Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-045-38428 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 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

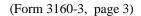
APPROVED WITH CONDITIONS Released to Imaging: 2/6/2025 10:34:59 AM Approval Date: 11/22/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SENE / 2371 FNL / 1292 FEL / TWSP: 24N / RANGE: 8W / SECTION: 25 / LAT: 36.285848 / LONG: -107.628844 (TVD: 0 feet, MD: 0 feet)
PPP: SWNW / 2383 FNL / 1201 FWL / TWSP: 24N / RANGE: 8W / SECTION: 25 / LAT: 36.285915 / LONG: -107.638117 (TVD: 5548 feet, MD: 6235 feet)
PPP: SENE / 0 FSL / 0 FEL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.289274 / LONG: -107.642249 (TVD: 5713 feet, MD: 17001 feet)
PPP: SESE / 0 FSL / 0 FEL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.30308 / LONG: -107.66073 (TVD: 5713 feet, MD: 17001 feet)
PPP: SENE / 0 FNL / 0 FEL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.292498 / LONG: -107.646216 (TVD: 5713 feet, MD: 17001 feet)
BHL: NENE / 237 FNL / 732 FEL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.306188 / LONG: -107.663066 (TVD: 5713 feet, MD: 17001 feet)



C - 102Submit Electronically Via OCD Permitting

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

	Revised July 9, 2024
Submittal Type	☐ Initial Submittal
	🛮 Amended Report
. , 50	☐ As Drilled

					WELL	LOCATION	INFORM	IATION				
API Nu		45-384	428	Pool	Code 422	89		Pool Name		LYBROOK GAL	LUP	
Property Code Property Name RIDGE UNIT Well Number 129							129H					
OGRID	No.	372286	i	Opena	ator Name E1	NDURING RES	DURCES,	LLC		Ground Level Elevatio	n 69	923'
Surface	e Owner:	☐ State	□ Fee □	Tribal	⊠ Federal		Mineral Own	ner: □ State □ Fee		Tribal ⊠ Federal		
						Surface Lo	cation					
UL H	Section 25	Township 24N	Range 8W	Lot	Feet from N/S Line 2371' NORTH	Feet from E/W Li 1292' E	ne EAST	Latitude 36.285848	°N	Longitude -107.62884	14 °W	County SAN JUAN
					,	Bottom Hole	Locatio	חח		1		·
UL A	Section 22	Township 24N	Range 8W	Lot	Feet from N/S Line 237' NORTH	Feet from E/W Li 732' E	ne EAST	Latitude 36.306188	°N	Longitude -107.66306	66 °W	County SAN JUAN
Dedicat	ed Acres		Penetrated	d Spacing	Unit:							
	W.	W/2 ŃW N/4, W/2 /2 NW/4	ŚE/4, 1, SE/4	4 NW/4 SE/4 NW/4	tion 22 4, N/2 SW/4 SE/4 – Section 23 – Section 25 – Section 26	Infill or Defi	ning Well	Defining Well API		Yes No		dation Code
Order 1	Numbers 	R-20594					Well setbac	cks are under Common Ow	nershi	.p: 🛚 Yes [] No	
					1	Kick Off Poi	int (KOF	?)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Li	ne	Latitude		Longitude		County
Н	25	24N	8W		2371' NORTH	1292' E	EAST	36.285848	°N	-107.62884	14 °W	SAN JUAN
					F	irst Take Po	oint (F1	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Li	ne	Latitude		Longitude		County
E	25	24N	8W		2383' NORTH	1201' W	VEST	36.285915	°N	-107.63811	17 °W	SAN JUAN
					L	.ast Take Po	int (LT	·		1		·
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W Li	ne	Latitude		Longitude		County
A	22	24N	8W		237' NORTH	732' E	EAST	36.306188	°N	-107.66306	66 °W	SAN JUAN
		I										1
Unitize		Area of Un DGE UNI	iform Inter	est	Spacing Unit Type	izontal 🗆 🕆	Vertical	☐ Directiona	1	Ground Floor Elevat	ion	
		O	PFRATO	R CEF	RTTFTCATTON			SURVE	YOF	CERTIFICAT	TON	

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

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

Shaw-Marie Ford 1/13/2025 Shaw-Marie Ford

sford@enduringresources.com

E-mail Address

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



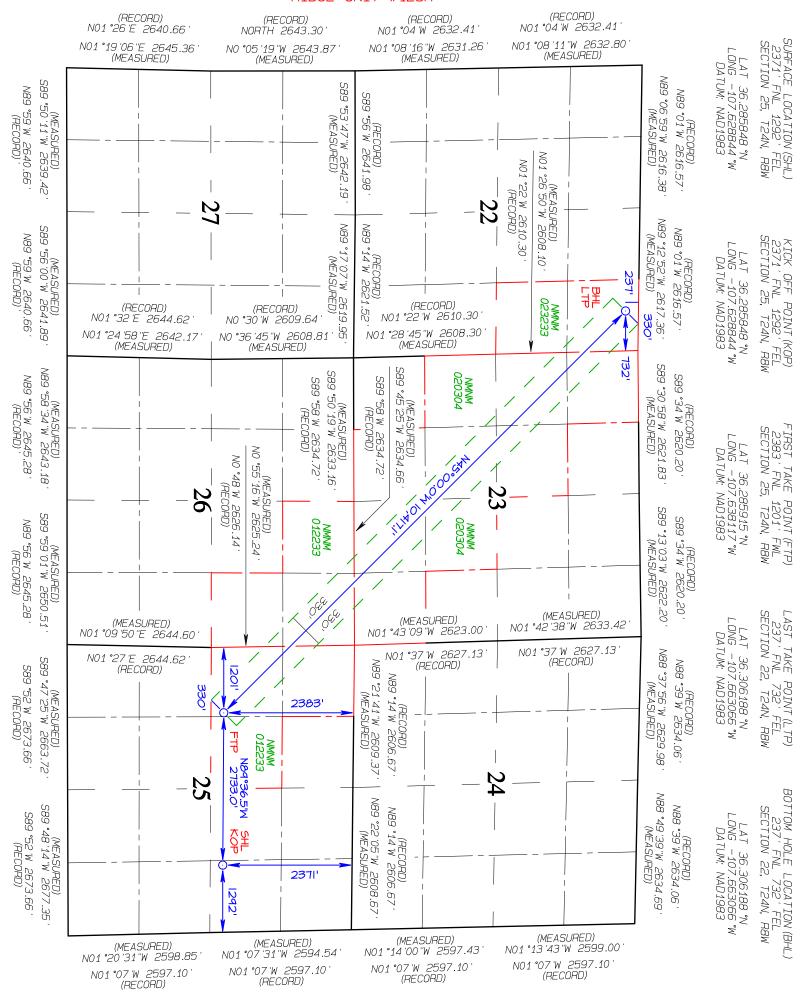
JASON LDWARDS

Signature and Seal of Professional Surveyor

Certificate Number

15269

Date of Survey OCTOBER 29, 2021



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description <u>Effective May 25, 2021</u>

I. Operator:Enduring I	Resource	s, LLC	OGRID:372	2286	Date: _1/14	1/2025_		
II. Type: ⊠ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.								
If Other, please describe: _								
III. Well(s): Provide the fobe recompleted from a sing	_				proposed to be d	rilled or proposed to		
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D		
Ridge Unit 124H	TBD	H-25-24N-8W	2371 FNL x 1232 FEL	595	2381	238		
Ridge Unit 127H	TBD	H-25-24N-8W	2371 FNL x 1252 FEL	608	2432	243		
Ridge Unit 128H	TBD	H-25-24N-8W	2371 FNL x 1272 FEL	544	2177	218		
Ridge Unit 129H	TBD	H-25-24N-8W	2371 FNL x 1292 FEL	510	2041	204		
				3-year Decline	3-year Decline	3-year Decline		
Ridge Unit 124H	TBD	H-25-24N-8W	2371 FNL x 1232 FEL	134	538	54		
Ridge Unit 127H	TBD	H-25-24N-8W	2371 FNL x 1252 FEL	137	549	55		
Ridge Unit 128H	TBD	H-25-24N-8W	2371 FNL x 1272 FEL	123	492	49		
Ridge Unit 129H	TBD	H-25-24N-8W	2371 FNL x 1292 FEL	115	461	46		
				_	•	_		

IV. Central Delivery Point Name: Ridge Unit CDP [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Ridge Unit 124H	TBD	9/22/2025	10/2/2025	11/5/2025	11/20/2025	11/22/2025
Ridge Unit 127H	TBD	10/3/2025	10/13/2025	11/5/2025	11/25/2025	11/27/2025
Ridge Unit 128H	TBD	10/14/2025	10/23/2025	11/5/2025	11/30/2025	12/2/2025
Ridge Unit 129H	TBD	10/24/2025	11/2/2025	11/5/2025	12/5/2025	12/7/2025

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

Page 1 of 4

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 eporting area must complete this section.							
_	s that it is not require for the applicable re	_	tion because Operator is in c	compl	liance with its statewide natural gas			
IX. Anticipated Na	tural Gas Productio	on:						
W					Anticipated Volume of Natural Gas for the First Year MCF			
X. Natural Gas Ga	X. Natural Gas Gathering System (NGGS):							
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Av	vailable Maximum Daily Capacity of System Segment Tie-in			
production operation the segment or porti XII. Line Capacity	ns to the existing or p on of the natural gas	planned interconnect of t gathering system(s) to v	the natural gas gathering systewhich the well(s) will be con	em(s), nected	ated pipeline route(s) connecting the , and the maximum daily capacity of d. 100% of the anticipated natural gas			
					the same segment, or portion, of the pressure caused by the new well(s).			
☐ Attach Operator's plan to manage production in response to the increased line pressure.								
Section 2 as provide	ed in Paragraph (2) o		.27.9 NMAC and attaches a f		978 for the information provided in escription of the specific information			

Section 3 - Certifications <u>Effective May 25, 2021</u>

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: power generation on lease; (a) power generation for grid; (b) compression on lease; (c)

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

Section 4 - Notices

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



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:

- o 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.
- o The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- o 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.
- o The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- o 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.



VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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



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

- o 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.
- o 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:

- o Enduring facilities are built and ready from day 1 of Flowback.
- o 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.
- O 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 tall 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.



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 129H
API Number: not yet assigned
State: New Mexico
County: San Juan

Surface Elevation: 6,923 ft ASL (GL)

6,923 ft ASL (GL) 6,948 ft ASL (KB)

Surface Location: 25-24N-08W Sec-Twn-Rng 2,371 ft FNL 1,292 ft FEL

36.306188 ° N latitude 107.663066 ° W longitude (NAD 83)

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: South on US Hwy 550 for 43.5 miles to County

Road 7998, Left (North) on CR 7998 for 1.0 miles to fork in road, Left (North-West) on lease road for 0.2 miles to fork in road, Right (Straight)(West) for 0.4 miles to fork, Right (North-East) for 0.6 miles to access road, right on access road for 0.4 miles to

Ridge Unit 127H Pad. The 129H well is the furthest West well and closest to the location entrance

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis

s: Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	5,590	1,358	1,379	W	normal
Kirtland	5,475	1,473	1,507	W	normal
Fruitland	5,230	1,718	1,786	G, W	sub
Pictured Cliffs	4,935	2,013	2,122	G, W	sub
Lewis	4,810	2,138	2,265	G, W	normal
Chacra	4,500	2,448	2,618	G, W	normal
Cliff House	3,400	3,548	3,872	G, W	sub
Menefee	3,385	3,563	3,889	G, W	normal
Point Lookout	2,555	4,393	4,836	G, W	normal
Mancos	2,350	4,598	5,070	O,G	sub (~0.38)
Gallup (MNCS_A)	1,985	4,963	5,486	O,G	sub (~0.38)
MNCS_B	1,900	5,048	5,583	O,G	sub (~0.38)
MNCS_C	1,770	5,178	5,731	O,G	sub (~0.38)
MNCS_Cms	1,695	5,253	5,817	O,G	sub (~0.38)
MNCS_D	1,620	5,328	5,907	O,G	sub (~0.38)
MNCS_E	1,540	5,408	6,010	O,G	sub (~0.38)
MNCS_F	1,495	5,453	6,073	O,G	sub (~0.38)
MNCS_G	1,400	5,548	6,235	O,G	sub (~0.38)
MNCS_H	1,360	5,588	6,316	O,G	sub (~0.38)
MNCS_I	1,320	5,628	6,424	O,G	sub (~0.38)
P.O.E. TARGET	1,400	5,548	6,235	O,G	sub (~0.38)
PROJECTED TD	1,235	5,713	17,001	O,G	sub (~0.38)

Surface: Nacimiento

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

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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,460 psi

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

Temperature: Maximum anticipated BHT is 135° F or less

H₂S INFORMATION:

H₂S Zones: Encountering hydrogen-sulfide bearing zones is NOT anticipated.

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

LOGGING. CORING. AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 9-5/8" casing to TD; gas detection from drillout of 13-3/8"

casing to TD.

MWD / LWD: Gamma Ray from drillout of 13-3/8" casing to TD

Open Hole Logs: None planned
Testing: None planned
Coring: None planned

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

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 25

Note: A different rig may be used to drill the well depending on rig availability at the time the well is 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.
- 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.
- 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 the 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 minimimize 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.

			FL		ΥP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	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

Annular Capacity

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

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

intermediate hole and 8.4 ppg equivalent external pressure gradient

Cement:	Туре	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
ar 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

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

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

350 ft (MD)	to	4,049 ft (MD)	Hole Section Length:	3,699 ft
350 ft (TVD)	to	3,713 ft (TVD)	Casing Required:	4,049 ft

			FL		YP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	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 Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,622	1,422	227,113	227,113
Min. S.F.					1.25	2.47	2.48	1.99

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

			rieia	water		Planned TOC	rotal Cmt	rotal Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
. Spacer	D-Mud Breaker	8.5				0	10 bbls	
	90:10 Type							
Lead	III:POZ	12.5	2.140	12.05	70%	0	883	1,890
Tail	Type III	14.6	1.380	6.61	20%	3,549	150	207
Displacement	-3	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

ft/ft 9-5/8" casing vol

est shoe jt ft 44

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

Spacer	D-Mud Breaker

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

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

4,049	49 ft (MD) to 17,001 ft (MD)		Hole Section Length:	12,952 ft	
3,713	ft (TVD)	to	5,713 ft (TVD)	Casing Required:	17,001 ft

Estimated KOP:	5,747 ft (MD)	5,189 ft (TVD)
Estimated Landing Point (P.O.E.):	6,235 ft (MD)	5,548 ft (TVD)
Estimated Lateral Length:	10,766 ft (MD)	

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

Hole Size: 8-1/2"

Bit / Motor: PDC w/mud motor

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

minimum before KOP and after Landing Point)

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

							Tens. Body	Tens. Conn
Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,822	9,035	349,395	349,395
Min. S.F.					2.64	1.18	1.56	1.27

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Lead	ASTM type I/II	12.4	2.370	13.40	50%	0	608	1,440
Tail	G:POZ blend	13.3	1.570	7.70	10%	5,070	1,923	3,019

Displacement 375 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

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

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 10,666

Est Frac Inform: 44 Frac Stages 171,000 bbls slick water 13,870,000 lbs proppant **Flowback:** Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance) **Production:** Produce through production tubing via gas-lift into permanent production and storage facilities

ESTIMATED START DATES:

 Drilling:
 3/3/2023

 Completion:
 4/17/2023

 Production:
 5/17/2023

Prepared by: Alec Bridge 10/17/2019
Updated by: G Olson 7/15/2022
G Olson 8/17/2023

TVD (ft KB)

1,358

1,473

1.718

2 013

2,138

2,448

3,548

3,563

4,393

4,598

4,963

5,048

5,178

5,253

5,328

5,408

5,453

5,548

5,588

5,628

5,548

5,713

Tops

Lewis

WELL NAME: RIDGE UNIT 129H

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

API Number: not yet assigned State: New Mexico

County: San Juan

Surface Elev.: 6,923 ft ASL (GL) 6,948 ft ASL (KB)

Surface Location: 25-24N-08W Sec-Twn- Rng ft FNL ft FEL 2.371 1.292 BH Location: 22-24N-08W Sec-Twn- Rng ft FNL 732 ft FEL 237

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

US Hwy 550 for 43.5 miles to County Road 7998, Left (North) on CR 7998 for 1.0 miles to fork in road, Left (North-West) on lease road for 0.2 miles to fork in road, Right (Straight)(West) for 0.4 miles to fork, Right (North-East) for 0.6 miles to access road, right on access road for 0.4 miles to Ridge Unit 127H Pad. The 129H well is the furthest

West well and closest to the location entrance

1	QUICK REFERENCE											
	Sur TD (MD)	350 ft										
	Int TD (MD)	4,049 ft										
	KOP (MD)	5,747 ft										
	KOP (TVD)	5,189 ft										
	Target (TVD)	5,548 ft										
	Curve BUR	10 °/100 ft										
า	POE (MD)	6,235 ft										
	TD (MD)	17,001 ft										
	Lat Len (ft)	10,766 ft										

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	4,049	9.625	36.0	J-55	LTC	0	4,049
Production	8.500	17,001	5.500	17.0	P-110	LTC	0	17,001

CEMENT PROPERTIES SUMMARY:

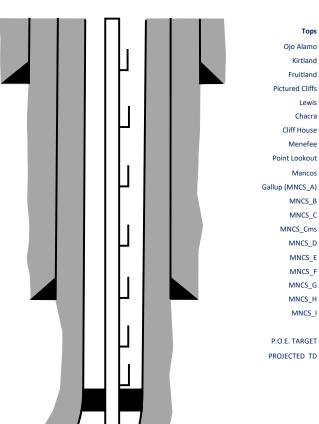
					Hole Cap.		тос		Total Cu
	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(ft MD)	Total (sx)	Ft
Surface	TYPE III	14.6	1.39	6.686	0.6946	100%	0	364	505
Inter. (Lead)	90:10 Type III:POZ	12.5	2.14	12.05	0.3132	70%	0	883	1,890
Inter. (Tail)	Type III	14.6	1.38	6.61	0.3132	20%	3,549	150	207
Prod. (Lead)	ASTM type I/II	12.4	2.37	13.4	0.2291	50%	0	608	1,440
Prod. (Tail)	G:POZ blend	13.3	1.57	7.7	0.2291	10%	5,070	1,923	3,019

COMPLETION / PRODUCTION SUMMARY:

Frac: 10666

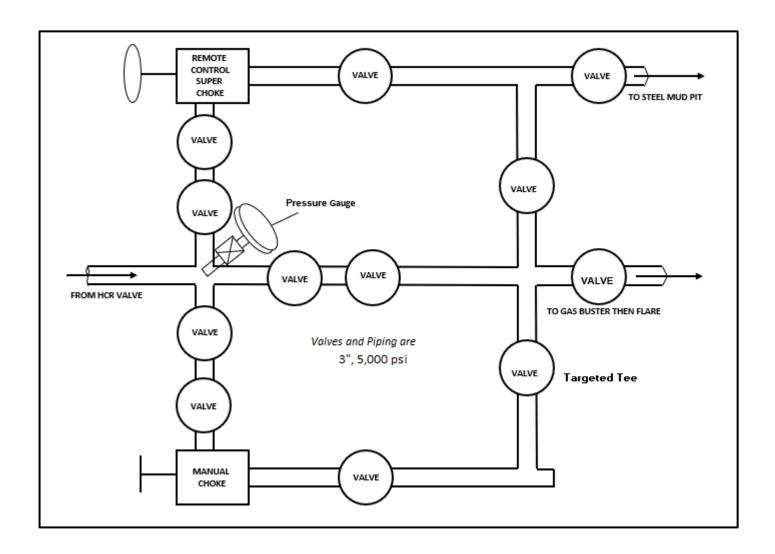
Flowback: Flow back through production tubing as pressures allow (ESP may be used for load recovery assitance)

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



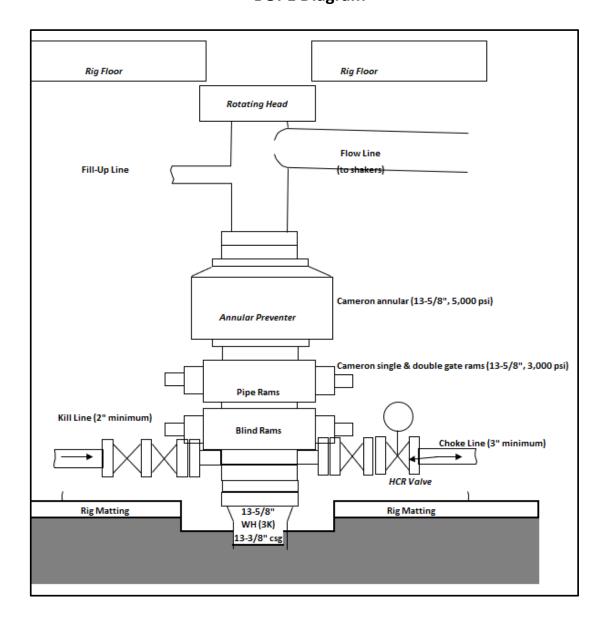


Enduring Resources IV, LLC CHOKE MANIFOLD





Enduring Resources IV, LLC BOPE Diagram



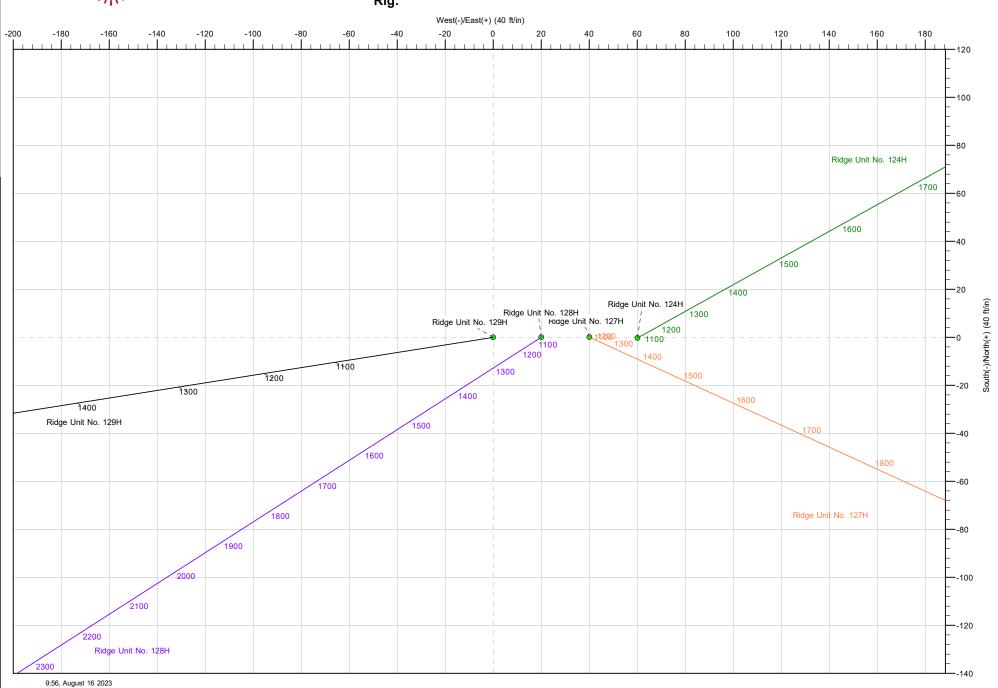


Well: Ridge Unit No. 129H

Site: Ridge Unit (124, 127, 128 & 129)
Project: San Juan County, New Mexico NAD83 NM W

Design: rev1

Rig:





DB Decv0422v16 Database: Company: **Enduring Resources LLC**

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H Wellbore: Original Hole Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

315.001

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

Map System: US State Plane 1983 North American Datum 1983 Geo Datum: New Mexico Western Zone Map Zone:

System Datum: Mean Sea Level

0.00

Ridge Unit (124, 127, 128 & 129) Site

Northing: 1,923,411.454 usft Site Position: 36.285847000 Latitude: From: Lat/Long Easting: 2,783,418.160 usft Longitude: -107.628640000

0.00 ft Slot Radius: 13-3/16 " **Position Uncertainty:**

Well Ridge Unit No. 129H, Surf loc: 2371 FNL 1292 FEL Section 25-T24N-R08W

0.00

0.00 ft 36.285848000 **Well Position** +N/-S 1 923 411 691 usft Latitude: Northing: +E/-W 0.00 ft Easting: 2,783,358.037 usft Longitude: -107.628844000

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,923.00 ft

0.12 ° **Grid Convergence:**

Wellbore Original Hole Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 8/15/2023 8.53 62.77 49,133.20084693

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

0.00

Plan Survey Tool Program 8/16/2023 Date Depth From Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 17,000.25 MWD rev1 (Original Hole)

OWSG MWD - Standard

Plan Sections Vertical Build Measured Dogleg Turn Depth Inclination Azimuth Depth +N/-S +E/-W Rate Rate Rate TFO (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (ft) (ft) (°) **Target** 0.00 0.000 0.00 0.00 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 -232.05 28.72 1,517.69 -36.66 3.00 0.00 261.02 1,557.27 261.022 3.00 5,758.31 28.72 261.022 5,201.98 -351.69 -2,225.92 0.00 0.00 0.00 0.00 60.00 -2,496.10 10.00 73.58 6,227.36 315.001 5,544.25 -218 11 6 67 11 51 6,287.36 60.00 5,574.25 -181.37 -2,532.84 0.00 0.00 315.001 0.00 0.00 6,583.95 89.66 315.001 5,651.00 18.79 -2,733.00 10.00 10.00 0.00 0.00 -10,098.84 0.00 17,001.12 89.66 315.001 5,713.00 7,384.79 0.00 0.00 0.00 Ridge 129H LTP 237



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

ed Survey									
ieu 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		0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00		0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00		0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00		0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Cs	9								
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
•	3°/100' build								
700.00		261.022	699.95	-0.41	-2.59	1.54	3.00	3.00	0.00
800.00	6.00	261.022	799.63	-1.63	-10.33	6.15	3.00	3.00	0.00
900.00	9.00	261.022	898.77	-3.67	-23.23	13.83	3.00	3.00	0.00
1,000.00		261.022	997.08	-6.51	-41.22	24.54	3.00	3.00	0.00
1,100.00	15.00	261.022	1,094.31	-10.16	-64.28	38.27	3.00	3.00	0.00
1,200.00	18.00	261.022	1,190.18	-14.59	-92.33	54.97	3.00	3.00	0.00
1,300.00	21.00	261.022	1,284.43	-19.80	-125.30	74.60	3.00	3.00	0.00
1,379.46	23.38	261.022	1,358.00	-24.48	-154.94	92.25	3.00	3.00	0.00
Ojo Alamo									
1,400.00	24.00	261.022	1,376.81	-25.77	-163.09	97.10	3.00	3.00	0.00
1,500.00	27.00	261.022	1,467.06	-32.49	-205.61	122.42	3.00	3.00	0.00
1,506.67	27.20	261.022	1,473.00	-32.96	-208.62	124.20	3.00	3.00	0.00
Kirtland									
1,557.27	28.72	261.022	1,517.69	-36.66	-232.05	138.15	3.00	3.00	0.00
Begin 28.7	2° tangent								
1,600.00	28.72	261.022	1,555.16	-39.87	-252.33	150.23	0.00	0.00	0.00
1,700.00	28.72	261.022	1,642.86	-47.37	-299.79	178.48	0.00	0.00	0.00
1,785.68	28.72	261.022	1,718.00	-53.79	-340.45	202.69	0.00	0.00	0.00
Fruitland									
1,800.00	28.72	261.022	1,730.56	-54.86	-347.25	206.74	0.00	0.00	0.00
1,900.00	28.72	261.022	1,818.26	-62.36	-394.71	235.00	0.00	0.00	0.00
2,000.00	28.72	261.022	1,905.96	-69.86	-442.17	263.26	0.00	0.00	0.00
2,100.00	28.72	261.022	1,993.66	-77.36	-489.63	291.51	0.00	0.00	0.00
2,122.05	28.72	261.022	2,013.00	-79.01	-500.10	297.74	0.00	0.00	0.00
Pictured C	liffs								
2,200.00	28.72	261.022	2,081.36	-84.86	-537.09	319.77	0.00	0.00	0.00
2,264.59	28.72	261.022	2,138.00	-89.70	-567.75	338.02	0.00	0.00	0.00
Lewis									
2,300.00	28.72	261.022	2,169.06	-92.36	-584.55	348.03	0.00	0.00	0.00
2,400.00		261.022	2,256.76	-99.86	-632.02	376.28	0.00	0.00	0.00
2,500.00		261.022	2,344.46	-107.36	-679.48	404.54	0.00	0.00	0.00
2,600.00		261.022	2,432.16	-114.85	-726.94	432.80	0.00	0.00	0.00
2,618.07	28.72	261.022	2,448.00	-116.21	-735.51	437.90	0.00	0.00	0.00
Chacra									
2,700.00	28.72	261.022	2,519.86	-122.35	-774.40	461.06	0.00	0.00	0.00
2,800.00		261.022	2,607.56	-129.85	-821.86	489.31	0.00	0.00	0.00
2,900.00		261.022	2,695.26	-137.35	-869.32	517.57	0.00	0.00	0.00
3,000.00		261.022	2,782.95	-144.85	-916.78	545.83	0.00	0.00	0.00
3,100.00	28.72	261.022	2,870.65	-152.35	-964.25	574.08	0.00	0.00	0.00
3,200.00	28.72	261.022	2,958.35	-159.85	-1,011.71	602.34	0.00	0.00	0.00
3,300.00		261.022	3,046.05	-167.35	-1,059.17	630.60	0.00	0.00	0.00
3,400.00		261.022	3,133.75	-174.85	-1,106.63	658.85	0.00	0.00	0.00
3,500.00	28.72	261.022	3,221.45	-182.34	-1,154.09	687.11	0.00	0.00	0.00



Project:

Planning Report

Database: Company: DB_Decv0422v16 Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

sıgn:		rev1								
anne	d Survey									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	3,600.00	28.72	261.022	3,309.15	-189.84	-1,201.55	715.37	0.00	0.00	0.00
	3,700.00 3,800.00 3,872.35	28.72 28.72 28.72	261.022 261.022 261.022	3,396.85 3,484.55 3,548.00	-197.34 -204.84 -210.27	-1,249.01 -1,296.47 -1,330.81	743.63 771.88 792.33	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Cliff House 3,889.45	28.72	261.022	3,563.00	-211.55	-1,338.93	797.16	0.00	0.00	0.00
	Menefee									
	3,900.00	28.72	261.022	3,572.25	-212.34	-1,343.94	800.14	0.00	0.00	0.00
	4,000.00 4,060.49	28.72 28.72	261.022 261.022	3,659.95 3,713.00	-219.84 -224.37	-1,391.40 -1,420.11	828.40 845.49	0.00 0.00	0.00 0.00	0.00 0.00
	9 5/8" Csg									
	4,100.00 4,200.00 4,300.00	28.72 28.72 28.72	261.022 261.022 261.022	3,747.65 3,835.35 3,923.05	-227.34 -234.84 -242.33	-1,438.86 -1,486.32 -1,533.78	856.65 884.91 913.17	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	4,400.00 4,500.00 4,600.00 4,700.00 4,800.00	28.72 28.72 28.72 28.72 28.72	261.022 261.022 261.022 261.022 261.022	4,010.75 4,098.45 4,186.15 4,273.84 4,361.54	-249.83 -257.33 -264.83 -272.33 -279.83	-1,581.24 -1,628.70 -1,676.16 -1,723.63 -1,771.09	941.43 969.68 997.94 1,026.20 1,054.45	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	4,835.87	28.72	261.022	4,393.00	-282.52	-1,788.11	1,064.59	0.00	0.00	0.00
	Point Lookou		201.022	4,393.00	-202.32	-1,700.11	1,004.59	0.00	0.00	0.00
	4,900.00 5,000.00 5,069.62	28.72 28.72 28.72	261.022 261.022 261.022	4,449.24 4,536.94 4,598.00	-287.33 -294.83 -300.05	-1,818.55 -1,866.01 -1,899.05	1,082.71 1,110.97 1,130.64	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	Mancos 5,100.00	28.72	261.022	4,624.64	-302.32	-1,913.47	1,139.23	0.00	0.00	0.00
	5,200.00 5,300.00 5,400.00 5,485.81	28.72 28.72 28.72 28.72	261.022 261.022 261.022 261.022	4,712.34 4,800.04 4,887.74 4,963.00	-309.82 -317.32 -324.82 -331.26	-1,960.93 -2,008.39 -2,055.86 -2,096.58	1,167.48 1,195.74 1,224.00 1,248.25	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	MNCS_A			,		,	,			
	5,500.00	28.72	261.022	4,975.44	-332.32	-2,103.32	1,252.25	0.00	0.00	0.00
	5,582.74 MNCS_B	28.72	261.022	5,048.00	-338.52	-2,142.58	1,275.63	0.00	0.00	0.00
	5,600.00 5,700.00 5,730.97	28.72 28.72 28.72	261.022 261.022 261.022	5,063.14 5,150.84 5,178.00	-339.82 -347.32 -349.64	-2,150.78 -2,198.24 -2,212.94	1,280.51 1,308.77 1,317.52	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	MNCS_C									
	5,758.31	28.72	261.022	5,201.98	-351.69	-2,225.92	1,325.25	0.00	0.00	0.00
	Begin 10°/10	0' build/turn								
	5,800.00 5,817.06	30.14 30.85	269.004 272.059	5,238.30 5,253.00	-353.44 -353.35	-2,246.28 -2,254.94	1,338.41 1,344.59	10.00 10.00	3.41 4.18	19.15 17.91
	MNCS_Cms	20.40	077 507	E 204 05	254.00	0.070.40	1 257 70	40.00	4.70	10.70
	5,850.00 5,900.00 5,906.62	32.42 35.21 35.61	277.587 285.054 285.963	5,281.05 5,322.61 5,328.00	-351.88 -346.37 -345.34	-2,272.13 -2,299.36 -2,303.05	1,357.79 1,380.94 1,384.28	10.00 10.00 10.00	4.76 5.58 6.06	16.78 14.94 13.73
	MNCS_D	33.31		-,-20.00	2 70.0 1	_,_00.00	.,		0.00	
	5,950.00 6,000.00 6,009.61	38.39 41.88 42.58	291.496 297.056 298.036	5,362.65 5,400.89 5,408.00	-336.93 -323.64 -320.65	-2,327.74 -2,357.07 -2,362.79	1,407.68 1,437.82 1,443.98	10.00 10.00 10.00	6.42 6.98 7.28	12.75 11.12 10.20
	MNCS_E									9.53
	6,050.00 6,073.23	45.61 47.40	301.886 303.922	5,437.01 5,453.00	-306.60 -297.44	-2,387.12 -2,401.26	1,471.12 1,487.59	10.00 10.00	7.49 7.72	9.53 8.76



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Design:	:	rev1									
Planne	ed 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)	
	MNCS_F										
	6,100.00 6,150.00 6,200.00 6,227.36	49.51 53.55 57.69 60.00	306.126 309.891 313.278 315.001	5,470.76 5,501.86 5,530.10 5,544.25	-285.94 -261.82 -234.42 -218.11	-2,417.66 -2,448.47 -2,479.30 -2,496.10	1,507.32 1,546.16 1,587.34 1,610.75	10.00 10.00 10.00 10.00	7.88 8.08 8.29 8.43	8.23 7.53 6.77 6.30	
	Begin 60.00°										
	6,234.86	60.00	315.001	5,548.00	-213.52	-2,500.69	1,617.24	0.00	0.00	0.00	
	MNCS_G										
	6,287.36	60.00	315.001	5,574.25	-181.37	-2,532.84	1,662.71	0.00	0.00	0.00	
	6,300.00 6,316.12 MNCS_H	0' build 61.26 62.88	315.001 315.001	5,580.45 5,588.00	-173.58 -163.51	-2,540.63 -2,550.70	1,673.72 1,687.97	10.00 10.00	10.00 10.00	0.00 0.00	
	6,350.00 6,400.00	66.26 71.26	315.001 315.001	5,602.54 5,620.65	-141.88 -108.93	-2,572.33 -2,605.27	1,718.56 1,765.15	10.00 10.00	10.00 10.00	0.00 0.00	
	6.424.43		315.001								
	MNCS_I	73.71		5,628.00	-92.46	-2,621.74	1,788.44	10.00	10.00	0.00	
	6,450.00	76.26	315.001	5,634.63	-75.00	-2,639.21	1,813.14	10.00	10.00	0.00	
	6,500.00 6,550.00	81.26 86.26	315.001 315.001	5,644.36 5,649.79	-40.33 -5.20	-2,673.87 -2,709.01	1,862.16 1,911.85	10.00 10.00	10.00 10.00	0.00 0.00	
	6,583.95	89.66	315.001	5,651.00	18.79	-2,733.00	1,945.78	10.00	10.00	0.00	
	Begin 89.66°	lateral									
	6,600.00	89.66	315.001	5,651.10	30.14	-2,744.35	1,961.82	0.00	0.00	0.00	
	6,700.00	89.66	315.001	5,651.69	100.85	-2,815.05	2,061.82	0.00	0.00	0.00	
	6,800.00	89.66	315.001	5,652.29	171.56	-2,885.76	2,161.82	0.00	0.00	0.00	
	6,900.00 7,000.00	89.66 89.66	315.001 315.001	5,652.88 5,653.48	242.27 312.98	-2,956.47 -3,027.18	2,261.82 2,361.82	0.00 0.00	0.00 0.00	0.00 0.00	
				5,654.07	383.69			0.00			
	7,100.00 7,200.00	89.66 89.66	315.001 315.001	5,654.07 5,654.67	383.69 454.40	-3,097.89 -3,168.60	2,461.82 2,561.81	0.00	0.00 0.00	0.00 0.00	
	7,300.00	89.66	315.001	5,655.26	525.11	-3,239.31	2,661.81	0.00	0.00	0.00	
	7,400.00	89.66	315.001	5,655.86	595.82	-3,310.01	2,761.81	0.00	0.00	0.00	
	7,500.00	89.66	315.001	5,656.45	666.53	-3,380.72	2,861.81	0.00	0.00	0.00	
	7,600.00	89.66	315.001	5,657.05	737.24	-3,451.43	2,961.81	0.00	0.00	0.00	
	7,700.00 7,800.00	89.66 89.66	315.001 315.001	5,657.64 5,658.24	807.95 878.66	-3,522.14 -3,592.85	3,061.80 3,161.80	0.00 0.00	0.00 0.00	0.00 0.00	
	7,900.00	89.66	315.001	5,658.83	949.37	-3,663.56	3,261.80	0.00	0.00	0.00	
	8,000.00	89.66	315.001	5,659.43	1,020.08	-3,734.27	3,361.80	0.00	0.00	0.00	
	8,100.00	89.66	315.001	5,660.02	1,090.79	-3,804.98	3,461.80	0.00	0.00	0.00	
	8,200.00	89.66	315.001	5,660.62	1,161.50	-3,875.68	3,561.80	0.00	0.00	0.00	
	8,300.00	89.66	315.001	5,661.21	1,232.21	-3,946.39	3,661.79	0.00	0.00	0.00	
	8,400.00 8,500.00	89.66 89.66	315.001 315.001	5,661.81 5,662.41	1,302.92 1,373.63	-4,017.10 -4,087.81	3,761.79 3,861.79	0.00 0.00	0.00 0.00	0.00 0.00	
	8,600.00 8,700.00	89.66 89.66	315.001 315.001	5,663.00 5,663.60	1,444.34 1,515.05	-4,158.52 -4,229.23	3,961.79 4,061.79	0.00 0.00	0.00 0.00	0.00 0.00	
	8,800.00	89.66	315.001	5,664.19	1,585.76	-4,229.23	4,161.79	0.00	0.00	0.00	
	8,900.00	89.66	315.001	5,664.79	1,656.47	-4,370.65	4,261.78	0.00	0.00	0.00	
	9,000.00	89.66	315.001	5,665.38	1,727.18	-4,441.35	4,361.78	0.00	0.00	0.00	
	9,100.00	89.66	315.001	5,665.98	1,797.89	-4,512.06	4,461.78	0.00	0.00	0.00	
	9,200.00	89.66	315.001	5,666.57	1,868.60	-4,582.77	4,561.78	0.00	0.00	0.00	
	9,300.00 9,400.00	89.66 89.66	315.001 315.001	5,667.17 5,667.76	1,939.31 2,010.02	-4,653.48 -4,724.19	4,661.78 4,761.77	0.00 0.00	0.00 0.00	0.00 0.00	
	9,500.00	89.66	315.001	5,668.36	2,010.02	-4,724.19 -4,794.90	4,761.77	0.00	0.00	0.00	
	9,600.00	89.66	315.001	5,668.95	2,151.44	-4,865.61	4,961.77	0.00	0.00	0.00	
	5,500.00	09.00	010.001	0,000.00	۷,۱۵۱.	,000.01	7,001.11	0.00	0.00	0.00	



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

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Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

sigii.	IEVI								
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
9,700.00	89.66	315.001	5,669.55	2,222.16	-4,936.32	5,061.77	0.00	0.00	0.00
9,800.00	89.66	315.001	5,670.14	2,292.87	-5,007.02	5,161.77	0.00	0.00	0.00
9,900.00	89.66	315.001	5,670.74	2,363.58	-5,077.73	5,261.77	0.00	0.00	0.00
10,000.00	89.66	315.001	5,671.33	2,434.29	-5,148.44	5,361.76	0.00	0.00	0.00
10,100.00	89.66	315.001	5,671.93	2,505.00	-5,219.15	5,461.76	0.00	0.00	0.00
10,200.00	89.66	315.001	5,672.52	2,575.71	-5,289.86	5,561.76	0.00	0.00	0.00
10,300.00	89.66	315.001	5,673.12	2,646.42	-5,360.57	5,661.76	0.00	0.00	0.00
10,400.00	89.66	315.001	5,673.71	2,717.13	-5,431.28	5,761.76	0.00	0.00	0.00
10,500.00	89.66	315.001	5,674.31	2,787.84	-5,501.98	5,861.76	0.00	0.00	0.00
10,600.00	89.66	315.001	5,674.90	2,858.55	-5,572.69	5,961.75	0.00	0.00	0.00
10,700.00	89.66	315.001	5,675.50	2,929.26	-5,643.40	6,061.75	0.00	0.00	0.00
10,800.00	89.66	315.001	5,676.09	2,999.97	-5,714.11	6,161.75	0.00	0.00	0.00
10,900.00	89.66	315.001	5,676.69	3,070.68	-5,784.82	6,261.75	0.00	0.00	0.00
11,000.00	89.66	315.001	5,677.28	3,141.39	-5,855.53	6,361.75	0.00	0.00	0.00
11 100 00	89.66	315.001	5,677.88	3,212.10	-5,926.24	6 464 74	0.00	0.00	0.00
11,100.00						6,461.74			
11,200.00	89.66	315.001	5,678.47	3,282.81	-5,996.95	6,561.74	0.00	0.00	0.00
11,300.00	89.66	315.001	5,679.07	3,353.52	-6,067.65	6,661.74	0.00	0.00	0.00
11,400.00	89.66	315.001	5,679.66	3,424.23	-6,138.36	6,761.74	0.00	0.00	0.00
11,500.00	89.66	315.001	5,680.26	3,494.94	-6,209.07	6,861.74	0.00	0.00	0.00
11,600.00	89.66	315.001	5,680.86	3,565.65	-6,279.78	6,961.74	0.00	0.00	0.00
11,700.00	89.66	315.001	5,681.45	3,636.36	-6,350.49	7,061.73	0.00	0.00	0.00
11,800.00	89.66	315.001	5,682.05	3,707.07	-6,421.20	7,161.73	0.00	0.00	0.00
11,900.00	89.66	315.001	5,682.64	3,777.78	-6,491.91	7,261.73	0.00	0.00	0.00
12,000.00	89.66	315.001	5,683.24	3,848.49	-6,562.62	7,361.73	0.00	0.00	0.00
12,100.00	89.66	315.001	5,683.83	3,919.20	-6,633.32	7,461.73	0.00	0.00	0.00
12,200.00	89.66	315.001	5,684.43	3,989.91	-6,704.03	7,561.73	0.00	0.00	0.00
12,300.00	89.66	315.001	5,685.02	4,060.62	-6,774.74	7,661.72	0.00	0.00	0.00
12,400.00	89.66	315.001	5,685.62	4,131.33	-6,845.45	7,761.72	0.00	0.00	0.00
12,500.00	89.66	315.001	5,686.21	4,202.04	-6,916.16	7,861.72	0.00	0.00	0.00
40,000,00	00.00	245 004	E 000 04	4 070 75	0.000.07	7.004.70	0.00	0.00	0.00
12,600.00	89.66	315.001	5,686.81	4,272.75	-6,986.87	7,961.72	0.00	0.00	0.00
12,700.00	89.66	315.001	5,687.40	4,343.46	-7,057.58	8,061.72	0.00	0.00	0.00
12,800.00	89.66	315.001	5,688.00	4,414.17	-7,128.29	8,161.71	0.00	0.00	0.00
12,900.00	89.66	315.001	5,688.59	4,484.88	-7,198.99	8,261.71	0.00	0.00	0.00
13,000.00	89.66	315.001	5,689.19	4,555.59	-7,269.70	8,361.71	0.00	0.00	0.00
13,100.00	89.66	315.001	5,689.78	4,626.30	-7,340.41	8,461.71	0.00	0.00	0.00
13,200.00	89.66	315.001	5,690.38	4,697.01	-7,411.12	8,561.71	0.00	0.00	0.00
13,300.00	89.66	315.001	5,690.97	4,767.72	-7,481.83	8,661.71	0.00	0.00	0.00
13,400.00	89.66	315.001	5,691.57	4,838.43	-7,552.54	8,761.70	0.00	0.00	0.00
13,500.00	89.66	315.001	5,692.16	4,909.14	-7,623.25	8,861.70	0.00	0.00	0.00
					-1,023.23				
13,600.00	89.66	315.001	5,692.76	4,979.85	-7,693.95	8,961.70	0.00	0.00	0.00
13,700.00	89.66	315.001	5,693.35	5,050.56	-7,764.66	9,061.70	0.00	0.00	0.00
13,800.00	89.66	315.001	5,693.95	5,121.27	-7,835.37	9,161.70	0.00	0.00	0.00
13,900.00	89.66	315.001	5,694.54	5,191.98	-7,906.08	9,261.69	0.00	0.00	0.00
14,000.00	89.66	315.001	5,695.14	5,262.69	-7,976.79	9,361.69	0.00	0.00	0.00
14,100.00	89.66	315.001	5,695.73	5,333.40	-8,047.50	9,461.69	0.00	0.00	0.00
14,200.00	89.66	315.001	5,696.33	5,404.11	-8,118.21	9,561.69	0.00	0.00	0.00
14,300.00	89.66	315.001	5,696.92	5,474.82	-8,188.92	9,661.69	0.00	0.00	0.00
14,400.00	89.66	315.001	5,697.52	5,545.53	-8,259.62	9,761.69	0.00	0.00	0.00
14,500.00	89.66	315.001	5,698.11	5,616.24	-8,330.33	9,861.68	0.00	0.00	0.00
14,600.00	89.66	315.001	5,698.71	5,686.95	-8,401.04	9,961.68	0.00	0.00	0.00
14,700.00	89.66	315.001	5,699.30	5,757.66	-8,471.75	10,061.68	0.00	0.00	0.00
14,700.00	89.66	315.001	5,699.90	5,828.37	-8,542.46	10,061.68	0.00	0.00	0.00
,				,					
14,900.00	89.66	315.001	5,700.50	5,899.08	-8,613.17	10,261.68	0.00	0.00	0.00
15,000.00	89.66	315.001	5,701.09	5,969.79	-8,683.88	10,361.68	0.00	0.00	0.00



Database: DB_Decv0422v16
Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,100.00	89.66	315.001	5,701.69	6,040.50	-8,754.59	10,461.67	0.00	0.00	0.00
15,200.00	89.66	315.001	5,702.28	6,111.21	-8,825.29	10,561.67	0.00	0.00	0.00
15,300.00	89.66	315.001	5,702.88	6,181.92	-8,896.00	10,661.67	0.00	0.00	0.00
15,400.00	89.66	315.001	5,703.47	6,252.63	-8,966.71	10,761.67	0.00	0.00	0.00
15,500.00	89.66	315.001	5,704.07	6,323.34	-9,037.42	10,861.67	0.00	0.00	0.00
15,600.00	89.66	315.001	5,704.66	6,394.05	-9,108.13	10,961.66	0.00	0.00	0.00
15,700.00	89.66	315.001	5,705.26	6,464.76	-9,178.84	11,061.66	0.00	0.00	0.00
15,800.00	89.66	315.001	5,705.85	6,535.47	-9,249.55	11,161.66	0.00	0.00	0.00
15,900.00	89.66	315.001	5,706.45	6,606.18	-9,320.26	11,261.66	0.00	0.00	0.00
16,000.00	89.66	315.001	5,707.04	6,676.89	-9,390.96	11,361.66	0.00	0.00	0.00
16,100.00	89.66	315.001	5,707.64	6,747.60	-9,461.67	11,461.66	0.00	0.00	0.00
16,200.00	89.66	315.001	5,708.23	6,818.31	-9,532.38	11,561.65	0.00	0.00	0.00
16,300.00	89.66	315.001	5,708.83	6,889.02	-9,603.09	11,661.65	0.00	0.00	0.00
16,400.00	89.66	315.001	5,709.42	6,959.73	-9,673.80	11,761.65	0.00	0.00	0.00
16,500.00	89.66	315.001	5,710.02	7,030.44	-9,744.51	11,861.65	0.00	0.00	0.00
16,600.00	89.66	315.001	5,710.61	7,101.16	-9,815.22	11,961.65	0.00	0.00	0.00
16,700.00	89.66	315.001	5,711.21	7,171.87	-9,885.92	12,061.65	0.00	0.00	0.00
16,800.00	89.66	315.001	5,711.80	7,242.58	-9,956.63	12,161.64	0.00	0.00	0.00
16,900.00	89.66	315.001	5,712.40	7,313.29	-10,027.34	12,261.64	0.00	0.00	0.00
17,001.12	89.66	315.001	5,713.00	7,384.79	-10,098.84	12,362.76	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ridge 129H FTP 2383 F - plan misses target (- Point	0.00 center by 0.01	0.000 ft at 6583.90	5,651.00 Oft MD (5651	18.75 .00 TVD, 18.	-2,732.96 75 N, -2732.96	1,923,430.439 6 E)	2,780,625.079	36.285915000	-107.638117000
Ridge 129H LTP 237 FN - plan hits target cent - Point	0.00 ter	0.000	5,713.00	7,384.79	-10,098.84	1,930,796.463	2,773,259.216	36.306188000	-107.663066000

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	
	4,060.49	3,713.00	9 5/8" Csg		9-5/8	12-1/4	



Database: DB_Decv0422v16
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Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

rmations							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)
	1,379.46	1,358.00	Ojo Alamo				
	1,506.67	1,473.00	Kirtland				
	1,785.68	1,718.00	Fruitland				
	2,122.05	2,013.00	Pictured Cliffs				
	2,264.59	2,138.00	Lewis				
	2,618.07	2,448.00	Chacra				
	3,872.35	3,548.00	Cliff House				
	3,889.45	3,563.00	Menefee				
	4,835.87	4,393.00	Point Lookout				
	5,069.62	4,598.00	Mancos				
	5,485.81	4,963.00	MNCS_A				
	5,582.74	5,048.00	MNCS_B				
	5,730.97	5,178.00	MNCS_C				
	5,817.06	5,253.00	MNCS_Cms				
	5,906.62	5,328.00	MNCS_D				
	6,009.61	5,408.00	MNCS_E				
	6,073.23	5,453.00	MNCS_F				
	6,234.86	5,548.00	MNCS_G				
	6,316.12	5,588.00	MNCS_H				
	6,424.43	5,628.00	MNCS_I				

Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
600.00	600.00	0.00	0.00	KOP Begin 3°/100' build
1,557.27	1,517.69	-36.66	-232.05	Begin 28.72° tangent
5,758.31	5,201.98	-351.69	-2,225.92	Begin 10°/100' build/turn
6,227.36	5,544.25	-218.11	-2,496.10	Begin 60.00° tangent
6,287.36	5,574.25	-181.37	-2,532.84	Begin 10°/100' build
6,583.95	5,651.00	18.79	-2,733.00	Begin 89.66° lateral
17,001.12	5,713.00	7,384.79	-10,098.84	PBHL/TD @ 17001.12 MD 5713.00 TVD

49,133.20084693



Planning Report - Geographic

DB Decv0422v16 Database: Company: **Enduring Resources LLC**

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H Wellbore: Original Hole Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft

RKB=6923+25 @ 6948.00ft

Minimum Curvature

62.77

315.001

Project San Juan County, New Mexico NAD83 NM W

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: Map Zone:

New Mexico Western Zone

Mean Sea Level System Datum:

Site Ridge Unit (124, 127, 128 & 129)

1,923,411.454 usft Northing: Site Position: Latitude: 36.285847000 2,783,418.160 usft Lat/Long Easting: -107.628640000 From: Longitude:

0.00 ft 13-3/16 " **Position Uncertainty:** Slot Radius:

Well Ridge Unit No. 129H, Surf loc: 2371 FNL 1292 FEL Section 25-T24N-R08W

Well Position +N/-S 0.00 ft Northing: 1,923,411.691 usft Latitude: 36.285848000 +E/-W 0.00 ft Easting: 2,783,358.037 usft Longitude: -107.628844000

0.00 ft 6,923.00 ft Wellhead Elevation: ft Ground Level: **Position Uncertainty**

0.12° **Grid Convergence:**

Wellbore Original Hole Declination **Model Name** Sample Date Dip Angle Field Strength Magnetics (nT) (°) (°)

8.53

0.00

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

0.00

Plan Survey Tool Program Date 8/16/2023

Depth From Depth To

(ft) (ft) Survey (Wellbore) **Tool Name** Remarks

0.00

8/15/2023

0.00 17,000.25 rev1 (Original Hole) MWD

IGRF2020

OWSG MWD - Standard

Plan Sections Measured Vertical Dogleg Build Turn Depth Depth +N/-S +E/-W Inclination Azimuth Rate Rate Rate TFO (°/100ft) (°/100ft) (ft) (ft) (°/100ft) (°) (°) (ft) (ft) **Target** (°) 0.000 0.00 0.00 0.00 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 1,557.27 28.72 261.022 1,517.69 -36.66 -232.05 3.00 3.00 0.00 261.02 5,758.31 28.72 261.022 5,201.98 -351.69 -2,225.92 0.00 0.00 0.00 0.00 6.227.36 60.00 315.001 5.544.25 -218.11 -2.496.10 10.00 6.67 11.51 73.58 0.00 0.00 6,287.36 60.00 315.001 5,574.25 -181.37 -2,532.84 0.00 0.00 10.00 10.00 0.00 6,583.95 89.66 315.001 5,651.00 18.79 -2.733.000.00 17,001.12 89.66 315.001 5,713.00 7,384.79 -10,098.84 0.00 0.00 0.00 0.00 Ridge 129H LTP 237



Planning Report - Geographic

Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
100.00	0.00	0.000	100.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
200.00	0.00	0.000	200.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
300.00	0.00	0.000	300.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
350.00	0.00	0.000	350.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
13 3/8" (•	0.000	400.00	0.00	0.00	1 000 444 604	0.700.050.007	26 205040000	-107.628844000
400.00 500.00	0.00	0.000 0.000	400.00 500.00	0.00 0.00	0.00 0.00	1,923,411.691 1,923,411.691	2,783,358.037 2,783,358.037	36.285848000 36.285848000	-107.628844000
600.00	0.00	0.000	600.00	0.00	0.00	1,923,411.691	2,783,358.037	36.285848000	-107.628844000
	gin 3°/100' bui		000.00	0.00	0.00	1,020,111.001	2,700,000.007	00.2000 10000	107.020011000
700.00	3.00	261.022	699.95	-0.41	-2.59	1,923,411.282	2,783,355.451	36.285846893	-107.628852775
800.00	6.00	261.022	799.63	-1.63	-10.33	1,923,410.058	2,783,347.702	36.285843575	-107.628879076
900.00	9.00	261.022	898.77	-3.67	-23.23	1,923,408.021	2,783,334.811	36.285838055	-107.628922832
1,000.00	12.00	261.022	997.08	-6.51	-41.22	1,923,405.178	2,783,316.813	36.285830347	-107.628983921
1,100.00	15.00	261.022	1,094.31	-10.16	-64.28	1,923,401.535	2,783,293.757	36.285820474	-107.629062177
1,200.00	18.00	261.022	1,190.18	-14.59	-92.33	1,923,397.103	2,783,265.707	36.285808462	-107.629157386
1,300.00	21.00	261.022	1,284.43	-19.80	-125.30	1,923,391.894	2,783,232.739	36.285794344	-107.629269285
1,379.46	23.38	261.022	1,358.00	-24.48	-154.94	1,923,387.211	2,783,203.097	36.285781650	-107.629369898
Ojo Alan									
1,400.00	24.00	261.022	1,376.81	-25.77	-163.09	1,923,385.923	2,783,194.944	36.285778159	-107.629397569
1,500.00	27.00	261.022	1,467.06	-32.49	-205.61	1,923,379.205	2,783,152.425	36.285759950	-107.629541886
1,506.67	27.20	261.022	1,473.00	-32.96	-208.62	1,923,378.730	2,783,149.422	36.285758664	-107.629552080
Kirtland	00.70	004.000	4 547 00	00.00	000.05	4 000 075 000	0.700.405.000	00 005740000	407.00004000
1,557.27	28.72	261.022	1,517.69	-36.66	-232.05	1,923,375.028	2,783,125.992	36.285748630	-107.629631606
1,600.00	3.72° tangent 28.72	261.022	1,555.16	-39.87	-252.33	1,923,371.824	0.700.405.740	26 205720045	-107.629700440
1,700.00	28.72	261.022	1,642.86	-39.67 -47.37	-232.33 -299.79	1,923,364.325	2,783,105.712 2,783,058.251	36.285739945 36.285719620	-107.629861533
1,785.68	28.72	261.022	1,718.00	-53.79	-340.45	1,923,357.901	2,783,017.587	36.285702206	-107.629999552
Fruitland		201.022	1,7 10.00	00.70	0 10.10	1,020,001.001	2,700,017.007	00.2007 02200	107.020000002
1,800.00	28.72	261.022	1,730.56	-54.86	-347.25	1,923,356.827	2,783,010.790	36.285699294	-107.630022626
1,900.00	28.72	261.022	1,818.26	-62.36	-394.71	1,923,349.328	2,782,963.328	36.285678969	-107.630183718
2,000.00	28.72	261.022	1,905.96	-69.86	-442.17	1,923,341.829	2,782,915.867	36.285658643	-107.630344810
2,100.00	28.72	261.022	1,993.66	-77.36	-489.63	1,923,334.330	2,782,868.406	36.285638316	-107.630505903
2,122.05	28.72	261.022	2,013.00	-79.01	-500.10	1,923,332.677	2,782,857.939	36.285633834	-107.630541429
Pictured	Cliffs								
2,200.00	28.72	261.022	2,081.36	-84.86	-537.09	1,923,326.831	2,782,820.945	36.285617990	-107.630666995
2,264.59	28.72	261.022	2,138.00	-89.70	-567.75	1,923,321.988	2,782,790.292	36.285604862	-107.630771037
Lewis									
2,300.00	28.72	261.022	2,169.06	-92.36	-584.55	1,923,319.333	2,782,773.483	36.285597663	-107.630828087
2,400.00	28.72	261.022	2,256.76	-99.86	-632.02	1,923,311.834	2,782,726.022	36.285577336	-107.630989179
2,500.00	28.72	261.022	2,344.46	-107.36	-679.48	1,923,304.335	2,782,678.561	36.285557009	-107.631150271
2,600.00	28.72	261.022	2,432.16	-114.85	-726.94	1,923,296.836	2,782,631.100	36.285536682	-107.631311363
2,618.07	28.72	261.022	2,448.00	-116.21	-735.51	1,923,295.482	2,782,622.526	36.285533010	-107.631340465
Chacra	20.72	261 022	2 510 96	100.25	-774.40	1 000 000 000	2 702 502 620	26 205516254	107 621472455
2,700.00 2,800.00	28.72 28.72	261.022 261.022	2,519.86 2,607.56	-122.35 -129.85	-774.40 -821.86	1,923,289.338 1,923,281.839	2,782,583.638 2,782,536.177	36.285516354 36.285496026	-107.631472455 -107.631633547
2,900.00	28.72	261.022	2,695.26	-129.65	-869.32	1,923,274.340	2,782,488.716	36.285475698	-107.631794638
3,000.00	28.72	261.022	2,782.95	-144.85	-916.78	1,923,266.841	2,782,441.255	36.285455370	-107.631955730
3,100.00	28.72	261.022	2,870.65	-152.35	-964.25	1,923,259.342	2,782,393.794	36.285435042	-107.632116822
3,200.00	28.72	261.022	2,958.35	-159.85	-1,011.71	1,923,251.844	2,782,346.332	36.285414713	-107.632277913
3,300.00	28.72	261.022	3,046.05	-167.35	-1,059.17	1,923,244.345	2,782,298.871	36.285394384	-107.632439004
3,400.00	28.72	261.022	3,133.75	-174.85	-1,106.63	1,923,236.846	2,782,251.410	36.285374055	-107.632600096
3,500.00	28.72	261.022	3,221.45	-182.34	-1,154.09	1,923,229.347	2,782,203.949	36.285353726	-107.632761187



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Enduring Resources LLC

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MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

_									
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,600.00	28.72	261.022	3,309.15	-189.84	-1,201.55	1,923,221.849	2,782,156.487	36.285333397	-107.632922278
3,700.00	28.72	261.022	3,396.85	-197.34	-1,249.01	1,923,214.350	2,782,109.026	36.285313067	-107.633083369
3,800.00	28.72	261.022	3,484.55	-204.84	-1,296.47	1,923,206.851	2,782,061.565	36.285292737	-107.633244460
3,872.35	28.72	261.022	3,548.00	-210.27	-1,330.81	1,923,201.426	2,782,027.227	36.285278028	-107.633361008
Cliff Hou	se								
3,889.45	28.72	261.022	3,563.00	-211.55	-1,338.93	1,923,200.143	2,782,019.109	36.285274551	-107.633388561
Menefee									
3,900.00	28.72	261.022	3,572.25	-212.34	-1,343.94	1,923,199.352	2,782,014.104	36.285272407	-107.633405551
4,000.00	28.72	261.022	3,659.95	-219.84	-1,391.40	1,923,191.853	2,781,966.642	36.285252076	-107.633566641
4,060.49	28.72	261.022	3,713.00	-224.37	-1,420.11	1,923,187.317	2,781,937.932	36.285239778	-107.633664089
9 5/8" Cs	•								
4,100.00	28.72	261.022	3,747.65	-227.34	-1,438.86	1,923,184.355	2,781,919.181	36.285231746	-107.633727732
4,200.00	28.72	261.022	3,835.35	-234.84	-1,486.32	1,923,176.856	2,781,871.720	36.285211415	-107.633888823
4,300.00	28.72	261.022	3,923.05	-242.33	-1,533.78	1,923,169.357	2,781,824.259	36.285191084	-107.634049913
4,400.00	28.72	261.022	4,010.75	-249.83	-1,581.24	1,923,161.858	2,781,776.798	36.285170753	-107.634211004
4,500.00	28.72	261.022	4,098.45	-257.33	-1,628.70	1,923,154.359	2,781,729.336	36.285150421	-107.634372094
4,600.00	28.72	261.022	4,186.15	-264.83	-1,676.16	1,923,146.861	2,781,681.875	36.285130090	-107.634533184
4,700.00	28.72	261.022	4,273.84	-272.33	-1,723.63	1,923,139.362	2,781,634.414	36.285109758	-107.634694275
4,800.00	28.72	261.022	4,361.54	-279.83	-1,771.09	1,923,131.863	2,781,586.953	36.285089426	-107.634855365
4,835.87	28.72	261.022	4,393.00	-282.52	-1,788.11	1,923,129.174	2,781,569.929	36.285082133	-107.634913144
Point Lo 4,900.00	28.72	261.022	4,449.24	-287.33	-1,818.55	1,923,124.364	2,781,539.491	36.285069093	-107.635016455
5,000.00	28.72	261.022	4,449.24	-294.83	-1,866.01	1,923,116.866	2,781,492.030	36.285048761	-107.635177545
5,069.62	28.72	261.022	4,598.00	-300.05	-1,899.05	1,923,111.645	2,781,458.987	36.285034605	-107.635289696
Mancos	20.72	201.022	1,000.00	000.00	1,000.00	1,020,111.010	2,701,100.007	00.200001000	101.000200000
5,100.00	28.72	261.022	4,624.64	-302.32	-1,913.47	1,923,109.367	2,781,444.569	36.285028428	-107.635338634
5,200.00	28.72	261.022	4,712.34	-309.82	-1,960.93	1,923,101.868	2,781,397.108	36.285008095	-107.635499724
5,300.00	28.72	261.022	4,800.04	-317.32	-2,008.39	1,923,094.369	2,781,349.646	36.284987762	-107.635660814
5,400.00	28.72	261.022	4,887.74	-324.82	-2,055.86	1,923,086.870	2,781,302.185	36.284967428	-107.635821904
5,485.81	28.72	261.022	4,963.00	-331.26	-2,096.58	1,923,080.435	2,781,261.456	36.284949979	-107.635960142
MNCS_A									
5,500.00	28.72	261.022	4,975.44	-332.32	-2,103.32	1,923,079.372	2,781,254.724	36.284947095	-107.635982993
5,582.74	28.72	261.022	5,048.00	-338.52	-2,142.58	1,923,073.167	2,781,215.456	36.284930271	-107.636116273
MNCS_B	}								
5,600.00	28.72	261.022	5,063.14	-339.82	-2,150.78	1,923,071.873	2,781,207.263	36.284926761	-107.636144083
5,700.00	28.72	261.022	5,150.84	-347.32	-2,198.24	1,923,064.374	2,781,159.802	36.284906427	-107.636305172
5,730.97	28.72	261.022	5,178.00	-349.64	-2,212.94	1,923,062.052	2,781,145.103	36.284900129	-107.636355062
MNCS_C	;								
5,758.31	28.72	261.022	5,201.98	-351.69	-2,225.92	1,923,060.001	2,781,132.126	36.284894569	-107.636399106
_	°/100' build/tu								
5,800.00	30.14	269.004	5,238.30	-353.44	-2,246.28	1,923,058.256	2,781,111.760	36.284889888	-107.636468222
5,817.06	30.85	272.059	5,253.00	-353.35	-2,254.94	1,923,058.338	2,781,103.106	36.284890163	-107.636497584
MNCS_C									
5,850.00	32.42	277.587	5,281.05	-351.88	-2,272.13	1,923,059.808	2,781,085.907	36.284894296	-107.636555930
5,900.00	35.21	285.054	5,322.61	-346.37	-2,299.36	1,923,065.325	2,781,058.686	36.284909603	-107.636648255
5,906.62	35.61	285.963	5,328.00	-345.34	-2,303.05	1,923,066.350	2,781,054.992	36.284912439	-107.636660779
MNCS_D		204 400	E 200 05	220.02	0 207 74	1 000 074 704	0.704.000.000	26 204025000	407 600744404
5,950.00	38.39	291.496	5,362.65	-336.93 -323.64	-2,327.74	1,923,074.764	2,781,030.303	36.284935690	-107.636744494
6,000.00 6,009.61	41.88 42.58	297.056	5,400.89 5,408.00		-2,357.07 -2,362.79	1,923,088.053	2,781,000.974	36.284972360 36.284980597	-107.636843915
		298.036	5,408.00	-320.65	-2,502.18	1,923,091.040	2,780,995.249	30.204800381	-107.636863320
MNCS_E 6,050.00	45.61	301.886	5,437.01	-306.60	-2,387.12	1,923,105.092	2,780,970.924	36.285019334	-107.636945760
0,000.00	40.01	001.000	J, T J1.U1	-500.00	-2,001.12	1,020,100.002	2,100,310.324	30.203013334	-101.000340100



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

igii.	1641								
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									<u> </u>
6,073.23	47.40	303.922	5,453.00	-297.44	-2,401.26	1,923,114.247	2,780,956.782	36.285044563	-107.636993
MNCS_F									
6,100.00	49.51	306.126	5,470.76	-285.94	-2,417.66	1,923,125.750	2,780,940.380	36.285076254	-107.637049
6,150.00	53.55	309.891	5,501.86	-261.82	-2,448.47	1,923,149.871	2,780,909.574	36.285142686	-107.637153
6,200.00	57.69	313.278	5,530.10	-234.42	-2,479.30	1,923,177.270	2,780,878.742	36.285218126	-107.637258
6,227.36	60.00	315.001	5,544.25	-218.11	-2,496.10	1,923,193.578	2,780,861.943	36.285263018	-107.637314
-	.00° tangent	045.004	5 5 40 00	040.50	0.500.00	4 000 400 474	0.700.057.054	00 005075000	407.007000
6,234.86	60.00	315.001	5,548.00	-213.52	-2,500.69	1,923,198.171	2,780,857.351	36.285275660	-107.637330
MNCS_G									
6,287.36	60.00	315.001	5,574.25	-181.37	-2,532.84	1,923,230.321	2,780,825.202	36.285364157	-107.637439
_	°/100' build								
6,300.00	61.26	315.001	5,580.45	-173.58	-2,540.63	1,923,238.110	2,780,817.414	36.285385595	-107.637465
6,316.12	62.88	315.001	5,588.00	-163.51	-2,550.70	1,923,248.183	2,780,807.341	36.285413322	-107.637499
MNCS_H									
6,350.00	66.26	315.001	5,602.54	-141.88	-2,572.33	1,923,269.813	2,780,785.711	36.285472862	-107.637573
6,400.00	71.26	315.001	5,620.65	-108.93	-2,605.27	1,923,302.757	2,780,752.768	36.285563545	-107.637684
6,424.43	73.71	315.001	5,628.00	-92.46	-2,621.74	1,923,319.227	2,780,736.298	36.285608880	-107.637740
MNCS_I									
6,450.00	76.26	315.001	5,634.63	-75.00	-2,639.21	1,923,336.692	2,780,718.834	36.285656954	-107.637799
6,500.00	81.26	315.001	5,644.36	-40.33	-2,673.87	1,923,371.359	2,780,684.168	36.285752378	-107.637916
6,550.00	86.26	315.001	5,649.79	-5.20	-2,709.01	1,923,406.495	2,780,649.033	36.285849091	-107.638035
6,583.95	89.66	315.001	5,651.00	18.79	-2,733.00	1,923,430.484	2,780,625.045	36.285915123	-107.638117
_	.66° lateral	0.15.004	5.054.40	00.44	0.744.05	4 000 444 004	0.700.040.007	00 0050 10050	407.00045
6,600.00	89.66	315.001	5,651.10	30.14	-2,744.35	1,923,441.831	2,780,613.697	36.285946359	-107.63815
6,700.00	89.66	315.001	5,651.69	100.85	-2,815.05	1,923,512.541	2,780,542.989	36.286140994	-107.638394
6,800.00	89.66	315.001	5,652.29	171.56	-2,885.76	1,923,583.251	2,780,472.280	36.286335628	-107.638634
6,900.00	89.66	315.001	5,652.88	242.27	-2,956.47	1,923,653.961	2,780,401.572	36.286530263	-107.638873
7,000.00 7,100.00	89.66 89.66	315.001 315.001	5,653.48 5,654.07	312.98 383.69	-3,027.18 -3,097.89	1,923,724.671 1,923,795.381	2,780,330.863 2,780,260.154	36.286724896 36.286919529	-107.639113 -107.639352
7,100.00	89.66	315.001	5,654.67	454.40	-3,168.60	1,923,866.091	2,780,280.134	36.287114162	-107.639592
7,200.00	89.66	315.001	5,655.26	525.11	-3,239.31	1,923,936.801	2,780,189.446	36.287308794	-107.639831
7,400.00	89.66	315.001	5,655.86	595.82	-3,310.01	1,924,007.511	2,780,048.029	36.287503426	-107.64007
7,500.00	89.66	315.001	5,656.45	666.53	-3,380.72	1,924,007.311	2,779,977.320	36.287698057	-107.640310
7,600.00	89.66	315.001	5,657.05	737.24	-3,451.43	1,924,148.931	2,779,906.612	36.287892688	-107.640549
7,700.00	89.66	315.001	5,657.64	807.95	-3,522.14	1,924,219.641	2,779,835.903	36.288087318	-107.640789
7,800.00	89.66	315.001	5,658.24	878.66	-3,592.85	1,924,290.351	2,779,765.195	36.288281948	-107.641028
7,900.00	89.66	315.001	5,658.83	949.37	-3,663.56	1,924,361.061	2,779,694.486	36.288476577	-107.641268
8,000.00	89.66	315.001	5,659.43	1,020.08	-3,734.27	1,924,431.771	2,779,623.777	36.288671206	-107.641507
8,100.00	89.66	315.001	5,660.02	1,090.79	-3,804.98	1,924,502.481	2,779,553.069	36.288865834	-107.641747
8,200.00	89.66	315.001	5,660.62	1,161.50	-3,875.68	1,924,573.191	2,779,482.360	36.289060462	-107.641986
8,300.00	89.66	315.001	5,661.21	1,232.21	-3,946.39	1,924,643.901	2,779,411.652	36.289255090	-107.642226
8,400.00	89.66	315.001	5,661.81	1,302.92	-4,017.10	1,924,714.611	2,779,340.943	36.289449717	-107.64246
8,500.00	89.66	315.001	5,662.41	1,373.63	-4,087.81	1,924,785.321	2,779,270.235	36.289644343	-107.642705
8,600.00	89.66	315.001	5,663.00	1,444.34	-4,158.52	1,924,856.031	2,779,199.526	36.289838969	-107.642944
8,700.00	89.66	315.001	5,663.60	1,515.05	-4,229.23	1,924,926.741	2,779,128.817	36.290033594	-107.643183
8,800.00	89.66	315.001	5,664.19	1,585.76	-4,299.94	1,924,997.451	2,779,058.109	36.290228219	-107.643423
8,900.00	89.66	315.001	5,664.79	1,656.47	-4,370.65	1,925,068.161	2,778,987.400	36.290422844	-107.643662
9,000.00	89.66	315.001	5,665.38	1,727.18	-4,441.35	1,925,138.871	2,778,916.692	36.290617468	-107.643902
9,100.00	89.66	315.001	5,665.98	1,797.89	-4,512.06	1,925,209.581	2,778,845.983	36.290812091	-107.644141
9,200.00	89.66	315.001	5,666.57	1,868.60	-4,582.77	1,925,280.291	2,778,775.275	36.291006714	-107.644381
9,300.00	89.66	315.001	5,667.17	1,939.31	-4,653.48	1,925,351.001	2,778,704.566	36.291201337	-107.644620
9,400.00	89.66	315.001	5,667.76	2,010.02	-4,724.19	1,925,421.711	2,778,633.857	36.291395959	-107.644860
9,500.00	89.66	315.001	5,668.36	2,080.73	-4,794.90	1,925,492.421	2,778,563.149	36.291590581	-107.645099
9,600.00	89.66	315.001	5,668.95	2,151.44	-4,865.61	1,925,563.131	2,778,492.440	36.291785202	-107.645339



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,700.00	89.66	315.001	5,669.55	2,222.16	-4,936.32	1,925,633.841	2,778,421.732	36.291979822	-107.645578629
9,800.00	89.66	315.001	5,670.14	2,222.10	-4,930.32 -5,007.02	1,925,704.551	2,778,351.023	36.292174442	-107.645818102
9,900.00	89.66	315.001	5,670.74	2,363.58	-5,007.02	1,925,775.261	2,778,280.315	36.292369062	-107.646057577
10,000.00	89.66	315.001	5,671.33	2,434.29	-5,077.73 -5,148.44	1,925,845.971	2,778,209.606	36.292563681	-107.646297053
10,100.00	89.66	315.001	5,671.93	2,505.00	-5,219.15	1,925,916.681	2,778,138.898	36.292758300	-107.646536530
10,200.00	89.66	315.001	5,672.52	2,575.71	-5,289.86	1,925,987.391	2,778,068.189	36.292952918	-107.646776008
10,300.00	89.66	315.001	5,673.12	2,646.42	-5,360.57	1,926,058.101	2,777,997.480	36.293147536	-107.647015488
10,400.00	89.66	315.001	5,673.71	2,717.13	-5,431.28	1,926,128.811	2,777,926.772	36.293342153	-107.647254968
10,500.00	89.66	315.001	5,674.31	2,787.84	-5,501.98	1,926,199.521	2,777,856.063	36.293536770	-107.647494450
10,600.00	89.66	315.001	5,674.90	2,858.55	-5,572.69	1,926,270.231	2,777,785.355	36.293731386	-107.647733933
10,700.00	89.66	315.001	5,675.50	2,929.26	-5,643.40	1,926,340.941	2,777,714.646	36.293926002	-107.647973417
10,800.00	89.66	315.001	5,676.09	2,999.97	-5,714.11	1,926,411.651	2,777,643.938	36.294120617	-107.648212903
10,900.00	89.66	315.001	5,676.69	3,070.68	-5,784.82	1,926,482.362	2,777,573.229	36.294315232	-107.648452388
11,000.00	89.66	315.001	5,677.28	3,141.39	-5,855.53	1,926,553.072	2,777,502.520	36.294509847	-107.648691876
11,100.00	89.66	315.001	5,677.88	3,212.10	-5,926.24	1,926,623.782	2,777,431.812	36.294704460	-107.648931365
11,200.00	89.66	315.001	5,678.47	3,282.81	-5,996.95	1,926,694.492	2,777,361.103	36.294899074	-107.649170855
11,300.00	89.66	315.001	5,679.07	3,353.52	-6,067.65	1,926,765.202	2,777,290.395	36.295093687	-107.649410347
11,400.00	89.66	315.001	5,679.66	3,424.23	-6,138.36	1,926,835.912	2,777,219.686	36.295288298	-107.649649839
11,500.00	89.66	315.001	5,680.26	3,494.94	-6,209.07	1,926,906.622	2,777,148.978	36.295482910	-107.649889333
11,600.00	89.66	315.001	5,680.86	3,565.65	-6,279.78	1,926,977.332	2,777,078.269	36.295677522	-107.650128828
11,700.00	89.66	315.001	5,681.45	3,636.36	-6,350.49	1,927,048.042	2,777,007.561	36.295872133	-107.650368324
11,800.00	89.66	315.001	5,682.05	3,707.07	-6,421.20	1,927,118.752	2,776,936.852	36.296066743	-107.650607821
11,900.00	89.66	315.001	5,682.64	3,777.78	-6,491.91	1,927,189.462	2,776,866.143	36.296261353	-107.650847320
12,000.00	89.66	315.001	5,683.24	3,848.49	-6,562.62	1,927,260.172	2,776,795.435	36.296455963	-107.651086819
12,100.00	89.66	315.001	5,683.83	3,919.20	-6,633.32	1,927,330.882	2,776,724.726	36.296650572	-107.651326320
12,200.00	89.66	315.001	5,684.43	3,989.91	-6,704.03	1,927,401.592	2,776,654.018	36.296845180	-107.651565822
12,300.00	89.66	315.001	5,685.02	4,060.62	-6,774.74	1,927,472.302	2,776,583.309	36.297039788	-107.651805325
12,400.00	89.66	315.001	5,685.62	4,131.33	-6,845.45	1,927,543.012	2,776,512.601	36.297234396	-107.652044830
12,500.00	89.66	315.001	5,686.21	4,202.04	-6,916.16	1,927,613.722	2,776,441.892	36.297429003	-107.652284336
12,600.00	89.66	315.001	5,686.81	4,272.75	-6,986.87	1,927,684.432	2,776,371.183	36.297623610	-107.652523842
12,700.00	89.66	315.001	5,687.40	4,343.46	-7,057.58	1,927,755.142	2,776,300.475	36.297818216	-107.652763350
12,800.00	89.66	315.001	5,688.00	4,414.17	-7,128.29	1,927,825.852	2,776,229.766	36.298012821	-107.653002860
12,900.00	89.66	315.001	5,688.59	4,484.88	-7,198.99	1,927,896.562	2,776,159.058	36.298207427	-107.653242370
13,000.00	89.66	315.001	5,689.19	4,555.59	-7,269.70	1,927,967.272	2,776,088.349	36.298402031	-107.653481882
13,100.00	89.66	315.001	5,689.78	4,626.30	-7,340.41	1,928,037.982	2,776,017.641	36.298596635	-107.653721394
13,200.00	89.66	315.001	5,690.38	4,697.01	-7,411.12	1,928,108.692	2,775,946.932	36.298791239	-107.653960908
13,300.00	89.66	315.001	5,690.97	4,767.72	-7,481.83	1,928,179.402	2,775,876.224	36.298985842	-107.654200423
13,400.00	89.66	315.001	5,691.57	4,838.43	-7,552.54	1,928,250.112	2,775,805.515	36.299180445	-107.654439940
13,500.00	89.66	315.001	5,692.16	4,909.14	-7,623.25	1,928,320.822	2,775,734.806	36.299375048	-107.654679457
13,600.00	89.66	315.001	5,692.76	4,979.85	-7,693.95	1,928,391.532	2,775,664.098	36.299569649	-107.654918976
13,700.00	89.66	315.001	5,693.35	5,050.56	-7,764.66	1,928,462.242	2,775,593.389	36.299764251	-107.655158496
13,800.00	89.66	315.001	5,693.95	5,121.27	-7,835.37	1,928,532.952	2,775,522.681	36.299958851	-107.655398017
13,900.00	89.66	315.001	5,694.54	5,191.98	-7,906.08	1,928,603.662	2,775,451.972	36.300153452	-107.655637539
14,000.00	89.66	315.001	5,695.14	5,262.69	-7,976.79	1,928,674.372	2,775,381.264	36.300348052	-107.655877063
14,100.00	89.66	315.001	5,695.73	5,333.40	-8,047.50	1,928,745.082	2,775,310.555	36.300542651	-107.656116587
14,200.00	89.66	315.001	5,696.33	5,404.11	-8,118.21	1,928,815.792	2,775,239.846	36.300737250	-107.656356113
14,300.00	89.66	315.001	5,696.92	5,474.82	-8,188.92	1,928,886.502	2,775,169.138	36.300931848	-107.656595640
14,400.00	89.66	315.001	5,697.52	5,545.53	-8,259.62	1,928,957.212	2,775,098.429	36.301126446	-107.656835168
14,500.00	89.66	315.001	5,698.11	5,616.24	-8,330.33	1,929,027.922	2,775,027.721	36.301321044	-107.657074698
14,600.00	89.66	315.001	5,698.71	5,686.95	-8,401.04	1,929,098.632	2,774,957.012	36.301515641	-107.657314228
14,700.00	89.66	315.001	5,699.30	5,757.66	-8,471.75	1,929,169.342	2,774,886.304	36.301710237	-107.657553760
14,800.00	89.66	315.001	5,699.90	5,828.37	-8,542.46	1,929,240.052	2,774,815.595	36.301904833	-107.657793293
14,900.00	89.66	315.001	5,700.50	5,899.08	-8,613.17	1,929,310.762	2,774,744.886	36.302099429	-107.658032827
15,000.00	89.66	315.001	5,701.09	5,969.79	-8,683.88	1,929,381.472	2,774,674.178	36.302294024	-107.658272363
15,100.00	89.66	315.001	5,701.69	6,040.50	-8,754.59	1,929,452.182	2,774,603.469	36.302488618	-107.658511899



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,200.00	89.66	315.001	5,702.28	6,111.21	-8,825.29	1,929,522.892	2,774,532.761	36.302683212	-107.658751437
15,300.00	89.66	315.001	5,702.88	6,181.92	-8,896.00	1,929,593.602	2,774,462.052	36.302877806	-107.658990976
15,400.00	89.66	315.001	5,703.47	6,252.63	-8,966.71	1,929,664.312	2,774,391.344	36.303072399	-107.659230516
15,500.00	89.66	315.001	5,704.07	6,323.34	-9,037.42	1,929,735.022	2,774,320.635	36.303266992	-107.659470058
15,600.00	89.66	315.001	5,704.66	6,394.05	-9,108.13	1,929,805.732	2,774,249.927	36.303461584	-107.659709600
15,700.00	89.66	315.001	5,705.26	6,464.76	-9,178.84	1,929,876.442	2,774,179.218	36.303656176	-107.659949144
15,800.00	89.66	315.001	5,705.85	6,535.47	-9,249.55	1,929,947.152	2,774,108.509	36.303850767	-107.660188689
15,900.00	89.66	315.001	5,706.45	6,606.18	-9,320.26	1,930,017.862	2,774,037.801	36.304045357	-107.660428235
16,000.00	89.66	315.001	5,707.04	6,676.89	-9,390.96	1,930,088.572	2,773,967.092	36.304239948	-107.660667782
16,100.00	89.66	315.001	5,707.64	6,747.60	-9,461.67	1,930,159.282	2,773,896.384	36.304434537	-107.660907330
16,200.00	89.66	315.001	5,708.23	6,818.31	-9,532.38	1,930,229.992	2,773,825.675	36.304629127	-107.661146880
16,300.00	89.66	315.001	5,708.83	6,889.02	-9,603.09	1,930,300.702	2,773,754.967	36.304823715	-107.661386431
16,400.00	89.66	315.001	5,709.42	6,959.73	-9,673.80	1,930,371.412	2,773,684.258	36.305018304	-107.661625983
16,500.00	89.66	315.001	5,710.02	7,030.44	-9,744.51	1,930,442.122	2,773,613.549	36.305212891	-107.661865536
16,600.00	89.66	315.001	5,710.61	7,101.16	-9,815.22	1,930,512.832	2,773,542.841	36.305407479	-107.662105091
16,700.00	89.66	315.001	5,711.21	7,171.87	-9,885.92	1,930,583.542	2,773,472.132	36.305602066	-107.662344646
16,800.00	89.66	315.001	5,711.80	7,242.58	-9,956.63	1,930,654.252	2,773,401.424	36.305796652	-107.662584203
16,900.00	89.66	315.001	5,712.40	7,313.29	-10,027.34	1,930,724.962	2,773,330.715	36.305991238	-107.662823761
17,001.12	89.66	315.001	5,713.00	7,384.79	-10,098.84	1,930,796.463	2,773,259.216	36.306188000	-107.663066000
PBHL/TD	0 @ 17001.12	MD 5713.00 T	ΓVD						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ridge 129H FTP 2383 F - plan misses target - Point		0.000 ft at 6583.90	5,651.00 Oft MD (5651	18.75 .00 TVD, 18.7	-2,732.96 75 N, -2732.96	1,923,430.439 3 E)	2,780,625.079	36.285915000	-107.638117000
Ridge 129H LTP 237 FN - plan hits target cer - Point		0.000	5,713.00	7,384.79	-10,098.84	1,930,796.463	2,773,259.216	36.306188000	-107.663066000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 4,060.49		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (124, 127, 128 & 129)

Well: Ridge Unit No. 129H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Measured	Vertical					Dip
Depth	Depth				Dip	Direction
(ft)	(ft)		Name	Lithology	(°)	(°)
1,379.46	1,358.00	Ojo Alamo				
1,506.67	1,473.00	Kirtland				
1,785.68	1,718.00	Fruitland				
2,122.05	2,013.00	Pictured Cliffs				
2,264.59	2,138.00	Lewis				
2,618.07	2,448.00	Chacra				
3,872.35	3,548.00	Cliff House				
3,889.45	3,563.00	Menefee				
4,835.87	4,393.00	Point Lookout				
5,069.62	4,598.00	Mancos				
5,485.81	4,963.00	MNCS_A				
5,582.74	5,048.00	MNCS_B				
5,730.97	5,178.00	MNCS_C				
5,817.06	5,253.00	MNCS_Cms				
5,906.62	5,328.00	MNCS_D				
6,009.61	5,408.00	MNCS_E				
6,073.23	5,453.00	MNCS_F				
6,234.86	5,548.00	MNCS_G				
6,316.12	5,588.00	MNCS_H				
6,424.43	5,628.00	MNCS_I				

Plan Annotations					
Measured	Vertical	Local Co	ordinates		
Depth (ft)	Depth (ft)	+N/-S	+E/-W	Comment	
(11)	(11)	(ft)	(ft)	Comment	
600.0	0 600.00	0.00	0.00	KOP Begin 3°/100' build	
1,557.2	7 1,517.69	-36.66	-232.05	Begin 28.72° tangent	
5,758.3	1 5,201.98	-351.69	-2,225.92	Begin 10°/100' build/turn	
6,227.3	6 5,544.25	-218.11	-2,496.10	Begin 60.00° tangent	
6,287.3	6 5,574.25	-181.37	-2,532.84	Begin 10°/100' build	
6,583.9	5 5,651.00	18.79	-2,733.00	Begin 89.66° lateral	
17,001.1	2 5,713.00	7,384.79	-10,098.84	PBHL/TD @ 17001.12 MD 5713.00 TVD	



TVD Reference:

MD Reference:

Offset TVD Reference:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore
Reference Design: rev1

Local Co-ordinate Reference:

te Reference: Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Offset Datum

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma

Database: DB_Decv0422v16

Reference rev

Filter type: GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference

Interpolation Method: MD Interval 100.00ft Error Model: ISCWSA

Depth Range:UnlimitedScan Method:Closest Approach 3DResults Limited by:Maximum centre distance of 1,900.11ftError 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
 17,000.25 rev1 (Original Hole)
 MWD
 OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Factor	Warning
NW Lybrook (138, 139, 140 & 141)						
NW Lybrook Unit 139H - Original Hole - rev0 NW Lybrook Unit 139H - Original Hole - rev0	6,021.34 6,100.00	7,726.32 7,678.58	552.44 561.19	458.17 463.47	5.860 CC, ES 5.743 SF	
Ridge Unit (124, 127, 128 & 129)						
Ridge Unit No. 124H - Original Hole - rev1 Ridge Unit No. 124H - Original Hole - rev1 Ridge Unit No. 127H - Original Hole - rev1 Ridge Unit No. 127H - Original Hole - rev1 Ridge Unit No. 128H - Original Hole - rev1 Ridge Unit No. 128H - Original Hole - rev1	600.00 800.00 600.00 700.00 600.00 15,847.56	600.00 799.63 600.00 699.95 600.00 16,534.20	60.12 70.47 40.08 42.67 20.04 1,156.35	56.27 65.20 36.23 38.11 16.19 653.56	15.602 CC, ES 13.376 SF 10.401 CC, ES 9.354 SF 5.201 CC, ES 2.300 SF	
Ridge Unit (130, 135, 136 & 137)						
Ridge Unit No. 130H - Original Hole - rev1	17,001.12	16,222.20	1,156.44	651.85	2.292 CC, ES	, SF

Offset Des	sign: NV	V Lybrook (138, 139,	140 & 141)	- NW Lyl	brook Unit 1	139H - Original F	lole - rev0					Offset Site Error:	0.00 ft
Survey Progr Refer	ram: 0- rence	MWD Off	set	Semi N	lajor Axis		Offset Wellbo	re Centre	Dis	Rule Assi	gned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
					72.08	-142.16		-1,547.30	1,822.61	1.771.87		35.925		
4,300.00	3,923.05	8,553.41	5,573.94	32.54			-825.03			, ,	50.73			
4,400.00	4,010.75	8,506.50	5,573.68	33.51	70.97	-140.95	-824.73	-1,594.22	1,736.89	1,685.57	51.31	33.848		
4,500.00	4,098.45	8,459.58	5,573.41	34.47	69.87	-139.64	-824.43	-1,641.13	1,651.44	1,599.47	51.97	31.775		
4,600.00	4,186.15	8,412.66	5,573.15	35.44	68.77	-138.22	-824.12	-1,688.05	1,566.31	1,513.59	52.72	29.709		
4,700.00	4,273.84	8,365.75	5,572.88	36.41	67.67	-136.66	-823.82	-1,734.96	1,481.55	1,427.97	53.58	27.650		
4,800.00	4,361.54	8,318.83	5,572.62	37.38	66.57	-134.96	-823.52	-1,781.87	1,397.24	1,342.67	54.57	25.605		
4,900.00	4,449.24	8,271.92	5,572.35	38.35	65.48	-133.11	-823.21	-1,828.79	1,313.45	1,257.74	55.70	23.579		
5,000.00	4,536.94	8,225.00	5,572.09	39.32	64.39	-131.07	-822.91	-1,875.70	1,230.29	1,173.27	57.02	21.576		
5,100.00	4,624.64	8,178.08	5,571.82	40.29	63.31	-128.83	-822.60	-1,922.62	1,147.90	1,089.35	58.55	19.605		
5,200.00	4,712.34	8,131.17	5,571.56	41.26	62.22	-126.37	-822.30	-1,969.53	1,066.46	1,006.12	60.35	17.673		
5,300.00	4,800.04	8,084.25	5,571.29	42.23	61.14	-123.66	-822.00	-2,016.44	986.20	923.74	62.46	15.789		
5,400.00	4.887.74	8,037.34	5.571.03	43.20	60.07	-120.67	-821.69	-2,063.36	907.45	842.48	64.96	13.968		
5,500.00	4.975.44	7.990.42	5,570,76	44.17	59.00	-117.38	-821.39	-2.110.27	830.61	762.67	67.94	12.225		
5,600.00	5,063.14	7,943.51	5,570.50	45.14	57.94	-113.77	-821.09	-2,110.27	756.29	684.79	71.49	10.579		
5,700.00	5.150.84	7.896.59	5,570.23	46.11	56.87	-109.81	-820.78	-2,204.10	685.29	609.58	75.71	9.052		
5,800.00	5,238.30	7.849.08	5.569.97	47.09	55.81	-112.47	-820.48	-2,251.61	619.96	539.23	80.73	7.680		
5,800.00	5,236.30	1,049.06	5,509.97	47.09	JJ.01	-112.47	-020.40	-2,201.01	019.90	559.25	00.73	1.000		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Well Ridge Unit No. 129H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: DB_Decv0422v16
Offset TVD Reference: Offset Datum

Offset De	sign: NV	V Lybrook (138, 139,	140 & 141)	- NW Lyl	brook Unit 1	39H - Original I	Hole - rev0					Offset Site Error:	0.00 ft
Survey Progr		MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo		Dis Between	tance Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
5,900.00	5,322.61	7,796.44	5,569.67	48.14	54.63	-121.66	-820.14	-2,304.25	573.45	486.56	86.90	6.599		
6,000.00	5,400.89	7,739.03	5,569.34	49.25	53.35	-126.47	-819.76	-2,361.66	553.10	459.99	93.11	5.941		
6,021.34	5,416.58	7,726.32	5,569.27	49.48	53.07	-127.00	-819.68	-2,374.37	552.44	458.17	94.27	5.860 CC, I	ES	
6,100.00	5,470.76	7,678.58	5,569.00	50.37	52.02	-127.65	-819.37	-2,422.10	561.19	463.47	97.72	5.743 SF		
6,200.00	5,530.10	7,616.95	5,568.66	51.49	50.67	-125.81	-818.97	-2,483.73	595.69	495.62	100.07	5.953		
6,300.00	5,580.45	7,555.52	5,568.31	52.60	49.34	-120.79	-818.58	-2,545.16	648.16	547.39	100.78	6.432		
6,400.00	5,620.65	7,490.68	5,567.94	53.80	47.95	-109.83	-818.16	-2,610.00	709.62	608.95	100.67	7.049		
6,500.00	5,644.36	7,421.77	5,567.55	55.11	46.50	-98.45	-817.71	-2,678.90	777.40	677.00	100.40	7.743		
6,600.00	5,651.10	7,350.89	5,567.15	56.49	45.02	-89.58	-817.25	-2,749.78	847.45	747.20	100.24	8.454		
6,700.00	5,651.69	7,279.73	5,566.75	57.92	43.56	-89.55	-816.79	-2,820.94	917.70	817.54	100.16	9.162		
6,800.00	5,652.29	7,208.57	5,566.35	59.40	42.14	-89.53	-816.33	-2,892.10	987.96	887.84	100.12	9.868		
6,900.00	5,652.88	7,137.41	5,565.95	60.93	40.75	-89.50	-815.87	-2,963.26	1,058.22	958.10	100.12	10.569		
7,000.00	5,653.48	7,066.25	5,565.55	62.51	39.41	-89.49	-815.41	-3,034.41	1,128.48	1,028.32	100.16	11.267		
7,100.00	5,654.07	6,995.09	5,565.14	64.13	38.13	-89.47	-814.95	-3,105.57	1,198.74	1,098.51	100.23	11.960		
7,200.00	5,654.67	6,929.31	5,564.77	65.79	37.04	-89.45	-814.55	-3,171.34	1,269.03	1,168.60	100.43	12.636		
7,300.00	5,655.26	6,881.03	5,564.50	67.48	36.30	-89.45	-814.85	-3,219.62	1,340.19	1,239.32	100.86	13.287		
7,400.00	5,655.86	6,834.37	5,564.24	69.22	35.67	-89.44	-815.91	-3,266.27	1,412.50	1,311.23	101.27	13.948		
7,500.00	5,656.45	6,800.00	5,564.04	70.98	35.29	-89.43	-817.18	-3,300.62	1,485.96	1,384.24	101.72	14.608		
7,600.00	5,657.05	6,745.68	5,563.73	72.78	34.81	-89.43	-820.02	-3,354.86	1,560.35	1,458.33	102.03	15.293		
7,700.00	5,657.64	6,700.00	5,563.48	74.60	34.57	-89.42	-823.21	-3,400.43	1,635.80	1,533.44	102.36	15.980		
7,800.00	5,658.24	6,662.80	5,563.26	76.45	34.42	-89.42	-826.35	-3,437.49	1,712.18	1,609.45	102.72	16.668		
7,900.00	5,658.83	6,623.41	5,563.04	78.33	34.33	-89.41	-830.19	-3,476.70	1,789.45	1,686.40	103.05	17.364		
8,000.00	5,659.43	6,600.00	5,562.91	80.23	34.30	-89.41	-832.73	-3,499.97	1,867.68	1,764.31	103.37	18.068		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Well Ridge Unit No. 129H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: DB_Decv0422v16
Offset TVD Reference: Offset Datum

urvey Progr	·am: 0.1	ИWD								Rule Assi	anod:		Offset Well Error:	0.00
Refer	rence	Off			lajor Axis		Offset Wellb	ore Centre		ance	_			0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	90.23	-0.24	60.12	60.12	(11)	(10)			
100.00	100.00	100.00	100.00	0.13	0.13	90.23	-0.24	60.12	60.12	59.85	0.27	223.629		
200.00	200.00	200.00	200.00	0.13	0.13	90.23	-0.24	60.12	60.12	59.14	0.27	60.990		
300.00	300.00	300.00	300.00	0.45	0.45	90.23	-0.24	60.12	60.12	58.42	1.70	35.310		
400.00	400.00	400.00	400.00	1.21	1.21	90.23	-0.24	60.12	60.12	57.70	2.42	24.848		
500.00	500.00	500.00	500.00	1.57	1.57	90.23	-0.24	60.12	60.12	56.99	3.14	19.168		
300.00	300.00	300.00	300.00	1.57	1.57	90.23	-0.24	00.12	00.12	30.99	3.14	19.100		
600.00	600.00	600.00	600.00	1.93	1.93	90.23	-0.24	60.12	60.12	56.27	3.85	15.602 CC, E	S	
700.00	699.95	699.95	699.95	2.28	2.29	-171.17	-0.24	60.12	62.71	58.15	4.56	13.747		
800.00	799.63	799.63	799.63	2.63	2.64	-172.11	-0.24	60.12	70.47	65.20	5.27	13.376 SF		
900.00	898.77	898.77	898.77	2.99	3.00	-173.30	-0.24	60.12	83.42	77.44	5.98	13.950		
1,000.00	997.08	997.08	997.08	3.39	3.35	-174.44	-0.24	60.12	101.54	94.85	6.69	15.171		
1,100.00	1,094.31	1,088.95	1,088.92	3.83	3.68	-175.78	0.77	61.93	126.80	119.42	7.38	17.172		
1,200.00	1,190.18	1,176.66	1,176.41	4.32	3.99	-177.37	3.73	67.26	161.23	153.18	8.04	20.041		
1,300.00	1,284.43	1,259.38	1,258.58	4.87	4.29	-178.86	8.30	75.50	204.39	195.72	8.67	23.579		
1,400.00	1,376.81	1,336.36	1,334.62	5.51	4.57	179.86	14.11	85.95	255.72	246.46	9.25	27.638		
1,500.00	1,467.06	1,407.11	1,404.03	6.23	4.84	178.78	20.76	97.91	314.53	304.74	9.79	32.120		
1,600.00	1,555.16	1,471.63	1,466.85	7.03	5.11	177.91	27.90	110.77	379.77	369.48	10.29	36.893		
1,700.00	1,642.86	1,532.11	1,525.25	7.89	5.37	177.22	35.53	124.50	448.02	437.28	10.29	41.718		
1,800.00	1,730.56	1,589.19	1,579.89	8.77	5.63	176.63	43.55	138.94	518.43	507.27	11.16	46.465		
1,900.00 2,000.00	1,818.26 1,905.96	1,643.07 1,700.00	1,630.99 1,684.43	9.66 10.57	5.89 6.18	176.12 175.62	51.85 61.37	153.87 171.01	590.81 665.05	579.25 653.04	11.56 12.00	51.113 55.407		
_,	.,	.,	.,											
2,100.00	1,993.66	1,741.93	1,723.41	11.49	6.41	175.27	68.88	184.52	740.88	728.58	12.30	60.234		
2,200.00	2,081.36	1,800.00	1,776.81	12.42	6.74	174.81	79.96	204.46	818.42	805.64	12.78	64.039		
2,300.00	2,169.06	1,830.11	1,804.22	13.36	6.93	174.59	86.01	215.35	897.09	884.12	12.97	69.169		
2,400.00	2,256.76	1,870.62	1,840.78	14.30	7.19	174.30	94.48	230.60	977.20	963.92	13.28	73.580		
2,500.00	2,344.46	1,908.94	1,875.01	15.24	7.44	174.03	102.84	245.65	1,058.50	1,044.92	13.58	77.967		
2,600.00	2,432.16	1,953.93	1,914.82	16.19	7.75	173.73	113.02	263.96	1,140.81	1,126.85	13.96	81.732		
2,700.00	2,519.86	2,010.31	1,964.65	17.14	8.16	173.40	125.83	287.03	1,223.31	1,208.83	14.47	84.517		
2,800.00	2,607.56	2,066.69	2,014.47	18.10	8.58	173.10	138.65	310.09	1,305.82	1,290.82	15.00	87.067		
2,900.00	2,695.26	2,123.07	2,064.30	19.05	9.01	172.85	151.47	333.16	1,388.34	1,372.81	15.53	89.418		
3,000.00	2,782.95	2,179.45	2,114.12	20.01	9.45	172.62	164.28	356.22	1,470.87	1,454.81	16.06	91.583		
3,100.00	2,870.65	2,235.83	2,163.95	20.97	9.89	172.42	177.10	379.29	1,553.40	1,536.80	16.60	93.579		
3,200.00	2,958.35	2,235.63	2,163.95	21.93	10.34	172.42	189.91	402.36	1,635.40	1,618.80	17.14	95.431		
3,300.00	3,046.05	2,348.59	2,263.60	22.89	10.80	172.07	202.73	425.42	1,718.49	1,700.80	17.69	97.140		
3,400.00 3,500.00	3,133.75 3,221.45	2,404.97 2,461.35	2,313.42 2,363.25	23.85 24.81	11.26 11.73	171.92 171.78	215.54 228.36	448.49 471.55	1,801.04 1,883.59	1,782.79 1,864.79	18.24 18.80	98.733 100.209		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DB_Decv0422v16

Offset TVD Reference: Offset Datum

urvey Prog	ram: 0-l	MWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.00	0.00	89.88	0.08	40.08	40.08					
100.00	100.00	100.00	100.00	0.13	0.13	89.88	0.08	40.08	40.08	39.81	0.27	149.083		
200.00	200.00	200.00	200.00	0.49	0.49	89.88	0.08	40.08	40.08	39.10	0.99	40.659		
300.00	300.00	300.00	300.00	0.85	0.85	89.88	0.08	40.08	40.08	38.38	1.70	23.540		
400.00	400.00	400.00	400.00	1.21	1.21	89.88	0.08	40.08	40.08	37.66	2.42	16.565		
500.00	500.00	500.00	500.00	1.57	1.57	89.88	0.08	40.08	40.08	36.95	3.14	12.779		
600.00	600.00	600.00	600.00	1.93	1.93	89.88	0.08	40.08	40.08	36.23	3.85	10.401 CC, E	s	
700.00	699.95	699.95	699.95	2.28	2.29	-171.67	0.08	40.08	42.67	38.11	4.56	9.354 SF		
800.00	799.63	799.63	799.63	2.63	2.64	-172.93	0.08	40.08	50.45	45.18	5.27	9.575		
900.00	898.77	898.77	898.77	2.99	3.00	-174.35	0.08	40.08	63.42	57.44	5.98	10.606		
1,000.00	997.08	997.08	997.08	3.39	3.35	-175.56	0.08	40.08	81.57	74.88	6.69	12.188		
1,100.00	1,094.31	1,094.31	1,094.31	3.83	3.70	-176.51	0.08	40.08	104.86	97.46	7.41	14.158		
1,200.00	1,190.18	1,185.03	1,185.01	4.32	4.01	-176.73	-0.70	41.80	134.95	126.86	8.09	16.684		
1,300.00	1,284.43	1,271.21	1,270.98	4.87	4.31	-176.19	-3.11	47.05	173.68	164.94	8.73	19.885		
1,400.00	1,376.81	1,352.23	1,351.50	5.51	4.59	-175.36	-6.85	55.20	220.57	211.22	9.35	23.600		
1,500.00	1,467.06	1,427.49	1,425.89	6.23	4.86	-174.44	-11.59	65.54	275.05	265.13	9.92	27.719		
1,600.00	1,555.16	1,500.00	1,497.08	7.03	5.13	-173.61	-17.31	78.02	336.17	325.67	10.49	32.034		
1,700.00	1,642.86	1,562.24	1,557.74	7.89	5.38	-172.99	-23.12	90.68	400.37	389.41	10.96	36.538		
1,800.00	1,730.56	1,624.28	1,617.72	8.77	5.64	-172.36	-29.73	105.08	466.87	455.44	11.43	40.856		
1,900.00	1,818.26	1,683.09	1,674.08	9.66	5.91	-171.76	-36.74	120.36	535.48	523.61	11.88	45.088		
2,000.00	1,905.96	1,745.55	1,733.40	10.57	6.20	-171.15	-44.87	138.10	605.90	593.52	12.38	48.926		
2,100.00	1,993.66	1,816.07	1,800.30	11.49	6.55	-170.58	-54.18	158.39	676.66	663.66	12.99	52.079		
2,200.00	2,081.36	1,886.59	1,867.19	12.42	6.92	-170.12	-63.49	178.69	747.44	733.83	13.61	54.908		
2,300.00	2,169.06	1,957.11	1,934.08	13.36	7.30	-169.73	-72.80	198.98	818.24	804.00	14.24	57.451		
2,400.00	2,256.76	2,027.63	2,000.98	14.30	7.68	-169.41	-82.10	219.27	889.06	874.18	14.88	59.748		
2,500.00	2,344.46	2,098.15	2,067.87	15.24	8.08	-169.14	-91.41	239.57	959.89	944.37	15.52	61.829		
2,600.00	2,432.16	2,168.67	2,134.77	16.19	8.48	-168.90	-100.72	259.86	1,030.73	1,014.56	16.18	63.715		
2,700.00	2,519.86	2,239.19	2,201.66	17.14	8.89	-168.69	-110.03	280.15	1,101.58	1,084.75	16.83	65.435		
2,800.00	2,607.56	2,309.72	2,268.55	18.10	9.30	-168.51	-119.34	300.44	1,172.44	1,154.94	17.50	67.007		
2,900.00	2,695.26	2,380.24	2,335.45	19.05	9.72	-168.35	-128.64	320.74	1,243.29	1,225.13	18.16	68.445		
3,000.00	2,782.95	2,450.76	2,402.34	20.01	10.14	-168.21	-137.95	341.03	1,314.16	1,295.32	18.84	69.766		
3,100.00	2,870.65	2,521.28	2,469.23	20.97	10.57	-168.08	-147.26	361.32	1,385.03	1,365.51	19.51	70.984		
3,200.00	2,958.35	2,591.80	2,536.13	21.93	11.00	-167.96	-156.57	381.62	1,455.90	1,435.71	20.19	72.108		
3,300.00	3,046.05	2,662.32	2,603.02	22.89	11.43	-167.86	-165.88	401.91	1,526.77	1,505.90	20.87	73.147		
3,400.00	3,133.75	2,732.84	2,669.91	23.85	11.87	-167.76	-175.18	422.20	1,597.65	1,576.09	21.56	74.112		
3,500.00	3,221.45	2,803.36	2,736.81	24.81	12.30	-167.67	-184.49	442.50	1,668.52	1,646.28	22.24	75.009		
3,600.00	3,309.15	2,873.88	2,803.70	25.78	12.74	-167.59	-193.80	462.79	1,739.40	1,716.47	22.93	75.843		
3,700.00	3,396.85	2,944.40	2,870.59	26.74	13.18	-167.52	-203.11	483.08	1,810.29	1,786.66	23.63	76.621		
3,800.00	3,484.55	3,014.92	2,937.49	27.71	13.62	-167.45	-212.41	503.38	1,881.17	1,856.85	24.32	77.350		



Company: **Enduring Resources LLC**

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

0.00 ft Site Error:

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft Grid

Well Ridge Unit No. 129H

North Reference:

Survey Calculation Method: Output errors are at DB Decv0422v16 Database:

Offset TVD Reference:

Minimum Curvature 2.00 sigma

Offset Datum

Ridge Unit (124, 127, 128 & 129) - Ridge Unit No. 128H - Original Hole - rev1 Offset Design: Offset Site Error: 0.00 ft Survey Program: Reference Measured Vertical 0.00 ft 0-MWD Offset Well Error: Rule Assigned: Distance en Between Offset Measured Vertical Semi Major Axis ence Offset Offset Wellbore Centre Highside Minimum Separation Warning +N/-S +E/-W Depth Depth Depth Depth Toolface Centres Ellipses Separation Factor (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft) (°) (ft) (ft) (ft) 0.00 0.04 20.04 0.00 0.00 0.00 0.00 0.00 89.88 20.04 100.00 100.00 100.00 100.00 0.13 0.13 89.88 0.04 20.04 20.04 19.77 0.27 74.542 20.330 200.00 200.00 200.00 200.00 89.88 20.04 20.04 19.06 0.99 0.49 0.49 0.04 300.00 300.00 300.00 300.00 0.85 0.85 89 88 0.04 20.04 20.04 18 34 1 70 11 770 400.00 400.00 400.00 400.00 1.21 1.21 89.88 0.04 20.04 20.04 17.62 2.42 8.282 500.00 500.00 500.00 500.00 1.57 1.57 89.88 0.04 20.04 20.04 16.90 3.14 6.389 600.00 600.00 600.00 600.00 1.93 89 88 0.04 20.04 16.19 3.85 5.201 CC. ES 1.93 20.04 700.00 699.95 699.95 699.95 2.28 2.29 -172.15 0.04 20.04 22.63 18.07 4.56 4.961 799.63 799.63 799.63 2.63 2.64 -174.15 0.04 20.04 30.42 25.15 5.27 5.775 800.00 900.00 898.77 898.77 898.77 2.99 3.00 -175.870.04 20.04 43.43 37.45 5.98 7.263 1,000.00 997.08 997.08 997.08 3.39 -177.07 0.04 20.04 61.61 54.92 6.69 9.206 3.35 1.100.00 1.098.16 1.098.11 3.83 3.70 -177.09 -1.32 17.92 82.76 75.36 7.40 11.190 1.094.31 1.200.00 1.190.18 1.200.23 1.199.86 4 32 4.05 -175 89 -5.62 11.21 104.38 96 29 8 09 12 902 1,300.00 1,284.43 1,303.16 1,301.89 4.87 4.41 -174.07 -12.92 -0.17 126.52 117.73 8.80 14.385 1,400.00 1,376.81 1,406.91 1,403.83 5.51 4.80 -171.91 -23.27 -16.31 149.27 139.75 9.52 15.678 -169.91 -34.96 163.55 16.886 1.500.00 1.467.06 1.505.71 1.500.12 6.23 5.19 -35.22173.84 10.30 1.555.16 1.600.00 1.601.33 1.593.26 7.03 5.60 -168.67 -46.91 -53.19 202.86 191.77 11.10 18.278 1,700.00 1,642.86 1,696.72 1,686.16 -167.86 -58.57 -71.38 232.74 220.83 11.91 19.539 7.89 6.02 1 800 00 1 730 56 1 792 10 1 779 07 8 77 6 45 -167 23 -70 23 -89 57 262 66 249 91 12 74 20,609 1,900.00 1,818.26 1,887.49 1,871.98 -166.73 -81.89 -107.75 292.59 279.00 13.59 21.523 9.66 6.89 2,000.00 1,905.96 1,982.87 1,964.89 10.57 7.33 -166.32 -93.55 -125.94 322.55 308.09 14.46 22.308 2,057.80 11.49 22.988 2.100.00 1.993.66 2.078.26 7.79 -165.99 -105.21 -144.13 352.51 337.18 15.33 2,200.00 2,081.36 2,173.65 2,150.70 12.42 8.24 -165.70 -116.87 -162.31 382.48 366.26 16.22 23.581 2,300.00 2.169.06 2,269.03 2.243.61 13.36 8.71 -165.46 -128.54 -180.50 412.47 395.35 17.11 24.101 2.400.00 2.256.76 2.364.42 2.336.52 14.30 9.17 -165.25 -140.20-198.68 442.45 424.44 18.02 24.559 2,500.00 2,344.46 2,459.81 2,429.43 15.24 -165.07 -151.86 -216.87 472.45 453.52 18.92 24.966 9.64 2,600.00 2,432.16 2,555.19 2,522.33 16.19 10.12 -164.90 -163.52 -235.06 502.44 482.61 19.84 25.329 2.700.00 2 519 86 2.650.58 2 615 24 17.14 10.59 -164 76 -175.18 -253 24 532 44 511 69 20.75 25 655 2,800.00 2,607.56 2,745.96 2,708.15 18.10 11.07 -164.63 -186.84 -271.43 562.44 540.77 21.68 25.949 2,900.00 2,695.26 2,841.35 2,801.06 19.05 11.55 -164.52 -198.50 -289.61 592.45 569.85 22.60 26.214 3.000.00 2.782.95 2.936.74 2.893.96 20.01 12.03 -164.41 -210.16 -307.80 622.45 598.92 23.53 26.456 -221.82 3,100.00 2,870.65 3,032.12 2,986.87 20.97 12.51 -164.32 -325.99 652.46 628.00 24.46 26.676 3,200.00 2,958.35 3,127.51 3,079.78 21.93 -164.23 -233.48 -344.17 682.47 657.08 25.39 26.877 13.00 3.300.00 3.046.05 3.222.90 3.172.69 22.89 13.48 -164.15 -245.14 -362.36 712.48 686.15 26.33 27.061 3,265.59 3,400.00 3,133.75 3,318.28 23.85 13.97 -164.08 -256.80 -380.55 742.49 715.23 27.27 27.231 3,500.00 3,221.45 3,413.67 3,358.50 24.81 14.45 -164.01 -268.46 -398.73 772.51 744.30 28.21 27.388 3,600.00 3,309.15 3.509.05 3.451.41 25.78 14.94 -163.95 -280.12 -416 92 802 52 773 37 29.15 27.533 3,544.32 -291.78 3,700.00 3,396.85 3,604.44 26.74 15.43 -163.89 -435.10 832.53 802.44 30.09 27.667 3,800.00 3,484.55 3,699.83 3,637.22 27.71 15.92 -163.84 -303.44 -453.29 862.55 831.51 31.04 27.793 3.900.00 3.572.25 3.795.21 3.730.13 28.67 16.41 -163.79-315.10 -471.48 892.56 860.58 31.98 27.909 4,000.00 3,659.95 3,890.60 3,823.04 29.64 16.90 -163.74 -326.76 -489.66 922.58 889.65 32.93 28.018 3,747.65 3,985.98 -163.70 -338.42 4,100.00 3,915.95 30.60 17.39 -507.85 952.60 918.72 33.88 28.120 4.200.00 3 835 35 4 081 37 4 008 85 31.57 17 88 -163 66 -350.08 -526 04 982 61 947 79 34 82 28 216 976.86 3,923.05 4,176.76 4,101.76 -361.74 4,300.00 32.54 18.37 -163.62 -544.22 1,012.63 35.77 28.306 4,400.00 4,010.75 4,272.14 4,194.67 33.51 18.86 -163.59 -373.40 -562.41 1,042.65 1,005.93 36.73 28.391 28.471 4.500.00 4.098.45 4.367.53 4.287.58 34.47 19.36 -163.55 -385.06 -580.59 1.072.67 1.034.99 37.68 4,600.00 4,186.15 4,462.92 4,380.49 -396.72 35.44 19.85 -163.52 -598.78 1,102.69 1,064.06 38.63 28.546 4,700.00 4,273.84 4,542.78 -406.33 1,093.61 4,458.34 36.41 20.25 -163.50 -613.76 1,133.04 39.44 28.730 4.800.00 4.361.54 4.600.00 4.514.46 37.38 20.53 -163.55 -412.34-623.141.165.65 1.125.64 40.01 29.137 4,900.00 4,449.24 4,670.28 4,583.82 38.35 20.84 -163.67 -418.48 -632.71 1,200.64 1,160.00 40.63 29.548 4,732.05 5,000.00 4,536.94 4,645.07 39.32 21.10 -163.85 -422.73 -639.34 1,238.05 1,196.91 41.14 30.096 4,624.64 41.66 5,100.00 4,800.00 40.29 21.36 -164.10 -426.17 -644.71 1,277.83 1,236.18 30.675 4,712.72

8/16/2023 9:54:15AM



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at DB_Decv0422v16

Database: Offset TVD Reference: Offset Datum

	sign: Kid												Offset Site Error:	0.00 ft
Survey Progr Refer	ram: 0-l	MWD Offs	set	Semi M	ajor Axis		Offset Wellb	ore Centre	Diet	Rule Assi	gned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,200.00	4,712.34	6,487.17	5,663.10	41.26	32.97	155.07	282.62	-1,361.17	1,270.69	1,222.43	48.25	26.333		
5,300.00	4,800.04	6,515.91	5,663.26	42.23	33.44	153.72	302.94	-1,381.49	1,234.05	1,182.60	51.44	23.988		
5,400.00	4,887.74	6,544.65	5,663.42	43.20	33.91	152.37	323.26	-1,401.81	1,203.93	1,149.27	54.67	22.024		
5,500.00	4,975.44	6,573.38	5,663.57	44.17	34.39	151.01	343.58	-1,422.13	1,180.84	1,123.01	57.83	20.419		
5,600.00	5,063.14	6,602.12	5,663.73	45.14	34.87	149.65	363.90	-1,442.45	1,165.18	1,104.32	60.86	19.146		
5,700.00	5,150.84	6,630.86	5,663.89	46.11	35.36	148.29	384.21	-1,462.77	1,157.27	1,093.60	63.66	18.178		
5,768.13	5,210.33	6,651.98	5,664.00	46.78	35.73	142.53	399.15	-1,477.71	1,155.93	1,090.49	65.44	17.664		
5,800.00	5,238.30	6,660.98	5,664.05	47.09	35.88	139.86	405.51	-1,484.07	1,156.82	1,090.61	66.21	17.473		
5,900.00	5,322.61	6,703.97	5,664.29	48.14	36.63	124.13	435.91	-1,514.47	1,159.63	1,090.89	68.74	16.869		
6,000.00	5,400.89	6,761.28	5,664.60	49.25	37.66	112.08	476.43	-1,554.99	1,163.18	1,091.79	71.38	16.295		
6,100.00	5,470.76	6,831.16	5,664.98	50.37	38.93	103.07	525.84	-1,604.41	1,165.38	1,091.21	74.17	15.713		
6,200.00	5,530.10	6,911.50	5,665.42	51.49	40.42	96.58	582.65	-1,661.21	1,164.12	1,086.99	77.13	15.094		
6,300.00	5,580.45	6,998.16	5,665.89	52.60	42.06	93.72	643.93	-1,722.49	1,159.73	1,079.51	80.22	14.458		
6,400.00	5,620.65	7,089.80	5,666.39	53.80	43.83	92.15	708.72	-1,787.29	1,157.48	1,073.99	83.49	13.864		
6,500.00	5,644.36	7,186.95	5,666.92	55.11	45.74	91.11	777.41	-1,855.99	1,156.79	1,069.74	87.05	13.289		
6,600.00	5,651.10	7,286.64	5,667.47	56.49	47.73	90.81	847.91	-1,926.48	1,156.68	1,065.85	90.83	12.735		
6,700.00	5,651.69	7,386.64	5,668.02	57.92	49.75	90.81	918.62	-1,997.19	1,156.68	1,061.96	94.72	12.212		
6,800.00	5,652.29	7,486.64	5,668.56	59.40	51.79	90.81	989.32	-2,067.90	1,156.67	1,058.01	98.67	11.723		
6,900.00	5,652.88	7,586.64	5,669.11	60.93	53.86	90.80	1,060.03	-2,138.62	1,156.67	1,054.00	102.67	11.266		
7,000.00	5,653.48	7,686.64	5,669.65	62.51	55.94	90.80	1,130.74	-2,209.33	1,156.67	1,049.95	106.72	10.838		
7,100.00	5,654.07	7,786.64	5,670.20	64.13	58.04	90.80	1,201.45	-2,280.04	1,156.66	1,045.85	110.81	10.438		
7,200.00	5,654.67	7,886.64	5,670.75	65.79	60.16	90.80	1,272.16	-2,350.75	1,156.66	1,041.72	114.94	10.063		
7,300.00	5,655.26	7,986.64	5,671.29	67.48	62.28	90.79	1,342.87	-2,421.46	1,156.66	1,037.55	119.10	9.711		
7,400.00	5,655.86	8,086.64	5,671.84	69.22	64.42	90.79	1,413.57	-2,492.17	1,156.65	1,033.36	123.30	9.381		
7,500.00	5,656.45	8,186.64	5,672.39	70.98	66.57	90.79	1,484.28	-2,562.88	1,156.65	1,029.13	127.52	9.071		
7,600.00	5,657.05	8,286.64	5,672.93	72.78	68.73	90.79	1,554.99	-2,633.59	1,156.64	1,024.88	131.76	8.778		
7,700.00	5,657.64	8,386.64	5,673.48	74.60	70.90	90.78	1,625.70	-2,704.30	1,156.64	1,020.61	136.03	8.503		
7,800.00	5,658.24	8,486.64	5,674.03	76.45	73.08	90.78	1,696.41	-2,775.01	1,156.64	1,016.32	140.31	8.243		
7,900.00	5,658.83	8,586.64	5,674.57	78.33	75.26	90.78	1,767.12	-2,845.73	1,156.63	1,012.01	144.62	7.998		
8,000.00	5,659.43	8,686.64	5,675.12	80.23	77.45	90.78	1,837.82	-2,916.44	1,156.63	1,007.69	148.94	7.766		
8,100.00	5,660.02	8,786.64	5,675.66	82.15	79.64	90.77	1,908.53	-2,987.15	1,156.63	1,003.34	153.28	7.546		
8,200.00	5,660.62	8,886.64	5,676.21	84.09	81.85	90.77	1,979.24	-3,057.86	1,156.62	998.99	157.63	7.337		
8,300.00	5,661.21	8,986.64	5,676.76	86.04	84.05	90.77	2,049.95	-3,128.57	1,156.62	994.62	162.00	7.140		
8,400.00	5,661.81	9,086.64	5,677.30	88.02	86.26	90.77	2,120.66	-3,199.28	1,156.62	990.24	166.38	6.952		
8,500.00	5,662.41	9,186.64	5,677.85	90.01	88.48	90.77	2,191.36	-3,269.99	1,156.61	985.85	170.76	6.773		
8,600.00	5,663.00	9,286.64	5,678.40	92.01	90.70	90.76	2,262.07	-3,340.70	1,156.61	981.45	175.16	6.603		
8,700.00	5,663.60	9,386.64	5,678.94	94.03	92.92	90.76	2,332.78	-3,411.41	1,156.60	977.04	179.57	6.441		
8,800.00	5,664.19	9,486.64	5,679.49	96.06	95.15	90.76	2,403.49	-3,482.12	1,156.60	972.62	183.99	6.286		
8,900.00	5,664.79	9,586.64	5,680.04	98.10	97.37	90.76	2,474.20	-3,552.84	1,156.60	968.19	188.41	6.139		
9,000.00	5,665.38	9,686.64	5,680.58	100.16	99.61	90.75	2,544.91	-3,623.55	1,156.59	963.75	192.84	5.998		
9,100.00	5,665.98	9,786.64	5,681.13	102.22	101.84	90.75	2,615.61	-3,694.26	1,156.59	959.31	197.28	5.863		
9,200.00	5,666.57	9,886.64	5,681.67	104.30	104.08	90.75	2,686.32	-3,764.97	1,156.59	954.86	201.73	5.733		
9,300.00	5,667.17	9,986.64	5,682.22	106.39	106.32	90.75	2,757.03	-3,835.68	1,156.58	950.40	206.18	5.610		
9,400.00	5,667.76	10,086.64	5,682.77	108.48	108.56	90.74	2,827.74	-3,906.39	1,156.58	945.94	210.64	5.491		
9,500.00	5,668.36	10,186.64	5,683.31	110.58	110.81	90.74	2,898.45	-3,977.10	1,156.58	941.48	215.10	5.377		
9,600.00	5,668.95	10,286.64	5,683.86	112.69	113.05	90.74	2,969.16	-4,047.81	1,156.57	937.00	219.57	5.267		
9,700.00	5,669.55	10,386.64	5,684.41	114.81	115.30	90.74	3,039.86	-4,118.52	1,156.57	932.53	224.04	5.162		
9,800.00	5,670.14	10,486.64	5,684.95	116.93	117.55	90.73	3,110.57	-4,189.23	1,156.57	928.05	228.52	5.061		
9,900.00	5,670.74	10,586.64	5,685.50	119.06	119.81	90.73	3,181.28	-4,259.94	1,156.56	923.56	233.00	4.964		
10,000.00	5,671.33	10,686.64	5,686.05	121.20	122.06	90.73	3,251.99	-4,330.66	1,156.56	919.07	237.48	4.870		
10,100.00	5,671.93	10,786.64	5,686.59	123.35	124.31	90.73	3,322.70	-4,401.37	1,156.55	914.58	241.97	4.780		
10,200.00	5,672.52	10,886.64	5,687.14	125.49	126.57	90.72	3,393.41	-4,472.08	1,156.55	910.09	246.47	4.693		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Grid

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

RKB=6923+25 @ 6948.00ft

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

urvey Progi	ram: 0-l	MWD								Rule Assi	aned:		Offset Well Error:	0.00
	rence Vertical	Offs	set Vertical	Semi M Reference	ajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	0.00
Depth (ft)	Depth (ft)	Measured Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor	warming	
10,300.00	5,673.12	10,986.64	5,687.68	127.65	128.83	90.72	3,464.11	-4,542.79	1,156.55	905.59	250.96	4.608		
10,400.00	5,673.71	11,086.64	5,688.23	129.81	131.09	90.72	3,534.82	-4,613.50	1,156.54	901.08	255.46	4.527		
10,500.00	5,674.31	11,186.64	5,688.78	131.97	133.35	90.72	3,605.53	-4,684.21	1,156.54	896.58	259.96	4.449		
10,600.00	5,674.90	11,286.64	5,689.32	134.14	135.61	90.71	3,676.24	-4,754.92	1,156.54	892.07	264.47	4.373		
10,700.00	5,675.50	11,386.64	5,689.87	136.31	137.87	90.71	3,746.95	-4,825.63	1,156.53	887.56	268.97	4.300		
10,800.00	5,676.09	11,486.64	5,690.42	138.49	140.14	90.71	3,817.65	-4,896.34	1,156.53	883.05	273.48	4.229		
10,900.00	5,676.69	11,586.64	5,690.96	140.67	142.40	90.71	3,888.36	-4,967.05	1,156.53	878.53	278.00	4.160		
11,000.00	5,677.28	11,686.64	5,691.51	142.85	144.67	90.70	3,959.07	-5,037.77	1,156.52	874.01	282.51	4.094		
11,100.00	5,677.88	11,786.64	5,692.05	145.04	146.93	90.70	4,029.78	-5,108.48	1,156.52	869.49	287.03	4.029		
11,200.00	5,678.47	11,886.64	5,692.60	147.23	149.20	90.70	4,100.49	-5,179.19	1,156.52	864.97	291.55	3.967		
11,300.00	5,679.07	11,986.64	5,693.15	149.43	151.47	90.70	4,171.20	-5,249.90	1,156.51	860.44	296.07	3.906		
11,400.00	5,679.66	12,086.64	5,693.69	151.62	153.74	90.70	4,241.90	-5,320.61	1,156.51	855.92	300.59	3.847		
11,500.00	5,680.26	12,186.64	5,694.24	153.83	156.01	90.69	4,312.61	-5,391.32	1,156.51	851.39	305.11	3.790		
11,600.00	5,680.86	12,286.64	5,694.79	156.03	158.28	90.69	4,383.32	-5,462.03	1,156.50	846.86	309.64	3.735		
11,700.00	5,681.45	12,386.64	5,695.33	158.23	160.55	90.69	4,454.03	-5,532.74	1,156.50	842.33	314.17	3.681		
11,800.00	5,682.05	12,486.64	5,695.88	160.44	162.82	90.69	4,524.74	-5,603.45	1,156.49	837.80	318.70	3.629		
11,900.00	5,682.64	12,586.64	5,696.43	162.65	165.10	90.68	4,595.45	-5,674.16	1,156.49	833.26	323.23	3.578		
12,000.00	5,683.24	12,686.64	5,696.97	164.87	167.37	90.68	4,666.15	-5,744.88	1,156.49	828.73	327.76	3.528		
12,100.00	5,683.83	12,786.64	5,697.52	167.08	169.64	90.68	4,736.86	-5,815.59	1,156.48	824.19	332.29	3.480		
12,200.00	5,684.43	12,886.64	5,698.06	169.30	171.92	90.68	4,807.57	-5,886.30	1,156.48	819.65	336.83	3.433		
12,300.00	5,685.02	12,986.64	5,698.61	171.52	174.19	90.67	4,878.28	-5,957.01	1,156.48	815.11	341.37	3.388		
12,400.00	5,685.62	13,086.64	5,699.16	173.74	176.47	90.67	4,948.99	-6,027.72	1,156.47	810.57	345.90	3.343		
12,500.00	5,686.21	13,186.64	5,699.70	175.97	178.74	90.67	5,019.69	-6,098.43	1,156.47	806.03	350.44	3.300		
12,600.00	5,686.81	13,286.64	5,700.25	178.19	181.02	90.67	5,090.40	-6,169.14	1,156.47	801.49	354.98	3.258		
12,700.00	5,687.40	13,386.64	5,700.80	180.42	183.30	90.66	5,161.11	-6,239.85	1,156.46	796.94	359.52	3.217		
12,800.00	5,688.00	13,486.64	5,701.34	182.65	185.57	90.66	5,231.82	-6,310.56	1,156.46	792.40	364.06	3.177		
12,900.00	5,688.59	13,586.64	5,701.89	184.88	187.85	90.66	5,302.53	-6,381.27	1,156.46	787.85	368.60	3.137		
13,000.00	5,689.19	13,686.64	5,702.44	187.11	190.13	90.66	5,373.24	-6,451.99	1,156.45	783.30	373.15	3.099		
13,100.00	5,689.78	13,786.64	5,702.98	189.35	192.41	90.65	5,443.94	-6,522.70	1,156.45	778.76	377.69	3.062		
13,200.00	5,690.38	13,886.64	5,703.53	191.58	194.69	90.65	5,514.65	-6,593.41	1,156.45	774.21	382.24	3.025		
13,300.00	5,690.97	13,986.64	5,704.07	193.82	196.97	90.65	5,585.36	-6,664.12	1,156.44	769.66	386.78	2.990		
13,400.00	5,691.57	14,086.64	5,704.62	196.06	199.24	90.65	5,656.07	-6,734.83	1,156.44	765.11	391.33	2.955		
13,500.00	5,692.16	14,186.64	5,705.17	198.30	201.52	90.64	5,726.78	-6,805.54	1,156.44	760.56	395.88	2.921		
13,600.00	5,692.76	14,286.64	5,705.71	200.54	203.80	90.64	5,797.49	-6,876.25	1,156.43	756.01	400.43	2.888		
13,700.00	5,693.35	14,386.64	5,706.26	202.78	206.09	90.64	5,868.19	-6,946.96	1,156.43	751.45	404.98	2.856		
13,800.00	5,693.95	14,486.64	5,706.81	205.02	208.37	90.64	5,938.90	-7,017.67	1,156.42	746.90	409.53	2.824		
13,900.00	5,694.54	14,586.64	5,707.35	207.27	210.65	90.63	6,009.61	-7,088.38	1,156.42	742.35	414.08	2.793		
14,000.00	5,695.14	14,686.64	5,707.90	209.51	212.93	90.63	6,080.32	-7,159.09	1,156.42	737.79	418.63	2.762		
14,100.00	5,695.73	14,786.64	5,708.44	211.76	215.21	90.63	6,151.03	-7,229.81	1,156.41	733.24	423.18	2.733		
14,200.00	5,696.33	14,886.64	5,708.99	214.01	217.49	90.63	6,221.74	-7,300.52	1,156.41	728.68	427.73	2.704		
14,300.00	5,696.92	14,986.64	5,709.54	216.26	219.77	90.62	6,292.44	-7,371.23	1,156.41	724.13	432.28	2.675		
14,400.00	5,697.52	15,086.64	5,710.08	218.50	222.06	90.62	6,363.15	-7,441.94	1,156.40	719.57	436.83	2.647		
14,500.00	5,698.11	15,186.64	5,710.63	220.76	224.34	90.62	6,433.86	-7,512.65	1,156.40	715.01	441.39	2.620		
14,600.00	5,698.71	15,286.64	5,711.18	223.01	226.62	90.62	6,504.57	-7,583.36	1,156.40	710.45	445.94	2.593		
14,700.00	5,699.30	15,386.64	5,711.72	225.26	228.91	90.62	6,575.28	-7,654.07	1,156.39	705.90	450.50	2.567		
14,800.00	5,699.90	15,486.64	5,712.27	227.51	231.19	90.61	6,645.98	-7,724.78	1,156.39	701.34	455.05	2.541		
14,900.00	5,700.50	15,586.64	5,712.82	229.77	233.47	90.61	6,716.69	-7,795.49	1,156.39	696.78	459.61	2.516		
15,000.00	5,701.09	15,686.64	5,713.36	232.02	235.76	90.61	6,787.40	-7,866.20	1,156.38	692.22	464.16	2.491		
15,100.00	5,701.69	15,786.64	5,713.91	234.28	238.04	90.61	6,858.11	-7,936.92	1,156.38	687.66	468.72	2.467		
15,200.00	5,702.28	15,886.64	5,714.45	236.53	240.33	90.60	6,928.82	-8,007.63	1,156.38	683.10	473.28	2.443		
15,300.00	5,702.88	15,986.64	5,715.00	238.79	242.61	90.60	6,999.53	-8,078.34	1,156.37	678.54	477.83	2.420		
15,400.00	5,703.47	16,086.64	5,715.55	241.05	244.90	90.60	7,070.23	-8,149.05	1,156.37	673.98	482.39	2.397		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Well Ridge Unit No. 129H

eference: Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma
Database: DB_Decv0422v16
Offset TVD Reference: Offset Datum

Offset Des		//WD								Rule Assi			Offset Site Error: Offset Well Error:	0.00 ft 0.00 ft
urvey Progr Refe		Offs	set	Semi M	laior Axis		Offset Wellb	ore Centre	Dist	tance	jnea:		Offset Well Error:	0.00 11
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
15,500.00	5,704.07	16,186.64	5,716.09	243.31	247.18	90.60	7,140.94	-8,219.76	1,156.37	669.42	486.95	2.375		
15,600.00	5,704.66	16,286.64	5,716.64	245.57	249.47	90.59	7.211.65	-8,290.47	1,156.36	664.85	491.51	2.353		
15,700.00	5,705.26	16,386.64	5.717.19	247.83	251.75	90.59	7,282.36	-8,361.18	1,156.36	660.29	496.07	2.331		
15,800.00	5,705.85	16,486.64	5,717.73	250.09	254.04	90.59	7,353.07	-8,431.89	1,156.36	655.73	500.62	2.310		
15,847.56	5,706.13	16,534.20	5,717.99	251.16	255.12	90.59	7,386.69	-8,465.52	1,156.35	653.56	502.79	2.300 SF		
15,900.00	5,706.45	16,535.96	5,718.00	252.35	255.16	90.59	7,387.94	-8,466.76	1,157.46	657.41	500.05	2.315		
16,000.00	5,707.04	16,535.96	5,718.00	254.61	255.16	90.59	7,387.94	-8,466.76	1,166.13	676.20	489.93	2.380		
16,100.00	5,707.64	16,535.96	5,718.00	256.87	255.16	90.59	7,387.94	-8,466.76	1,183.21	708.57	474.64	2.493		
16,200.00	5,708.23	16,535.96	5,718.00	259.14	255.16	90.59	7,387.94	-8,466.76	1,208.35	752.77	455.58	2.652		
16,300.00	5,708.83	16,535.96	5,718.00	261.40	255.16	90.59	7,387.94	-8,466.76	1,241.06	806.85	434.22	2.858		
16,400.00	5,709.42	16,535.96	5,718.00	263.66	255.16	90.59	7,387.94	-8,466.76	1,280.77	868.96	411.81	3.110		
16,500.00	5,710.02	16,535.96	5,718.00	265.93	255.16	90.59	7,387.94	-8,466.76	1,326.84	937.50	389.34	3.408		
16,600.00	5,710.61	16,535.96	5,718.00	268.19	255.16	90.59	7,387.94	-8,466.76	1,378.63	1,011.16	367.47	3.752		
16,700.00	5,711.21	16,535.96	5,718.00	270.46	255.16	90.59	7,387.94	-8,466.76	1,435.53	1,088.90	346.63	4.141		
16,800.00	5,711.80	16,535.96	5,718.00	272.73	255.16	90.59	7,387.94	-8,466.76	1,496.96	1,169.90	327.06	4.577		
16,900.00	5,712.40	16,535.96	5,718.00	274.99	255.16	90.59	7,387.94	-8,466.76	1,562.37	1,253.53	308.84	5.059		
17,000.00	5,712.99	16,535.96	5,718.00	277.26	255.16	90.59	7,387.94	-8,466.76	1,631.30	1,339.29	292.01	5.587		
17,001.12	5,713.00	16,535.96	5,718.00	277.29	255.16	90.59	7,387.94	-8,466.76	1,632.09	1,340.26	291.83	5.593		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft

RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft

Grid Minimum Curvature

2.00 sigma
DB_Decv0422v16
Offset Datum

Offset De	v.g	lge Unit (13		· ·									Offset Site Error:	0.00 f
Survey Prog Refe	ram: 0-l erence	MWD Offs	set	Semi M	aior Axis		Offset Wellb	ore Centre	Dist	Rule Assi ance	gned:		Offset Well Error:	0.00 f
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	
5,700.00	5,150.84	6,179.31	5,125.09	46.11	65.09	5.26	-491.04	-4,044.79	1,853.29	1,794.06	59.23	31.292		
5,800.00	5,238.30	6,200.00	5,143.87	47.09	65.08	-3.58	-482.36	-4,045.06	1,803.39	1,743.95	59.45	30.336		
5,900.00	5,322.61	6,229.07	5,169.87	48.14	65.05	-22.42	-469.41	-4,046.37	1,752.43	1,692.72	59.71	29.350		
6,000.00	5,400.89	6,250.00	5,188.26	49.25	65.03	-37.59	-459.57	-4,047.98	1,700.72	1,640.50	60.23	28.239		
6,100.00	5,470.76	6,300.00	5,230.97	50.37	64.97	-49.86	-434.34	-4,054.11	1,649.88	1,589.16	60.72	27.173		
6,200.00	5,530.10	6,300.00	5,230.97	51.49	64.97	-59.72	-434.34	-4,054.11	1,601.03	1,538.82	62.21	25.734		
6,300.00	5,580.45	6,350.00	5,271.68	52.60	64.89	-63.12	-406.86	-4,063.39	1,555.84	1,492.26	63.58	24.471		
6,400.00	5,620.65	6,370.86	5,288.00	53.80	64.86	-68.14	-394.78	-4,068.17	1,510.03	1,444.10	65.93	22.905		
6,500.00	5,644.36	6,400.00	5,310.08	55.11	64.81	-73.90	-377.34	-4,075.75	1,462.20	1,393.39	68.81	21.251		
6,600.00	5,651.10	6,425.17	5,328.44	56.49	64.77	-79.10	-361.78	-4,083.11	1,414.06	1,341.59	72.48	19.511		
6,700.00	5,651.69	6,450.00	5,345.87	57.92	64.74	-79.84	-346.01	-4,091.10	1,368.99	1,292.20	76.79	17.828		
6,800.00	5,652.29	6,482.78	5,367.79	59.40	64.69	-80.79	-324.60	-4,102.74	1,328.40	1,247.00	81.40	16.319		
6,900.00	5,652.88	6,516.31	5,388.86	60.93	64.65	-81.71	-302.07	-4,115.88	1,292.47	1,206.03	86.44	14.953		
7,000.00	5,653.48	6,550.00	5,408.58	62.51	64.62	-82.58	-278.88	-4,130.30	1,261.29	1,169.47	91.82	13.737		
7,100.00	5,654.07	6,595.61	5,432.83	64.13	64.59	-83.67	-246.72	-4,151.67	1,234.85	1,137.93	96.91	12.742		
7,200.00	5,654.67	6,667.50	5,468.68	65.79	64.56	-85.32	-195.42	-4,187.05	1,211.83	1,110.93	100.90	12.010		
7,300.00	5,655.26	6,714.97	5,489.96	67.48	64.57	-86.32	-161.09	-4,211.94	1,192.65	1,086.52	106.13	11.237		
7,400.00	5,655.86	6,766.46	5,509.24	69.22	64.59	-87.23	-123.35	-4,241.16	1,177.85	1,066.71	111.14	10.598		
7,500.00	5,656.45	6,821.59	5,525.29	70.98	64.65	-87.99	-82.71	-4,274.74	1,167.16	1,051.25	115.91	10.070		
7,600.00	5,657.05	6,879.63	5,536.93	72.78	64.74	-88.54	-40.07	-4,312.33	1,160.26	1,039.82	120.45	9.633		
7,700.00	5,657.64	6,939.57	5,543.14	74.60	64.86	-88.83	3.35	-4,353.14	1,156.94	1,032.12	124.82	9.269		
7,800.00	5,658.24	7,021.09	5,544.36	76.45	65.07	-88.87	61.13	-4,410.62	1,156.56	1,028.40	128.16	9.024		
7,813.26	5,658.32	7,034.35	5,544.45	76.70	65.11	-88.87	70.51	-4,420.00	1,156.56	1,028.06	128.50	9.001		
7,900.00	5,658.83	7,121.09	5,545.04	78.33	65.39	-88.87	131.84	-4,481.33	1,156.56	1,025.83	130.73	8.847		
8,000.00	5,659.43	7,221.09	5,545.72	80.23	65.77	-88.87	202.55	-4,552.03	1,156.56	1,023.16	133.40	8.670		
8,100.00	5,660.02	7,321.09	5,546.40	82.15	66.23	-88.88	273.26	-4,622.74	1,156.56	1,020.39	136.16	8.494		
8,200.00	5,660.62	7,421.09	5,547.08	84.09	66.76	-88.88	343.97	-4,693.45	1,156.55	1,017.55	139.01	8.320		
8,300.00	5,661.21	7,521.09	5,547.76	86.04	67.36	-88.89	414.68	-4,764.16	1,156.55	1,014.61	141.94	8.148		
8,400.00	5,661.81	7,621.09	5,548.44	88.02	68.03	-88.89	485.39	-4,834.87	1,156.55	1,011.60	144.95	7.979		
8,500.00	5,662.41	7,721.09	5,549.12	90.01	68.77	-88.90	556.10	-4,905.58	1,156.55	1,008.51	148.04	7.812		
8,600.00	5,663.00	7,821.09	5,549.80	92.01	69.58	-88.90	626.81	-4,976.28	1,156.55	1,005.34	151.21	7.649		
8,700.00	5,663.60	7,921.09	5,550.48	94.03	70.45	-88.90	697.52	-5,046.99	1,156.55	1,002.11	154.44	7.489		
8,800.00	5,664.19	8,021.09	5,551.16	96.06	71.38	-88.91	768.22	-5,117.70	1,156.54	998.80	157.74	7.332		
8,900.00	5,664.79	8,121.09	5,551.84	98.10	72.38	-88.91	838.93	-5,188.41	1,156.54	995.44	161.10	7.179		
9,000.00	5,665.38	8,221.09	5,552.52	100.16	73.44	-88.92	909.64	-5,259.12	1,156.54	992.01	164.53	7.029		
9,100.00	5,665.98	8,321.09	5,553.20	102.22	74.56	-88.92	980.35	-5,329.83	1,156.54	988.53	168.01	6.884		
9,200.00	5,666.57	8,421.09	5,553.88	104.30	75.74	-88.93	1,051.06	-5,400.54	1,156.54	984.99	171.55	6.742		
9,300.00	5,667.17	8,521.09	5,554.56	106.39	76.97	-88.93	1,121.77	-5,471.24	1,156.54	981.41	175.13	6.604		
9,400.00	5,667.76	8,621.09	5,555.24	108.48	78.25	-88.93	1,192.48	-5,541.95	1,156.54	977.77	178.76	6.470		
9,500.00	5,668.36	8,721.09	5,555.92	110.58	79.58	-88.94	1,263.19	-5,612.66	1,156.53	974.09	182.44	6.339		
9,600.00	5,668.95	8,821.09	5,556.60	112.69	80.96	-88.94	1,333.90	-5,683.37	1,156.53	970.37	186.17	6.212		
9,700.00	5,669.55	8,921.09	5,557.28	114.81	82.39	-88.95	1,404.61	-5,754.08	1,156.53	966.60	189.93	6.089		
9,800.00	5,670.14	9,021.09	5,557.96	116.93	83.85	-88.95	1,475.32	-5,824.79	1,156.53	962.80	193.73	5.970		
9,900.00	5,670.74	9,121.09	5,558.64	119.06	85.36	-88.95	1,546.03	-5,895.49	1,156.53	958.97	197.56	5.854		
10,000.00	5,671.33 5,671.93	9,221.09	5,559.32	121.20	86.91	-88.96 -88.96	1,616.74	-5,966.20 -6.036.91	1,156.53	955.10 951.19	201.43	5.742		
10,100.00	5,071.93	9,321.09	5,560.00	123.35	88.49	-88.96	1,687.45	-6,036.91	1,156.53	951.19	205.33	5.632		
10,200.00	5,672.52	9,421.09	5,560.68	125.49	90.10	-88.97	1,758.16	-6,107.62	1,156.52	947.26	209.27	5.527		
10,300.00	5,673.12	9,521.09	5,561.36	127.65	91.75	-88.97	1,828.87	-6,178.33	1,156.52	943.30	213.23	5.424		
10,400.00	5,673.71	9,621.09	5,562.04	129.81	93.43	-88.98	1,899.58	-6,249.04	1,156.52	939.31	217.21	5.324		
10,500.00	5,674.31	9,721.09	5,562.72	131.97	95.14	-88.98	1,970.29	-6,319.74	1,156.52	935.30	221.22	5.228		
10,600.00	5,674.90	9,821.09	5,563.40	134.14	96.87	-88.98	2,041.00	-6,390.45	1,156.52	931.26	225.26	5.134		
10,700.00	5,675.50	9,921.09	5,564.08	136.31	98.63	-88.99	2,111.71	-6,461.16	1,156.52	927.20	229.32	5.043		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Ridge Unit (124, 127, 128 & 129) Reference Site:

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: Grid

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft

RKB=6923+25 @ 6948.00ft

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

urvey Prog	ram: 0-	MWD								Rule Assi	aned.		Offset Well Error:	0.00
	rence Vertical	Offs Measured	set Vertical	Semi M Reference	ajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	0.00
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
10,800.00	5,676.09	10,021.09	5,564.76	138.49	100.41	-88.99	2,182.42	-6,531.87	1,156.52	923.12	233.40	4.955		
10,900.00	5,676.69	10,121.09	5,565.44	140.67	102.21	-89.00	2,253.13	-6,602.58	1,156.51	919.01	237.50	4.870		
11,000.00	5,677.28	10,221.09	5,566.12	142.85	104.04	-89.00	2,323.84	-6,673.29	1,156.51	914.89	241.62	4.786		
11,100.00	5,677.88	10,321.09	5,566.80	145.04	105.88	-89.01	2,394.55	-6,744.00	1,156.51	910.75	245.76	4.706		
11,200.00	5,678.47	10,421.09	5,567.48	147.23	107.75	-89.01	2,465.26	-6,814.70	1,156.51	906.60	249.91	4.628		
11,300.00	5,679.07	10,521.09	5,568.16	149.43	109.63	-89.01	2,535.97	-6,885.41	1,156.51	902.42	254.09	4.552		
11,400.00	5,679.66	10,621.09	5,568.84	151.62	111.53	-89.02	2,606.68	-6,956.12	1,156.51	898.24	258.27	4.478		
11,500.00	5,680.26	10,721.09	5,569.52	153.83	113.45	-89.02	2,677.38	-7,026.83	1,156.51	894.03	262.47	4.406		
11,600.00	5,680.86	10,821.09	5,570.20	156.03	115.38	-89.03	2,748.09	-7,097.54	1,156.51	889.82	266.69	4.337		
11,700.00	5,681.45	10,921.09	5,570.88	158.23	117.32	-89.03	2,818.80	-7,168.25	1,156.50	885.59	270.92	4.269		
11,800.00	5,682.05	11,021.09	5,571.56	160.44	119.28	-89.03	2,889.51	-7,238.95	1,156.50	881.34	275.16	4.203		
11 000 00	5,682.64	11,121.09	5,572.24	162.65	121.25	-89.04	2,960.22	-7,309.66	1,156.50	877.09	279.41	4.139		
11,900.00														
12,000.00 12,100.00	5,683.24	11,221.09 11,321.09	5,572.92 5,573.60	164.87 167.08	123.23 125.22	-89.04 -89.05	3,030.93	-7,380.37 -7,451.08	1,156.50	872.82 868.55	283.68 287.95	4.077		
12,100.00	5,683.83 5,684.43	11,421.09	5,573.60	169.30	125.22	-89.05 -89.05	3,101.64 3,172.35	-7,451.08 -7,521.79	1,156.50 1,156.50	864.26	287.95	4.016 3.957		
12,200.00	5,685.02	11,521.09	5,574.28	171.52	127.23	-89.05 -89.06	3,172.35	-7,521.79 -7,592.50	1,156.50	859.96	292.24	3.900		
12,400.00	5,685.62	11,621.09	5,575.64	173.74	131.27	-89.06	3,313.77	-7,663.20	1,156.50	855.66	300.84	3.844		
12,500.00	5,686.21	11,721.09	5,576.32	175.97	133.30	-89.06	3,384.48	-7,733.91	1,156.49	851.34	305.15	3.790		
12,600.00	5,686.81	11,821.09	5,577.00	178.19	135.34	-89.07	3,455.19	-7,804.62	1,156.49	847.02	309.47	3.737		
12,700.00	5,687.40	11,921.09	5,577.68	180.42	137.39	-89.07	3,525.90	-7,875.33	1,156.49	842.69	313.80	3.685		
12,800.00	5,688.00	12,021.09	5,578.36	182.65	139.45	-89.08	3,596.61	-7,946.04	1,156.49	838.35	318.14	3.635		
12,900.00	5,688.59	12,121.09	5,579.04	184.88	141.52	-89.08	3,667.32	-8,016.75	1,156.49	834.00	322.49	3.586		
13,000.00	5,689.19	12,221.09	5,579.72	187.11	143.59	-89.08	3,738.03	-8,087.45	1,156.49	829.65	326.84	3.538		
13,100.00	5,689.78	12,321.09	5,580.40	189.35	145.68	-89.09	3,808.74	-8,158.16	1,156.49	825.29	331.20	3.492		
13,200.00	5,690.38	12,421.09	5,581.08	191.58	147.76	-89.09	3,879.45	-8,228.87	1,156.49	820.92	335.57	3.446		
13,300.00	5,690.97	12,521.09	5,581.76	193.82	149.86	-89.10	3,950.16	-8,299.58	1,156.48	816.54	339.94	3.402		
13,400.00	5,691.57	12,621.09	5,582.43	196.06	151.96	-89.10	4,020.87	-8,370.29	1,156.48	812.16	344.32	3.359		
13,500.00	5,692.16	12,721.09	5,583.11	198.30	154.06	-89.11	4,091.58	-8,441.00	1,156.48	807.78	348.70	3.317		
13,600.00	5,692.76	12,821.09	5,583.79	200.54	156.17	-89.11	4,162.29	-8,511.71	1,156.48	803.39	353.09	3.275		
13,700.00	5,693.35	12,921.08	5,584.47	202.78	158.29	-89.11	4,233.00	-8,582.41	1,156.48	798.99	357.49	3.235		
13,800.00	5,693.95	13,021.08	5,585.15	205.02	160.41	-89.12	4,303.71	-8,653.12	1,156.48	794.59	361.89	3.196		
13,900.00	5,694.54	13,121.08	5,585.83	207.27	162.54	-89.12	4,374.42	-8,723.83	1,156.48	790.18	366.30	3.157		
14,000.00	5,695.14	13,221.08	5,586.51	209.51	164.67	-89.13	4,445.13	-8,794.54	1,156.48	785.77	370.71	3.120		
14,100.00	5,695.73	13,321.08	5,587.19	211.76	166.81	-89.13	4,515.84	-8,865.25	1,156.48	781.36	375.12	3.083		
14,200.00	5,696.33	13,421.08	5,587.87	214.01	168.95	-89.14	4,586.55	-8,935.96	1,156.47	776.93	379.54	3.047		
14,300.00	5,696.92	13,521.08	5,588.55	216.26	171.09	-89.14	4,657.25	-9,006.66	1,156.47	772.51	383.96	3.012		
14,400.00	5,697.52	13,621.08	5,589.23	218.50	173.24	-89.14	4,727.96	-9,077.37	1,156.47	768.08	388.39	2.978		
14,500.00	5,698.11	13,721.08	5,589.91	220.76	175.24	-89.14 -89.15	4,727.96	-9,077.37 -9,148.08	1,156.47	763.65	392.82	2.976		
14,600.00	5,698.71	13,821.08	5,590.59	223.01	177.55	-89.15	4,869.38	-9,218.79	1,156.47	759.21	397.26	2.944		
14,700.00	5,699.30	13,921.08	5,590.39	225.26	177.55	-89.16	4,940.09	-9,289.50	1,156.47	759.21	401.69	2.879		
14,800.00	5,699.90	14,021.08	5,591.95	227.51	181.87	-89.16	5,010.80	-9,360.21	1,156.47	750.33	406.14	2.847		
44.00===														
14,900.00 15,000.00	5,700.50 5,701.09	14,121.08 14,221.08	5,592.63 5,593.31	229.77 232.02	184.04 186.21	-89.16 -89.17	5,081.51 5,152.22	-9,430.91 -9,501.62	1,156.47 1,156.47	745.88 741.43	410.58 415.03	2.817 2.786		
15,100.00 15,200.00	5,701.69 5,702.28	14,321.08 14,421.08	5,593.99 5,594.67	234.28 236.53	188.38 190.55	-89.17 -89.18	5,222.93 5,293.64	-9,572.33 -9,643.04	1,156.46 1,156.46	736.98 732.53	419.48 423.94	2.757 2.728		
15,200.00	5,702.28	14,421.08	5,595.35	238.79	190.55	-89.18	5,364.35	-9,643.04 -9,713.75	1,156.46	732.53	428.39	2.720		
15,400.00 15,500.00	5,703.47 5,704.07	14,621.08 14,721.08	5,596.03 5,596.71	241.05 243.31	194.91 197.10	-89.19 -89.19	5,435.06 5,505.77	-9,784.46 -9,855.16	1,156.46 1,156.46	723.61 719.14	432.85 437.32	2.672 2.644		
15,600.00	5,704.66	14,721.08	5,596.71	245.57	197.10	-89.19	5,505.77	-9,925.87	1,156.46	719.14	441.78	2.618		
15,700.00	5,704.66	14,921.08	5,597.39	245.57	201.47	-89.20	5,647.19	-9,925.67 -9,996.58	1,156.46	714.00	446.25	2.591		
15,700.00	5,705.26	15,021.08	5,598.07	250.09	201.47	-89.20 -89.20	5,647.19	-9,996.58	1,156.46	710.21	450.72	2.591		
.,0.00	2,. 00.00	,	-,	_00.00		23.20	2,7 11.00	,	.,.50.10	. 50 0	.50.72	500		
5,900.00	5,706.45	15,121.08	5,599.43	252.35	205.85	-89.21	5,788.61	-10,138.00	1,156.46	701.26	455.20	2.541		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Ridge Unit (124, 127, 128 & 129) Reference Site:

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Grid

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Ridge Unit No. 129H RKB=6923+25 @ 6948.00ft

RKB=6923+25 @ 6948.00ft

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

Offset Des	sian: Ric	lge Unit (13	30, 135, 13	36 & 137) -	Ridge Un	it No. 130H	- Original Hole	e - rev1						
													Offset Site Error:	0.00 ft
Measured Depth	rence Vertical Depth	MWD Off Measured Depth	Vertical Depth	Semi M Reference (ft)	Major Axis Offset (ft)	Highside Toolface	Offset Wellk +N/-S (ft)	oore Centre +E/-W (ft)	Dist Between Centres (ft)	Rule Assignance Between Ellipses	Minimum Separation	Separation Factor	Offset Well Error: Warning	0.00 ft
(ft) 16,000.00	(ft) 5,707.04	(ft) 15,221.08	(ft) 5,600.11	254.61	208.05	(°) -89.21	5,859.32	-10,208.71	1,156.45	(ft) 696.78	(ft) 459.67	2.516		
												2.516		
16,100.00	5,707.64	15,321.08	5,600.79	256.87	210.25	-89.21	5,930.03	-10,279.42	1,156.45	692.30	464.15			
16,200.00	5,708.23	15,421.08	5,601.47	259.14	212.45	-89.22	6,000.74	-10,350.12	1,156.45	687.82	468.63	2.468		
16,300.00	5,708.83	15,521.08	5,602.15	261.40	214.65	-89.22	6,071.45	-10,420.83	1,156.45	683.34	473.11	2.444		
16,400.00	5,709.42	15,621.08	5,602.83	263.66	216.85	-89.23	6,142.16	-10,491.54	1,156.45	678.85	477.60	2.421		
16,500.00	5,710.02	15,721.08	5,603.51	265.93	219.06	-89.23	6,212.87	-10,562.25	1,156.45	674.37	482.08	2.399		
16,600.00	5,710.61	15,821.08	5,604.19	268.19	221.27	-89.24	6,283.58	-10,632.96	1,156.45	669.88	486.57	2.377		
16,700.00	5,711.21	15,921.08	5,604.87	270.46	223.48	-89.24	6,354.29	-10,703.67	1,156.45	665.39	491.06	2.355		
16,800.00	5,711.80	16,021.08	5,605.55	272.73	225.69	-89.24	6,425.00	-10,774.37	1,156.45	660.89	495.55	2.334		
16,900.00	5,712.40	16,121.08	5,606.23	274.99	227.90	-89.25	6,495.71	-10,845.08	1,156.45	656.40	500.05	2.313		
17,000.00	5,712.99	16,221.08	5,606.91	277.26	230.11	-89.25	6,566.42	-10,915.79	1,156.44	651.90	504.54	2.292		
17,001.12	5,713.00	16,222.20	5,606.92	277.29	230.14	-89.25	6,567.21	-10,916.58	1,156.44	651.85	504.59	2.292 CC, ES	, SF	



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

Well Ridge Unit No. 129H **TVD Reference:** RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft MD Reference:

North Reference: Grid

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma DB_Decv0422v16 Database: Offset TVD Reference: Offset Datum

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

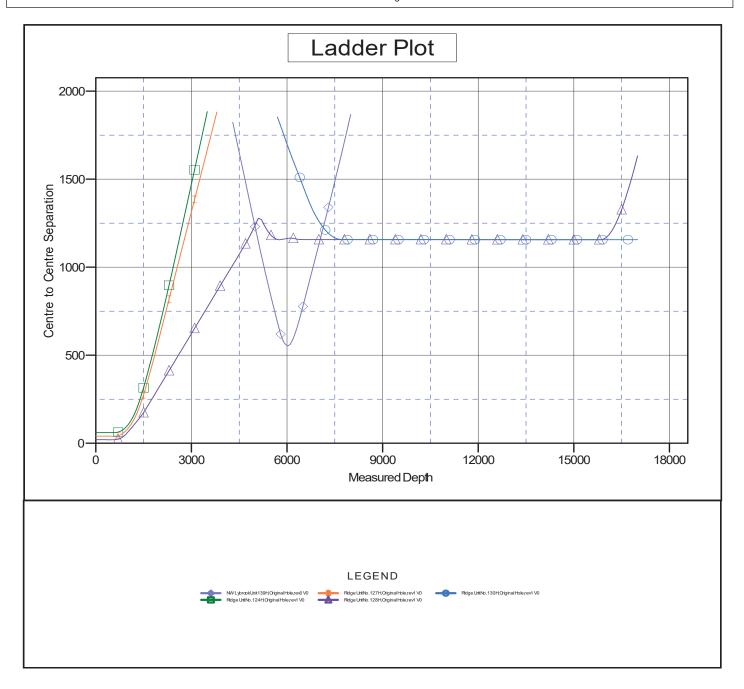
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 129H

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

Grid Convergence at Surface is: 0.12°





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (124, 127, 128 & 129)

Site Error:

Reference Well: Ridge Unit No. 129H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev1

Local Co-ordinate Reference:

Well Ridge Unit No. 129H **TVD Reference:** RKB=6923+25 @ 6948.00ft RKB=6923+25 @ 6948.00ft MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma DB_Decv0422v16 Database: Offset TVD Reference: Offset Datum

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

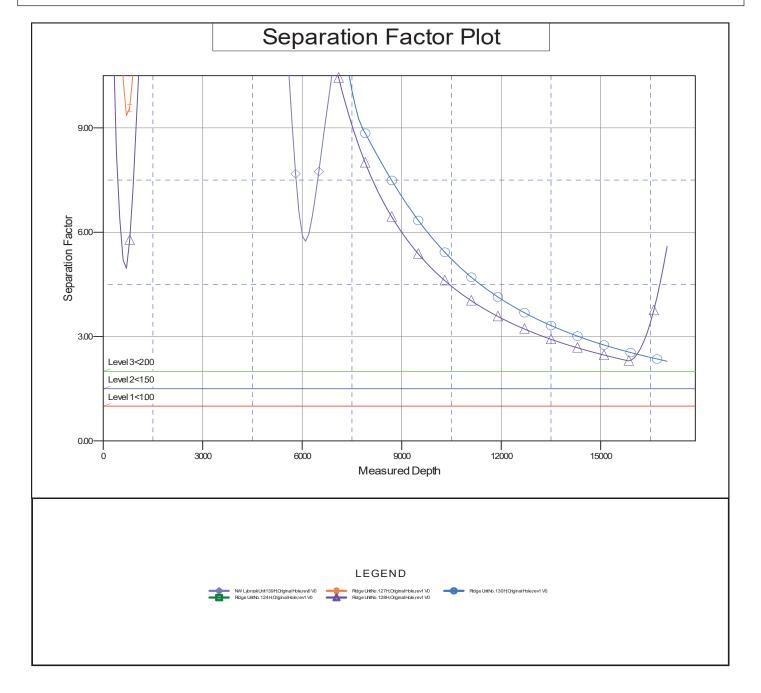
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 129H

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

Grid Convergence at Surface is: 0.12°





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)

Released to Imaging: 2/6/2025 10:34:59 AM

* ENDURING RESOURCES LLC #129H RIDGE UNIT

Lease: NMNM138391 Agreement: NMNM14047X

SH: SE¼NE¼ Section 25, T. 24N., R. 8W. San Juan County, New Mexico BH: NE¼NE¼ 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

Approval Date: 11/22/2024

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 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

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

IV. GAS FLARING

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

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

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/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 420441

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	420441
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/14/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/14/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/6/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/6/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/6/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/6/2025