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. 30-045-38417 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 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

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: SENW / 1822 FNL / 2308 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.287483 / LONG: -107.652295 (TVD: 0 feet, MD: 0 feet) PPP: SWNE / 2384 FNL / 2074 FEL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.285944 / LONG: -107.649229 (TVD: 5442 feet, MD: 5927 feet) PPP: NWNW / 0 FSL / 856 FWL / TWSP: 24N / RANGE: 8W / SECTION: 26 / LAT: 36.292484 / LONG: -107.657277 (TVD: 5607 feet, MD: 16744 feet) PPP: SWSW / 881 FSL / 1 FWL / TWSP: 24N / RANGE: 8W / SECTION: 23 / LAT: 36.294901 / LONG: -107.660253 (TVD: 5607 feet, MD: 16744 feet) PPP: SWSW / 1 FSL / 856 FWL / TWSP: 24N / RANGE: 8W / SECTION: 23 / LAT: 36.294901 / LONG: -107.660253 (TVD: 5607 feet, MD: 16744 feet) PPP: SESE / 881 FSL / 0 FEL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.294901 / LONG: -107.660253 (TVD: 5607 feet, MD: 16744 feet) BHL: NWNW / 237 FNL / 1184 FWL / TWSP: 24N / RANGE: 8W / SECTION: 22 / LAT: 36.306334 / LONG: -107.674329 (TVD: 5607 feet, MD: 16744 feet)

BLM Point of Contact

Name: JEFFREY J TAFOYA
Title: Assistant Field Manager

Phone: (505) 564-7672

Email: JTAFOYA@BLM.GOV

C-102 Submit Electronically Via OCD Permitting

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

	Revised July 9, 2024				
0 1 11 1	☐ Initial Submittal				
Submittal Type					
. , , , ,	☐ As Drilled				

					WELL	LOCATION	I INFORM	MATION				
API Nu		5-384	17	P001	Pool Code 42289			Pool Name LYBROOK GALLUP				
Proper	ty Code 33677	77		Prop	erty Name	RIDGE	UNIT			Well Number	135H	
OGRID	No.	372286		Opera	ator Name EN	DURING RES	SOURCES,	LLC		Ground Level Elevatio		332'
Surfac	e Owner:	☐ State	□ Fee □] Tribal	⊠ Federal		Mineral Ov	vner: □ State □ Fee		Tribal ⊠ Federal		
						Surface L	ocation.					
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W	Line	Latitude		Longitude		County
F	26	24N	8W		1822' NORTH	2308 '	WEST	36.287483 °N		-107.65229	95 °W	SAN JUAN
					В	ottom Hole	. Locatio	חמ				
UL D	Section 22	Township 24N	Range 8W	Lot	Feet from N/S Line 237' NORTH	Feet from E/W 1184'	Line WEST	Latitude 36.306334	°N	Longitude -107.67432	29 °W	County SAN JUAN
Dedica Acre			Penetr	ated Spac	ing Unit:							
							fining Well	Defining Well API		Yes No	Consoli	dation Code
Order	Numbers	R-20594	4				Well setba	cks are under Common Own	nershi	ıp: 🗌 Yes [] No	
					K	ick Off Po	oint (KO	P)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W	Line	Latitude		Longitude		County
F	26	24N	8W		1822' NORTH	2308 '	WEST	36.287483	°N	-107.65229	95 °W	SAN JUAN
					Fil	rst Take P	Point (F	TP)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W	Line	Latitude		Longitude		County
G	26	24N	8W		2384' NORTH	2074'	EAST	36.285944	°N	-107.6492	29 °W	SAN JUAN
					La	st Take P	oint (LT	P)				
UL	Section	Township	Range	Lot	Feet from N/S Line	Feet from E/W		Latitude		Longitude		County
D	22	24N	8W		237' NORTH	1184 '	WEST	36.306334	*N	-107.67432	29 °W	SAN JUAN
Unitize		Area of Un DGE UNI		rest	Spacing Unit Type	zontal 🗆	Vertical	. 🗆 Directional	l	Ground Floor Elevat	ion	
,												
		0.	PERATO	DR CEI	RTIFICATION			SURV	EYC	DR CERTIFICA	TION	
of my	knowledge	and belie	f, and, if i	the well	ned herein is true and comple is a vertical or directional or unleased mineral interest .	well, that this	fie.	ereby certify that the ld notes of actual surv same is true and corre	eys m	ade by me or under m	y superv	was plotted from ision, and that

including the proposed bottom hole location or has a right to drill this well at this 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 12/16/2024

Shaw-Marie Ford

sford@enduringresources.com

E-mail Address



JASON **L**DWARDS

Signature and Seal of Professional Surveyor

Certificate Number

15269

Date of Survey NOVEMBER 30, 2021

BOTTOM HOLE LOCATION (BHL) 237' FNL 1184' FWL SECTION 22, T24N, R8W

> LAT 36.306334°N LONG -107.674329°W DATUM: NAD1983

LAST TAKE POINT (LTP) 237' FNL 1184' FWL SECTION 22, T24N, R8W

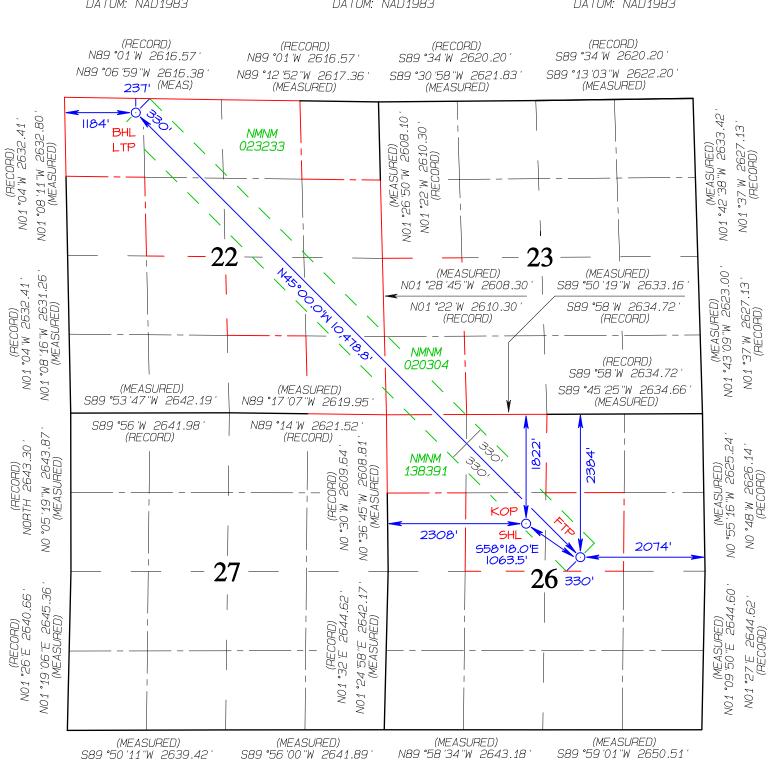
LAT 36.306334°N LONG -107.674329°W DATUM: NAD1983

SURFACE LOCATION (SHL) 1822' FNL 2308' FWL SECTION 26, T24N, R8W

LAT 36.287483 °N LONG -107.652295 °W DATUM: NAD1983 KICK OFF POINT(KOP) 1822' FNL 2308' FWL SECTION 26, T24N, R8W

LAT 36.287483 °N LONG -107.652295 °W DATUM: NAD1983 FIRST TAKE POINT (FTP) 2384' FNL 2074' FEL SECTION 26, T24N, R8W

LAT 36.285944°N LONG -107.649229°W DATUM: NAD1983



N89 °56 'W 2645.28 '

(RECORD)

N89 °56 W 2645.28

(RECORD)

N89 °59 W 2640.66

(RECORD)

N89 °59 W 2640.66

Released to Imaging: [FAG92025 10:17:22 AM

I Operators

Enduring Resources LLC

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 12 / 17 / 2024

[See 19.15.27.9(D)(1) NMAC]

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

OGRID: 372286

i operatormmg r		., 220	0 01112		2	
II. Type: ⊠ Original □ A	mendme	ent due to □ 19.1	5.27.9.D(6)(a) NMAC □	19.15.27.9.D(6)(b)) NMAC □ Othe	r.
If Other, please describe:	-					
III. Well(s): Provide the fo be recompleted from a single					proposed to be d	rilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
				<i>BBL</i> , <i>B</i>	Gas Wei/B	BBL/D
Ridge Unit 130H	TBD	F-26-24N-8W	1815 FNL x 2327 FWL	519	2075	208
Ridge Unit 135H	TBD	F-26-24N-8W	1822 FNL x 2308 FWL	510	2041	204
Ridge Unit 136H	TBD	F-26-24N-8W	1829 FNL x 2289 FWL	446	1786	179
Ridge Unit 137H	TBD	F-26-24N-8W	1835 FNL x 2270 FWL	349	1395	139
				3-year Decline	3-year Decline	3-year Decline
Ridge Unit 130H	TBD	F-26-24N-8W	1815 FNL x 2327 FWL	117	469	47
Ridge Unit 135H	TBD	F-26-24N-8W	1822 FNL x 2308 FWL	115	461	46
Ridge Unit 136H	TBD	F-26-24N-8W	1829 FNL x 2289 FWL	101	403	40
Ridge Unit 137H	TBD	F-26-24N-8W	1835 FNL x 2270 FWL	79	315	32
					•	

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.

IV. Central Delivery Point Name: Chaco Processing Plant

Well Name	API	Spud Date	Date TD Reached Completion Date Commencement Date		Initial Flow Back Date	First Production Date
			2		Buon Buil	2
Ridge Unit 130H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 135H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 136H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Ridge Unit 137H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025

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

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									
	2022, an operator the complete this section		with its statewide natural ga	as cap	pture requirement for the applicable				
_	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:							
Well		API	Anticipated Average Natural Gas Rate MCF/D)	Anticipated Volume of Natural Gas for the First Year MCF				
X. Natural Gas Gathering System (NGGS):									
Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	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 . The natural gas gas	planned interconnect of the gathering system(s) to whethering system will	the natural gas gathering syste which the well(s) will be com will not have capacity to g	em(s), nected	ated pipeline route(s) connecting the and the maximum daily capacity of d. 100% of the anticipated natural gas				
production volume f	from the well prior to	o the date of first produc	tion.						
					the same segment, or portion, of the pressure caused by the new well(s).				
☐ Attach Operator'	s plan to manage pro	oduction in response to t	he 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 Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease: (a) power generation for grid; (b) compression on lease; (c)

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

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

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



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.

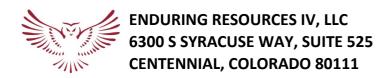
Enduring shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than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



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

WELL INFORMATION:

Name: RIDGE UNIT 135H ER Well Number: Not yet assigned

State: New Mexico County: San Juan

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

Surface Location: 26-24N-08W Sec-Twn-Rng 1,822 ft FNL 2,308 ft FWL

36.287483 ° N latitude 107.652295 ° W longitude (NAD 83) **BH Location:** 22-24N-08W Sec-Twn-Rng 237 ft FNL 1,184 ft FWL

36.306334 $^{\circ}$ N latitude 107.674329 $^{\circ}$ W longitude (NAD 83)

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: South on US Hwy 550 for 42.8 miles

to MM 109.0, Left (North) on CR 7997 for 1.8 miles to fork in road, Right (North-East) for 0.6 miles to fork in road, Right (Straight)(North-East) for 0.1 miles to access road, Left on access road to Ridge Unit 130H Pad. The 135H well is the second well from the East and second closest to the location entrance. From East to West: RU 130H, 135H,

136H and 137H.

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

: Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	5,623	1,234	1,235	W	normal
Kirtland	5,500	1,357	1,359	W	normal
Fruitland	5,280	1,577	1,586	G, W	sub
Pictured Cliffs	4,960	1,897	1,933	G, W	sub
Lewis	4,860	1,997	2,045	G, W	normal
Chacra	4,545	2,312	2,397	G, W	normal
Cliff House	3,445	3,412	3,625	G, W	sub
Menefee	3,440	3,417	3,631	G, W	normal
Point Lookout	2,605	4,252	4,563	G, W	normal
Mancos	2,370	4,487	4,826	O,G	sub (~0.38)
Gallup (MNCS_A)	2,000	4,857	5,228	O,G	sub (~0.38)
MNCS_B	1,915	4,942	5,313	O,G	sub (~0.38)
MNCS_C	1,795	5,062	5,434	O,G	sub (~0.38)
MNCS_Cms	1,715	5,142	5,518	O,G	sub (~0.38)
MNCS_D	1,640	5,217	5,601	O,G	sub (~0.38)
MNCS_E	1,560	5,297	5,698	O,G	sub (~0.38)
MNCS_F	1,505	5,352	5,773	O,G	sub (~0.38)
MNCS_G	1,415	5,442	5,927	O,G	sub (~0.38)
MNCS_H	1,375	5,482	6,009	O,G	sub (~0.38)
MNCS_I	1,325	5,532	6,173	O,G	sub (~0.38)
P.O.E. TARGET	1,415	5,442	5,927	O,G	sub (~0.38)
PROJECTED TD	1,250	5,607	16,744	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:0.43psi/ftEvacuated hole gradient:0.22psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:2,420psiMaximum anticipated surface pressure, assuming partially evacuated hole:1,190psi

Temperature: Maximum anticipated BHT is 140° F or less

H₂S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

casing to TD.

MWD / LWD: MWD surveys with inclination and azimuth in 100' stations (minimum) from drill out of 13-3/8" casing to TD;

Gamma Ray from drill out of 9-5/8" casing to TD; Gamma Ray optional in 12-1/4" intermediate hole

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

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

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 25

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

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

Cu Ft Slurry 505.3

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: MW (ppg) (mL/30 min) PV (cp) (lb/100 sqft) Comments Type pН Fresh Water 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

Minumum:

Logging: None

MU Torque (ft lbs):

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	769	116,634	116,634
Min. S.F.					7.39	3.55	7.31	7.79

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

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

intermediate hole and 8.4 ppg equivalent external pressure gradient Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

Casing Details: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

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

Annular Capacity 13-3/8" casing x 17-1/2" hole annulus Csg capacity

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

Calcium Chloride D-CD2 .3% BWOC

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

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

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

350 ft (MD)	to	3,798 ft (MD)	Hole Section Length:	3,448 ft
350 ft (TVD)	to	3,567 ft (TVD)	Casing Required:	3,798 ft

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

Hole Size: 12-1/4"

Bit / Motor: PDC w/mud motor

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

Logging: None

MU Torque (ft lbs): Minumum:

Pressure Test: NU BOPE and test (as noted above); pressure test 13-3/8" casing to **1,500** psi for 30 minutes.

							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					1,558	1,394	219,233	219,233
Min. S.F.					1.30	2.53	2.57	2.07

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 3,400 Optimum: 4,530 Maximum: 5,660

Casing Details: Float shoe, 1 jt casing, float collar, casing to surface

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1

centralizer per 3 jts to surface

			Yield	Water		Planned TOC	Total Cmt	Total 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	793	1,697
Tail	Type III	14.6	1.380	6.61	20%	3,298	150	207
Displacement	290	est bbls						

Annular Capacity

Stage 1

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

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

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

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

Spacer D-Mud Breaker SAPP

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 D-FP1 0.5% BWOC

Lead 90/10 Poz Enhancer Control Na Metasilicate Dispersant .25 lb/sx Defoamer D-R1 .5% Retarder

BWOC Fluid Loss &

 ASTM Type III
 Gas Migration
 D-CD 2.5% BWOC
 Cello Flace LCM

 Tail
 Blend
 Control
 Dispersant
 .25 lb/sx
 D-R1.2% Retarder

Drake Intermediate Cementing Program

Cement must achieve 500 psi compressive strength before drilling out.

Notify NMOCD & BLM if cement is not circulated to surface. Cement must achieve 500 psi compressive strength before drilling out.

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

3,798	ft (MD)	to	16,744 ft (MD)	Hole Section Length:	12,946 ft
3,567	ft (TVD)	to	5,607 ft (TVD)	Casing Required:	16,744 ft

Estimated KOP:	5,050	ft (MD)	4,688	ft (TVD)
Estimated Landing Point (P.O.E.):	5,927	ft (MD)	5,442	ft (TVD)
Estimated Lateral Length:	10,817	ft (MD)		

					YP			
Fluid:	Type	MW (ppg)	WPS ppm	HTHP	(lb/100 sqft)	ES	OWR	Comment
								WBM as
	ОВМ	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 surveys with inclination and azimuth in 100' stations (minimum) before KOP, every joint from KOP to POE,

every 100' (minimum) from POE to TD; Gamma Ray from drill out of 9-5/8" shoe to TD

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

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

		12.					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					2,770	9,025	345,625	345,625
Min. S.F.					2.69	1.18	1.58	1.29

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running) Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden

fluid with 8.4 ppg equivalent external pressure gradient

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull

MU Torque (ft lbs): Minumum:

3,400 Optimum: 4,530

Maximum: Casing Details: Float shoe, float collar, 1 it casing, float collar, 20' marker joint, toe-intitiation sleeve, casing to KOP with 20' marker

joints spaced approximately in lateral every 2,000', floatation sub at KOP, casing to surface. The toe-initiation sleeve (last-take-point) cannot be placed closer than 330' to the unit boundary when measured perpendicular to the well path.

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

			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	580	1,375
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,826	1,921	3,016

Displacement

369 est bbls

Annular Capacity

cuft/ft

5-1/2" casing x 9-5/8" casing annulus

0.2291

0.2691

0.1245

cuft/ft cuft/ft 5-1/2" casing x 8-1/2" hole annulus 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 11.6 lb/bbl lb/bbl lb/bbl gal/bbl Spacer 163.7 lbs/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 FL24 Fluid Loss .4% GW86 Viscosifier Pozzolan Fly Ash BA90 Bonding Viscosifier 4% R3 Retarder .5% IntegraSeal 0.25 Tail Type G 50% **BWOB BWOB** .1% BWOB **BWOB** Extender 50% Agent 3.0 lb/sx lb/sx

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

FINISH WELL: ND BOP, NU WH, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 10,717

Est Frac Inform: 45 Frac Stages 172,000 bbls slick water 13,940,000 lbs proppant **Flowback:** Well will be flowed back through production tubing. An ESP may be used to assist in load water recovery. **Production:** Well will produce up production tubing via gas-lift into permanent production and storage facilities.

ESTIMATED START DATES:

Drilling: 11/3/2023 **Completion:** 12/18/2023 **Production:** 1/17/2024

Prepared by: G Olson 7/15/2022

G Olson 8/16/2023

WELL NAME: RIDGE UNIT 135H

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.: 6,832 ft ASL (GL) 6,857 ft ASL (KB)

Surface Location: 26-24N-08W Sec-Twn- Rng 1,822 ft FNL ft FWL 2,308 BH Location: 22-24N-08W Sec-Twn- Rng 237 ft FNL 1184 ft FWL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: South on US Hwy 550 for 42.8 miles to MM 109.0, Left (North) on CR 7997 for 1.8 miles to

fork in road, Right (North-East) for 0.6 miles to fork in road, Right (Straight)(North-East) for 0.1 miles to access road, Left on access road to Ridge Unit 130H Pad. The

135H well is the second well from the East and second closest to the location

entrance. From East to West: RU 130H, 135H, 136H and 137H.

QUI	CK REFERENCI	E
Sur TD (MD)	350	ft
Int TD (MD)	3,798	ft
KOP (MD)	5,050	ft
KOP (TVD)	4,688	ft
Target (TVD)	5,442	
Curve BUR	10	°/100 ft
POE (MD)	5,927	ft
TD (MD)	16,744	ft
Lat Len (ft)	10,817	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	3,798	9.625	36.0	J-55	LTC	0	3,798
Production	8.500	16,744	5.500	17.0	P-110	LTC	0	16,744

CEMENT PROPERTIES SUMMARY:

					Hole Cap.		TOC		Total Cu
	Type	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	793	1,697
Inter. (Tail)	Type III	14.6	1.38	6.61	0.3132	20%	3,298	150	207
Prod. (Lead)	ASTM type I/II	12.4	2.37	13.4	0.2291	50%	0	580	1,375
Prod. (Tail)	G:POZ blend	13.3	1.57	7.7	0.2291	10%	4,826	1,921	3,016

COMPLETION / PRODUCTION SUMMARY:

Frac: 30-stage (+/-) plug-and-perf frac with slick water and 10,000,000 lbs (+/-) proppant

Flowback: Flow up production tubing as pressures allow (an ESP may be used to assist in load-water recovery)

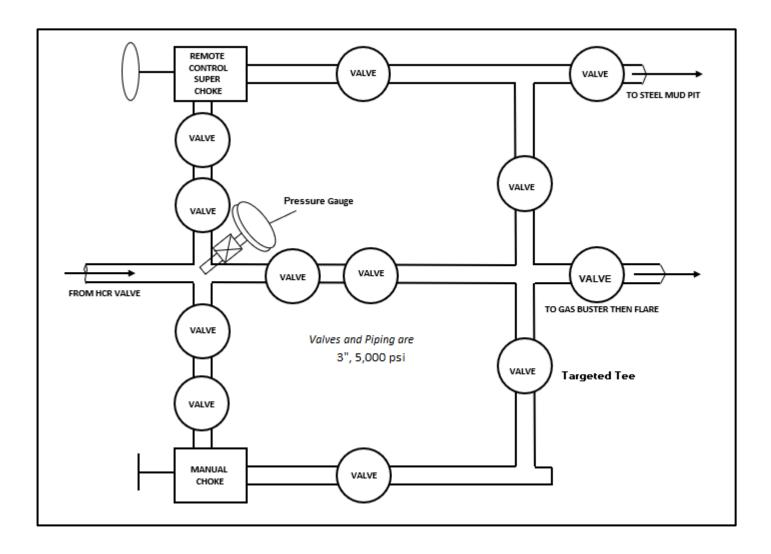
Production: 2-7/8" tubing, ESP will be replaced with gas lift as well conditions dictate

D (MD) 3,798 P (MD) 5,050 P (TVD) 4,688 t (TVD) 5,442		
0 (MD) 3,798 ft P (MD) 5,050 ft P (TVD) 4,688 ft t (TVD) 5,442 ft		
P (MD) 5,050 ft P (TVD) 4,688 ft t (TVD) 5,442 ft		
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	ft	ft
(MD) 5,927 ft]
O (MD) 16,744 ft		
Len (ft) 10,817 ft		
op (ft) Csg Bot (ft)		
350		
3,798		
16,744		

tion Tops TVD (ft KB) jo Alamo 1234 1235 Kirtland 1357 1359 Fruitland 1577 1586 red Cliffs 1897 1933 Lewis 1997 2045 Chacra 2312 2397 iff House 3412 3625 Menefee 3417 3631 Lookout 4252 4563 Mancos 4487 MNCS_A) 4857 5228 MNCS_B 4942 5313 MNCS_C 5062 5434 5142 NCS_Cms 5518 MNCS_D 5217 5601 MNCS_E 5297 5698 MNCS_F 5352 5773 MNCS_G 5442 5927 MNCS_H 5482 6009 MNCS_I 5532 6173 P.O.E. TARGET 5442 5927 PROJECTED TD 5607 16744

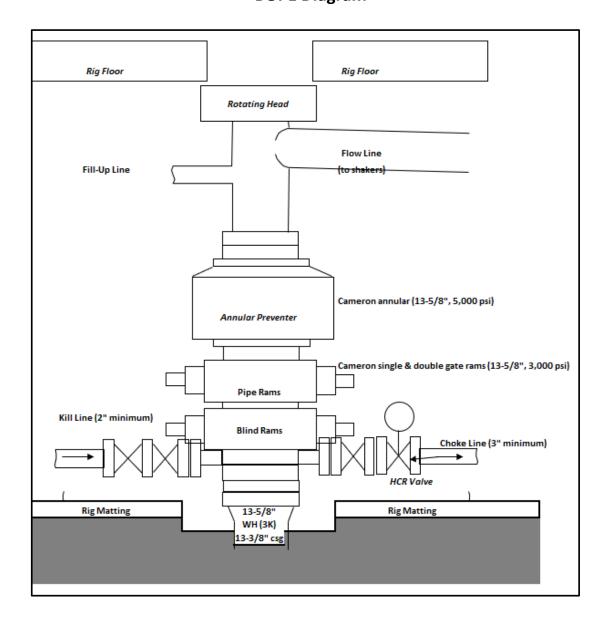


Enduring Resources IV, LLC CHOKE MANIFOLD





Enduring Resources IV, LLC BOPE Diagram





Database: DB_Decv0422v16
Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

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

System Datum:

Mean Sea Level

Site Ridge Unit (130, 135, 136 & 137)

 Site Position:
 Northing:
 1,924,000.063 usft usft
 Latitude:
 36.287502000

 From:
 Lat/Long
 Easting:
 2,776,464.370 usft
 Longitude:
 -107.652231000

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

Well Ridge Unit No. 135H, Surf loc: 1822 FNL 2308 FWL Section 26-T24N-R08W

 Well Position
 +N/-S
 0.00 ft
 Northing:
 1,923,993.112 usft
 Latitude:
 36.287483000

 +E/-W
 0.00 ft
 Easting:
 2,776,445.521 usft
 Longitude:
 -107.652295000

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,832.00 ft

Grid Convergence: 0.11 °

Wellbore Original Hole Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 8/15/2023 8.54 62.77 49,131.85829180

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 0.00 0.00 314.999

Plan Survey Tool Program Date 8/16/2023

Depth From Depth To
(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 16,744.45 rev1 (Original Hole) MWD

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 0.00 0.000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1,000.00 0.00 0.000 1,000.00 0.00 0.00 0.00 0.00 0.00 0.00 1,880.85 26.43 1,849.95 -123.06 157.09 3.00 0.00 128.08 128.075 3.00 5,047.11 26.43 128.075 4,685.38 -992.04 1,266.32 0.00 0.00 0.00 0.00 60.00 -800.00 10.00 3.90 -19.86 -172.30 5,908.71 316.952 5,433.09 1,137.29 5,968.71 60.00 5,463.09 -762.03 1,101.82 0.00 0.00 316.952 0.00 0.00 6,265.63 89.63 314.999 5,540.00 -558.53 904.65 10.00 9.98 -0.66 -3.94 5,607.00 6,850.87 -6,504.94 0.00 16,744.45 89.63 314.999 0.00 0.00 0.00 Ridge 135H LTP 237



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

ned 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		0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00		0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begir	3°/100' build								
1,100.00	3.00	128.075	1,099.95	-1.61	2.06	-2.60	3.00	3.00	0.00
1,200.00	6.00	128.075	1,199.63	-6.45	8.24	-10.39	3.00	3.00	0.00
1,234.59	7.04	128.075	1,234.00	-8.87	11.33	-14.28	3.00	3.00	0.00
Ojo Alamo									
1,300.00	9.00	128.075	1,298.77	-14.50	18.51	-23.34	3.00	3.00	0.00
1,359.11	10.77	128.075	1,357.00	-20.76	26.50	-33.42	3.00	3.00	0.00
Kirtland	10.77	120.070	1,007.00	20.70	20.00	00.12	0.00	0.00	0.00
1,400.00	12.00	128.075	1,397.08	-25.74	32.85	-41.43	3.00	3.00	0.00
1,500.00	15.00	128.075	1,494.31	-40.13	51.23	-64.60	3.00	3.00	0.00
1,586.16	17.58	128.075	1,577.00	-55.04	70.25	-88.59	3.00	3.00	0.00
Fruitland			,						
	40.00	400.075	4 500 40	-57.65	70.50	00.70	2.00	2.00	0.00
1,600.00 1,700.00		128.075 128.075	1,590.18 1,684.43	-57.05 -78.23	73.58 99.86	-92.79 -125.93	3.00 3.00	3.00 3.00	0.00 0.00
1,800.00	24.00	128.075	1,776.81	-101.83	129.98	-163.91	3.00	3.00	0.00
1,880.85	26.43	128.075	1,849.95	-123.06	157.09	-198.10	3.00	3.00	0.00
Begin 26.4		120.070	1,010.00	120.00	107.00	100.10	0.00	0.00	0.00
1,900.00	26.43	128.075	1,867.10	-128.32	163.80	-206.56	0.00	0.00	0.00
,									
1,933.39	26.43	128.075	1,897.00	-137.48	175.49	-221.31	0.00	0.00	0.00
Pictured C		400.075	4.050.05	455.77	400.00	050.74	0.00	0.00	0.00
2,000.00	26.43	128.075	1,956.65	-155.77	198.83	-250.74	0.00	0.00	0.00
2,045.06	26.43	128.075	1,997.00	-168.13	214.61	-270.64	0.00	0.00	0.00
Lewis 2,100.00	26.43	128.075	2,046.20	-183.21	233.86	-294.92	0.00	0.00	0.00
2,100.00	26.43	128.075	2,046.20	-163.21 -210.66	268.90	-294.92 -339.10	0.00	0.00	0.00
			,						
2,300.00		128.075	2,225.31	-238.10	303.93	-383.27	0.00	0.00	0.00
2,396.81	26.43	128.075	2,312.00	-264.67	337.84	-426.04	0.00	0.00	0.00
Chacra	00.45	400.075	0.044.05	005.55	000.00	407.45	2.22	2.22	2.22
2,400.00		128.075	2,314.86	-265.55	338.96	-427.45	0.00	0.00	0.00
2,500.00 2,600.00		128.075 128.075	2,404.41 2,493.96	-292.99 -320.44	374.00 409.03	-471.63 -515.81	0.00 0.00	0.00 0.00	0.00 0.00
2,700.00		128.075	2,583.51	-347.88	444.06	-559.99	0.00	0.00	0.00
2,800.00		128.075	2,673.06	-375.33	479.09	-604.17	0.00	0.00	0.00
2,900.00		128.075	2,762.62	-402.77	514.13	-648.35	0.00	0.00	0.00
3,000.00		128.075	2,852.17	-430.22	549.16	-692.52	0.00	0.00	0.00
3,100.00	26.43	128.075	2,941.72	-457.66	584.19	-736.70	0.00	0.00	0.00
3,200.00	26.43	128.075	3,031.27	-485.11	619.23	-780.88	0.00	0.00	0.00
3,300.00		128.075	3,120.82	-512.55	654.26	-825.06	0.00	0.00	0.00
3,400.00		128.075	3,210.37	-540.00	689.29	-869.24	0.00	0.00	0.00
3,500.00	26.43	128.075	3,299.92	-567.44	724.33	-913.42	0.00	0.00	0.00



Database: Company: DB_Decv0422v16

Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

sign:	rev1								
anned 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)
3,600.00	26.43	128.075	3,389.48	-594.89	759.36	-957.60	0.00	0.00	0.00
3,625.15	26.43	128.075	3,412.00	-601.79	768.17	-968.71	0.00	0.00	0.00
3,630.74	26.43	128.075	3,417.00	-603.32	770.13	-971.18	0.00	0.00	0.00
Menefee									
3,700.00 3,798.24	26.43 26.43	128.075 128.075	3,479.03 3,567.00	-622.33 -649.29	794.39 828.81	-1,001.78 -1,045.18	0.00 0.00	0.00 0.00	0.00 0.00
9 5/8" Csg 3,800.00	26.43	128.075	3,568.58	-649.78	829.42	-1,045.95	0.00	0.00	0.00
3,900.00	26.43	128.075	3,658.13	-677.22	864.46	-1,090.13	0.00	0.00	0.00
4,000.00	26.43	128.075	3,747.68	-704.67	899.49	-1,134.31	0.00	0.00	0.00
4,100.00	26.43	128.075	3,837.23	-732.11	934.52	-1,178.49	0.00	0.00	0.00
4,200.00	26.43	128.075	3,926.78	-759.56	969.56	-1,222.67	0.00	0.00	0.00
4,300.00	26.43	128.075	4,016.34	-787.00	1,004.59	-1,266.85	0.00	0.00	0.00
4,400.00	26.43	128.075	4,105.89	-814.45	1,039.62	-1,311.03	0.00	0.00	0.00
4,500.00	26.43	128.075	4,195.44	-841.89	1,074.66	-1,355.21	0.00	0.00	0.00
4,563.16	26.43	128.075	4,252.00	-859.22	1,096.78	-1,383.11	0.00	0.00	0.00
Point Look	out								
4,600.00 4,700.00	26.43 26.43	128.075 128.075	4,284.99 4,374.54	-869.34 -896.78	1,109.69 1,144.72	-1,399.38 -1,443.56	0.00 0.00	0.00 0.00	0.00 0.00
4,800.00	26.43	128.075	4,464.09	-924.23	1,179.75	-1,487.74	0.00	0.00	0.00
4,825.58	26.43	128.075	4,487.00	-931.25	1,179.73	-1,499.04	0.00	0.00	0.00
Mancos	20.40	120.010	4,407.00	-301.20	1,100.72	-1,400.04	0.00	0.00	0.00
4,900.00	26.43	128.075	4,553.64	-951.67	1,214.79	-1,531.92	0.00	0.00	0.00
5,000.00 5,047.11	26.43 26.43	128.075 128.075	4,643.20 4,685.38	-979.12 -992.04	1,249.82 1,266.32	-1,576.10 -1,596.91	0.00 0.00	0.00 0.00	0.00 0.00
		120.075	4,000.30	-992.04	1,200.32	-1,590.91	0.00	0.00	0.00
Begin 10 71	00' build/turn								
5,050.00	26.14	127.987	4,687.98	-992.83	1,267.33	-1,598.18	10.00	-9.91	-3.04
5,100.00	21.20	126.118	4,733.76	-1,004.95	1,283.32	-1,618.06	10.00	-9.89	-3.74
5,150.00	16.28	123.181	4,781.09	-1,014.12	1,296.50	-1,633.86	10.00	-9.82	-5.87
5,200.00	11.45	117.824	4,829.62	-1,020.27	1,306.76	-1,645.47	10.00	-9.68	-10.71
5,227.81	8.83	112.376	4,857.00	-1,022.37	1,311.18	-1,650.07	10.00	-9.40	-19.59
MNCS_A			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,-	,-	,			
_									
5,250.00	6.84	105.128	4,878.98	-1,023.37	1,314.03	-1,652.79	10.00	-8.97	-32.67
5,300.00	3.54	60.215	4,928.79	-1,023.38	1,318.25	-1,655.78	10.00	-6.60	-89.83
5,313.24	3.44	38.401	4,942.00	-1,022.86	1,318.85	-1,655.84	10.00	-0.77	-164.77
MNCS_B									
5,350.00	5.31	354.931	4,978.66	-1,020.30	1,319.38	-1,654.41	10.00	5.09	-118.25
5,400.00	9.69	335.452	5,028.23	-1,014.17	1,317.43	-1,648.69	10.00	8.75	-38.96
5,434.45	12.97	330.008	5,062.00	-1,008.18	1,314.29	-1,642.24	10.00	9.52	-15.80
MNCS_C									
5,450.00	14.47	328.355	5,077.11	-1,005.02	1,312.40	-1,638.67	10.00	9.68	-10.63
5,500.00	19.36	324.759	5,124.93	-992.92	1,304.33	-1,624.41	10.00	9.78	-7.19
5,518.19	21.15	323.853	5,142.00	-987.81	1,300.66	-1,618.19	10.00	9.85	-4.98
MNCS_Cms		020.000	5,172.00	-307.01	1,000.00	-1,010.19	10.00	9.00	-7.30
5,550.00	24.30	322.577	5,171.34	-977.97	1,293.29	-1,606.03	10.00	9.88	-4.01
5,600.00 5,601.19	29.25 29.37	321.096 321.067	5,215.96 5,217.00	-960.29 -959.83	1,279.36 1,279.00	-1,583.67 -1,583.09	10.00 10.00	9.91 9.93	-2.96 -2.49
MNCS_D					,	,			-
5,650.00	34.22	320.013	5,258.47	-939.99	1,262.64	-1,557.50	10.00	9.94	-2.16
5,698.01	39.00	319.206	5,256.47	-939.99 -918.20	1,244.09	-1,557.50 -1,528.97	10.00	9.9 4 9.95	-2.16 -1.68
	39.00	318.200	5,287.00	-910.20	1,244.09	-1,520.97	10.00	შ.შე	-1.00
MNCS_E				_,		. =====	,		
5,700.00	39.20	319.176	5,298.54	-917.25	1,243.27	-1,527.72	10.00	9.96	-1.50



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
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Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

ign:	rev1								
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,750.00 5,772.94	44.17 46.46	318.500 318.229	5,335.87 5,352.00	-892.23 -880.05	1,221.38 1,210.55	-1,494.56 -1,478.28	10.00 10.00	9.96 9.96	-1.35 -1.18
MNCS_F									
5,800.00 5,850.00 5,900.00	54.14	317.935 317.450 317.022	5,370.18 5,401.19 5,428.68	-865.13 -836.14 -805.50	1,197.15 1,170.76 1,142.41	-1,458.26 -1,419.10 -1,377.38	10.00 10.00 10.00	9.97 9.97 9.97	-1.09 -0.97 -0.86
5,908.71	60.00	316.952	5,433.09	-800.00	1,137.29	-1,369.88	10.00	9.98	-0.80
Begin 60.0 5,926.53	•	316.952	5,442.00	-788.72	1,126.76	-1,354.45	0.00	0.00	0.00
MNCS_G			2, 1 1212		.,	.,			
5,968.71	60.00	316.952	5,463.09	-762.03	1,101.82	-1,317.95	0.00	0.00	0.00
•	100' build/turn								
6,000.00 6,009.01	63.12 64.02	316.711 316.644	5,477.99 5,482.00	-741.97 -736.10	1,083.00 1,077.46	-1,290.45 -1,282.38	10.00 10.00	9.98 9.98	-0.77 -0.74
MNCS_H									
6,050.00 6,100.00 6,150.00 6,173.30	73.10 78.09	316.351 316.016 315.699 315.555	5,498.62 5,515.22 5,527.66 5,532.00	-708.93 -674.91 -640.17 -623.81	1,051.68 1,019.03 985.32 969.31	-1,244.94 -1,197.80 -1,149.40 -1,126.51	10.00 10.00 10.00 10.00	9.98 9.98 9.98 9.98	-0.71 -0.67 -0.64 -0.62
MNCS			,						
6,200.00		315.392	5,535.83	-604.97	950.78	-1,100.09	10.00	9.98	-0.61
6,250.00 6,265.63		315.092 314.999	5,539.69 5,540.00	-569.59 -558.53	915.69 904.65	-1,050.25 -1,034.62	10.00 10.00	9.98 9.98	-0.60 -0.60
Begin 89.6	3° lateral								
6,300.00		314.999	5,540.22	-534.22	880.35	-1,000.26	0.00	0.00	0.00
6,400.00 6,500.00		314.999 314.999	5,540.86 5,541.50	-463.52 -392.81	809.64 738.93	-900.26 -800.26	0.00 0.00	0.00 0.00	0.00 0.00
6,600.00	89.63	314.999	5,542.14	-322.10	668.22	-700.26	0.00	0.00	0.00
6,700.00		314.999	5,542.78	-251.39	597.51	-600.27	0.00	0.00	0.00
6,800.00		314.999	5,543.41	-180.68	526.80	-500.27	0.00	0.00	0.00
6,900.00		314.999	5,544.05	-109.97	456.09	-400.27	0.00	0.00	0.00
7,000.00		314.999	5,544.69	-39.27	385.38	-300.27	0.00	0.00	0.00
7,100.00	89.63	314.999	5,545.33	31.44	314.67	-200.27	0.00	0.00	0.00
7,200.00		314.999	5,545.97	102.15	243.96	-100.28	0.00	0.00	0.00
7,300.00		314.999	5,546.61	172.86	173.25	-0.28	0.00	0.00	0.00
7,400.00		314.999	5,547.25	243.57	102.54	99.72	0.00	0.00	0.00
7,500.00	89.63	314.999	5,547.89	314.27	31.83	199.72	0.00	0.00	0.00
7,600.00	89.63	314.999	5,548.53	384.98	-38.89	299.72	0.00	0.00	0.00
7,700.00		314.999	5,549.17	455.69	-109.60	399.71	0.00	0.00	0.00
7,800.00		314.999	5,549.81	526.40	-180.31	499.71	0.00	0.00	0.00
7,900.00		314.999	5,550.45	597.11	-251.02	599.71	0.00	0.00	0.00
8,000.00		314.999	5,551.09	667.82	-321.73	699.71	0.00	0.00	0.00
8,100.00	89.63	314.999	5,551.73	738.52	-392.44	799.71	0.00	0.00	0.00
8,200.00		314.999	5,552.37	809.23	-463.15	899.70	0.00	0.00	0.00
8,300.00	89.63	314.999	5,553.01	879.94	-533.86	999.70	0.00	0.00	0.00
8,400.00	89.63	314.999	5,553.65	950.65	-604.57	1,099.70	0.00	0.00	0.00
8,500.00	89.63	314.999	5,554.28	1,021.36	-675.28	1,199.70	0.00	0.00	0.00
8,600.00		314.999	5,554.92	1,092.07	-745.99	1,299.70	0.00	0.00	0.00
8,700.00		314.999	5,555.56	1,162.77	-816.70	1,399.69	0.00	0.00	0.00
8,800.00		314.999	5,556.20	1,233.48	-887.41	1,499.69	0.00	0.00	0.00
8,900.00		314.999	5,556.84	1,304.19	-958.12	1,599.69	0.00	0.00	0.00
9,000.00		314.999	5,557.48	1,374.90	-1,028.83	1,699.69	0.00	0.00	0.00
9,100.00	89.63	314.999	5,558.12	1,445.61	-1,099.54	1,799.69	0.00	0.00	0.00



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Grid

	rev1								
anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,200.00	89.63	314.999	5,558.76	1,516.32	-1,170.25	1,899.68	0.00	0.00	0.00
9,300.00	89.63	314.999	5,559.40	1,587.02	-1,240.96	1,999.68	0.00	0.00	0.00
9,400.00	89.63	314.999	5,560.04	1,657.73	-1,311.67	2,099.68	0.00	0.00	0.00
9,500.00	89.63	314.999	5,560.68	1,728.44	-1,382.38	2,199.68	0.00	0.00	0.00
9,600.00	89.63	314.999	5,561.32	1,799.15	-1,453.09	2,299.68	0.00	0.00	0.00
9,700.00	89.63	314.999	5,561.96	1,869.86	-1,523.80	2,399.67	0.00	0.00	0.00
9,800.00	89.63	314.999	5,562.60	1,940.57	-1,594.51	2,499.67	0.00	0.00	0.00
9,900.00	89.63	314.999	5,563.24	2,011.27	-1,665.22	2,599.67	0.00	0.00	0.00
10,000.00	89.63	314.999	5,563.88	2,081.98	-1,735.93	2,699.67	0.00	0.00	0.00
10 100 00	90.63	214 000	E EG4 EQ	0.450.60	1 906 64	2.700.66	0.00	0.00	0.00
10,100.00	89.63	314.999	5,564.52 5,565.15	2,152.69 2,223.40	-1,806.64	2,799.66	0.00	0.00 0.00	0.00
10,200.00	89.63	314.999	5,565.79	,	-1,877.35	2,899.66	0.00		0.00
10,300.00 10,400.00	89.63 89.63	314.999 314.999	5,566.43	2,294.11 2,364.82	-1,948.06 -2,018.77	2,999.66 3,099.66	0.00 0.00	0.00 0.00	0.00 0.00
10,500.00	89.63	314.999	5,567.07	2,364.62	-2,016.77 -2,089.48	3,199.66	0.00	0.00	0.00
10,600.00	89.63	314.999	5,567.71	2,506.23	-2,160.19	3,299.65	0.00	0.00	0.00
10,700.00	89.63	314.999	5,568.35	2,576.94	-2,230.90	3,399.65	0.00	0.00	0.00
10,800.00	89.63	314.999	5,568.99	2,647.65	-2,301.61	3,499.65	0.00	0.00	0.00
10,900.00	89.63	314.999	5,569.63	2,718.36	-2,372.32	3,599.65	0.00	0.00	0.00
11,000.00	89.63	314.999	5,570.27	2,789.07	-2,443.03	3,699.65	0.00	0.00	0.00
11,100.00	89.63	314.999	5,570.91	2,859.77	-2,513.74	3,799.64	0.00	0.00	0.00
11,200.00	89.63	314.999	5,571.55	2,930.48	-2,584.45	3,899.64	0.00	0.00	0.00
11,300.00	89.63	314.999	5,572.19	3,001.19	-2,655.16	3,999.64	0.00	0.00	0.00
11,400.00	89.63	314.999	5,572.83	3,071.90	-2,725.87	4,099.64	0.00	0.00	0.00
11,500.00	89.63	314.999	5,573.47	3,142.61	-2,796.58	4,199.64	0.00	0.00	0.00
11,600.00	89.63	314.999	5,574.11	3,213.32	-2,867.29	4,299.63	0.00	0.00	0.00
11,700.00	89.63	314.999	5,574.75	3,284.02	-2,938.00	4,399.63	0.00	0.00	0.00
11,800.00	89.63	314.999	5,575.39	3,354.73	-3,008.71	4,499.63	0.00	0.00	0.00
11,900.00	89.63	314.999	5,576.02	3,425.44	-3,079.42	4,599.63	0.00	0.00	0.00
12,000.00	89.63	314.999	5,576.66	3,496.15	-3,150.13	4,699.63	0.00	0.00	0.00
12,100.00	89.63	314.999	5,577.30	3,566.86	-3,220.84	4,799.62	0.00	0.00	0.00
12,200.00	89.63	314.999	5,577.94	3,637.57	-3,291.55	4,899.62	0.00	0.00	0.00
12,300.00	89.63	314.999	5,578.58	3,708.27	-3,362.26	4,999.62	0.00	0.00	0.00
12,400.00	89.63	314.999	5,579.22	3,778.98	-3,432.97	5,099.62	0.00	0.00	0.00
12,500.00	89.63	314.999	5,579.86	3,849.69	-3,503.68	5,199.62	0.00	0.00	0.00
12,600.00	89.63	314.999	5,580.50	3,920.40	-3,574.39	5,299.61	0.00	0.00	0.00
12,700.00	89.63	314.999	5,581.14	3,991.11	-3,645.10	5,399.61	0.00	0.00	0.00
12,800.00	89.63	314.999	5,581.78	4,061.82	-3,715.81	5,499.61	0.00	0.00	0.00
12,900.00	89.63	314.999	5,582.42	4,132.52	-3,786.52	5,599.61	0.00	0.00	0.00
13,000.00	89.63	314.999	5,583.06	4,203.23	-3,857.23	5,699.61	0.00	0.00	0.00
13,100.00	89.63	314.999	5,583.70	4,273.94	-3,927.94	5,799.60	0.00	0.00	0.00
13,200.00	89.63	314.999	5,584.34	4,344.65	-3,998.65	5,899.60	0.00	0.00	0.00
13,300.00	89.63	314.999	5,584.98	4,415.36	-4,069.36	5,999.60	0.00	0.00	0.00
13,400.00	89.63	314.999	5,585.62	4,486.07	-4,140.07	6,099.60	0.00	0.00	0.00
13,500.00	89.63	314.999	5,586.25	4,556.77	-4,210.78	6,199.60	0.00	0.00	0.00
13,600.00	89.63	314.999	5,586.89	4,627.48	-4,281.49	6,299.59	0.00	0.00	0.00
13,700.00	89.63	314.999	5,587.53	4,698.19	-4,352.20	6,399.59	0.00	0.00	0.00
13,800.00	89.63	314.999	5,588.17	4,768.90	-4,422.92	6,499.59	0.00	0.00	0.00
13,900.00	89.63	314.999	5,588.81	4,839.61	-4,493.63	6,599.59	0.00	0.00	0.00
14,000.00	89.63	314.999	5,589.45	4,910.31	-4,564.34	6,699.59	0.00	0.00	0.00
14,100.00	89.63	314.999	5,590.09	4,981.02	-4,635.05	6,799.58	0.00	0.00	0.00
14,200.00	89.63	314.999	5,590.73	5,051.73	-4,705.76	6,899.58	0.00	0.00	0.00
14,300.00	89.63	314.999	5,591.37	5,122.44	-4,776.47	6,999.58	0.00	0.00	0.00
14,400.00	89.63	314.999	5,592.01	5,193.15	-4,847.18	7,099.58	0.00	0.00	0.00
14,500.00	89.63	314.999	5,592.65	5,263.86	-4,917.89	7,199.58	0.00	0.00	0.00



Database: Company: Project: DB_Decv0422v16 Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
14,600.00 14,700.00 14,800.00 14,900.00 15,000.00	89.63 89.63 89.63 89.63	314.999 314.999 314.999 314.999 314.999	5,593.29 5,593.93 5,594.57 5,595.21 5,595.85	5,334.56 5,405.27 5,475.98 5,546.69 5,617.40	-4,988.60 -5,059.31 -5,130.02 -5,200.73 -5,271.44	7,299.57 7,399.57 7,499.57 7,599.57 7,699.56	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
15,100.00 15,200.00 15,300.00 15,400.00 15,500.00	89.63 89.63 89.63 89.63	314.999 314.999 314.999 314.999 314.999	5,596.49 5,597.12 5,597.76 5,598.40 5,599.04	5,688.11 5,758.81 5,829.52 5,900.23 5,970.94	-5,342.15 -5,412.86 -5,483.57 -5,554.28 -5,624.99	7,799.56 7,899.56 7,999.56 8,099.56 8,199.55	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
15,600.00 15,700.00 15,800.00 15,900.00 16,000.00	89.63 89.63 89.63 89.63	314.999 314.999 314.999 314.999 314.999	5,599.68 5,600.32 5,600.96 5,601.60 5,602.24	6,041.65 6,112.36 6,183.06 6,253.77 6,324.48	-5,695.70 -5,766.41 -5,837.12 -5,907.83 -5,978.54	8,299.55 8,399.55 8,499.55 8,599.55 8,699.54	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
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	89.63 89.63 89.63 89.63	314.999 314.999 314.999 314.999	5,602.88 5,603.52 5,604.16 5,604.80 5,605.44	6,395.19 6,465.90 6,536.61 6,607.31 6,678.02	-6,049.25 -6,119.96 -6,190.67 -6,261.38 -6,332.09	8,799.54 8,899.54 8,999.54 9,099.54 9,199.53	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
16,600.00 16,700.00 16,744.45	89.63 89.63	314.999 314.999 314.999	5,606.08 5,606.72 5,607.00	6,748.73 6,819.44 6,850.87	-6,402.80 -6,473.51 -6,504.94	9,299.53 9,399.53 9,443.98	0.00 0.00 0.00	0.00 0.00 0.00	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 135H FTP 2384 F - plan hits target cent - Point	0.00 er	0.000	5,540.00	-558.53	904.65	1,923,434.580	2,777,350.169	36.285944000	-107.649229000
Ridge 135H LTP 237 FN - plan hits target cent - Point	0.00 er	0.000	5,607.00	6,850.87	-6,504.94	1,930,843.965	2,769,940.597	36.306334000	-107.674329000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 3,798.24		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 (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

ormations							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)
	1,234.59	1,234.00	Ojo Alamo				
	1,359.11	1,357.00	Kirtland				
	1,586.16	1,577.00	Fruitland				
	1,933.39	1,897.00	Pictured Cliffs				
	2,045.06	1,997.00	Lewis				
	2,396.81	2,312.00	Chacra				
	3,625.15	3,412.00	Cliff House				
	3,630.74	3,417.00	Menefee				
	4,563.16	4,252.00	Point Lookout				
	4,825.58	4,487.00	Mancos				
	5,227.81	4,857.00	MNCS_A				
	5,313.24	4,942.00	MNCS_B				
	5,434.45	5,062.00	MNCS_C				
	5,518.19	5,142.00	MNCS_Cms				
	5,601.19	5,217.00	MNCS_D				
	5,698.01	5,297.00	MNCS_E				
	5,772.94	5,352.00	MNCS_F				
	5,926.53	5,442.00	MNCS_G				
	6,009.01	5,482.00	MNCS_H				
	6,173.30	5,532.00	MNCS_I				

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth (ft)	Depth (ft)	+N/-S	+E/-W	Comment
		(ft)	(ft)	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,880.85	1,849.95	-123.06	157.09	Begin 26.43° tangent
5,047.11	4,685.38	-992.04	1,266.32	Begin 10°/100' build/turn
5,908.71	5,433.09	-800.00	1,137.29	Begin 60.00° tangent
5,968.71	5,463.09	-762.03	1,101.82	Begin 10°/100' build/turn
6,265.63	5,540.00	-558.53	904.65	Begin 89.63° lateral
16,744.45	5,607.00	6,850.87	-6,504.94	PBHL/TD @ 16744.45 MD 5607.00 TVD

49,131.85829180



Planning Report - Geographic

Database: DB_Decv0422v16
Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

 Site:
 Ridge Unit (130, 135, 136 & 137)

 Well:
 Ridge Unit No. 135H

Well: Ridge Unit No. 135
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Minimum Curvature

62.77

314.999

Project San Juan County, New Mexico NAD83 NM W

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

System Datum: Mean Sea Level

bystem batam.

Site Ridge Unit (130, 135, 136 & 137)

 Site Position:
 Northing:
 1,924,000.063 usft
 Latitude:
 36.287502000

 From:
 Lat/Long
 Easting:
 2,776,464.370 usft
 Longitude:
 -107.652231000

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

Well Ridge Unit No. 135H, Surf loc: 1822 FNL 2308 FWL Section 26-T24N-R08W

 Well Position
 +N/-S
 0.00 ft
 Northing:
 1,923,993.112 usft
 Latitude:
 36.287483000

 +E/-W
 0.00 ft
 Easting:
 2,776,445.521 usft
 Longitude:
 -107.652295000

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,832.00 ft

Grid Convergence: 0.11 °

Wellbore Original Hole

Magnetics Model Name Sample Date Declination Dip Angle Field Strength

(°) (°) (nT)

8.54

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

1 0.00 16,744.45 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 1,000.00 0.00 0.000 1,000.00 0.00 0.00 0.00 0.00 0.00 0.00 1,880.85 26.43 128.075 1,849.95 -123.06 157.09 3.00 3.00 0.00 128.08 26.43 128.075 4,685.38 -992.04 1,266.32 0.00 0.00 0.00 5,047.11 0.00 5.908.71 60.00 316.952 5.433.09 -800.00 1.137.29 10.00 3.90 -19.86 -172.30 0.00 60.00 316.952 5,463.09 -762.03 1,101.82 0.00 0.00 0.00 5,968.71 10.00 9.98 -3.94 6,265.63 89.63 314.999 5,540.00 -558.53 904.65 -0.6616,744.45 89.63 314.999 5,607.00 6,850.87 -6,504.94 0.00 0.00 0.00 0.00 Ridge 135H 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 (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Planned Survey	1								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
100.00	0.00	0.000	100.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
200.00	0.00	0.000	200.00	0.00 0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
300.00 350.00	0.00	0.000 0.000	300.00 350.00	0.00	0.00 0.00	1,923,993.112 1,923,993.112	2,776,445.521 2,776,445.521	36.287483000 36.287483000	-107.652295000 -107.652295000
13 3/8" (0.000	330.00	0.00	0.00	1,320,330.112	2,110,443.321	30.207403000	-107.032293000
400.00	0.00	0.000	400.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
500.00	0.00	0.000	500.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
600.00	0.00	0.000	600.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
700.00	0.00	0.000	700.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
800.00	0.00	0.000	800.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
900.00	0.00	0.000	900.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,923,993.112	2,776,445.521	36.287483000	-107.652295000
	gin 3°/100' bui								
1,100.00	3.00	128.075	1,099.95	-1.61	2.06	1,923,991.498	2,776,447.581	36.287478556	-107.652288019
1,200.00	6.00	128.075	1,199.63	-6.45	8.24	1,923,986.660	2,776,453.757	36.287465234	-107.652267095
1,234.59	7.04	128.075	1,234.00	-8.87	11.33	1,923,984.238	2,776,456.848	36.287458565	-107.652256621
Ojo Alan		400.075	4 000 77	44.50	40.54	4 000 070 044	0.770.404.004	20.007442074	407.05000005
1,300.00 1,359.11	9.00 10.77	128.075 128.075	1,298.77 1,357.00	-14.50 -20.76	18.51 26.50	1,923,978.611 1,923,972.352	2,776,464.031 2,776,472.020	36.287443071 36.287425836	-107.652232285 -107.652205215
Kirtland	10.77	120.073	1,337.00	-20.76	20.50	1,923,972.332	2,770,472.020	30.207423030	-107.032203213
1,400.00	12.00	128.075	1,397.08	-25.74	32.85	1,923,967.374	2,776,478.375	36.287412128	-107.652183685
1,500.00	15.00	128.075	1,494.31	-40.13	51.23	1,923,952.979	2,776,496.750	36.287372491	-107.652121429
1,586.16	17.58	128.075	1,577.00	-55.04	70.25	1,923,938.074	2,776,515.775	36.287331448	-107.652056966
Fruitland			,,			,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
1,600.00	18.00	128.075	1,590.18	-57.65	73.58	1,923,935.466	2,776,519.105	36.287324266	-107.652045686
1,700.00	21.00	128.075	1,684.43	-78.23	99.86	1,923,914.883	2,776,545.379	36.287267588	-107.651956665
1,800.00	24.00	128.075	1,776.81	-101.83	129.98	1,923,891.285	2,776,575.500	36.287202610	-107.651854609
1,880.85	26.43	128.075	1,849.95	-123.06	157.09	1,923,870.048	2,776,602.609	36.287144131	-107.651762761
_	3.43° tangent								
1,900.00	26.43	128.075	1,867.10	-128.32	163.80	1,923,864.792	2,776,609.319	36.287129657	-107.651740027
1,933.39	26.43	128.075	1,897.00	-137.48	175.49	1,923,855.629	2,776,621.015	36.287104425	-107.651700397
Pictured									
2,000.00	26.43	128.075	1,956.65	-155.77	198.83	1,923,837.347	2,776,644.351	36.287054084	-107.651621331
2,045.06	26.43	128.075	1,997.00	-168.13	214.61	1,923,824.982	2,776,660.136	36.287020034	-107.651567852
Lewis	00.40	400.075	0.040.00	400.04	222.00	4 000 000 000	0.770.070.004	20.000070540	407.054500004
2,100.00 2,200.00	26.43 26.43	128.075 128.075	2,046.20 2,135.76	-183.21 -210.66	233.86 268.90	1,923,809.902 1.923.782.457	2,776,679.384 2,776,714.417	36.286978510 36.286902937	-107.651502634 -107.651383938
2,200.00	26.43	128.075	2,135.76	-210.00	303.93	1,923,755.012	2,776,714.417	36.286827363	-107.651265243
2,396.81	26.43	128.075	2,312.00	-264.67	337.84	1,923,728.443	2,776,783.365	36.286754202	-107.651150336
Chacra			_,-,-,-,-			.,,	_,,		
2,400.00	26.43	128.075	2,314.86	-265.55	338.96	1,923,727.567	2,776,784.483	36.286751789	-107.651146547
2,500.00	26.43	128.075	2,404.41	-292.99	374.00	1,923,700.122	2,776,819.516	36.286676216	-107.651027852
2,600.00	26.43	128.075	2,493.96	-320.44	409.03	1,923,672.677	2,776,854.549	36.286600642	-107.650909157
2,700.00	26.43	128.075	2,583.51	-347.88	444.06	1,923,645.232	2,776,889.582	36.286525068	-107.650790462
2,800.00	26.43	128.075	2,673.06	-375.33	479.09	1,923,617.787	2,776,924.615	36.286449494	-107.650671767
2,900.00	26.43	128.075	2,762.62	-402.77	514.13	1,923,590.342	2,776,959.648	36.286373919	-107.650553073
3,000.00	26.43	128.075	2,852.17	-430.22	549.16	1,923,562.897	2,776,994.680	36.286298345	-107.650434379
3,100.00	26.43	128.075	2,941.72	-457.66	584.19	1,923,535.452	2,777,029.713	36.286222770	-107.650315685
3,200.00	26.43	128.075	3,031.27	-485.11 512.55	619.23	1,923,508.007	2,777,064.746	36.286147196	-107.650196991
3,300.00 3,400.00	26.43 26.43	128.075 128.075	3,120.82 3,210.37	-512.55 -540.00	654.26 689.29	1,923,480.563 1,923,453.118	2,777,099.779 2,777,134.812	36.286071621 36.285996046	-107.650078297 -107.649959604
3,500.00	26.43	128.075	3,299.92	-540.00 -567.44	724.33	1,923,425.673	2,777,169.845	36.285920471	-107.649840911
3,300.00	20.73	120.010	0,200.02	-001.77	124.00	1,020,720.010	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00.200320471	-107.04040411



Planning Report - Geographic

Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Design:	rev1								
Planned Survey									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
3,600.00	26.43	128.075	3,389.48	-594.89	759.36	1,923,398.228	2,777,204.878	36.285844896	-107.649722218
3,625.15	26.43	128.075	3,412.00	-601.79	768.17	1,923,391.325	2,777,213.689	36.285825887	-107.649692364
Cliff Hou		100.075	0.447.00	200.00	770.10	4 000 000 700	0.777.045.045	00.005004007	407.040005707
3,630.74	26.43	128.075	3,417.00	-603.32	770.13	1,923,389.792	2,777,215.645	36.285821667	-107.649685737
Menefee 3,700.00	26.43	128.075	3,479.03	-622.33	794.39	1,923,370.783	2,777,239.911	36.285769321	-107.649603526
3,798.24	26.43	128.075	3,567.00	-649.29	828.81	1,923,370.763	2,777,274.326	36.285695078	-107.649486926
9 5/8" Cs		120.070	0,007.00	0.10.20	020.01	1,020,010.022	2,777,277.020	00.20000010	107.010100020
3,800.00	26.43	128.075	3,568.58	-649.78	829.42	1,923,343.338	2,777,274.944	36.285693745	-107.649484833
3,900.00	26.43	128.075	3,658.13	-677.22	864.46	1,923,315.893	2,777,309.977	36.285618170	-107.649366141
4,000.00	26.43	128.075	3,747.68	-704.67	899.49	1,923,288.448	2,777,345.009	36.285542594	-107.649247449
4,100.00	26.43	128.075	3,837.23	-732.11	934.52	1,923,261.003	2,777,380.042	36.285467019	-107.649128758
4,200.00	26.43	128.075	3,926.78	-759.56	969.56	1,923,233.558	2,777,415.075	36.285391443	-107.649010066
4,300.00	26.43	128.075	4,016.34	-787.00	1,004.59	1,923,206.113	2,777,450.108	36.285315867	-107.648891375
4,400.00	26.43	128.075	4,105.89	-814.45	1,039.62	1,923,178.668	2,777,485.141	36.285240291	-107.648772684
4,500.00	26.43	128.075	4,195.44	-841.89	1,074.66	1,923,151.223	2,777,520.174	36.285164715	-107.648653993
4,563.16	26.43	128.075	4,252.00	-859.22	1,096.78	1,923,133.889	2,777,542.301	36.285116980	-107.648579028
Point Lo									
4,600.00	26.43	128.075	4,284.99	-869.34	1,109.69	1,923,123.778	2,777,555.207	36.285089139	-107.648535303
4,700.00	26.43	128.075	4,374.54	-896.78	1,144.72	1,923,096.333	2,777,590.240	36.285013562	-107.648416612
4,800.00	26.43	128.075	4,464.09	-924.23	1,179.75	1,923,068.888	2,777,625.273	36.284937986	-107.648297922
4,825.58	26.43	128.075	4,487.00	-931.25	1,188.72	1,923,061.868	2,777,634.234	36.284918653	-107.648267562
Mancos									
4,900.00	26.43	128.075	4,553.64	-951.67	1,214.79	1,923,041.443	2,777,660.305	36.284862409	-107.648179234
5,000.00	26.43	128.075	4,643.20	-979.12	1,249.82	1,923,013.998	2,777,695.338	36.284786832	-107.648060544
5,047.11	26.43	128.075	4,685.38	-992.04	1,266.32	1,923,001.069	2,777,711.842	36.284751228	-107.648004630
Begin 10			4.007.00	000.00	4 007 00	4 000 000 004	0.777.740.050	20.004740057	407.040004044
5,050.00	26.14	127.987	4,687.98	-992.83 1.004.05	1,267.33	1,923,000.281	2,777,712.850	36.284749057	-107.648001214
5,100.00	21.20	126.118	4,733.76	-1,004.95	1,283.32	1,922,988.166	2,777,728.842	36.284715694	-107.647947032
5,150.00	16.28	123.181	4,781.09	-1,014.12	1,296.50	1,922,978.996	2,777,742.019	36.284690434	-107.647902384
5,200.00 5,227.81	11.45 8.83	117.824 112.376	4,829.62 4,857.00	-1,020.27 -1,022.37	1,306.76 1,311.18	1,922,972.841 1,922,970.739	2,777,752.279 2,777,756.695	36.284673470 36.284667675	-107.647867609 -107.647852639
		112.370	4,637.00	-1,022.37	1,311.10	1,922,970.739	2,777,750.095	30.204007073	-107.047652659
MNCS_A	6.84	105.128	4,878.98	-1,023.37	1,314.03	1,922,969.746	2,777,759.546	36.284664931	-107.647842972
5,250.00 5,300.00	3.54	60.215	4,070.90	-1,023.37	1,314.03	1,922,969.746	2,777,763.764	36.284664881	-107.647828662
5,313.24	3.44	38.401	4,942.00	-1,023.36	1,318.85	1,922,970.250	2,777,764.366	36.284666291	-107.647826617
,		00.401	4,542.00	-1,022.00	1,010.00	1,022,070.200	2,777,704.000	00.204000201	-107.047020017
MNCS_B 5,350.00	5.31	354.931	4,978.66	-1,020.30	1,319.38	1,922,972.810	2,777,764.900	36.284673321	-107.647824786
5,400.00	9.69	335.452	5,028.23	-1,020.30	1,317.43	1,922,972.810	2,777,762.947	36.284690187	-107.647831374
5,434.45	12.97	330.008	5,062.00	-1,008.18	1,314.29	1,922,984.931	2,777,759.810	36.284706643	-107.647841977
MNCS_C		555.000	3,302.00	.,000.10	.,0.1.20	.,022,001.001	_, ,. 00.010	00.207700070	
5,450.00	14.47	328.355	5,077.11	-1,005.02	1,312.40	1,922,988.097	2,777,757.918	36.284715350	-107.647848376
5,500.00	19.36	324.759	5,124.93	-992.92	1,304.33	1,923,000.192	2,777,749.853	36.284748619	-107.647875663
5,518.19	21.15	323.853	5,142.00	-987.81	1,300.66	1,923,005.306	2,777,746.177	36.284762687	-107.647888105
MNCS_C					•				
5,550.00	24.30	322.577	5,171.34	-977.97	1,293.29	1,923,015.140	2,777,738.813	36.284789741	-107.647913027
5,600.00	29.25	321.096	5,215.96	-960.29	1,279.36	1,923,032.828	2,777,724.881	36.284838402	-107.647960184
5,601.19	29.37	321.067	5,217.00	-959.83	1,279.00	1,923,033.282	2,777,724.514	36.284839651	-107.647961425
MNCS_D)								
5,650.00	34.22	320.013	5,258.47	-939.99	1,262.64	1,923,053.120	2,777,708.163	36.284894233	-107.648016775
5,698.01	39.00	319.206	5,297.00	-918.20	1,244.09	1,923,074.912	2,777,689.608	36.284954195	-107.648079592
MNCS_E									
5,700.00	39.20	319.176	5,298.54	-917.25	1,243.27	1,923,075.862	2,777,688.788	36.284956808	-107.648082369



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

gii.	1641								
ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									_
5,750.00	44.17	318.500	5,335.87	-892.23	1,221.38	1,923,100.881	2,777,666.902	36.285025652	-107.6481564
5,772.94	46.46	318.229	5,352.00	-880.05	1,210.55	1,923,113.067	2,777,656.067	36.285059186	-107.6481931
MNCS_F		247.025	F 270 10	96E 12	1 107 15	1 000 107 006	2,777,642.672	26 205400220	107 640000
5,800.00 5,850.00	49.16 54.14	317.935 317.450	5,370.18 5,401.19	-865.13 -836.14	1,197.15 1,170.76	1,923,127.986 1,923,156.972	2,777,616.282	36.285100239 36.285180003	-107.6482385 -107.6483278
5,900.00	59.13	317.430	5,428.68	-805.50	1,170.76	1,923,187.618	2,777,587.933	36.285264337	-107.6484238
5,908.71	60.00	316.952	5,433.09	-800.00	1,137.29	1,923,193.111	2,777,582.808	36.285279454	-107.648441
		010.002	0,400.00	-000.00	1,107.20	1,020,100.111	2,777,002.000	00.20027 0404	-107.040441
5,926.53	.00° tangent 60.00	316.952	5,442.00	-788.72	1,126.76	1,923,204.389	2,777,572.274	36.285310490	-107.648476
		310.932	5,442.00	-100.12	1,120.70	1,923,204.309	2,111,312.214	30.203310490	-107.040470
MNCS_G		216.052	E 462.00	762.02	1 101 00	4 000 004 000	0 777 547 220	26 205202052	107 640561
5,968.71	60.00	316.952	5,463.09	-762.03	1,101.82	1,923,231.083	2,777,547.339	36.285383952	-107.648561
_	°/100' build/tu		F 477 00	744.07	4 000 00	4 000 054 445	0.777.500.540	20.005420402	407.040005
6,000.00 6,009.01	63.12 64.02	316.711	5,477.99	-741.97	1,083.00	1,923,251.145 1,923,257.018	2,777,528.519 2,777,522.980	36.285439162 36.285455323	-107.648625
		316.644	5,482.00	-736.10	1,077.46	1,923,257.018	2,777,522.980	30.285455323	-107.648643
MNCS_H		216 254	E 400 60	-708.93	1 0F1 60	1 002 004 402	0 777 407 407	26 205520002	107 640704
6,050.00	68.11	316.351	5,498.62		1,051.68	1,923,284.183	2,777,497.197	36.285530083	-107.648731
6,100.00	73.10	316.016	5,515.22	-674.91	1,019.03	1,923,318.202	2,777,464.553	36.285623705	-107.648841 -107.648955
6,150.00	78.09	315.699	5,527.66	-640.17	985.32	1,923,352.942	2,777,430.835	36.285719315	
6,173.30	80.42	315.555	5,532.00	-623.81	969.31	1,923,369.305	2,777,414.827	36.285764347	-107.649010
MNCS_I	00.00	315.392	F F0F 00	004.07	050.70	4 000 000 440	0.777.000.000	20 205040400	407.040070
6,200.00	83.08		5,535.83	-604.97	950.78	1,923,388.140	2,777,396.300	36.285816186	-107.649072
6,250.00 6,265.63	88.07 89.63	315.092 314.999	5,539.69 5,540.00	-569.59 -558.53	915.69 904.65	1,923,423.527 1,923,434.587	2,777,361.210 2,777,350.168	36.285913580 36.285944019	-107.649191 -107.649229
		314.999	5,540.00	-556.55	904.03	1,923,434.367	2,777,330.100	30.203944019	-107.049229
6,300.00	.63° lateral 89.63	314.999	5,540.22	-534.22	880.35	1,923,458.888	2,777,325.866	36.286010902	-107.649311
6,400.00	89.63	314.999	5,540.86	-334.22 -463.52	809.64	1,923,529.596	2,777,255.156	36.286205510	-107.649510
6,500.00	89.63	314.999	5,541.50	-392.81	738.93	1,923,600.304	2,777,184.446	36.286400117	-107.649790
6,600.00	89.63	314.999	5,542.14	-322.10	668.22	1,923,671.013	2,777,113.736	36.286594724	-107.650029
6,700.00	89.63	314.999	5,542.78	-251.39	597.51	1,923,741.721	2,777,043.026	36.286789330	-107.650269
6,800.00	89.63	314.999	5,543.41	-180.68	526.80	1,923,812.429	2,776,972.316	36.286983936	-107.650508
6,900.00	89.63	314.999	5,544.05	-100.00	456.09	1,923,883.137	2,776,901.606	36.287178542	-107.650748
7,000.00	89.63	314.999	5,544.69	-39.27	385.38	1,923,953.845	2,776,830.896	36.287373147	-107.650987
7,100.00	89.63	314.999	5,545.33	31.44	314.67	1,924,024.553	2,776,760.186	36.287567751	-107.651227
7,100.00	89.63	314.999	5,545.97	102.15	243.96	1,924,095.262	2,776,689.476	36.287762355	-107.651466
7,300.00	89.63	314.999	5,546.61	172.86	173.25	1,924,165.970	2,776,618.766	36.287956958	-107.651706
7,400.00	89.63	314.999	5,547.25	243.57	102.54	1,924,236.678	2,776,548.056	36.288151561	-107.651945
7,500.00	89.63	314.999	5,547.89	314.27	31.83	1,924,307.386	2,776,477.346	36.288346164	-107.652185
7,600.00	89.63	314.999	5,548.53	384.98	-38.89	1,924,378.094	2,776,406.636	36.288540766	-107.652424
7,700.00	89.63	314.999	5,549.17	455.69	-109.60	1,924,448.802	2,776,335.926	36.288735367	-107.652663
7,800.00	89.63	314.999	5,549.81	526.40	-180.31	1,924,519.510	2,776,265.216	36.288929968	-107.652903
7,900.00	89.63	314.999	5,550.45	597.11	-251.02	1,924,590.219	2,776,194.506	36.289124569	-107.653142
8,000.00	89.63	314.999	5,551.09	667.82	-321.73	1,924,660.927	2,776,123.796	36.289319169	-107.653382
8,100.00	89.63	314.999	5,551.73	738.52	-392.44	1,924,731.635	2,776,053.086	36.289513769	-107.653621
8,200.00	89.63	314.999	5,552.37	809.23	-463.15	1,924,802.343	2,775,982.376	36.289708368	-107.653861
8,300.00	89.63	314.999	5,553.01	879.94	-533.86	1,924,873.051	2,775,911.666	36.289902966	-107.654100
8,400.00	89.63	314.999	5,553.65	950.65	-604.57	1,924,943.759	2,775,840.956	36.290097564	-107.654340
8,500.00	89.63	314.999	5,554.28	1,021.36	-675.28	1,925,014.468	2,775,770.246	36.290292162	-107.654579
8,600.00	89.63	314.999	5,554.92	1,092.07	-745.99	1,925,085.176	2,775,699.536	36.290486759	-107.654819
8,700.00	89.63	314.999	5,555.56	1,162.77	-816.70	1,925,155.884	2,775,628.826	36.290681356	-107.655058
8,800.00	89.63	314.999	5,556.20	1,233.48	-887.41	1,925,226.592	2,775,558.116	36.290875952	-107.655298
8,900.00	89.63	314.999	5,556.84	1,304.19	-958.12	1,925,297.300	2,775,487.406	36.291070548	-107.655537
9,000.00	89.63	314.999	5,557.48	1,374.90	-1,028.83	1,925,368.008	2,775,416.696	36.291265143	-107.655777
9,100.00	89.63	314.999	5,558.12	1,445.61	-1,099.54	1,925,438.717	2,775,345.986	36.291459738	-107.656016
9,200.00	89.63	314.999	5,558.76	1,516.32	-1,170.25	1,925,509.425	2,775,275.276	36.291654332	-107.6562564



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Design.	1641								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,300.00	89.63	314.999	5,559.40	1,587.02	-1,240.96	1,925,580.133	2,775,204.566	36.291848926	-107.656495908
9,400.00	89.63	314.999	5,560.04	1,657.73	-1,311.67	1,925,650.841	2,775,133.856	36.292043519	-107.656735413
9,500.00	89.63	314.999	5,560.68	1,728.44	-1,382.38	1,925,721.549	2,775,063.146	36.292238112	-107.656974920
9,600.00	89.63	314.999	5,561.32	1,799.15	-1,453.09	1,925,792.257	2,774,992.436	36.292432705	-107.657214427
9,700.00	89.63	314.999	5,561.96	1,869.86	-1,523.80	1,925,862.966	2,774,921.726	36.292627296	-107.657453936
9,800.00	89.63	314.999	5,562.60	1,940.57	-1,594.51	1,925,933.674	2,774,851.016	36.292821888	-107.657693446
9,900.00	89.63	314.999	5,563.24	2,011.27	-1,665.22	1,926,004.382	2,774,780.306	36.293016479	-107.657932957
10,000.00	89.63	314.999	5,563.88	2,081.98	-1,735.93	1,926,075.090	2,774,709.596	36.293211069	-107.658172470
10,100.00	89.63	314.999	5,564.52	2,152.69	-1,806.64	1,926,145.798	2,774,638.886	36.293405659	-107.658411983
10,200.00	89.63	314.999	5,565.15	2,223.40	-1,877.35	1,926,216.506	2,774,568.176	36.293600249	-107.658651498
10,300.00	89.63	314.999	5,565.79	2,294.11	-1,948.06	1,926,287.215	2,774,497.466	36.293794838	-107.658891014
10,400.00	89.63	314.999	5,566.43	2,364.82	-2,018.77	1,926,357.923	2,774,426.756	36.293989426	-107.659130531
10,500.00	89.63	314.999	5,567.07	2,435.52	-2,089.48	1,926,428.632	2,774,356.046	36.294184014	-107.659370050
10,600.00	89.63	314.999	5,567.71	2,506.23	-2,160.19	1,926,499.340	2,774,285.336	36.294378602	-107.659609569
10,700.00	89.63	314.999	5,568.35	2,576.94	-2,230.90	1,926,570.048	2,774,214.626	36.294573189	-107.659849090
10,800.00	89.63	314.999	5,568.99	2,647.65	-2,301.61 -2,372.32	1,926,640.756	2,774,143.916	36.294767775	-107.660088612
10,900.00	89.63	314.999	5,569.63	2,718.36	,	1,926,711.464	2,774,073.206	36.294962361	-107.660328135
11,000.00 11,100.00	89.63	314.999	5,570.27	2,789.07 2,859.77	-2,443.03	1,926,782.173	2,774,002.496 2,773,931.786	36.295156947 36.295351531	-107.660567659
11,100.00	89.63 89.63	314.999 314.999	5,570.91 5,571.55	2,039.77	-2,513.74 -2,584.45	1,926,852.881 1,926,923.589	2,773,861.076	36.295546116	-107.660807185 -107.661046711
11,300.00	89.63	314.999	5,571.55	3,001.19	-2,564.45 -2,655.16	1,926,994.297	2,773,790.366	36.295740700	-107.661286239
11,400.00	89.63	314.999	5,572.19	3,071.90	-2,725.87	1,927,065.005	2,773,719.656	36.295935283	-107.661525768
11,500.00	89.63	314.999	5,573.47	3,142.61	-2,725.57	1,927,135.713	2,773,648.946	36.296129867	-107.661765298
11,600.00	89.63	314.999	5,574.11	3,213.32	-2,867.29	1,927,206.422	2,773,578.236	36.296324449	-107.662004830
11,700.00	89.63	314.999	5,574.75	3,284.02	-2,938.00	1,927,277.130	2,773,507.526	36.296519031	-107.662244362
11,800.00	89.63	314.999	5,575.39	3,354.73	-3,008.71	1,927,347.838	2,773,436.816	36.296713613	-107.662483896
11,900.00	89.63	314.999	5,576.02	3,425.44	-3,079.42	1,927,418.546	2,773,366.106	36.296908194	-107.662723431
12,000.00	89.63	314.999	5,576.66	3,496.15	-3,150.13	1,927,489.254	2,773,295.395	36.297102775	-107.662962967
12,100.00	89.63	314.999	5,577.30	3,566.86	-3,220.84	1,927,559.962	2,773,224.685	36.297297355	-107.663202505
12,200.00	89.63	314.999	5,577.94	3,637.57	-3,291.55	1,927,630.671	2,773,153.975	36.297491935	-107.663442043
12,300.00	89.63	314.999	5,578.58	3,708.27	-3,362.26	1,927,701.379	2,773,083.265	36.297686515	-107.663681583
12,400.00	89.63	314.999	5,579.22	3,778.98	-3,432.97	1,927,772.087	2,773,012.555	36.297881093	-107.663921124
12,500.00	89.63	314.999	5,579.86	3,849.69	-3,503.68	1,927,842.795	2,772,941.845	36.298075672	-107.664160666
12,600.00	89.63	314.999	5,580.50	3,920.40	-3,574.39	1,927,913.503	2,772,871.135	36.298270250	-107.664400209
12,700.00	89.63	314.999	5,581.14	3,991.11	-3,645.10	1,927,984.211	2,772,800.425	36.298464827	-107.664639754
12,800.00	89.63	314.999	5,581.78	4,061.82	-3,715.81	1,928,054.920	2,772,729.715	36.298659404	-107.664879299
12,900.00	89.63	314.999	5,582.42	4,132.52	-3,786.52	1,928,125.628	2,772,659.005	36.298853980	-107.665118846
13,000.00	89.63	314.999	5,583.06	4,203.23	-3,857.23	1,928,196.336	2,772,588.295	36.299048556	-107.665358394
13,100.00	89.63	314.999	5,583.70	4,273.94	-3,927.94	1,928,267.044	2,772,517.585	36.299243132	-107.665597944
13,200.00	89.63	314.999	5,584.34	4,344.65	-3,998.65	1,928,337.752	2,772,446.875	36.299437707	-107.665837494
13,300.00	89.63	314.999	5,584.98	4,415.36	-4,069.36	1,928,408.460	2,772,376.165	36.299632281	-107.666077046
13,400.00	89.63	314.999	5,585.62	4,486.07	-4,140.07	1,928,479.169	2,772,305.455	36.299826855	-107.666316599
13,500.00	89.63	314.999	5,586.25	4,556.77	-4,210.78	1,928,549.877	2,772,234.745	36.300021429	-107.666556153
13,600.00	89.63	314.999	5,586.89	4,627.48	-4,281.49	1,928,620.585	2,772,164.035	36.300216002	-107.666795708
13,700.00	89.63	314.999 314.999	5,587.53 5,588.17	4,698.19	-4,352.20 4 422.02	1,928,691.293	2,772,093.325	36.300410574	-107.667035264
13,800.00	89.63 89.63	314.999	5,588.17 5,588.81	4,768.90 4,839.61	-4,422.92 -4,423.63	1,928,762.001 1,928,832.709	2,772,022.615	36.300605146 36.300799718	-107.667274822 -107.667514381
13,900.00 14,000.00	89.63	314.999	5,588.81 5,589.45	4,839.61 4,910.31	-4,493.63 -4,564.34	1,928,903.417	2,771,951.905 2,771,881.195	36.300799718	-107.667753941
14,000.00	89.63	314.999	5,589.45	4,910.31	-4,564.34 -4,635.05	1,928,974.126	2,771,881.195	36.301188860	-107.667993502
14,200.00	89.63	314.999	5,590.09	5,051.73	-4,035.05 -4,705.76	1,929,044.834	2,771,739.775	36.301383430	-107.668233064
14,300.00	89.63	314.999	5,590.73	5,122.44	-4,705.70 -4,776.47	1,929,115.542	2,771,669.065	36.301577999	-107.668472628
14,400.00	89.63	314.999	5,592.01	5,122.44	-4,847.18	1,929,186.250	2,771,598.355	36.301772569	-107.668712192
14,500.00	89.63	314.999	5,592.65	5,263.86	-4,917.89	1,929,256.958	2,771,527.645	36.301967137	-107.668951758
14,600.00	89.63	314.999	5,593.29	5,334.56	-4,988.60	1,929,327.666	2,771,456.935	36.302161705	-107.669191325
14,700.00	89.63	314.999	5,593.93	5,405.27	-5,059.31	1,929,398.375	2,771,386.225	36.302356273	-107.669430894



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

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
14,800.00	89.63	314.999	5,594.57	5,475.98	-5,130.02	1,929,469.083	2,771,315.515	36.302550840	-107.669670463
14,900.00	89.63	314.999	5,595.21	5,546.69	-5,200.73	1,929,539.791	2,771,244.805	36.302745407	-107.669910034
15,000.00	89.63	314.999	5,595.85	5,617.40	-5,271.44	1,929,610.499	2,771,174.095	36.302939973	-107.670149606
15,100.00	89.63	314.999	5,596.49	5,688.11	-5,342.15	1,929,681.207	2,771,103.385	36.303134539	-107.670389179
15,200.00	89.63	314.999	5,597.12	5,758.81	-5,412.86	1,929,751.915	2,771,032.675	36.303329104	-107.670628753
15,300.00	89.63	314.999	5,597.76	5,829.52	-5,483.57	1,929,822.624	2,770,961.965	36.303523669	-107.670868329
15,400.00	89.63	314.999	5,598.40	5,900.23	-5,554.28	1,929,893.332	2,770,891.255	36.303718234	-107.671107905
15,500.00	89.63	314.999	5,599.04	5,970.94	-5,624.99	1,929,964.040	2,770,820.545	36.303912797	-107.671347483
15,600.00	89.63	314.999	5,599.68	6,041.65	-5,695.70	1,930,034.748	2,770,749.835	36.304107361	-107.671587062
15,700.00	89.63	314.999	5,600.32	6,112.36	-5,766.41	1,930,105.456	2,770,679.125	36.304301924	-107.671826642
15,800.00	89.63	314.999	5,600.96	6,183.06	-5,837.12	1,930,176.164	2,770,608.415	36.304496486	-107.672066224
15,900.00	89.63	314.999	5,601.60	6,253.77	-5,907.83	1,930,246.873	2,770,537.705	36.304691048	-107.672305806
16,000.00	89.63	314.999	5,602.24	6,324.48	-5,978.54	1,930,317.581	2,770,466.995	36.304885609	-107.672545390
16,100.00	89.63	314.999	5,602.88	6,395.19	-6,049.25	1,930,388.289	2,770,396.285	36.305080170	-107.672784975
16,200.00	89.63	314.999	5,603.52	6,465.90	-6,119.96	1,930,458.997	2,770,325.575	36.305274731	-107.673024561
16,300.00	89.63	314.999	5,604.16	6,536.61	-6,190.67	1,930,529.705	2,770,254.865	36.305469291	-107.673264148
16,400.00	89.63	314.999	5,604.80	6,607.31	-6,261.38	1,930,600.413	2,770,184.155	36.305663850	-107.673503737
16,500.00	89.63	314.999	5,605.44	6,678.02	-6,332.09	1,930,671.122	2,770,113.445	36.305858409	-107.673743327
16,600.00	89.63	314.999	5,606.08	6,748.73	-6,402.80	1,930,741.830	2,770,042.735	36.306052968	-107.673982918
16,700.00	89.63	314.999	5,606.72	6,819.44	-6,473.51	1,930,812.538	2,769,972.025	36.306247526	-107.674222510
16,744.45	89.63	314.999	5,607.00	6,850.87	-6,504.94	1,930,843.965	2,769,940.597	36.306334000	-107.674329000
PBHL/TD	@ 16744.45	MD 5607.00 T	TVD						

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ridge 135H FTP 2384 F - plan hits target cent - Point	0.00 er	0.000	5,540.00	-558.53	904.65	1,923,434.580	2,777,350.169	36.285944000	-107.649229000
Ridge 135H LTP 237 FN - plan hits target cent - Point	0.00 er	0.000	5,607.00	6,850.87	-6,504.94	1,930,843.965	2,769,940.597	36.306334000	-107.674329000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00	350.00	13 3/8" Csg		13-3/8	17-1/2	
	3,798.24	3,567.00	9 5/8" Csg		9-5/8	12-1/4	



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Ridge Unit (130, 135, 136 & 137)

Well: Ridge Unit No. 135H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

ormations							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Lithology	Dip (°)	Dip Direction (°)
	1,234.59	1,234.00	Ojo Alamo				
	1,359.11	1,357.00	Kirtland				
	1,586.16	1,577.00	Fruitland				
	1,933.39	1,897.00	Pictured Cliffs				
	2,045.06	1,997.00	Lewis				
	2,396.81	2,312.00	Chacra				
	3,625.15	3,412.00	Cliff House				
	3,630.74	3,417.00	Menefee				
	4,563.16	4,252.00	Point Lookout				
	4,825.58	4,487.00	Mancos				
	5,227.81	4,857.00	MNCS_A				
	5,313.24	4,942.00	MNCS_B				
	5,434.45	5,062.00	MNCS_C				
	5,518.19	5,142.00	MNCS_Cms				
	5,601.19	5,217.00	MNCS_D				
	5,698.01	5,297.00	MNCS_E				
	5,772.94	5,352.00	MNCS_F				
	5,926.53	5,442.00	MNCS_G				
	6,009.01	5,482.00	MNCS_H				
	6,173.30	5,532.00	MNCS_I				

Plan Annotations				
Measured	Vertical	Local Coord	dinates	
Depth (ft)	Depth (ft)	+N/-S	+E/-W	Comment
		(ft)	(ft)	
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,880.85	1,849.95	-123.06	157.09	Begin 26.43° tangent
5,047.11	4,685.38	-992.04	1,266.32	Begin 10°/100' build/turn
5,908.71	5,433.09	-800.00	1,137.29	Begin 60.00° tangent
5,968.71	5,463.09	-762.03	1,101.82	Begin 10°/100' build/turn
6,265.63	5,540.00	-558.53	904.65	Begin 89.63° lateral
16,744.45	5,607.00	6,850.87	-6,504.94	PBHL/TD @ 16744.45 MD 5607.00 TVD



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

Well Ridge Unit No. 135H TVD Reference: RKB=6832+25 @ 6857.00ft MD Reference: RKB=6832+25 @ 6857.00ft

North Reference: Grid

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

Offset TVD Reference:

Offset Datum

Reference

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

Interpolation Method: MD Interval 100.00ft Error Model: **ISCWSA**

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum centre distance of 1,874.49ft Results Limited by: Error Surface: Ellipsoid Separation Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Survey Tool Program 8/16/2023 Date

> From То

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

16,744.45 rev1 (Original Hole) MWD OWSG MWD - Standard 0.00

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)						
Lybrook 2408 138H - Original Hole - rev0 Lybrook 2408 138H - Original Hole - rev0 Lybrook 2408 138H - Original Hole - rev0	5,672.76 5,700.00 5,800.00	7,880.16 7,890.93 7,936.72	529.68 530.77 552.15	451.04 450.24 466.16	6.736 CC 6.591 ES 6.421 SF	
Ridge Unit (130, 135, 136 & 137)						
Ridge Unit No. 130H - Original Hole - rev1 Ridge Unit No. 130H - Original Hole - rev1 Ridge Unit No. 136H - Original Hole - rev1 Ridge Unit No. 136H - Original Hole - rev1 Ridge Unit No. 137H - Original Hole - rev1 Ridge Unit No. 137H - Original Hole - rev1	500.00 15,600.00 1,000.00 16,744.89 800.00 900.00	500.00 17,410.95 1,000.00 15,364.49 800.00 897.87	20.09 1,157.74 19.97 1,156.71 40.06 42.61	16.95 678.77 13.25 684.52 34.77 36.63	6.405 CC, ES 2.417 SF 2.971 CC, ES 2.450 SF 7.576 CC, ES 7.124 SF	

Offset Des	sign: NV	/ Lybrook (138, 139,	140 & 141)	- Lybrool	k 2408 138I	H - Original Hole	- rev0					Offset Site Error:	0.00 ft
Survey Progr Refer		MWD Off:	set	Semi N	lajor Axis		Offset Wellbo	re Centre	Dist	Rule Assig	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	
4,100.00	3,837.23	8,205.77	5,550.28	25.59	67.37	127.12	-1,391.77	927.64	1,821.70	1,775.23	46.47	39.202		
4,200.00	3,926.78	8,170.37	5,550.43	26.46	66.56	126.51	-1,391.76	963.04	1,728.43	1,681.89	46.54	37.139		
4,300.00	4,016.34	8,134.98	5,550.58	27.33	65.75	125.83	-1,391.74	998.44	1,635.19	1,588.57	46.62	35.072		
4,400.00	4,105.89	8,099.58	5,550.73	28.20	64.94	125.08	-1,391.73	1,033.84	1,541.99	1,495.26	46.73	32.995		
4,500.00	4,195.44	8,064.18	5,550.88	29.07	64.13	124.23	-1,391.71	1,069.23	1,448.83	1,401.97	46.87	30.914		
4,600.00	4,284.99	8,028.78	5,551.03	29.95	63.33	123.27	-1,391.69	1,104.63	1,355.72	1,308.69	47.03	28.826		
4,700.00	4,374.54	7,993.38	5,551.18	30.82	62.53	122.18	-1,391.68	1,140.03	1,262.68	1,215.44	47.23	26.732		
4,800.00	4,464.09	7,957.98	5,551.33	31.70	61.73	120.93	-1,391.66	1,175.43	1,169.70	1,122.23	47.48	24.636		
4,900.00	4,553.64	7,922.58	5,551.48	32.57	60.94	119.48	-1,391.65	1,210.83	1,076.83	1,029.05	47.78	22.536		
5,000.00	4,643.20	7,887.18	5,551.63	33.45	60.15	117.79	-1,391.63	1,246.23	984.08	935.92	48.16	20.435		
5,100.00	4,733.76	7,853.31	5,551.77	34.29	59.40	104.32	-1,391.62	1,280.10	891.27	842.52	48.74	18.285		
5,200.00	4,829.62	7,829.47	5,551.87	34.88	58.87	85.31	-1,391.60	1,303.94	798.81	748.51	50.30	15.880		
5,300.00	4,928.79	7,817.57	5,551.92	35.21	58.60	124.91	-1,391.60	1,315.84	710.93	657.65	53.28	13.342		
5,400.00	5,028.23	7,817.96	5,551.92	35.32	58.61	-159.45	-1,391.60	1,315.45	633.43	575.31	58.11	10.900		
5,500.00	5,124.93	7,830.64	5,551.87	35.31	58.89	-152.42	-1,391.61	1,302.77	573.27	508.34	64.93	8.829		
5,600.00	5,215.96	7,855.21	5,551.76	35.21	59.44	-148.81	-1,391.62	1,278.20	537.55	464.56	72.99	7.364		
5,672.76	5,277.04	7,880.16	5,551.66	35.12	59.99	-145.52	-1,391.63	1,253.25	529.68	451.04	78.64	6.736 CC		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Survey Calculation Method: Minimum Curvature

 Output errors are at
 2.00 sigma

 Database:
 DB_Decv0422v16

 Offset TVD Reference:
 Offset Datum

urvey Progr Refe	ram: 0-M rence	MWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	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	
5,700.00	5,298.54	7,890.93	5,551.61	35.09	60.23	-144.04	-1,391.63	1,242.48	530.77	450.24	80.53	6.591 ES		
5,800.00	5,370.18	7,936.72	5,551.42	34.98	61.26	-137.19	-1,391.65	1,196.69	552.15	466.16	85.99	6.421 SF		
5,900.00	5,428.68	7,991.19	5,551.19	34.94	62.48	-127.99	-1,391.68	1,142.22	595.96	506.65	89.31	6.673		
6,000.00	5,477.99	8,050.37	5,550.94	35.00	63.82	-120.80	-1,391.70	1,083.05	652.32	560.91	91.40	7.137		
6,100.00	5,515.22	8,114.14	5,550.67	35.16	65.27	-108.81	-1,391.73	1,019.27	717.11	624.09	93.03	7.709		
6,200.00	5,535.83	8,182.28	5,550.38	35.44	66.83	-96.92	-1,391.76	951.14	786.79	692.10	94.69	8.309		
6,300.00	5,540.22	8,252.66	5,550.08	35.82	68.45	-89.88	-1,391.79	880.75	857.59	761.04	96.55	8.883		
6,400.00	5,540.86	8,323.34	5,549.79	36.34	70.09	-89.84	-1,391.83	810.08	928.33	829.83	98.50	9.424		
6,500.00	5,541.50	8,394.01	5,549.49	36.98	71.73	-89.80	-1,391.86	739.40	999.07	898.53	100.54	9.937		
6,600.00	5,542.14	8,464.69	5,549.19	37.76	73.39	-89.76	-1,391.89	668.73	1,069.82	967.16	102.66	10.421		
6,700.00	5,542.78	8,535.36	5,548.89	38.66	75.05	-89.74	-1,391.92	598.06	1,140.56	1,035.70	104.86	10.877		
6,800.00	5,543.41	8,606.04	5,548.59	39.67	76.71	-89.71	-1,391.95	527.38	1,211.31	1,104.18	107.13	11.307		
6,900.00	5,544.05	8,676.71	5,548.29	40.79	78.39	-89.69	-1,391.98	456.71	1,282.06	1,172.58	109.47	11.711		
7,000.00	5,544.69	8,747.39	5,547.99	42.00	80.06	-89.67	-1,392.02	386.03	1,352.80	1,240.92	111.88	12.091		
7,100.00	5,545.33	8,818.06	5,547.69	43.31	81.75	-89.65	-1,392.05	315.36	1,423.55	1,309.19	114.36	12.448		
7,200.00	5,545.97	8,888.74	5,547.40	44.69	83.43	-89.63	-1,392.08	244.68	1,494.29	1,377.40	116.89	12.784		
7,300.00	5,546.61	8,959.41	5,547.10	46.15	85.13	-89.61	-1,392.11	174.01	1,565.04	1,445.56	119.48	13.099		
7,400.00	5,547.25	9,030.09	5,546.80	47.67	86.82	-89.60	-1,392.14	103.33	1,635.78	1,513.66	122.12	13.395		
7,500.00	5,547.89	9,100.76	5,546.50	49.25	88.52	-89.59	-1,392.18	32.66	1,706.53	1,581.72	124.81	13.673		
7,600.00	5,548.53	9,171.44	5,546.20	50.89	90.23	-89.58	-1,392.21	-38.01	1,777.27	1,649.73	127.54	13.935		
7,700.00	5,549.17	9,242.11	5,545.90	52.58	91.94	-89.57	-1,392.24	-108.69	1,848.02	1,717.70	130.32	14.181		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Grid

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

	o.g		30, 135, 13	,									Offset Site Error:	0.00 f
	rence	MWD Off			ajor Axis	Lliabe!d=	Offset Wellbo	ore Centre		Rule Assi	_	Congreties	Offset Well Error:	0.00 1
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	69.75	6.95	18.85	20.09	. ,	. ,			
100.00	100.00	100.00	100.00	0.13	0.13	69.75	6.95	18.85	20.09	19.82	0.27	74.723		
200.00	200.00	200.00	200.00	0.49	0.49	69.75	6.95	18.85	20.09	19.10	0.99	20.379		
300.00	300.00	300.00	300.00	0.85	0.85	69.75	6.95	18.85	20.09	18.39	1.70	11.798		
400.00	400.00	400.00	400.00	1.21	1.21	69.75	6.95	18.85	20.09	17.67	2.42	8.303		
500.00	500.00	500.00	500.00	1.57	1.57	69.75	6.95	18.85	20.09	16.95	3.14	6.405 CC,	ES	
600.00	600.00	599.15	599.10	1.93	1.91	74.32	5.95	21.22	22.06	18.22	3.84	5.745		
700.00	700.00	697.76	697.41	2.29	2.26	83.97	2.99	28.28	28.55	24.02	4.53	6.299		
800.00	800.00	795.33	794.16	2.64	2.62	92.70	-1.88	39.86	40.33	35.11	5.22	7.729		
900.00	900.00	891.38	888.64	3.00	3.00	98.71	-8.53	55.69	57.47	51.59	5.89	9.764		
1,000.00	1,000.00	985.45	980.24	3.36	3.41	102.57	-16.82	75.42	79.76	73.22	6.54	12.203		
1,100.00	1,099.95	1,077.86	1,069.08	3.71	3.87	-23.23	-26.66	98.83	104.62	97.47	7.15	14.635		
1,200.00	1,199.63	1,169.16	1,155.55	4.04	4.37	-22.34	-38.00	125.82	129.48	121.75	7.73	16.744		
1,300.00	1,298.77	1,259.40	1,239.55	4.39	4.93	-22.16	-50.77	156.21	154.22	145.91	8.31	18.564		
1,400.00	1,397.08	1,348.62	1,320.97	4.77	5.56	-22.37	-64.89	189.82	178.79	169.89	8.90	20.099		
1,500.00	1,494.31	1,436.84	1,399.72	5.17	6.24	-22.83	-80.29	226.47	203.14	193.66	9.49	21.409		
1,600.00	1,590.18	1,524.11	1,475.73	5.62	7.00	-23.44	-96.90	265.97	227.27	217.17	10.10	22.504		
1,700.00	1,684.43	1,610.46	1,548.94	6.13	7.82	-24.15	-114.63	308.18	251.16	240.42	10.74	23.392		
1,800.00	1,776.81	1,700.00	1,622.59	6.70	8.75	-24.99	-134.35	355.12	274.83	263.33	11.50	23.901		
1,900.00	1,867.10	1,780.55	1,686.74	7.35	9.68	-25.82	-153.22	400.02	298.25	286.10	12.14	24.559		
2,000.00	1,956.65	1,867.96	1,754.11	8.05	10.74	-26.80	-174.80	451.35	324.27	311.27	13.01	24.926		
2,100.00	2,046.20	1,964.09	1,827.60	8.79	11.96	-27.68	-198.81	508.49	351.36	337.24	14.12	24.892		
2,200.00	2,135.76	2,060.23	1,901.09	9.55	13.21	-28.43	-222.82	565.63	378.50	363.24	15.26	24.808		
2,300.00	2,225.31	2,156.36	1,974.58	10.33	14.46	-29.08	-246.82	622.76	405.70	389.27	16.43	24.693		
2,400.00	2,314.86	2,252.50	2,048.07	11.13	15.73	-29.65	-270.83	679.90	432.94	415.31	17.63	24.559		
2,500.00	2,404.41	2,348.63	2,121.56	11.94	17.01	-30.16	-294.84	737.03	460.22	441.37	18.85	24.416		
2,600.00	2,493.96	2,444.76	2,195.05	12.76	18.29	-30.60	-318.85	794.17	487.53	467.44	20.09	24.271		
2,700.00	2,583.51	2,540.90	2,268.54	13.59	19.58	-31.00	-342.86	851.30	514.86	493.52	21.34	24.126		
2,800.00	2,673.06	2,637.03	2,342.03	14.42	20.87	-31.36	-366.87	908.44	542.21	519.60	22.61	23.984		
2,900.00	2,762.62	2,733.17	2,415.52	15.26	22.17	-31.69	-390.88	965.57	569.58	545.69	23.89	23.846		
3,000.00	2,852.17	2,829.30	2,489.01	16.11	23.47	-31.98	-414.89	1,022.71	596.96	571.79	25.17	23.714		
3,100.00	2,941.72	2,925.43	2,562.50	16.96	24.77	-32.25	-438.90	1,079.84	624.36	597.89	26.47	23.588		
3,200.00	3,031.27	3,021.57	2,635.99	17.81	26.08	-32.50	-462.91	1,136.98	651.77	624.00	27.77	23.468		
3,300.00	3,120.82	3,117.70	2,709.48	18.67	27.38	-32.73	-486.92	1,194.11	679.19	650.11	29.08	23.354		
3,400.00	3,210.37	3,213.83	2,782.97	19.53	28.69	-32.93	-510.93	1,251.25	706.62	676.22	30.40	23.245		
3,500.00	3,299.92	3,309.97	2,856.46	20.39	30.00	-33.13	-534.94	1,308.39	734.06	702.34	31.72	23.142		
3,600.00	3,389.48	3,406.10	2,929.95	21.25	31.31	-33.31	-558.95	1,365.52	761.50	728.46	33.05	23.044		
3,700.00	3,479.03	3,502.24	3,003.44	22.11	32.62	-33.47	-582.96	1,422.66	788.95	754.58	34.38	22.951		
3,800.00	3,568.58	3,598.37	3,076.93	22.98	33.94	-33.63	-606.97	1,479.79	816.41	780.70	35.71	22.863		
3,900.00	3,658.13	3,694.50	3,150.42	23.85	35.25	-33.78	-630.98	1,536.93	843.87	806.83	37.05	22.779		
4,000.00	3,747.68	3,790.64	3,223.91	24.72	36.57	-33.91	-654.99	1,594.06	871.34	832.95	38.39	22.699		
4,100.00	3,837.23	3,886.77	3,297.40	25.59	37.88	-34.04	-679.00	1,651.20	898.81	859.08	39.73	22.624		
4,200.00	3,926.78	3,982.91	3,370.89	26.46	39.20	-34.16	-703.01	1,708.33	926.28	885.21	41.07	22.552		
4,300.00	4,016.34	4,079.04	3,444.38	27.33	40.51	-34.28	-727.01	1,765.47	953.76	911.34	42.42	22.483		
4,400.00 4,500.00	4,105.89 4,195.44	4,175.17 4,271.31	3,517.87 3,591.36	28.20 29.07	41.83 43.15	-34.38 -34.48	-751.02 -775.03	1,822.60 1,879.74	981.25 1,008.73	937.47 963.61	43.77 45.12	22.418 22.356		
4,600.00	4,284.99	4,367.44 4,463.58	3,664.85	29.95	44.47 45.70	-34.58 -34.67	-799.04 -823.05	1,936.87	1,036.22	989.74	46.47	22.297		
4,700.00 4,800.00	4,374.54	4,463.58 4,559.71	3,738.34	30.82	45.79 47.10	-34.67 -34.76	-823.05 -847.06	1,994.01	1,063.71	1,015.88	47.83	22.240 22.186		
	4,464.09		3,811.83	31.70 32.57	47.10			2,051.15	1,091.20	1,042.02 1,068.15	49.18 50.54			
4,900.00 5,000.00	4,553.64 4,643.20	4,655.84 4,751.98	3,885.32 3,958.82	32.57 33.45	48.42 49.74	-34.84 -34.92	-871.07 -895.08	2,108.28 2,165.42	1,118.69 1,146.19	1,068.15	50.54 51.90	22.134 22.084		
5,000.00		7,701.00	5,550.02	33.43	70.14	-04.8∠	-090.00	2,100.42	1,140.19	1,034.23	31.50	22.004		
5,100.00	4,733.76	4,847.57	4,031.89	34.29	51.06	-34.29	-918.96	2,222.23	1,175.39	1,122.21	53.18	22.101		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Grid

Minimum Curvature

2.00 sigma
DB_Decv0422v16
Offset Datum

urvey Progra	am: 0-N	MWD								Rule Assi	aned:		Offset Well Error:	0.00
Refer	ence	Offs			ajor Axis	III ab at da	Offset Wellb	ore Centre		ance	_	0		
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	4,829.62	4,938.61	4,101.49	34.88	52.31	-28.82	-941.69	2,276.34	1,215.09	1,161.12	53.96	22.518		
5,300.00	4,928.79	5,022.02	4,165.25	35.21	53.45	25.23	-962.52	2,325.91	1,265.73	1,211.53	54.20	23.354		
5,400.00	5,028.23	7,505.89	5,547.66	35.32	67.26	74.05	-177.49	2,159.11	1,295.48	1,206.56	88.92	14.569		
5,500.00	5,124.93	7,530.83	5,547.83	35.31	67.43	87.74	-159.86	2,141.48	1,254.45	1,162.74	91.71	13.679		
5,600.00	5,215.96	7,572.18	5,548.11	35.21	67.70	92.71	-130.62	2,112.24	1,221.62	1,127.43	94.19	12.969		
5,700.00	5,298.54	7,628.69	5,548.49	35.09	68.09	94.56	-90.66	2,112.24	1,197.08	1,127.43	96.33	12.426		
3,700.00	5,230.54	7,020.09	3,340.43	33.09	00.03	94.50	-90.00	2,072.20	1,137.00	1,100.75	90.55	12.420		
5,800.00	5,370.18	7,698.65	5,548.97	34.98	68.59	94.76	-41.19	2,022.82	1,180.07	1,081.91	98.15	12.023		
5,900.00	5,428.68	7,779.91	5,549.52	34.94	69.24	94.09	16.27	1,965.36	1,169.25	1,069.49	99.76	11.721		
6,000.00	5,477.99	7,867.18	5,550.11	35.00	69.97	92.41	77.98	1,903.65	1,162.32	1,061.04	101.28	11.476		
6,100.00	5,515.22	7,960.08	5,550.75	35.16	70.81	91.39	143.66	1,837.97	1,158.44	1,055.65	102.79	11.270		
6,200.00	5,535.83	8,057.93	5,551.41	35.44	71.75	90.72	212.86	1,768.77	1,156.81	1,052.47	104.34	11.087		
6,295.28	5,542.14	8,152.99	5,552.06	35.81	72.72	90.49	280.07	1,701.56	1,156.41	1,050.53	105.88	10.922		
6,300.00	5,540.22	8,157.79	5,552.09	35.82	72.77	90.59	283.47	1,698.17	1,156.54	1,050.60	105.94	10.917		
6,400.00	5,540.86	8,257.79	5,552.77	36.34	73.85	90.59	354.18	1,627.46	1,156.54	1,048.83	107.71	10.737		
6,500.00	5,541.50	8,357.79	5,553.45	36.98	74.99	90.59	424.89	1,556.75	1,156.55	1,046.88	109.67	10.546		
6,600.00	5,542.14	8,457.79	5,554.13	37.76	76.19	90.59	495.60	1,486.04	1,156.55	1,044.75	111.80	10.345		
6,700.00	5,542.78	8,557.79	5,554.81	38.66	77.44	90.60	566.30	1,415.33	1,156.55	1,042.45	114.10	10.136		
6,800.00	5,543.41	8,657.79	5,555.49	39.67	78.74	90.60	637.01	1,344.62	1,156.55	1,040.00	116.55	9.923		
6,900.00	5,544.05	8,757.79	5,556.17	40.79	80.09	90.60	707.72	1,273.92	1,156.56	1,037.40	119.15	9.706		
7,000.00	5,544.69	8,857.79	5,556.85	42.00	81.48	90.60	778.43	1,203.21	1,156.56	1,034.67	121.88	9.489		
7,100.00	5,545.33	8,957.79	5,557.53	43.31	82.92	90.60	849.14	1,132.50	1,156.56	1,031.82	124.74	9.272		
7,200.00	5,545.97	9,057.79	5,558.21	44.69	84.40	90.61	919.85	1,061.79	1,156.56	1,028.85	127.71	9.056		
7,300.00	5,546.61	9,157.79	5,558.89	46.15	85.93	90.61	990.56	991.08	1,156.57	1,025.78	130.79	8.843		
7,400.00	5,547.25	9,257.79	5,559.57	47.67	87.48	90.61	1,061.27	920.37	1,156.57	1,022.61	133.96	8.634		
7,500.00	5,547.89	9,357.79	5,560.25	49.25	89.08	90.61	1,131.98	849.67	1,156.57	1,019.35	137.22	8.429		
7,600.00	5,548.53	9,457.79	5,560.93	50.89	90.71	90.61	1,202.69	778.96	1,156.58	1,016.02	140.56	8.228		
7,700.00	5,549.17	9,557.79	5,561.61	52.58	92.37	90.62	1,273.40	708.25	1,156.58	1,012.60	143.98	8.033		
7,800.00	5,549.81	9,657.79	5,562.29	54.31	94.05	90.62	1,344.11	637.54	1,156.58	1,009.12	147.46	7.843		
7,900.00	5,550.45	9,757.79	5,562.97	56.08	95.77	90.62	1,414.82	566.83	1,156.58	1,005.57	151.01	7.659		
8,000.00	5,551.09	9,857.79	5,563.65	57.89	97.51	90.62	1,485.53	496.12	1,156.59	1,001.97	154.62	7.480		
8,100.00	5,551.73	9,957.79	5,564.33	59.74	99.28	90.62	1,556.24	425.41	1,156.59	998.31	158.28	7.307		
8,200.00	5,552.37	10,057.79	5,565.01	61.61	101.07	90.63	1,626.95	354.71	1,156.59	994.60	161.99	7.140		
8,300.00	5,553.01	10,157.79	5,565.69	63.51	102.88	90.63	1,697.66	284.00	1,156.59	990.85	165.75	6.978		
8,400.00	5,553.65	10,257.79	5,566.37	65.44	104.72	90.63	1,768.37	213.29	1,156.60	987.05	169.55	6.822		
8,500.00	5,554.28	10,357.79	5,567.05	67.39	106.57	90.63	1,839.08	142.58	1,156.60	983.21	173.38	6.671		
8,600.00	5,554.92	10,457.79	5,567.73	69.36	108.44	90.63	1,909.79	71.87	1,156.60	979.34	177.26	6.525		
8,700.00	5,555.56	10,557.79	5,568.41	71.35	110.33	90.64	1,980.50	1.16	1,156.60	975.43	181.17	6.384		
8,800.00	5,556.20	10,657.79	5,569.09	73.36	112.23	90.64	2,051.21	-69.54	1,156.61	971.50	185.11	6.248		
8,900.00	5,556.84	10,757.79	5,569.77	75.39	114.15	90.64	2,121.92	-140.25	1,156.61	967.53	189.08	6.117		
9,000.00	5,557.48	10,857.79	5,570.45	77.43	116.09	90.64	2,192.63	-210.96	1,156.61	963.53	193.08	5.990		
9,100.00	5,558.12	10,957.79	5,571.13	79.48	118.04	90.64	2,263.34	-281.67	1,156.61	959.51	197.10	5.868		
9,200.00	5,558.76	11,057.79	5,571.81	81.55	120.00	90.65	2,334.05	-352.38	1,156.62	955.46	201.15	5.750		
9,300.00	5,559.40	11,157.79	5,572.49	83.62	121.97	90.65	2,404.76	-423.09	1,156.62	951.39	205.23	5.636		
9,400.00	5,560.04	11,257.79	5,573.17	85.71	123.96	90.65	2,475.47	-493.79	1,156.62	947.30	209.32	5.526		
9,500.00	5,560.68	11,357.79	5,573.85	87.81	125.96	90.65	2,546.18	-564.50	1,156.63	943.19	213.43	5.419		
9,600.00	5,561.32	11,457.79	5,574.53	89.92	127.97	90.65	2,616.88	-635.21	1,156.63	939.06	217.56	5.316		
9,700.00	5,561.96	11,557.79	5,575.21	92.04	129.98	90.66	2,687.59	-705.92	1,156.63	934.92	221.71	5.217		
9,800.00	5,562.60	11,657.79	5,575.89	94.17	132.01	90.66	2,758.30	-776.63	1,156.63	930.75	225.88	5.121		
9,900.00	5,563.24	11,757.79	5,576.57	96.30	134.05	90.66	2,829.01	-847.34	1,156.64	926.57	230.07	5.027		
10,000.00	5,563.88	11,857.79	5,577.25	98.44	136.10	90.66	2,899.72	-918.05	1,156.64	922.38	234.26	4.937		
10,100.00	5,564.52	11,957.79	5,577.93	100.59	138.15	90.66	2,970.43	-988.75	1,156.64	918.17	238.48	4.850		
.,	-,	,	-,	. 55.55		23.00	_,5. 55	- 50 0	.,.50.07	2.0	_30.10	500		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Grid Minimum Curvature

2.00 sigma
DB_Decv0422v16
Offset Datum

Survey Prog	ram: 0-l	MWD								Rule Assi	aned:		Offset Site Error: Offset Well Error:	0.001
	rence	Offs		Semi M	ajor Axis		Offset Wellb	ore Centre	Dist	tance	_			0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft) 10,300.00	(ft) 5,565.79	(ft) 12,157.79	(ft) 5,579.29	(ft) 104.91	(ft) 142.28	(°) 90.67	3,111.85	-1,130.17	(ft) 1,156.65	(ft) 909.71	(ft) 246.94	4.684		
10,400.00	5,566.43	12,157.79	5,579.96	104.91	144.36	90.67	3,111.65	-1,130.17	1,156.65	905.46	251.19	4.605		
10,500.00	5,567.07	12,357.79	5,580.64	109.25	146.44	90.67	3,253.27	-1,271.59	1,156.65	901.20	255.45	4.528		
10,600.00	5,567.71	12,457.79	5,581.32	111.42	148.53	90.67	3,323.98	-1,342.30	1,156.65	896.93	259.73	4.453		
10,700.00	5,568.35	12,557.79	5,582.00	113.60	150.63	90.68	3,394.69	-1,413.00	1,156.66	892.65	264.01	4.381		
10,800.00	5,568.99	12,657.79	5,582.68	115.79	152.73	90.68	3,465.40	-1,483.71	1,156.66	888.36	268.30	4.311		
10,900.00	5,569.63	12,757.79	5,583.36	117.98	154.84	90.68	3,536.11	-1,554.42	1,156.66	884.06	272.60	4.243		
11,000.00	5,570.27	12,857.79	5,584.04	120.17	156.95	90.68	3,606.82	-1,625.13	1,156.67	879.75	276.92	4.177		
11,100.00	5,570.91	12,957.79	5,584.72	122.37	159.07	90.68	3,677.53	-1,695.84	1,156.67	875.43	281.24	4.113		
11,200.00	5,571.55	13,057.79	5,585.40	124.57	161.19	90.69	3,748.24	-1,766.55	1,156.67	871.11	285.56	4.050		
11,300.00	5,572.19	13,157.79	5,586.08	126.77	163.32	90.69	3,818.95	-1,837.25	1,156.67	866.77	289.90	3.990		
11,400.00	5,572.83	13,257.79	5,586.76	128.98	165.45	90.69	3,889.66	-1,907.96	1,156.68	862.43	294.24	3.931		
11,500.00	5,573.47	13,357.79	5,587.44	131.19	167.59	90.69	3,960.37	-1,978.67	1,156.68	858.08	298.59	3.874		
11,600.00	5,574.11	13,457.79	5,588.12	133.40	169.73	90.69	4,031.08	-2,049.38	1,156.68	853.73	302.95	3.818		
11,700.00	5,574.75	13,557.79	5,588.80	135.62	171.88	90.70	4,101.79	-2,120.09	1,156.68	849.37	307.32	3.764		
11,800.00	5,575.39	13,657.79	5,589.48	137.84	174.03	90.70	4,172.50	-2,190.80	1,156.69	845.00	311.69	3.711		
11,900.00	5,576.02	13,757.79	5,590.16	140.06	176.18	90.70	4,243.21	-2,261.51	1,156.69	840.63	316.06	3.660		
12,000.00	5,576.66	13,857.79	5,590.84	142.28	178.34	90.70	4,313.92	-2,332.21	1,156.69	836.25	320.44	3.610		
12,100.00	5,577.30	13,957.79	5,591.52	144.51	180.50	90.70	4,384.63	-2,402.92	1,156.69	831.86	324.83	3.561		
12,200.00	5,577.94	14,057.79	5,592.20	146.74	182.66	90.71	4,455.34	-2,473.63	1,156.70	827.47	329.23	3.513		
12,300.00	5,578.58	14,157.79	5,592.88	148.97	184.83	90.71	4,526.05	-2,544.34	1,156.70	823.08	333.62	3.467		
12,400.00	5,579.22	14,257.79	5,593.56	151.20	187.00	90.71	4,596.76	-2,615.05	1,156.70	818.68	338.03	3.422		
12,500.00	5,579.86	14,357.79	5,594.24	153.43	189.18	90.71	4,667.46	-2,685.76	1,156.71	814.27	342.43	3.378		
12,600.00	5,580.50	14,457.79	5,594.92	155.67	191.35	90.71	4,738.17	-2,756.46	1,156.71	809.86	346.85	3.335		
12,700.00	5,581.14	14,557.79	5,595.60	157.90	193.53	90.72	4,808.88	-2,827.17	1,156.71	805.45	351.26	3.293		
12,800.00	5,581.78	14,657.79	5,596.28	160.14	195.71	90.72	4,879.59	-2,897.88	1,156.71	801.03	355.68	3.252		
12,900.00	5,582.42	14,757.79	5,596.96	162.38	197.90	90.72	4,950.30	-2,968.59	1,156.72	796.61	360.11	3.212		
13,000.00	5,583.06	14,857.79	5,597.64	164.62	200.09	90.72	5,021.01	-3,039.30	1,156.72	792.18	364.54	3.173		
13,100.00	5,583.70	14,957.79	5,598.32	166.87	202.27	90.72	5,091.72	-3,110.01	1,156.72	787.75	368.97	3.135		
13,200.00	5,584.34	15,057.79	5,599.00	169.11	204.47	90.73	5,162.43	-3,180.71	1,156.72	783.32	373.41	3.098		
13,300.00	5,584.98	15,157.79	5,599.68	171.36	206.66	90.73	5,233.14	-3,251.42	1,156.73	778.88	377.85	3.061		
13,400.00	5,585.62	15,257.79	5,600.36	173.60	208.86	90.73	5,303.85	-3,322.13	1,156.73	774.44	382.29	3.026		
13,500.00	5,586.25	15,357.79	5,601.04	175.85	211.06	90.73	5,374.56	-3,392.84	1,156.73	770.00	386.74	2.991		
13,600.00	5,586.89	15,457.79	5,601.72	178.10	213.26	90.73	5,445.27	-3,463.55	1,156.73	765.55	391.19	2.957		
13,700.00	5,587.53	15,557.79	5,602.40	180.35	215.46	90.74	5,515.98	-3,534.26	1,156.74	761.10	395.64	2.924		
13,800.00	5,588.17	15,657.79	5,603.08	182.60	217.66	90.74	5,586.69	-3,604.97	1,156.74	756.65	400.09	2.891		
13,900.00	5,588.81	15,757.79	5,603.76	184.86	219.87	90.74	5,657.40	-3,675.67	1,156.74	752.19	404.55	2.859		
14,000.00	5,589.45	15,857.79	5,604.44	187.11	222.08	90.74	5,728.11	-3,746.38	1,156.75	747.73	409.01	2.828		
14,100.00	5,590.09	15,957.79	5,605.12	189.37	224.29	90.74	5,798.82	-3,817.09	1,156.75	743.27	413.48	2.798		
14,200.00	5,590.73	16,057.79	5,605.80	191.62	226.50	90.75	5,869.53	-3,887.80	1,156.75	738.81	417.94	2.768		
14,300.00	5,591.37	16,157.79	5,606.48	193.88	228.71	90.75	5,940.24	-3,958.51	1,156.75	734.34	422.41	2.738		
14,400.00	5,592.01	16,257.79	5,607.16	196.14	230.93	90.75	6,010.95	-4,029.22	1,156.76	729.87	426.88	2.710		
14,500.00	5,592.65	16,357.79	5,607.84	198.40	233.14	90.75	6,081.66	-4,099.92	1,156.76	725.40	431.36	2.682		
14,600.00	5,593.29	16,457.79	5,608.52	200.65	235.36	90.75	6,152.37	-4,170.63	1,156.76	720.93	435.83	2.654		
14,700.00	5,593.93	16,557.79	5,609.20	202.91	237.58	90.76	6,223.08	-4,241.34	1,156.76	716.45	440.31	2.627		
14,800.00	5,594.57	16,657.79	5,609.88	205.18	239.80	90.76	6,293.79	-4,312.05	1,156.77	711.98	444.79	2.601		
14,900.00	5,595.21	16,757.79	5,610.56	207.44	242.02	90.76	6,364.50	-4,382.76	1,156.77	707.50	449.27	2.575		
15,000.00	5,595.85	16,857.79	5,611.24	209.70	244.25	90.76	6,435.21	-4,453.47	1,156.77	703.01	453.76	2.549		
15,100.00	5,596.49	16,957.79	5,611.92	211.96	246.47	90.76	6,505.92	-4,524.17	1,156.78	698.53	458.25	2.524		
15,200.00	5,597.12	17,057.79	5,612.60	214.23	248.70	90.77	6,576.63	-4,594.88	1,156.78	694.04	462.73	2.500		
15,300.00	5,597.76	17,157.79	5,613.28	216.49	250.93	90.77	6,647.34	-4,665.59	1,156.78	689.56	467.22	2.476		
15,400.00	5,598.40	17,257.79	5,613.96	218.76	253.16	90.77	6,718.05	-4,736.30	1,156.78	685.07	471.72	2.452		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft

Well Ridge Unit No. 135H

Grid

Survey Calculation Method: Minimum Curvature

 Output errors are at
 2.00 sigma

 Database:
 DB_Decv0422v16

 Offset TVD Reference:
 Offset Datum

urvey Prog		MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refe Measured Depth (ft)	vertical Depth (ft)	Offs Measured Depth (ft)	set Vertical Depth (ft)	Semi M Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellb +N/-S (ft)	+E/-W (ft)	Dist Between Centres (ft)	ance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
15,500.00	5,599.04	17,357.79	5,614.64	221.02	255.39	90.77	6,788.75	-4,807.01	1,156.79	680.58	476.21	2.429		
15,501.62	5,599.05	17,359.41	5,614.65	221.06	255.42	90.77	6,789.90	-4,808.15	1,156.79	680.50	476.28	2.429		
15,600.00	5,599.68	17,410.95	5,615.00	223.29	256.57	90.77	6,826.34	-4,844.59	1,157.74	678.77	478.97	2.417 SF		
15,700.00	5,600.32	17,410.95	5,615.00	225.55	256.57	90.77	6,826.34	-4,844.59	1,166.07	690.61	475.47	2.452		
15,800.00	5,600.96	17,410.95	5,615.00	227.82	256.57	90.77	6,826.34	-4,844.59	1,182.84	716.20	466.64	2.535		
15,900.00	5,601.60	17,410.95	5,615.00	230.09	256.57	90.77	6,826.34	-4,844.59	1,207.68	754.14	453.54	2.663		
16,000.00	5,602.24	17,410.95	5,615.00	232.36	256.57	90.77	6,826.34	-4,844.59	1,240.10	802.68	437.42	2.835		
16,100.00	5,602.88	17,410.95	5,615.00	234.63	256.57	90.77	6,826.34	-4,844.59	1,279.54	860.03	419.51	3.050		
16,200.00	5,603.52	17,410.95	5,615.00	236.90	256.57	90.77	6,826.34	-4,844.59	1,325.37	924.55	400.82	3.307		
16,300.00	5,604.16	17,410.95	5,615.00	239.17	256.57	90.77	6,826.34	-4,844.59	1,376.95	994.86	382.09	3.604		
16,400.00	5,604.80	17,410.95	5,615.00	241.44	256.57	90.77	6,826.34	-4,844.59	1,433.65	1,069.79	363.86	3.940		
16,500.00	5,605.44	17,410.95	5,615.00	243.71	256.57	90.77	6,826.34	-4,844.59	1,494.90	1,148.46	346.44	4.315		
16,600.00	5,606.08	17,410.95	5,615.00	245.98	256.57	90.77	6,826.34	-4,844.59	1,560.16	1,230.15	330.01	4.728		
16,700.00	5,606.72	17,410.95	5,615.00	248.25	256.57	90.77	6,826.34	-4,844.59	1,628.95	1,314.29	314.66	5.177		
16,744.89	5,607.00	17,410.95	5,615.00	249.27	256.57	90.77	6,826.34	-4,844.59	1,660.86	1,352.74	308.12	5.390		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

orth Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Ridge Unit No. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Grid Minimum Curvature

2.00 sigma
DB_Decv0422v16
Offset Datum

vey Progr	ram: 0-	MWD								Rule Assi	aned:		Offset Well Error:	0.00
Refe	rence	Offs			ajor Axis		Offset Wellbo	re Centre		tance	_			
easured 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	-109.26	-6.59	-18.85	19.97					
100.00	100.00	100.00	100.00	0.13	0.13	-109.26	-6.59	-18.85	19.97	19.70	0.27	74.268		
200.00	200.00	200.00	200.00	0.49	0.49	-109.26	-6.59	-18.85	19.97	18.98	0.99	20.255		
300.00	300.00	300.00	300.00	0.85	0.85	-109.26	-6.59	-18.85	19.97	18.26	1.70	11.727		
400.00	400.00	400.00	400.00	1.21	1.21	-109.26	-6.59	-18.85	19.97	17.55	2.42	8.252		
500.00	500.00	500.00	500.00	1.57	1.57	-109.26	-6.59	-18.85	19.97	16.83	3.14	6.366		
600.00	600.00	600.00	600.00	1.93	1.93	-109.26	-6.59	-18.85	19.97	16.11	3.85	5.182		
700.00	700.00	700.00	700.00	2.29	2.29	-109.26	-6.59	-18.85	19.97	15.40	4.57	4.369		
800.00	800.00	800.00	800.00	2.64	2.64	-109.26	-6.59	-18.85	19.97	14.68	5.29	3.776		
900.00	900.00	900.00	900.00	3.00	3.00	-109.26	-6.59	-18.85	19.97	13.96	6.00	3.325		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-109.26	-6.59	-18.85	19.97	13.25	6.72	2.971 CC, E	s	
1,100.00	1,099.95	1,099.33	1,099.28	3.71	3.70	122.74	-9.08	-19.53	22.85	15.45	7.40	3.088		
1,200.00	1,199.63	1,198.16	1,197.81	4.04	4.03	122.86	-16.50	-21.55	31.49	23.43	8.06	3.909		
1,300.00	1,298.77	1,296.03	1,294.85	4.39	4.36	122.86	-28.68	-24.88	45.82	37.09	8.72	5.252		
1,400.00	1,397.08	1,392.47	1,389.72	4.77	4.71	122.72	-45.35	-29.43	65.72	56.31	9.41	6.984		
,500.00	1,494.31	1,487.09	1,481.83	5.17	5.08	122.46	-66.18	-35.12	91.05	80.93	10.12	8.994		
1,600.00	1,590.18	1,579.51	1,570.66	5.62	5.47	122.08	-90.75	-41.83	121.65	110.77	10.87	11.187		
1,700.00	1,684.43	1,673.00	1,659.77	6.13	5.91	122.27	-118.03	-49.28	156.32	144.59	11.72	13.334		
1,800.00	1,776.81	1,765.53	1,747.96	6.70	6.36	123.35	-145.04	-56.66	193.73	181.10	12.63	15.336		
,900.00	1,867.10	1,856.63	1,834.79	7.35	6.82	125.00	-171.64	-63.92	234.04	220.45	13.59	17.217		
,000.00	1,956.65	1,947.20	1,921.11	8.05	7.30	127.10	-198.08	-71.14	275.57	260.99	14.58	18.906		
,100.00	2,046.20	2,037.77	2,007.44	8.79	7.78	128.66	-224.52	-78.36	317.32	301.74	15.58	20.365		
2,200.00	2,135.76	2,128.34	2,093.77	9.55	8.28	129.85	-250.96	-85.58	359.22	342.61	16.61	21.628		
2,300.00	2,225.31	2,218.92	2,180.09	10.33	8.78	130.80	-277.40	-92.80	401.22	383.57	17.65	22.727		
2,400.00	2,314.86	2,309.49	2,266.42	11.13	9.28	131.56	-303.84	-100.02	443.30	424.59	18.71	23.689		
2,500.00	2,404.41	2,400.06	2,352.74	11.94	9.80	132.19	-330.28	-107.24	485.43	465.65	19.79	24.534		
2,600.00	2,493.96	2,490.63	2,439.07	12.76	10.32	132.73	-356.72	-114.46	527.61	506.74	20.87	25.281		
2,700.00	2,583.51	2,581.20	2,525.39	13.59	10.84	133.18	-383.16	-121.68	569.81	547.85	21.96	25.946		
2,800.00	2,673.06	2,671.78	2,611.72	14.42	11.36	133.57	-409.60	-128.90	612.04	588.98	23.06	26.539		
2,900.00	2,762.62	2,762.35	2,698.04	15.26	11.89	133.91	-436.04	-136.12	654.29	630.12	24.17	27.072		
3,000.00	2,852.17	2,852.92	2,784.37	16.11	12.42	134.21	-462.48	-143.34	696.56	671.27	25.28	27.552		
3,100.00	2,941.72	2,943.49	2,870.69	16.96	12.96	134.48	-488.92	-150.56	738.84	712.44	26.40	27.987		
,200.00	3,031.27	3,034.06	2,957.02	17.81	13.49	134.71	-515.36	-157.78	781.13	753.61	27.52	28.382		
3,300.00	3,120.82	3,124.64	3,043.35	18.67	14.03	134.93	-541.80	-165.00	823.43	794.78	28.65	28.742		
,400.00	3,210.37	3,215.21	3,129.67	19.53	14.57	135.12	-568.24	-172.22	865.74	835.96	29.78	29.072		
,500.00	3,299.92	3,305.78	3,216.00	20.39	15.11	135.29	-594.68	-179.44	908.06	877.14	30.91	29.374		
,600.00	3,389.48	3,396.35	3,302.32	21.25	15.65	135.45	-621.12	-186.66	950.38	918.33	32.05	29.653		
,700.00	3,479.03	3,486.92	3,388.65	22.11	16.19	135.59	-647.56	-193.88	992.71	959.52	33.19	29.910		
,800.00	3,568.58	3,577.50	3,474.97	22.98	16.74	135.73	-674.00	-201.09	1,035.05	1,000.71	34.33	30.149		
,900.00	3,658.13	3,668.07	3,561.30	23.85	17.28	135.85	-700.43	-208.31	1,077.38	1,041.91	35.48	30.370		
,000.00	3,747.68	3,758.64	3,647.62	24.72	17.82	135.96	-726.87	-215.53	1,119.73	1,083.10	36.62	30.576		
,100.00	3,837.23	3,849.21	3,733.95	25.59	18.37	136.07	-753.31	-222.75	1,162.07	1,124.30	37.77	30.768		
,200.00	3,926.78	3,939.78	3,820.28	26.46	18.92	136.17	-779.75	-229.97	1,204.42	1,165.50	38.92	30.947		
,300.00	4,016.34	4,030.36	3,906.60	27.33	19.46	136.26	-806.19	-237.19	1,246.77	1,206.70	40.07	31.115		
,400.00	4,105.89	4,120.93	3,992.93	28.20	20.01	136.34	-832.63	-244.41	1,289.12	1,247.90	41.22	31.273		
,500.00	4,195.44	4,211.50	4,079.25	29.07	20.56	136.42	-859.07	-251.63	1,331.48	1,289.10	42.37	31.421		
1,600.00	4,284.99	4,302.07	4,165.58	29.95	21.11	136.50	-885.51	-258.85	1,373.84	1,330.31	43.53	31.561		
,700.00	4,374.54	4,392.64	4,251.90	30.82	21.66	136.57	-911.95	-266.07	1,416.20	1,371.51	44.69	31.692		
,800.00	4,464.09	4,507.37	4,362.17	31.70	22.32	136.78	-942.44	-274.40	1,457.83	1,411.75	46.08	31.634		
,900.00	4,553.64	4,623.83	4,475.84	32.57	22.90	137.27	-966.81	-281.05	1,497.94	1,450.57	47.37	31.623		
5,000.00	4,643.20	4,740.26	4,590.81	33.45	23.41	138.00	-984.44	-285.87	1,536.59	1,488.07	48.52	31.672		
,100.00	4,733.76	4,856.99	4,706.97	34.29	23.84	142.08	-995.30							



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Ridge Unit (130, 135, 136 & 137) Reference Site:

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Grid

Minimum Curvature 2.00 sigma

DB_Decv0422v16 Offset Datum

Offset Des	sign: Ric	lge Unit (13	30, 135, 13	36 & 137) -	Ridge Ur	nit No. 136H	- Original Hole	- rev1					Offset Site Error:	0.00 ft
Survey Progra		MWD Off	inat	Sami I	Major Axis		Offset Wellbo	ara Cantra	Die	Rule Assi	gned:		Offset Well Error:	0.00 ft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	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		
(ft) 5,200.00	(ft) 4,829.62	(ft) 4,978.82	4,828.71	(ft) 34.88	(ft) 24.19	(°) 152.46	-999.31	-289.93	1,596.83	1,546.54	(ft) 50.29	31.752		
5,300.00	4,928.79	5,078.89	4,928.79	35.21	24.42	-149.31	-999.32	-289.93	1,608.35	1,557.57	50.79	31.668		
5,400.00	5,028.23	5,100.00	4,949.89	35.32	24.47	-64.80	-999.14	-290.10	1,609.51	1,558.70	50.81	31.676		
5,500.00	5,124.93	5,150.00	4,999.74	35.31	24.57	-55.20	-996.56	-292.68	1,601.92	1,551.02	50.90	31.469		
5,600.00	5,215.96	5,180.16	5,029.59	35.21	24.62	-53.23	-993.53	-295.72	1,586.42	1,535.58	50.84	31.207		
5,700.00	5,298.54	5,200.00	5,049.09	35.09	24.66	-53.60	-990.92	-298.32	1,563.38	1,512.67	50.71	30.827		
5,800.00	5,370.18	5,250.00	5,097.55	34.98	24.72	-55.92	-982.26	-306.99	1,533.13	1,482.27	50.86	30.143		
5,900.00	5,428.68	5,272.02	5,118.51	34.94	24.75	-58.98	-977.51	-311.74	1,496.78	1,445.82	50.97	29.368		
6,000.00 6,100.00	5,477.99 5,515.22	5,300.00 5,329.57	5,144.76 5,171.94	35.00 35.16	24.77 24.79	-60.85 -65.19	-970.65 -962.42	-318.60 -326.82	1,458.71 1,418.39	1,407.45 1,366.64	51.25 51.75	28.460 27.408		
6,200.00	5,535.83	5,350.00	5,190.35	35.44	24.80	-70.04	-956.17	-333.08	1,375.13	1,322.68	52.46	26.214		
0,200.00	0,000.00	0,000.00	0,100.00	00.44	24.00	-70.04	-500.17	-000.00	1,070.10	1,022.00	02.40	20.214		
6,300.00	5,540.22	5,378.51	5,215.50	35.82	24.81	-74.15	-946.67	-342.58	1,330.83	1,277.38	53.45	24.899		
6,400.00	5,540.86	5,400.00	5,233.99	36.34	24.81	-75.00	-938.93	-350.32	1,290.61	1,236.08	54.53	23.666		
6,500.00	5,541.50	5,432.33	5,261.01	36.98	24.81	-76.25	-926.38	-362.87	1,255.92	1,200.15	55.76	22.523		
6,600.00	5,542.14	5,466.01	5,288.05	37.76	24.80	-77.51	-912.18	-377.07	1,226.94	1,169.88	57.05	21.505		
6,700.00	5,542.78	5,500.00	5,314.08	38.66	24.79	-78.74	-896.74	-392.51	1,203.70	1,145.32	58.38	20.617		
6,800.00	5,543.41	5,550.00	5,349.93	39.67	24.75	-80.45	-872.11	-417.14	1,185.97	1,126.18	59.79	19.837		
6,900.00	5,544.05	5,606.51	5,386.61	40.79	24.70	-82.21	-841.73	-447.52	1,173.36	1,112.15	61.21	19.170		
7,000.00	5,544.69	5,670.33	5,422.71	42.00	24.63	-83.96	-804.55	-484.70	1,165.15	1,102.49	62.67	18.593		
7,100.00	5,545.33	5,750.00	5,462.63	43.31	24.53	-85.90	-755.80	-533.45	1,160.13	1,095.89	64.24	18.059		
7,200.00	5,545.97	5,833.30	5,498.00	44.69	24.43	-87.62	-702.53	-586.72	1,157.52	1,091.56	65.95	17.551		
7,300.00	5,546.61	5,923.57	5,523.57	46.15	24.31	-88.86	-641.39	-647.87	1,156.62	1,088.74	67.87	17.041		
7,400.00	5,547.25	6,020.02	5,535.54	47.67	24.20	-89.42	-573.80	-715.47	1,156.44	1,086.37	70.06	16.506		
7,419.61	5,547.38	6,039.24	5,535.99	47.98	24.18	-89.44	-560.21	-729.05	1,156.43	1,085.91	70.52	16.398		
7,500.00	5,547.89	6,119.61	5,536.39	49.25	24.10	-89.43	-503.38	-785.88	1,156.43	1,083.85	72.59	15.931		
7,600.00	5,548.53	6,219.61	5,536.87	50.89	24.69	-89.42	-432.67	-856.59	1,156.44	1,081.29	75.15	15.389		
7,700.00	5,549.17	6,319.61	5,537.36	52.58	25.91	-89.41	-361.97	-927.30	1,156.44	1,078.30	78.14	14.799		
7,800.00	5,549.81	6,419.61	5,537.84	54.31	27.32	-89.41	-291.26	-998.02	1,156.44	1,075.19	81.25	14.233		
7,900.00	5,550.45	6,519.61	5,538.33	56.08	28.84	-89.40	-220.55	-1,068.73	1,156.44	1,071.93	84.51	13.684		
8,000.00	5,551.09	6,619.61	5,538.81	57.89	30.45	-89.39	-149.84	-1,139.44	1,156.44	1,068.53	87.91	13.154		
8,100.00	5,551.73	6,719.61	5,539.30	59.74	32.14	-89.38	-79.13	-1,210.15	1,156.45	1,065.01	91.43	12.648		
8,200.00	5,552.37	6,819.61	5,539.78	61.61	33.90	-89.38	-8.42	-1,280.86	1,156.45	1,061.39	95.06	12.166		
8,300.00	5,553.01	6,919.61	5,540.27	63.51	35.72	-89.37	62.29	-1,351.57	1,156.45	1,057.68	98.77	11.708		
8,400.00	5,553.65	7,019.61	5,540.75	65.44	37.58	-89.36	132.99	-1,422.28	1,156.45	1,053.89	102.57	11.275		
8,500.00	5,554.28	7,119.61	5,541.24	67.39	39.49	-89.35	203.70	-1,492.99	1,156.46	1,050.03	106.43	10.866		
8,600.00	5,554.92	7,219.61	5,541.72	69.36	41.44	-89.35	274.41	-1,563.70	1,156.46	1,046.11	110.35	10.480		
8,700.00	5,555.56	7,319.61	5,542.21	71.35	43.42	-89.34	345.12	-1,634.41	1,156.46	1,042.14	114.32	10.116		
8,800.00	5,556.20	7,419.61	5,542.69	73.36	45.43	-89.33	415.83	-1,705.13	1,156.46	1,038.12	118.35	9.772		
8,900.00	5,556.84	7,519.61	5,543.18	75.39	47.46	-89.32	486.54	-1,775.84	1,156.46	1,034.05	122.41	9.447		
9,000.00	5,557.48	7,619.61	5,543.66	77.43	49.52	-89.32	557.25	-1,846.55	1,156.47	1,029.95	126.51	9.141		
9,100.00	5,558.12	7,719.61	5,544.15	79.48	51.59	-89.31	627.95	-1,917.26	1,156.47	1,025.82	130.65	8.852		
9,200.00	5,558.76	7,819.61	5,544.63	81.55	53.68	-89.30	698.66	-1,987.97	1,156.47	1,021.66	134.81	8.578		
9,300.00	5,559.40	7,919.61	5,545.12	83.62	55.79	-89.29	769.37	-2,058.68	1,156.47	1,017.47	139.01	8.319		
9,400.00	5,560.04	8,019.61	5,545.60	85.71	57.91	-89.28	840.08	-2,129.39	1,156.48	1,013.25	143.23	8.075		
9,500.00	5,560.68	8,119.61	5,546.08	87.81	60.04	-89.28	910.79	-2,200.10	1,156.48	1,009.01	147.47	7.842		
9,600.00	5,561.32	8,219.61	5,546.57	89.92	62.19	-89.27	981.50	-2,270.81	1,156.48	1,004.75	151.73	7.622		
9,700.00	5,561.96	8,319.60	5,547.05	92.04	64.34	-89.26	1,052.21	-2,341.52	1,156.48	1,000.48	156.01	7.413		
9,800.00	5,562.60	8,419.60	5,547.54	94.17	66.51	-89.25	1,122.91	-2,412.24	1,156.49	996.18	160.30	7.214		
9,900.00	5,563.24	8,519.60	5,548.02	96.30	68.68	-89.25	1,193.62	-2,482.95	1,156.49	991.87	164.62	7.025		
10,000.00	5,563.88	8,619.60	5,548.51	98.44	70.86	-89.24	1,264.33	-2,553.66	1,156.49	987.55	168.94	6.845		
10,100.00	5,564.52	8,719.60	5,548.99	100.59	73.04	-89.23	1,335.04	-2,624.37	1,156.49	983.21	173.28	6.674		
10,200.00	5,565.15	8,819.60	5,549.48	102.75	75.24	-89.22	1,405.75	-2,695.08	1,156.50	978.86	177.64	6.510		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Well Ridge Unit No. 135H

RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Offset Des	sign: R	Ridge Unit (13	30, 135, 1	36 & 137) -	Ridge Ur	nit No. 136H	- Original Hole	- rev1					Offset Site Error:	0.00 ft
Survey Progr		0-MWD								Rule Assi	igned:		Offset Well Error:	0.00 ft
	rence Vertical		set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellbo	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth		0501	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	TTGTTIII19	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
10,300.00	5,565.79		5,549.96	104.91	77.43	-89.22	1,476.46	-2,765.79	1,156.50	974.50	182.00	6.354		
10,400.00	5,566.43		5,550.45	107.07	79.64	-89.21	1,547.17	-2,836.50	1,156.50	970.12	186.38	6.205		
10,500.00	5,567.07		5,550.93	109.25	81.85	-89.20	1,617.87	-2,907.21	1,156.50	965.74	190.76	6.063		
10,600.00	5,567.7		5,551.42	111.42	84.06	-89.19	1,688.58	-2,977.92	1,156.51	961.35	195.16	5.926		
10,700.00	5,568.35		5,551.90 5,552.39	113.60	86.28	-89.19	1,759.29	-3,048.63	1,156.51	956.95	199.56	5.795		
10,800.00	5,568.99	9 9,419.60	5,552.39	115.79	88.50	-89.18	1,830.00	-3,119.35	1,156.51	952.54	203.97	5.670		
10,900.00	5,569.63	3 9,519.60	5,552.87	117.98	90.72	-89.17	1,900.71	-3,190.06	1,156.51	948.12	208.39	5.550		
11,000.00	5,570.27		5,553.36	120.17	92.95	-89.16	1,971.42	-3,260.77	1,156.52	943.70	212.82	5.434		
11,100.00	5,570.9	1 9,719.60	5,553.84	122.37	95.18	-89.15	2,042.12	-3,331.48	1,156.52	939.27	217.25	5.323		
11,200.00	5,571.5	5 9,819.60	5,554.33	124.57	97.42	-89.15	2,112.83	-3,402.19	1,156.52	934.83	221.69	5.217		
11,300.00	5,572.19	9,919.60	5,554.81	126.77	99.65	-89.14	2,183.54	-3,472.90	1,156.52	930.39	226.13	5.114		
11,400.00	5,572.83		5,555.30	128.98	101.89	-89.13	2,254.25	-3,543.61	1,156.53	925.95	230.58	5.016		
11,500.00	5,573.47		5,555.78	131.19	104.13	-89.12	2,324.96	-3,614.32	1,156.53	921.49	235.04	4.921		
11,600.00	5,574.1		5,556.27	133.40	106.38	-89.12	2,395.67	-3,685.03	1,156.53	917.04	239.50	4.829		
11,700.00	5,574.75		5,556.75	135.62	108.62	-89.11 -89.10	2,466.38	-3,755.74 -3,826.46	1,156.54	912.57	243.96	4.741		
11,800.00	5,575.39	10,419.00	5,557.24	137.84	110.87	-89.10	2,537.08	-3,826.46	1,156.54	908.11	248.43	4.655		
11,900.00	5,576.02	2 10,519.60	5,557.72	140.06	113.12	-89.09	2,607.79	-3,897.17	1,156.54	903.64	252.91	4.573		
12,000.00	5,576.66	6 10,619.60	5,558.21	142.28	115.37	-89.09	2,678.50	-3,967.88	1,156.54	899.16	257.38	4.493		
12,100.00	5,577.30	10,719.60	5,558.69	144.51	117.63	-89.08	2,749.21	-4,038.59	1,156.55	894.68	261.86	4.417		
12,200.00	5,577.94	4 10,819.60	5,559.18	146.74	119.88	-89.07	2,819.92	-4,109.30	1,156.55	890.20	266.35	4.342		
12,300.00	5,578.58	10,919.60	5,559.66	148.97	122.14	-89.06	2,890.63	-4,180.01	1,156.55	885.72	270.84	4.270		
12,400.00	5,579.22		5,560.15	151.20	124.39	-89.06	2,961.34	-4,250.72	1,156.56	881.23	275.33	4.201		
12,500.00 12,600.00	5,579.86 5,580.50		5,560.63 5,561.12	153.43 155.67	126.65 128.91	-89.05 -89.04	3,032.04 3,102.75	-4,321.43 -4,392.14	1,156.56 1,156.56	876.74 872.24	279.82 284.32	4.133 4.068		
12,700.00	5,580.30		5,561.60	157.90	131.17	-89.03	3,173.46	-4,462.85	1,156.57	867.75	288.82	4.004		
12,800.00	5,581.78		5,562.09	160.14	133.44	-89.02	3,244.17	-4,533.57	1,156.57	863.25	293.32	3.943		
12,000.00	0,001.70	3 11,410.00	0,002.00	100.14	100.44	-03.02	0,244.17	4,000.01	1,100.01	000.20	200.02	0.540		
12,900.00	5,582.42	2 11,519.60	5,562.57	162.38	135.70	-89.02	3,314.88	-4,604.28	1,156.57	858.75	297.82	3.883		
13,000.00	5,583.06	6 11,619.60	5,563.06	164.62	137.97	-89.01	3,385.59	-4,674.99	1,156.57	854.24	302.33	3.826		
13,100.00	5,583.70	11,719.60	5,563.54	166.87	140.23	-89.00	3,456.30	-4,745.70	1,156.58	849.74	306.84	3.769		
13,200.00	5,584.34	4 11,819.60	5,564.03	169.11	142.50	-88.99	3,527.00	-4,816.41	1,156.58	845.23	311.35	3.715		
13,300.00	5,584.98	3 11,919.60	5,564.51	171.36	144.76	-88.99	3,597.71	-4,887.12	1,156.58	840.72	315.87	3.662		
12 400 00	E E0E 61	12.010.60	E EGE 00	172.60	147.00	99.09	2 669 42	4.057.00	1 150 50	936 30	320.38	2.640		
13,400.00 13,500.00	5,585.62 5,586.25		5,565.00 5,565.48	173.60 175.85	147.03 149.30	-88.98 -88.97	3,668.42 3,739.13	-4,957.83 -5,028.54	1,156.59 1,156.59	836.20 831.69	324.90	3.610 3.560		
13,600.00	5,586.89		5,565.46	178.10	151.57	-88.96	3,809.84	-5,026.54	1,156.59	827.17	329.42	3.511		
13,700.00	5,587.53		5,566.45	180.35	153.84	-88.96	3,880.55	-5,169.96	1,156.60	822.65	333.94	3.463		
13,800.00	5,588.17		5,566.94	182.60	156.11	-88.95	3,951.25	-5,240.68	1,156.60	818.13	338.47	3.417		

13,900.00	5,588.8		5,567.42	184.86	158.38	-88.94	4,021.96	-5,311.39	1,156.60	813.61	342.99	3.372		
14,000.00	5,589.45	5 12,619.60	5,567.91	187.11	160.66	-88.93	4,092.67	-5,382.10	1,156.61	809.09	347.52	3.328		
14,100.00	5,590.09		5,568.39	189.37	162.93	-88.93	4,163.38	-5,452.81	1,156.61	804.57	352.04	3.285		
14,200.00	5,590.73	3 12,819.60	5,568.88	191.62	165.20	-88.92	4,234.09	-5,523.52	1,156.61	800.04	356.57	3.244		
14,300.00	5,591.37	7 12,919.60	5,569.36	193.88	167.48	-88.91	4,304.80	-5,594.23	1,156.62	795.51	361.10	3.203		
14,400.00	5,592.0	1 13,019.60	5,569.85	196.14	169.75	-88.90	4,375.51	-5,664.94	1,156.62	790.99	365.63	3.163		
14,500.00	5,592.6		5,570.33	198.40	172.03	-88.89	4,446.21	-5,735.65	1,156.62	786.46	370.17	3.105		
14,600.00	5,593.29		5,570.82	200.65	174.30	-88.89	4,516.92	-5,806.36	1,156.63	781.92	374.70	3.087		
14,700.00	5,593.93		5,571.30	202.91	176.58	-88.88	4,587.63	-5,877.07	1,156.63	777.39	379.24	3.050		
14,800.00	5,594.57		5,571.79	205.18	178.86	-88.87	4,658.34	-5,947.79	1,156.63	772.86	383.77	3.014		
14,900.00	5,595.2	1 13,519.60	5,572.27	207.44	181.13	-88.86	4,729.05	-6,018.50	1,156.64	768.33	388.31	2.979		
15,000.00	5,595.85	5 13,619.60	5,572.76	209.70	183.41	-88.86	4,799.76	-6,089.21	1,156.64	763.79	392.85	2.944		
15,100.00	5,596.49	9 13,719.60	5,573.24	211.96	185.69	-88.85	4,870.47	-6,159.92	1,156.64	759.25	397.39	2.911		
15,200.00	5,597.12		5,573.73	214.23	187.97	-88.84	4,941.17	-6,230.63	1,156.65	754.72	401.93	2.878		
15,300.00	5,597.76	13,919.60	5,574.21	216.49	190.25	-88.83	5,011.88	-6,301.34	1,156.65	750.18	406.47	2.846		
15,400.00	E E00 44	14,019.60	5 574 70	218.76	192.53	-88.83	5,082.59	6 272 05	1 150 00	745.64	444.00	2.814		
10,400.00	5,598.40	J 14,U19.0U	5,574.70	210.70	182.03	-00.03	5,002.58	-6,372.05	1,156.66	745.64	411.02	2.014		



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Ridge Unit (130, 135, 136 & 137) Reference Site:

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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. 135H RKB=6832+25 @ 6857.00ft

RKB=6832+25 @ 6857.00ft

Grid Minimum Curvature 2.00 sigma

DB_Decv0422v16 Offset Datum

Offset De	sign: IXIO	ige Offit (10	JO, 133, 10	JO & 137) -	rauge on	13011-	Original Hole	- 16v I					Offset Site Error:	0.00 ft
Survey Program: 0-MWD Reference Offset		set	Semi M	flajor Axis		Offset Wellbore Centre			Rule Assi		Offset Well Error:	0.00 ft		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
15,500.00	5,599.04	14,119.60	5,575.18	221.02	194.81	-88.82	5,153.30	-6,442.76	1,156.66	741.10	415.56	2.783		
15,600.00	5,599.68	14,219.60	5,575.67	223.29	197.09	-88.81	5,224.01	-6,513.47	1,156.66	736.56	420.10	2.753		
15,700.00	5,600.32	14,319.60	5,576.15	225.55	199.37	-88.80	5,294.72	-6,584.18	1,156.67	732.02	424.65	2.724		
15,800.00	5,600.96	14,419.60	5,576.64	227.82	201.65	-88.80	5,365.43	-6,654.90	1,156.67	727.47	429.19	2.695		
15,900.00	5,601.60	14,519.60	5,577.12	230.09	203.93	-88.79	5,436.13	-6,725.61	1,156.67	722.93	433.74	2.667		
16,000.00	5,602.24	14,619.60	5,577.61	232.36	206.21	-88.78	5,506.84	-6,796.32	1,156.68	718.39	438.29	2.639		
16,100.00	5,602.88	14,719.60	5,578.09	234.63	208.49	-88.77	5,577.55	-6,867.03	1,156.68	713.84	442.84	2.612		
16,200.00	5,603.52	14,819.60	5,578.58	236.90	210.77	-88.76	5,648.26	-6,937.74	1,156.68	709.30	447.39	2.585		
16,300.00	5,604.16	14,919.60	5,579.06	239.17	213.06	-88.76	5,718.97	-7,008.45	1,156.69	704.75	451.94	2.559		
16,400.00	5,604.80	15,019.60	5,579.55	241.44	215.34	-88.75	5,789.68	-7,079.16	1,156.69	700.21	456.48	2.534		
16,500.00	5,605.44	15,119.60	5,580.03	243.71	217.62	-88.74	5,860.39	-7,149.87	1,156.70	695.66	461.04	2.509		
16,600.00	5,606.08	15,219.60	5,580.52	245.98	219.90	-88.73	5,931.09	-7,220.58	1,156.70	691.11	465.59	2.484		
16,700.00	5,606.72	15,319.60	5,581.00	248.25	222.19	-88.73	6,001.80	-7,291.29	1,156.70	686.57	470.14	2.460		
16,744.89	5,607.00	15,364.49	5,581.22	249.27	223.21	-88.72	6,033.54	-7,323.04	1,156.71	684.52	472.18	2.450 SF		



Enduring Resources LLC Company:

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

0.00 ft Site Error:

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Offset TVD Reference:

RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft Grid

Offset Datum

Well Ridge Unit No. 135H

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma Database: DB Decv0422v16

Ridge Unit (130, 135, 136 & 137) - Ridge Unit No. 137H - Original Hole - rev1 Offset Design: Offset Site Error: 0.00 ft Survey Program: Reference Measured Vertical 0-MWD 0.00 ft Offset Well Error: Rule Assigned: Distance on 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 0.00 0.00 0.00 0.00 -109.76 -13.54 -37.70 40.06 0.00 100.00 100.00 100.00 100.00 0.13 0.13 -109.76 -13.54 -37.70 40.06 39.79 0.27 148.986 200.00 40.633 200.00 200.00 200.00 0.49 -109.76 -13.54 -37.70 40.06 39.07 0.99 0.49 300.00 300.00 300.00 300.00 0.85 0.85 -109 76 -13 54 -37 70 40.06 38 35 1 70 23 524 400.00 400.00 400.00 400.00 1.21 1.21 -109.76 -13.54 -37.70 40.06 37.64 2.42 16.554 500.00 500.00 500.00 500.00 1.57 1.57 -109.76 -13.54 -37.70 40.06 36.92 3.14 12.770 600.00 600.00 600.00 600.00 1.93 1.93 -109.76 -13.54 -37.70 40.06 36 20 3.85 10.394 700.00 700.00 700.00 700.00 2.29 2.29 -109.76 -13.54 -37.70 40.06 35.49 4.57 8.764 800.00 800.00 800.00 2.64 2.64 -109.76 -13.54 -37.70 40.06 34.77 5.29 7.576 CC, ES 800.00 7.124 SF 900.00 900.00 897.87 897.83 3.00 2.98 -110.08 -14.61 -39.9642.61 36.63 5.98 1,000.00 1,000.00 995.23 994.89 3.36 3.32 -110.87 -17.81 -46.71 50.25 43.60 6.65 7.553 1.100.00 1.099.95 1.091.36 1.090.23 3.71 3.66 121.79 -23.03 -57.74 64.26 56.97 7.30 8.808 1,200.00 1.199.63 1.185.22 1.182.61 4 04 4.02 124 48 -30.11 -72 69 86.01 78.10 7 92 10.866 -38.78 107.04 13.555 1,300.00 1,298.77 1,275.85 1,270.94 4.39 4.39 127.30 -91.00 115.57 8.53 1,400.00 1,397.08 1,362.48 1,354.38 4.77 4.78 129.57 -48.74 -112.01 152.77 143.64 9.13 16.730 1.494.31 1,444,47 1.432.31 5.17 131.19 -59.64 -135.04 197.28 187.57 20.306 1.500.00 5.19 9.72 1.600.00 1.590.18 1.521.38 1.504.35 5.62 5.61 132.21 -71.17 -159.37 248.63 238.32 10.30 24.128 1,700.00 1,684.43 1,592.91 1,570.33 132.71 -82.99 -184.33 306.27 295.39 10.89 28.136 6.13 6.04 1 800 00 1 776 81 1 658 90 1 630 24 6.70 6 48 132 75 -94 83 -209 32 369 67 358 21 11 46 32 247 -236.15 1,900.00 1,867.10 1,725.48 1,689.84 7.35 6.94 132.97 -107.53 437.96 425.84 12.12 36.126 2,000.00 1,956.65 1,796.55 1,753.33 8.05 7.47 134.64 -121.20 -265.00 507.62 494.75 12.86 39.461 2,100.00 2.046.20 1.867.61 1.816.82 8.79 8.01 135.91 -134.86 -293.85 577.44 563.81 13.63 42.378 2,135.76 -148.53 2,200.00 1,938.67 1,880.31 9.55 8.56 136.91 -322.70 647.38 632.97 14.40 44.942 2,300.00 2,225.31 2,009.73 1,943.79 10.33 9.12 137.71 -162.19 -351.55 717.40 702.20 15.20 47.201 2,400.00 2.314.86 2.080.80 2.007.28 11.13 9.69 138.37 -175.86 -380.40787.48 771.47 16.01 49.197 2,500.00 2,404.41 2,151.86 2,070.77 11.94 10.27 138.93 -189.52 -409.25 857.61 840.78 16.83 50.968 -203.18 927.77 2,600.00 2,493.96 2,222.92 2,134.26 12.76 10.85 139.40 -438.10 910.11 17.66 52.548 2.700.00 2.583.51 2.293.98 2 197 75 13 59 11 44 139.81 -216.85 -466 95 997.96 979 46 18 49 53 962 2,800.00 2,673.06 2,365.05 2,261.24 14.42 12.04 140.16 -230.51 -495.79 1,068.17 1,048.83 19.34 55.231 2,900.00 2,762.62 2,436.11 2,324.73 15.26 12.63 140.47 -244.18 -524.64 1,138.40 1,118.20 20.19 56.376 -257.84 3.000.00 2.852.17 2.507.17 2.388.22 16.11 13.23 140.74 -553.49 1.208.64 1.187.59 21.05 57.412 2,578.23 -271.51 1,256.98 58.353 3,100.00 2,941.72 2,451.71 16.96 13.83 140.99 -582.34 1,278.90 21.92 3,200.00 3,031.27 2,649.30 2,515.20 17.81 141.20 -285.17 -611.19 1,349.16 1,326.38 22.79 59.211 14.44 3.300.00 3.120.82 2.720.36 2.578.68 18.67 15.05 141.40 -298.83 -640.04 1,419,44 1.395.78 23.66 59.996 3,210.37 2,642.17 3,400.00 2,791.42 19.53 15.65 141.58 -312.50 -668.89 1,489.72 1,465.18 24.54 60.715 3,500.00 3,299.92 2,862.48 2,705.66 20.39 16.26 141.74 -326.16 -697.74 1,560.01 1,534.59 25.42 61.376 3,600.00 3.389.48 2.933.55 2.769.15 21.25 16.88 141.89 -339.83 -726.59 1,630.31 1,604.01 26.30 61.985 3,479.03 3,004.61 2,832.64 142.03 -353.49 62.549 3,700.00 22.11 17.49 -755.44 1,700.61 1,673.42 27.19 3,800.00 3,568.58 3,075.67 2,896.13 22.98 18.10 142.15 -367.16 -784.29 1,770.91 1,742.84 28.08 63.070 3.146.73 -380.82

-813.14

1.841.22

1.812.25

28.97

63.555

3.900.00

3.658.13

2.959.62

23.85

18.72

142.27



Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error: 0.00 ft

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

Well Ridge Unit No. 135H **TVD Reference:** RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft MD Reference: Grid

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=6832+25 @ 6857.00ft

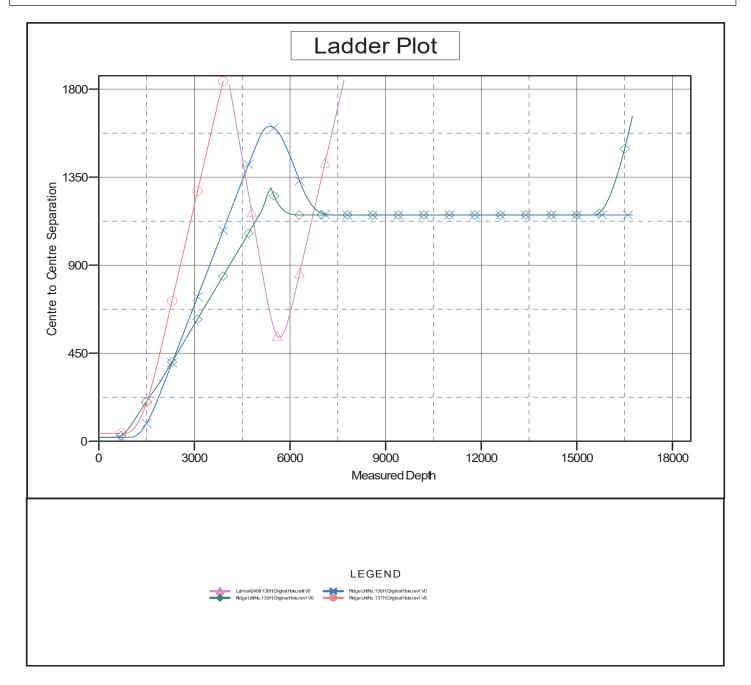
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 135H

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

Grid Convergence at Surface is: 0.11°





Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Reference Site: Ridge Unit (130, 135, 136 & 137)

Site Error:

Reference Well: Ridge Unit No. 135H

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

Local Co-ordinate Reference:

Well Ridge Unit No. 135H **TVD Reference:** RKB=6832+25 @ 6857.00ft RKB=6832+25 @ 6857.00ft MD Reference: North Reference:

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

Offset TVD Reference: Offset Datum

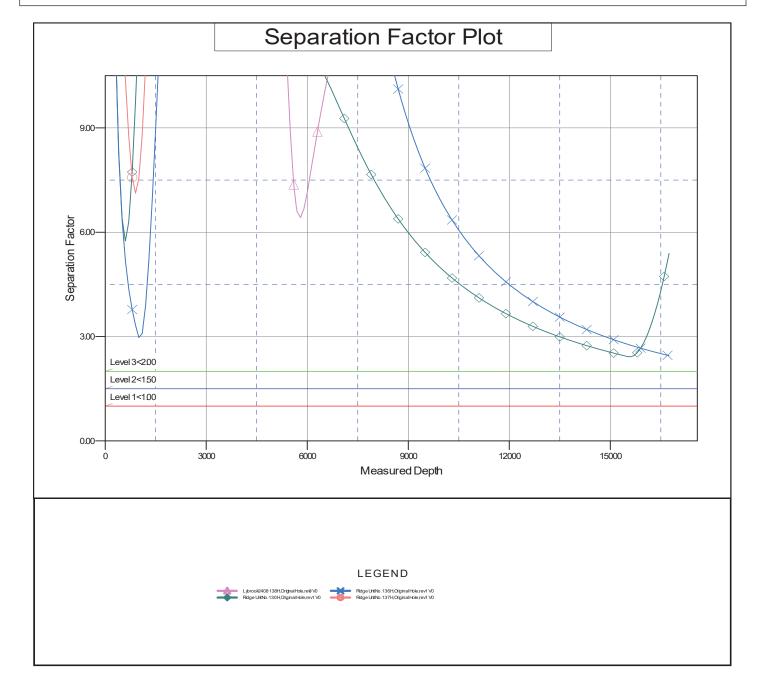
Reference Depths are relative to RKB=6832+25 @ 6857.00ft

Offset Depths are relative to Offset Datum Central Meridian is -107.833333333

Coordinates are relative to: Ridge Unit No. 135H

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

Grid Convergence at Surface is: 0.11°





United States Department of the Interior



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

In Reply Refer To: 3162.3-1(NMF0110)

* ENDURING RESOURCES LLC

#135H RIDGE UNIT

Lease: NMNM138391 Agreement: NMNM140471X SH: SE½NW½ Section 26, T. 24N., R. 8W.

San Juan County, New Mexico

BH: NW1/4NW1/4 Section 22, T. 24N., R. 8W.

San Juan County, New Mexico

*Above Data Required on Well Sign

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

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

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

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

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

II. REPORTING REQUIREMENTS

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

- 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 413046

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	413046
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	12/17/2024
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	12/17/2024
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	1/13/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/13/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	1/13/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	1/13/2025