1,915.33	1,156.50	975.35	181.14	6.384	
9,000.00	5,550.35	10,380.37	5,566.31	79.21	106.65	90.79	2,357.52	-1,986.04	1,156.50	970.98	185.52	6.234	
9,100.00	5,550.84	10,480.37	5,566.95	81.41	108.82	90.80	2,428.23	-2,056.75	1,156.50	966.60	189.90	6.090	
9,200.00	5,551.32	10,580.37	5,567.59	83.63	110.99	90.81	2,498.94	-2,127.46	1,156.51	962.21	194.29	5.952	
9,300.00	5,551.81	10,680.37	5,568.23	85.84	113.18	90.81	2,569.65	-2,198.17	1,156.51	957.81	198.70	5.820	
9,400.00	5,552.29	10,780.37	5,568.87	88.06	115.36	90.82	2,640.35	-2,268.88	1,156.51	953.41	203.11	5.694	
9,500.00	5,552.78	10,880.37	5,569.50	90.29	117.55	90.83	2,711.06	-2,339.59	1,156.51	948.99	207.52	5.573	
9,600.00	5,553.26	10,980.37	5,570.14	92.51	119.74	90.84	2,781.77	-2,410.30	1,156.52	944.57	211.95	5.457	
9,700.00	5,553.75	11,080.37	5,570.78	94.74	121.94	90.84	2,852.48	-2,481.01	1,156.52	940.14	216.38	5.345	
9,800.00	5,554.23	11,180.37	5,571.42	96.98	124.14	90.85	2,923.19	-2,551.72	1,156.52	935.71	220.82	5.237	
9,900.00	5,554.72	11,280.37	5,572.06	99.21	126.34	90.86	2,993.90	-2,622.43	1,156.52	931.26	225.26	5.134	
10,000.00	5,555.20	11,380.37	5,572.70	101.45	128.55	90.87	3,064.60	-2,693.14	1,156.53	926.82	229.71	5.035	
10,100.00	5,555.69	11,480.37	5,573.34	103.69	130.76	90.87	3,135.31	-2,763.85	1,156.53	922.37	234.16	4.939	
10,200.00	5,556.17	11,580.37	5,573.98	105.94	132.97	90.88	3,206.02	-2,834.56	1,156.53	917.91	238.62	4.847	

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





## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 135H - Original Hole - rev1													<b>Offset Site Error:</b> 0.00 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b> 0.00 ft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>	<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	
10,300.00	5,556.66	11,680.37	5,574.62	108.18	135.19	90.89	3,276.73	-2,905.27	1,156.54	913.45	243.09	4.758	
10,400.00	5,557.14	11,780.36	5,575.26	110.43	137.40	90.90	3,347.44	-2,975.98	1,156.54	908.98	247.55	4.672	
10,500.00	5,557.63	11,880.36	5,575.90	112.68	139.62	90.91	3,418.14	-3,046.69	1,156.54	904.51	252.03	4.589	
10,600.00	5,558.11	11,980.36	5,576.54	114.93	141.85	90.91	3,488.85	-3,117.40	1,156.54	900.04	256.50	4.509	
10,700.00	5,558.60	12,080.36	5,577.18	117.18	144.07	90.92	3,559.56	-3,188.11	1,156.55	895.56	260.98	4.431	
10,800.00	5,559.08	12,180.36	5,577.82	119.44	146.30	90.93	3,630.27	-3,258.82	1,156.55	891.08	265.47	4.357	
10,900.00	5,559.57	12,280.36	5,578.46	121.69	148.53	90.94	3,700.98	-3,329.53	1,156.55	886.60	269.95	4.284	
11,000.00	5,560.05	12,380.36	5,579.10	123.95	150.76	90.94	3,771.69	-3,400.24	1,156.56	882.11	274.45	4.214	
11,100.00	5,560.54	12,480.36	5,579.74	126.21	152.99	90.95	3,842.39	-3,470.95	1,156.56	877.62	278.94	4.146	
11,200.00	5,561.02	12,580.36	5,580.37	128.47	155.23	90.96	3,913.10	-3,541.66	1,156.56	873.13	283.44	4.081	
11,300.00	5,561.51	12,680.36	5,581.01	130.73	157.46	90.97	3,983.81	-3,612.37	1,156.56	868.63	287.93	4.017	
11,400.00	5,561.99	12,780.36	5,581.65	132.99	159.70	90.97	4,054.52	-3,683.08	1,156.57	864.13	292.44	3.955	
11,500.00	5,562.48	12,880.36	5,582.29	135.26	161.94	90.98	4,125.23	-3,753.79	1,156.57	859.63	296.94	3.895	
11,600.00	5,562.96	12,980.36	5,582.93	137.52	164.18	90.99	4,195.93	-3,824.50	1,156.57	855.13	301.45	3.837	
11,700.00	5,563.45	13,080.36	5,583.57	139.79	166.43	91.00	4,266.64	-3,895.21	1,156.58	850.62	305.96	3.780	
11,800.00	5,563.93	13,180.36	5,584.21	142.05	168.67	91.00	4,337.35	-3,965.92	1,156.58	846.11	310.47	3.725	
11,900.00	5,564.42	13,280.36	5,584.85	144.32	170.92	91.01	4,408.06	-4,036.63	1,156.58	841.60	314.98	3.672	
12,000.00	5,564.90	13,380.36	5,585.49	146.59	173.16	91.02	4,478.77	-4,107.34	1,156.59	837.09	319.50	3.620	
12,100.00	5,565.39	13,480.36	5,586.13	148.86	175.41	91.03	4,549.48	-4,178.05	1,156.59	832.58	324.01	3.570	
12,200.00	5,565.87	13,580.36	5,586.77	151.13	177.66	91.04	4,620.18	-4,248.76	1,156.59	828.06	328.53	3.520	
12,300.00	5,566.36	13,680.36	5,587.41	153.40	179.91	91.04	4,690.89	-4,319.47	1,156.60	823.54	333.05	3.473	
12,400.00	5,566.84	13,780.36	5,588.05	155.67	182.16	91.05	4,761.60	-4,390.18	1,156.60	819.02	337.58	3.426	
12,500.00	5,567.33	13,880.36	5,588.69	157.94	184.42	91.06	4,832.31	-4,460.89	1,156.60	814.50	342.10	3.381	
12,600.00	5,567.81	13,980.36	5,589.33	160.21	186.67	91.07	4,903.02	-4,531.60	1,156.61	809.98	346.63	3.337	
12,700.00	5,568.30	14,080.36	5,589.97	162.48	188.92	91.07	4,973.73	-4,602.31	1,156.61	805.45	351.15	3.294	
12,800.00	5,568.78	14,180.36	5,590.61	164.76	191.18	91.08	5,044.43	-4,673.02	1,156.61	800.93	355.68	3.252	
12,900.00	5,569.27	14,280.36	5,591.24	167.03	193.44	91.09	5,115.14	-4,743.73	1,156.62	796.40	360.21	3.211	
13,000.00	5,569.75	14,380.36	5,591.88	169.31	195.69	91.10	5,185.85	-4,814.44	1,156.62	791.87	364.75	3.171	
13,100.00	5,570.24	14,480.36	5,592.52	171.58	197.95	91.10	5,256.56	-4,885.15	1,156.62	787.34	369.28	3.132	
13,200.00	5,570.72	14,580.36	5,593.16	173.86	200.21	91.11	5,327.27	-4,955.86	1,156.63	782.81	373.81	3.094	
13,300.00	5,571.21	14,680.36	5,593.80	176.13	202.47	91.12	5,397.97	-5,026.57	1,156.63	778.28	378.35	3.057	
13,400.00	5,571.69	14,780.36	5,594.44	178.41	204.73	91.13	5,468.68	-5,097.28	1,156.63	773.75	382.88	3.021	
13,500.00	5,572.18	14,880.36	5,595.08	180.69	206.99	91.13	5,539.39	-5,167.99	1,156.64	769.22	387.42	2.985	
13,600.00	5,572.66	14,980.36	5,595.72	182.97	209.26	91.14	5,610.10	-5,238.70	1,156.64	764.68	391.96	2.951	
13,700.00	5,573.15	15,080.36	5,596.36	185.24	211.52	91.15	5,680.81	-5,309.41	1,156.64	760.14	396.50	2.917	
13,800.00	5,573.63	15,180.36	5,597.00	187.52	213.78	91.16	5,751.52	-5,380.12	1,156.65	755.61	401.04	2.884	
13,900.00	5,574.12	15,280.36	5,597.64	189.80	216.05	91.17	5,822.22	-5,450.83	1,156.65	751.07	405.58	2.852	
14,000.00	5,574.60	15,380.36	5,598.28	192.08	218.31	91.17	5,892.93	-5,521.54	1,156.65	746.53	410.12	2.820	
14,100.00	5,575.09	15,480.36	5,598.92	194.36	220.58	91.18	5,963.64	-5,592.25	1,156.66	741.99	414.67	2.789	
14,200.00	5,575.57	15,580.36	5,599.56	196.64	222.84	91.19	6,034.35	-5,662.96	1,156.66	737.45	419.21	2.759	
14,300.00	5,576.06	15,680.36	5,600.20	198.92	225.11	91.20	6,105.06	-5,733.67	1,156.67	732.91	423.76	2.730	
14,400.00	5,576.54	15,780.36	5,600.84	201.20	227.38	91.20	6,175.77	-5,804.38	1,156.67	728.37	428.30	2.701	
14,500.00	5,577.03	15,880.36	5,601.48	203.48	229.64	91.21	6,246.47	-5,875.09	1,156.67	723.82	432.85	2.672	
14,600.00	5,577.51	15,980.36	5,602.11	205.76	231.91	91.22	6,317.18	-5,945.80	1,156.68	719.28	437.40	2.644	
14,700.00	5,578.00	16,080.36	5,602.75	208.04	234.18	91.23	6,387.89	-6,016.51	1,156.68	714.74	441.94	2.617	
14,800.00	5,578.48	16,180.36	5,603.39	210.33	236.45	91.23	6,458.60	-6,087.22	1,156.68	710.19	446.49	2.591	
14,900.00	5,578.97	16,280.36	5,604.03	212.61	238.72	91.24	6,529.31	-6,157.93	1,156.69	705.65	451.04	2.564	
15,000.00	5,579.45	16,380.36	5,604.67	214.89	240.99	91.25	6,600.01	-6,228.64	1,156.69	701.10	455.59	2.539	
15,100.00	5,579.94	16,480.36	5,605.31	217.17	243.26	91.26	6,670.72	-6,299.35	1,156.70	696.55	460.14	2.514	
15,200.00	5,580.42	16,580.36	5,605.95	219.46	245.53	91.26	6,741.43	-6,370.06	1,156.70	692.01	464.69	2.489	
15,300.00	5,580.91	16,680.36	5,606.59	221.74	247.80	91.27	6,812.14	-6,440.77	1,156.70	687.46	469.24	2.465	
15,302.66	5,580.92	16,683.02	5,606.61	221.80	247.86	91.27	6,814.02	-6,442.65	1,156.70	687.34	469.37	2.464	

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. 136H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6832+25 @ 6857.00ft
Reference Site:	Ridge Unit (130, 135, 136 & 137)	MD Reference:	RKB=6832+25 @ 6857.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 136H	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 (130, 135, 136 & 137) - Ridge Unit No. 135H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program:	0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor		
15,400.00	5,581.39	16,744.89	5,607.00	224.02	249.27	91.28	6,857.77	-6,486.40	1,157.25	684.98	472.27	2.450 SF		
15,500.00	5,581.88	16,744.89	5,607.00	226.31	249.27	91.28	6,857.77	-6,486.40	1,164.62	695.99	468.62	2.485		
15,525.14	5,582.00	16,744.89	5,607.00	226.88	249.27	91.28	6,857.77	-6,486.40	1,167.81	700.97	466.84	2.502		

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1												<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.00 ft
<b>Rule Assigned:</b>												<b>Warning</b>	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-110.25	-6.95	-18.85	20.09				
100.00	100.00	100.00	100.00	0.13	0.13	-110.25	-6.95	-18.85	20.09	19.82	0.27	74.723	
200.00	200.00	200.00	200.00	0.49	0.49	-110.25	-6.95	-18.85	20.09	19.10	0.99	20.379	
300.00	300.00	300.00	300.00	0.85	0.85	-110.25	-6.95	-18.85	20.09	18.39	1.70	11.798	
400.00	400.00	400.00	400.00	1.21	1.21	-110.25	-6.95	-18.85	20.09	17.67	2.42	8.303	
500.00	500.00	500.00	500.00	1.57	1.57	-110.25	-6.95	-18.85	20.09	16.95	3.14	6.405	
600.00	600.00	600.00	600.00	1.93	1.93	-110.25	-6.95	-18.85	20.09	16.24	3.85	5.213	
700.00	700.00	700.00	700.00	2.29	2.29	-110.25	-6.95	-18.85	20.09	15.52	4.57	4.396	
800.00	800.00	800.00	800.00	2.64	2.64	-110.25	-6.95	-18.85	20.09	14.80	5.29	3.800 CC, ES	
900.00	900.00	898.87	898.83	3.00	2.99	-110.82	-8.05	-21.16	22.67	16.69	5.98	3.788	
1,000.00	1,000.00	997.22	996.87	3.36	3.32	-111.96	-11.31	-28.04	30.40	23.74	6.66	4.566	
1,100.00	1,099.95	1,094.74	1,093.58	3.70	3.67	54.30	-16.67	-39.36	41.67	34.37	7.29	5.712	
1,200.00	1,199.63	1,191.32	1,188.59	4.03	4.04	58.84	-24.05	-54.95	55.15	47.24	7.90	6.977	
1,300.00	1,298.77	1,286.72	1,281.47	4.37	4.44	64.10	-33.36	-74.60	71.36	62.84	8.52	8.374	
1,400.00	1,397.08	1,380.74	1,371.83	4.74	4.87	69.10	-44.46	-98.03	90.72	81.55	9.17	9.893	
1,500.00	1,494.31	1,473.19	1,459.34	5.13	5.34	73.47	-57.21	-124.97	113.49	103.63	9.86	11.505	
1,600.00	1,590.19	1,563.92	1,543.71	5.57	5.87	77.22	-71.48	-155.09	139.76	129.12	10.64	13.140	
1,700.00	1,685.50	1,652.87	1,624.80	6.04	6.44	80.05	-87.12	-188.11	170.03	158.57	11.46	14.837	
1,800.00	1,780.82	1,744.16	1,706.52	6.53	7.08	81.50	-104.54	-224.88	203.54	191.16	12.39	16.433	
1,900.00	1,876.13	1,838.16	1,790.51	7.05	7.78	82.51	-122.61	-263.04	237.45	224.04	13.41	17.704	
2,000.00	1,971.44	1,932.17	1,874.49	7.58	8.51	83.27	-140.69	-301.21	271.41	256.94	14.47	18.756	
2,100.00	2,066.75	2,026.17	1,958.48	8.12	9.25	83.87	-158.76	-339.37	305.41	289.85	15.55	19.636	
2,200.00	2,162.06	2,120.17	2,042.46	8.67	10.01	84.34	-176.84	-377.53	339.42	322.77	16.66	20.378	
2,300.00	2,257.37	2,214.17	2,126.45	9.23	10.78	84.73	-194.91	-415.70	373.46	355.68	17.78	21.008	
2,400.00	2,352.68	2,308.18	2,210.43	9.80	11.56	85.05	-212.99	-453.86	407.50	388.59	18.91	21.548	
2,500.00	2,448.00	2,402.18	2,294.42	10.37	12.35	85.33	-231.07	-492.02	441.56	421.50	20.06	22.014	
2,600.00	2,543.31	2,496.18	2,378.40	10.95	13.14	85.56	-249.14	-530.18	475.62	454.41	21.21	22.420	
2,700.00	2,638.62	2,590.19	2,462.39	11.53	13.94	85.76	-267.22	-568.35	509.69	487.31	22.38	22.776	
2,800.00	2,733.93	2,684.19	2,546.37	12.11	14.74	85.94	-285.29	-606.51	543.76	520.21	23.55	23.089	
2,900.00	2,829.24	2,778.19	2,630.36	12.70	15.54	86.10	-303.37	-644.67	577.84	553.11	24.73	23.367	
3,000.00	2,924.55	2,872.20	2,714.34	13.29	16.35	86.24	-321.44	-682.84	611.92	586.01	25.91	23.615	
3,100.00	3,019.86	2,966.20	2,798.33	13.88	17.16	86.36	-339.52	-721.00	646.01	618.91	27.10	23.838	
3,200.00	3,115.18	3,060.20	2,882.31	14.48	17.97	86.47	-357.59	-759.16	680.10	651.80	28.29	24.038	
3,300.00	3,210.49	3,154.21	2,966.30	15.07	18.79	86.57	-375.67	-797.32	714.18	684.70	29.49	24.219	
3,400.00	3,305.80	3,248.21	3,050.28	15.67	19.60	86.67	-393.74	-835.49	748.28	717.59	30.69	24.383	
3,500.00	3,401.11	3,342.21	3,134.27	16.27	20.42	86.75	-411.82	-873.65	782.37	750.48	31.89	24.534	
3,600.00	3,496.42	3,436.22	3,218.25	16.87	21.24	86.83	-429.90	-911.81	816.46	783.37	33.09	24.671	
3,700.00	3,591.73	3,530.22	3,302.24	17.47	22.06	86.90	-447.97	-949.98	850.56	816.26	34.30	24.797	
3,800.00	3,687.04	3,624.22	3,386.22	18.07	22.88	86.96	-466.05	-988.14	884.65	849.14	35.51	24.913	
3,900.00	3,782.36	3,718.23	3,470.21	18.68	23.70	87.02	-484.12	-1,026.30	918.75	882.03	36.72	25.020	
4,000.00	3,877.67	3,812.23	3,554.19	19.28	24.52	87.08	-502.20	-1,064.47	952.85	914.91	37.93	25.120	
4,100.00	3,972.98	3,906.23	3,638.18	19.89	25.35	87.13	-520.27	-1,102.63	986.95	947.80	39.15	25.212	
4,200.00	4,068.29	4,000.24	3,722.16	20.49	26.17	87.18	-538.35	-1,140.79	1,021.04	980.68	40.36	25.298	
4,300.00	4,163.60	4,094.24	3,806.15	21.10	27.00	87.23	-556.42	-1,178.95	1,055.14	1,013.57	41.58	25.377	
4,400.00	4,258.91	4,188.24	3,890.13	21.70	27.82	87.31	-574.50	-1,217.12	1,089.24	1,046.45	42.80	25.452	
4,500.00	4,355.03	4,282.17	3,974.05	22.28	28.65	88.29	-592.56	-1,255.25	1,123.46	1,079.50	43.95	25.560	
4,600.00	4,452.46	4,375.79	4,057.69	22.80	29.47	89.01	-610.56	-1,293.26	1,157.84	1,112.84	45.00	25.730	
4,700.00	4,550.93	4,468.84	4,140.83	23.25	30.29	89.49	-628.46	-1,331.03	1,192.39	1,146.46	45.93	25.962	
4,800.00	4,650.18	4,561.07	4,223.23	23.65	31.10	89.77	-646.19	-1,368.48	1,227.17	1,180.43	46.74	26.257	
4,900.00	4,749.92	4,652.22	4,304.67	23.98	31.90	89.87	-663.72	-1,405.48	1,262.26	1,214.84	47.42	26.618	
5,000.00	4,849.90	4,742.07	4,384.94	24.24	32.69	-75.09	-680.99	-1,441.96	1,297.81	1,249.84	47.97	27.053	
5,100.00	4,949.89	4,831.45	4,464.79	24.47	33.48	-30.97	-698.18	-1,478.24	1,333.72	1,285.25	48.47	27.517	

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1													<b>Offset Site Error:</b> 0.00 ft
<b>Survey Program:</b> 0-MWD													<b>Offset Well Error:</b> 0.00 ft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (ft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Measured Depth (ft)</b>	<b>Vertical Depth (ft)</b>	<b>Reference (ft)</b>	<b>Offset (ft)</b>		<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Between Centres (ft)</b>	<b>Between Ellipses (ft)</b>			
5,200.00	5,049.09	4,921.83	4,545.54	24.66	34.28	-30.87	-715.56	-1,514.94	1,360.94	1,312.09	48.86	27.856	
5,300.00	5,144.76	5,011.64	4,625.77	24.77	35.07	-31.75	-732.83	-1,551.39	1,374.56	1,325.51	49.05	28.023	
5,400.00	5,233.99	5,098.14	4,703.06	24.81	35.83	-33.53	-749.46	-1,586.51	1,374.95	1,325.91	49.03	28.041	
5,500.00	5,314.08	5,178.71	4,775.04	24.79	36.54	-36.20	-764.95	-1,619.22	1,362.97	1,314.17	48.79	27.934	
5,600.00	5,382.60	5,250.90	4,839.54	24.71	37.18	-39.76	-778.83	-1,648.53	1,339.94	1,291.60	48.34	27.720	
5,700.00	5,437.67	5,312.70	4,894.75	24.59	37.72	-43.74	-790.72	-1,673.62	1,307.72	1,260.00	47.72	27.404	
5,800.00	5,485.18	5,368.44	4,944.55	24.47	38.22	-47.37	-801.43	-1,696.25	1,273.59	1,226.50	47.09	27.044	
5,900.00	5,518.22	5,412.19	4,983.64	24.35	38.60	-52.54	-809.85	-1,714.01	1,234.37	1,187.87	46.50	26.545	
6,000.00	5,534.38	5,441.53	5,009.85	24.22	38.86	-57.93	-815.49	-1,725.92	1,191.10	1,145.04	46.05	25.863	
6,100.00	5,536.29	5,458.34	5,024.87	24.14	39.01	-60.57	-818.72	-1,732.74	1,147.18	1,101.27	45.91	24.986	
6,200.00	5,536.78	5,473.88	5,038.76	24.50	39.15	-61.41	-821.71	-1,739.05	1,109.64	1,063.34	46.30	23.966	
6,300.00	5,537.26	5,489.42	5,052.64	25.65	39.28	-62.25	-824.70	-1,745.36	1,079.87	1,032.55	47.32	22.820	
6,400.00	5,537.75	5,501.61	5,063.53	27.03	39.39	-62.91	-827.04	-1,750.31	1,058.51	1,009.53	48.97	21.613	
6,500.00	5,538.23	5,517.63	5,072.80	28.53	39.54	-63.78	-829.96	-1,756.96	1,046.10	994.79	51.31	20.388	
6,584.73	5,538.64	5,532.60	5,091.08	29.88	39.67	-64.58	-832.38	-1,763.44	1,042.79	989.08	53.71	19.415	
6,600.00	5,538.72	5,535.76	5,093.87	30.13	39.70	-64.75	-832.86	-1,764.84	1,042.89	988.71	54.18	19.249	
6,700.00	5,539.20	5,561.24	5,116.27	31.80	39.94	-66.11	-836.21	-1,776.54	1,048.81	991.32	57.49	18.244	
6,800.00	5,539.69	5,599.51	5,149.37	33.55	40.31	-68.12	-839.65	-1,795.40	1,063.36	1,002.27	61.09	17.406	
6,900.00	5,540.17	5,662.54	5,202.19	35.36	40.94	-71.30	-841.11	-1,829.70	1,085.46	1,020.54	64.92	16.719	
7,000.00	5,540.66	5,780.90	5,293.68	37.21	42.21	-76.71	-829.69	-1,903.58	1,112.66	1,043.73	68.93	16.142	
7,100.00	5,541.14	5,989.38	5,420.58	39.12	44.55	-83.82	-766.69	-2,055.01	1,138.35	1,065.76	72.59	15.683	
7,200.00	5,541.63	6,377.32	5,531.03	41.06	48.89	-89.47	-550.63	-2,348.85	1,156.61	1,082.53	74.08	15.614	
7,300.00	5,542.11	6,477.32	5,531.46	43.03	49.94	-89.47	-479.92	-2,419.55	1,156.60	1,078.95	77.66	14.894	
7,400.00	5,542.60	6,577.32	5,531.90	45.03	51.07	-89.47	-409.21	-2,490.26	1,156.60	1,075.27	81.33	14.222	
7,500.00	5,543.08	6,677.32	5,532.33	47.06	52.28	-89.47	-338.49	-2,560.97	1,156.60	1,071.51	85.09	13.592	
7,600.00	5,543.57	6,777.32	5,532.77	49.11	53.55	-89.46	-267.78	-2,631.68	1,156.59	1,067.65	88.94	13.004	
7,700.00	5,544.05	6,877.32	5,533.20	51.18	54.89	-89.46	-197.07	-2,702.39	1,156.59	1,063.59	93.00	12.436	
7,800.00	5,544.53	6,977.32	5,533.63	53.27	56.29	-89.46	-126.36	-2,773.10	1,156.59	1,059.91	96.68	11.964	
7,900.00	5,545.02	7,077.32	5,534.07	55.37	57.75	-89.46	-55.65	-2,843.81	1,156.59	1,055.80	100.79	11.475	
8,000.00	5,545.50	7,177.32	5,534.50	57.49	59.27	-89.46	15.06	-2,914.52	1,156.58	1,051.71	104.87	11.028	
8,100.00	5,545.99	7,277.32	5,534.94	59.62	60.84	-89.45	85.77	-2,985.23	1,156.58	1,047.59	108.99	10.612	
8,200.00	5,546.47	7,377.32	5,535.37	61.77	62.45	-89.45	156.48	-3,055.93	1,156.58	1,043.43	113.15	10.222	
8,300.00	5,546.96	7,477.32	5,535.81	63.92	64.11	-89.45	227.19	-3,126.64	1,156.57	1,039.24	117.33	9.857	
8,400.00	5,547.44	7,577.32	5,536.24	66.08	65.81	-89.45	297.91	-3,197.35	1,156.57	1,035.02	121.55	9.515	
8,500.00	5,547.93	7,677.32	5,536.68	68.25	67.55	-89.44	368.62	-3,268.06	1,156.57	1,030.78	125.79	9.194	
8,600.00	5,548.41	7,777.32	5,537.11	70.43	69.32	-89.44	439.33	-3,338.77	1,156.57	1,026.51	130.06	8.893	
8,700.00	5,548.90	7,877.32	5,537.55	72.61	71.12	-89.44	510.04	-3,409.48	1,156.56	1,022.22	134.34	8.609	
8,800.00	5,549.38	7,977.32	5,537.98	74.81	72.96	-89.44	580.75	-3,480.19	1,156.56	1,017.91	138.65	8.341	
8,900.00	5,549.87	8,077.32	5,538.42	77.00	74.82	-89.43	651.46	-3,550.90	1,156.56	1,013.58	142.98	8.089	
9,000.00	5,550.35	8,177.32	5,538.85	79.21	76.70	-89.43	722.17	-3,621.61	1,156.55	1,009.24	147.32	7.851	
9,100.00	5,550.84	8,277.32	5,539.29	81.41	78.62	-89.43	792.88	-3,692.31	1,156.55	1,004.88	151.67	7.625	
9,200.00	5,551.32	8,377.32	5,539.72	83.63	80.55	-89.43	863.60	-3,763.02	1,156.55	1,000.51	156.04	7.412	
9,300.00	5,551.81	8,477.32	5,540.16	85.84	82.50	-89.42	934.31	-3,833.73	1,156.55	996.12	160.42	7.209	
9,400.00	5,552.29	8,577.32	5,540.59	88.06	84.47	-89.42	1,005.02	-3,904.44	1,156.54	991.73	164.82	7.017	
9,500.00	5,552.78	8,677.32	5,541.03	90.29	86.46	-89.42	1,075.73	-3,975.15	1,156.54	987.32	169.22	6.835	
9,600.00	5,553.26	8,777.32	5,541.46	92.51	88.46	-89.42	1,146.44	-4,045.86	1,156.54	982.90	173.63	6.661	
9,700.00	5,553.75	8,877.32	5,541.90	94.74	90.48	-89.41	1,217.15	-4,116.57	1,156.53	978.48	178.06	6.495	
9,800.00	5,554.23	8,977.32	5,542.33	96.98	92.51	-89.41	1,287.86	-4,187.28	1,156.53	974.04	182.49	6.338	
9,900.00	5,554.72	9,077.32	5,542.77	99.21	94.56	-89.41	1,358.57	-4,257.98	1,156.53	969.60	186.93	6.187	
10,000.00	5,555.20	9,177.32	5,543.20	101.45	96.62	-89.41	1,429.28	-4,328.69	1,156.53	965.16	191.37	6.043	
10,100.00	5,555.69	9,277.32	5,543.64	103.69	98.69	-89.40	1,500.00	-4,399.40	1,156.52	960.70	195.82	5.906	
10,200.00	5,556.17	9,377.32	5,544.07	105.94	100.76	-89.40	1,570.71	-4,470.11	1,156.52	956.24	200.28	5.775	

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1												<b>Offset Site Error:</b>	0.00 ft
<b>Survey Program:</b> 0-MWD												<b>Offset Well Error:</b>	0.00 ft
<b>Rule Assigned:</b>												<b>Warning</b>	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
10,300.00	5,556.66	9,477.32	5,544.51	108.18	102.85	-89.40	1,641.42	-4,540.82	1,156.52	951.77	204.74	5.649	
10,400.00	5,557.14	9,577.32	5,544.94	110.43	104.95	-89.40	1,712.13	-4,611.53	1,156.51	947.30	209.21	5.528	
10,500.00	5,557.63	9,677.32	5,545.38	112.68	107.06	-89.39	1,782.84	-4,682.24	1,156.51	942.83	213.69	5.412	
10,600.00	5,558.11	9,777.32	5,545.81	114.93	109.17	-89.39	1,853.55	-4,752.95	1,156.51	938.35	218.16	5.301	
10,700.00	5,558.60	9,877.32	5,546.25	117.18	111.30	-89.39	1,924.26	-4,823.66	1,156.51	933.86	222.65	5.194	
10,800.00	5,559.08	9,977.32	5,546.68	119.44	113.42	-89.39	1,994.97	-4,894.36	1,156.50	929.37	227.13	5.092	
10,900.00	5,559.57	10,077.32	5,547.12	121.69	115.56	-89.38	2,065.68	-4,965.07	1,156.50	924.88	231.62	4.993	
11,000.00	5,560.05	10,177.32	5,547.55	123.95	117.70	-89.38	2,136.40	-5,035.78	1,156.50	920.38	236.12	4.898	
11,100.00	5,560.54	10,277.32	5,547.99	126.21	119.85	-89.38	2,207.11	-5,106.49	1,156.49	915.88	240.62	4.806	
11,200.00	5,561.02	10,377.32	5,548.42	128.47	122.01	-89.38	2,277.82	-5,177.20	1,156.49	911.37	245.12	4.718	
11,300.00	5,561.51	10,477.32	5,548.86	130.73	124.17	-89.37	2,348.53	-5,247.91	1,156.49	906.87	249.62	4.633	
11,400.00	5,561.99	10,577.32	5,549.29	132.99	126.33	-89.37	2,419.24	-5,318.62	1,156.49	902.36	254.13	4.551	
11,500.00	5,562.48	10,677.32	5,549.73	135.26	128.50	-89.37	2,489.95	-5,389.33	1,156.48	897.84	258.64	4.471	
11,600.00	5,562.96	10,777.32	5,550.16	137.52	130.67	-89.37	2,560.66	-5,460.04	1,156.48	893.33	263.15	4.395	
11,700.00	5,563.45	10,877.32	5,550.60	139.79	132.85	-89.36	2,631.37	-5,530.74	1,156.48	888.81	267.67	4.321	
11,800.00	5,563.93	10,977.32	5,551.03	142.05	135.03	-89.36	2,702.08	-5,601.45	1,156.47	884.29	272.19	4.249	
11,900.00	5,564.42	11,077.32	5,551.47	144.32	137.22	-89.36	2,772.80	-5,672.16	1,156.47	879.77	276.71	4.179	
12,000.00	5,564.90	11,177.32	5,551.90	146.59	139.41	-89.36	2,843.51	-5,742.87	1,156.47	875.24	281.23	4.112	
12,100.00	5,565.39	11,277.32	5,552.34	148.86	141.60	-89.35	2,914.22	-5,813.58	1,156.47	870.71	285.75	4.047	
12,200.00	5,565.87	11,377.32	5,552.77	151.13	143.80	-89.35	2,984.93	-5,884.29	1,156.46	866.19	290.28	3.984	
12,300.00	5,566.36	11,477.32	5,553.21	153.40	146.00	-89.35	3,055.64	-5,955.00	1,156.46	861.66	294.80	3.923	
12,400.00	5,566.84	11,577.32	5,553.64	155.67	148.20	-89.35	3,126.35	-6,025.71	1,156.46	857.13	299.33	3.863	
12,500.00	5,567.33	11,677.32	5,554.08	157.94	150.41	-89.34	3,197.06	-6,096.42	1,156.46	852.59	303.86	3.806	
12,600.00	5,567.81	11,777.32	5,554.51	160.21	152.61	-89.34	3,267.77	-6,167.12	1,156.45	848.06	308.40	3.750	
12,700.00	5,568.30	11,877.32	5,554.95	162.48	154.82	-89.34	3,338.49	-6,237.83	1,156.45	843.52	312.93	3.696	
12,800.00	5,568.78	11,977.32	5,555.38	164.76	157.04	-89.34	3,409.20	-6,308.54	1,156.45	838.98	317.46	3.643	
12,900.00	5,569.27	12,077.32	5,555.82	167.03	159.25	-89.33	3,479.91	-6,379.25	1,156.44	834.44	322.00	3.591	
13,000.00	5,569.75	12,177.32	5,556.25	169.31	161.47	-89.33	3,550.62	-6,449.96	1,156.44	829.90	326.54	3.542	
13,100.00	5,570.24	12,277.32	5,556.69	171.58	163.69	-89.33	3,621.33	-6,520.67	1,156.44	825.36	331.08	3.493	
13,200.00	5,570.72	12,377.32	5,557.12	173.86	165.91	-89.33	3,692.04	-6,591.38	1,156.44	820.82	335.62	3.446	
13,300.00	5,571.21	12,477.32	5,557.56	176.13	168.14	-89.32	3,762.75	-6,662.09	1,156.43	816.27	340.16	3.400	
13,400.00	5,571.69	12,577.32	5,557.99	178.41	170.37	-89.32	3,833.46	-6,732.80	1,156.43	811.73	344.70	3.355	
13,500.00	5,572.18	12,677.32	5,558.43	180.69	172.59	-89.32	3,904.17	-6,803.50	1,156.43	807.18	349.25	3.311	
13,600.00	5,572.66	12,777.32	5,558.86	182.97	174.82	-89.32	3,974.89	-6,874.21	1,156.42	802.63	353.79	3.269	
13,700.00	5,573.15	12,877.32	5,559.29	185.24	177.06	-89.31	4,045.60	-6,944.92	1,156.42	798.08	358.34	3.227	
13,800.00	5,573.63	12,977.32	5,559.73	187.52	179.29	-89.31	4,116.31	-7,015.63	1,156.42	793.54	362.88	3.187	
13,900.00	5,574.12	13,077.32	5,560.16	189.80	181.52	-89.31	4,187.02	-7,086.34	1,156.42	788.98	367.43	3.147	
14,000.00	5,574.60	13,177.32	5,560.60	192.08	183.76	-89.31	4,257.73	-7,157.05	1,156.41	784.43	371.98	3.109	
14,100.00	5,575.09	13,277.32	5,561.03	194.36	186.00	-89.30	4,328.44	-7,227.76	1,156.41	779.88	376.53	3.071	
14,200.00	5,575.57	13,377.32	5,561.47	196.64	188.24	-89.30	4,399.15	-7,298.47	1,156.41	775.33	381.08	3.035	
14,300.00	5,576.06	13,477.32	5,561.90	198.92	190.48	-89.30	4,469.86	-7,369.18	1,156.41	770.78	385.63	2.999	
14,322.02	5,576.17	13,499.34	5,562.00	199.42	190.97	-89.30	4,485.43	-7,384.74	1,156.40	769.77	386.63	2.991	
14,400.00	5,576.54	13,499.34	5,562.00	201.20	190.97	-89.30	4,485.44	-7,384.75	1,159.03	767.98	391.05	2.964 SF	
14,500.00	5,577.03	13,499.34	5,562.00	203.48	190.97	-89.30	4,485.44	-7,384.75	1,170.01	777.08	392.93	2.978	
14,600.00	5,577.51	13,499.34	5,562.00	205.76	190.97	-89.30	4,485.44	-7,384.75	1,189.34	798.58	390.76	3.044	
14,700.00	5,578.00	13,499.34	5,562.00	208.04	190.97	-89.30	4,485.44	-7,384.75	1,216.60	831.50	385.09	3.159	
14,800.00	5,578.48	13,499.34	5,562.00	210.33	190.97	-89.30	4,485.44	-7,384.75	1,251.28	874.58	376.70	3.322	
14,900.00	5,578.97	13,499.34	5,562.00	212.61	190.97	-89.30	4,485.44	-7,384.75	1,292.78	926.40	366.39	3.528	
15,000.00	5,579.45	13,499.34	5,562.00	214.89	190.97	-89.30	4,485.44	-7,384.75	1,340.48	985.58	354.90	3.777	
15,100.00	5,579.94	13,499.34	5,562.00	217.17	190.97	-89.30	4,485.44	-7,384.75	1,393.72	1,050.88	342.84	4.065	
15,200.00	5,580.42	13,499.34	5,562.00	219.46	190.97	-89.30	4,485.44	-7,384.75	1,451.91	1,121.25	330.66	4.391	
15,300.00	5,580.91	13,499.34	5,562.00	221.74	190.97	-89.30	4,485.44	-7,384.75	1,514.48	1,195.78	318.69	4.752	

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. 136H
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6832+25 @ 6857.00ft
Reference Site:	Ridge Unit (130, 135, 136 & 137)	MD Reference:	RKB=6832+25 @ 6857.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Ridge Unit No. 136H	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 (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1											Offset Site Error:	0.00 ft
Survey Program:	0-MWD											Offset Well Error:	0.00 ft
Reference	Rule Assigned:											Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Semi Major Axis Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
15,400.00	5,581.39	13,499.34	5,562.00	224.02	190.97	-89.30	4,485.44	-7,384.75	1,580.89	1,273.75	307.14	5.147	
15,500.00	5,581.88	13,499.34	5,562.00	226.31	190.97	-89.30	4,485.44	-7,384.75	1,650.70	1,354.57	296.13	5.574	
15,525.14	5,582.00	13,499.34	5,562.00	226.88	190.97	-89.30	4,485.44	-7,384.75	1,668.73	1,375.28	293.45	5.687	

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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=6832+25 @ 6857.00ft

Offset Depths are relative to Offset Datum

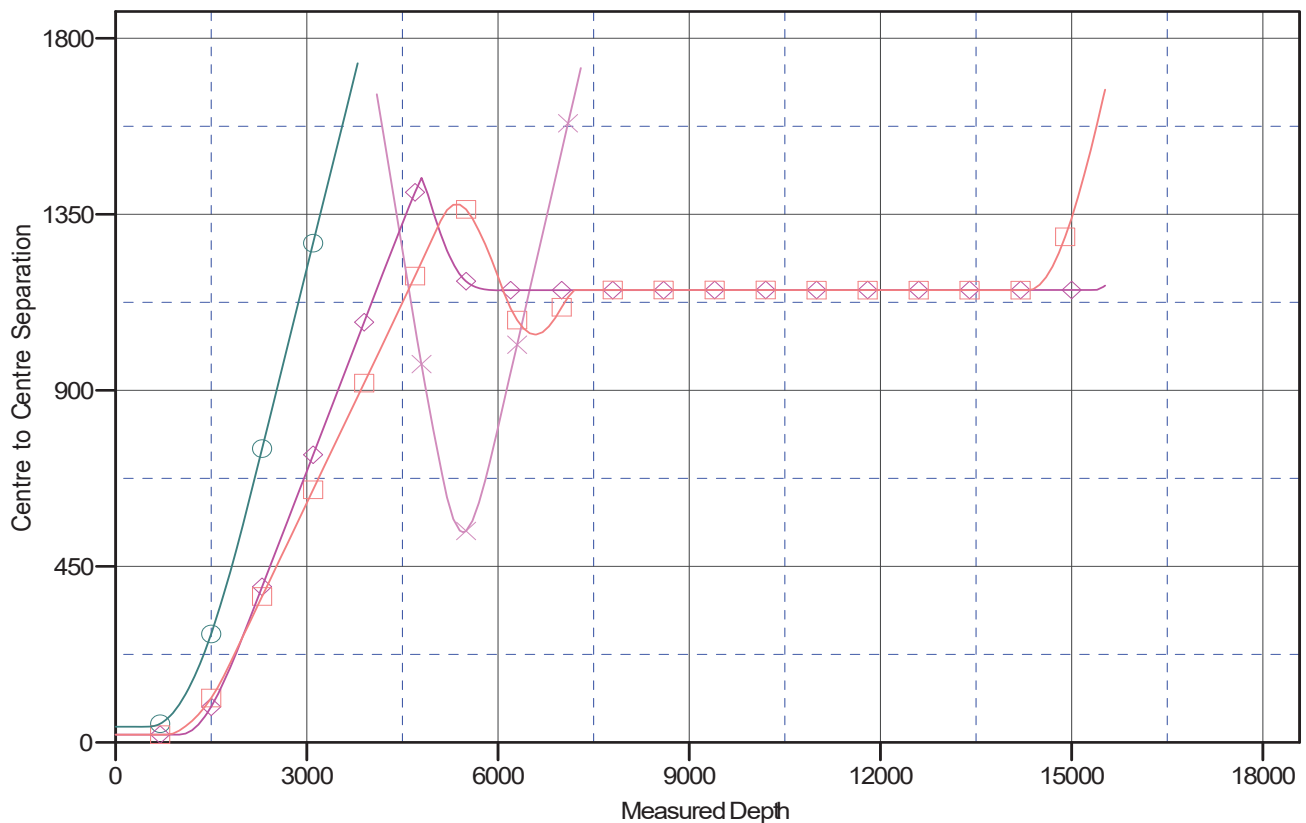
Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 136H

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

Grid Convergence at Surface is: 0.11°

## Ladder Plot



## LEGEND



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



## Anticollision Report

<b>Company:</b>	Enduring Resources LLC	<b>Local Co-ordinate Reference:</b>	Well Ridge Unit No. 136H
<b>Project:</b>	San Juan County, New Mexico NAD83 NM W	<b>TVD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Reference Site:</b>	Ridge Unit (130, 135, 136 & 137)	<b>MD Reference:</b>	RKB=6832+25 @ 6857.00ft
<b>Site Error:</b>	0.00 ft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Ridge Unit No. 136H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Original Hole	<b>Database:</b>	DB_Decv0422v16
<b>Reference Design:</b>	rev1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB=6832+25 @ 6857.00ft

Offset Depths are relative to Offset Datum

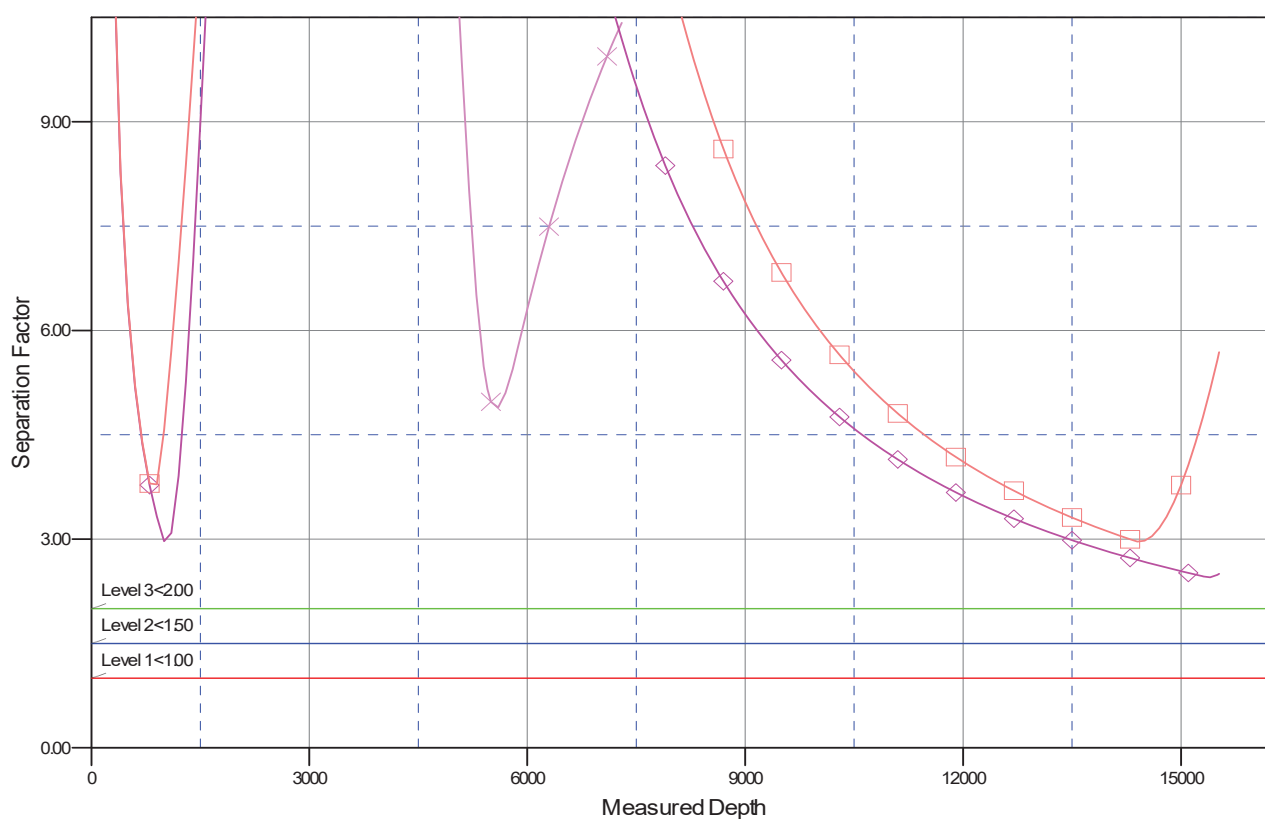
Central Meridian is -107.83333333

Coordinates are relative to: Ridge Unit No. 136H

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

Grid Convergence at Surface is: 0.11°

## Separation Factor Plot



## LEGEND

Lybrook2408138H Original Hole rev1 V0  
 Ridge Unit No. 130H Original Hole rev1 V0  
 Ridge Unit No. 135H Original Hole rev1 V0  
 Ridge Unit No. 137H Original Hole rev1 V0

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



# United States Department of the Interior

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



In Reply Refer To:  
3162.3-1(NMF0110)

\* ENDURING RESOURCES LLC

#136H RIDGE UNIT

Lease: NMNM138391 Agreement: NMNM140471X

SH: SE $\frac{1}{4}$ NW $\frac{1}{4}$  Section 26, T. 24N., R. 8W.

San Juan County, New Mexico

BH: NW $\frac{1}{4}$ NW $\frac{1}{4}$  Section 22, T. 24N., R. 8W.

San Juan County, New Mexico

**\*Above Data Required on Well Sign**

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

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

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING



## **I. GENERAL**

- A. Full compliance with all applicable laws and regulations, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- D. For Wildcat wells only, a drilling operations progress report is to be submitted, to the BLM-Field Office, weekly from the spud date until the well is completed and the Well Completion Report is filed. The report should be on 8-1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).
- F. BOP equipment (except the annular preventer) shall be tested utilizing a test plug to full working pressure for 10 minutes. No bleed-off of pressure is acceptable. (See 43 CFR 3172.6(b)(9)(ii)).
- G. The operator shall have sufficient weighting materials and lost circulation materials on location in the event of a pressure kick or in the event of lost circulation. (See 43 CFR 3172.8(a)).
- H. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where noncombustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare. (See 43 CFR 3172.8(b)(7)).
- I. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work, casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a Notice of Intent sundry within three business days. **Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to Virgil Lucero at 505-793-1836.**
- J. **The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.**
- K. Unless drilling operations are commenced within three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

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

## **II. REPORTING REQUIREMENTS**

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

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

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

### **IV. GAS FLARING**

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

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

### **V. SAFETY**

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

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

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

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 413048

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 413048
	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.	12/17/2024
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/17/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/13/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/13/2025
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.	1/13/2025
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.	1/13/2025