Form 3160-3 (June 2015)		FORM APPI OMB No. 100	ROVED 04-0137
UNITED STATES		Expires. Januar	y 51, 2018
DEPARTMENT OF THE INTE	RIOR	5. Lease Serial No.	
BUREAU OF LAND MANAGE	MENT		
APPLICATION FOR PERMIT TO DRIL	L OR REENTER	6. If Indian, Allotee or Tr	ibe Name
1a Type of work: DRILL REEN	TF <b>R</b>	7. If Unit or CA Agreeme	ent, Name and No.
10. Type of well: Oil well Gas well Other		8. Lease Name and Well	No.
1c. Type of Completion:   Hydraulic Fracturing   Single 2	Zone Multiple Zone		
2 Name of Operator		0 A DL Wall No	
2. Name of Operator		30-043	3-21515
3a. Address   3b.	Phone No. (include area code)	10. Field and Pool, or Ex	ploratory
4. Location of Well (Report location clearly and in accordance with a	ny 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.       location to nearest     property or lease line, ft.       (Also to nearest drig unit line, if any)     16.	No of acres in lease 17. Spacin	ng Unit dedicated to this w	ell
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.	T		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)   22.	Approximate date work will start*	23. Estimated duration	
24	. Attachments	I	
The following, completed in accordance with the requirements of Onsl (as applicable)	hore Oil and Gas Order No. 1, and the H	Iydraulic Fracturing rule p	er 43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.	4. Bond to cover the operation	s unless covered by an exis	ting bond on file (see
2. A Drilling Plan.	Item 20 above).	-	
3. A Surface Use Plan (if the location is on National Forest System Lar SUPO must be filed with the appropriate Forest Service Office).	<ul> <li>ads, the</li> <li>5. Operator certification.</li> <li>6. Such other site specific infor BLM</li> </ul>	mation and/or plans as may	be requested by the
25. Signature	Name (Printed/Typed)	Date	
Title			
Approved by (Signature)	Name (Printed/Typed)	Date	2
Title	Office	I	
Application approval does not warrant or certify that the applicant hold applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equitable title to those rights	in the subject lease which	would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i of the United States any false, fictitious or fraudulent statements or rep	t a crime for any person knowingly and resentations as to any matter within its	willfully to make to any de	epartment or agency
		n	



\*(Instructions on page 2)

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(Continued on page 2)

# INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

# NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48( d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

# **Additional Operator Remarks**

## Location of Well

0. SHL: SESW / 688 FSL / 2359 FWL / TWSP: 22N / RANGE: 07W / SECTION: 14 / LAT: 36.133763 / LONG: -107.545837 (TVD: 0 feet, MD: 0 feet ) PPP: NESW / 2078 FSL / 2517 FWL / TWSP: 22N / RANGE: 07W / SECTION: 14 / LAT: 36.137577 / LONG: -107.545233 (TVD: 4978 feet, MD: 5680 feet ) PPP: NESW / 2111 FSL / 2618 FEL / TWSP: 22N / RANGE: 7W / SECTION: 15 / LAT: 36.137926 / LONG: -107.562615 (TVD: 4978 feet, MD: 13333 feet ) PPP: NESE / 2129 FSL / 0 FEL / TWSP: 22N / RANGE: 7W / SECTION: 15 / LAT: 36.137748 / LONG: -107.553752 (TVD: 4978 feet, MD: 8200 feet ) BHL: NWSW / 2096 FSL / 100 FWL / TWSP: 22N / RANGE: 07W / SECTION: 15 / LAT: 36.138096 / LONG: -107.571139 (TVD: 4908 feet, MD: 13331 feet )

## **BLM Point of Contact**

Name: JEFFREY J TAFOYA Title: Assistant Field Manager Phone: (505) 564-7672 Email: JTAFOYA@BLM.GOV Received by OCD: 3/22/2024 1:45:36 PM 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393–6161 Fax: (575) 393–0720

District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Drive

Santa Fe. NM 87505

Form Page 4 of 45 Revised August 1, 2011

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AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code <sup>3</sup>Pool Name 'API Number 52860 RUSTY GALLUP OIL POOL 30-043-21515 <sup>⁴</sup>Property Code °Well Number Property Name S ESCAVADA UNIT 343H 322151 'OGRID No. 'Elevation <sup>®</sup>Operator Name ENDURING RESOURCES, LLC 372286 6917 <sup>10</sup> Surface Location UL or lot no. Feet from the Section Township Range Lot Idn North/South line East/West line County Feet from the Ν 14 22N 7W 688 SOUTH 2359 WEST SANDOVAL <sup>11</sup> Bottom Hole Location Ιf Different From Surface UL or lot no. Township Lot Idn North/South line Feet from the County Section Range Feet from the East/West line 15 22N 7W 2096 SOUTH 100 WEST SANDOVAL 12 Dedicated Acres <sup>13</sup> Joint or Infill Consolidation Code <sup>15</sup> Order No. Section 14 N/2 SW/4 -R-14347 240.00 N/2 S/2 -Section 15





DATUM: NAD1983

DATUM: NAD1983

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



LAT 36.138096 °N LONG -107.571139 °W Released to Minuging: 4/18/2024 2:37:08 PM **Received by OCD:** 3/22/2024 1:45:36 PM 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393–6161 Fax: (575) 393–0720

Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First Street, Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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1220

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Page 1 of 4

		Energ	Stat y, Minerals a	te of New Me and Natural Res	xico sources I	Department	Sub Via	mit Electronically E-permitting			
	Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505										
			San	ita re, inivi 87	303						
		NAT	URAL G	AS MANA	GEME	NT PLAN	J				
This Natural Gas Manageme	ent Plan	must b	e submitted w	ith each Applica	tion for P	ermit to Drill (A	APD) for a new o	or recompleted well.			
			<u>Section</u>	<u>1 – Plan D</u> ffective May 25	<u>escrip</u> , <u>2021</u>	<u>tion</u>					
I. Operator:Enduring Resources, LLCOGRID:372286Date:03 / 22 / 2024											
II. Type: 🛛 Original 🗆 A	mendme	ent due	to 🗆 19.15.27	.9.D(6)(a) NMA	.C □ 19.1	5.27.9.D(6)(b)	NMAC 🗆 Other				
If Other, please describe:											
<b>III. Well(s):</b> Provide the fol be recompleted from a singl	llowing e well p	informa ad or co	ation for each onnected to a c	new or recomple central delivery p	eted well point.	or set of wells j	proposed to be di	illed or proposed to			
Well Name	API	-	ULSTR	Footages		Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D			
S Escavada Unit 343H	TBD	N-14-	22N-07W	688 FSL x 2359	FWL	536	1913	776			
S Escavada Unit 344H	TBD	N-14-	22N-07W	668 FSL x 2359	FWL	510	1822	776			
IV. Central Delivery Point	t Name:		South Esc	cavada CDP			[See 19.15.2	7.9(D)(1) NMAC]			
proposed to be recompleted	from a s	single v	well pad or con	inected to a centr	ral deliver	ry point.	set of wells prop	osed to be drifted or			
Well Name		API	Spud Date	TD Reached Date	Co Comme	ompletion encement Date	Initial Flow Back Date	First Production Date			
				< /11 / 2000 /		110 10001	0/1 5/2024	0 /0 7 /0 0 0 4			
S Escavada Unit 343H		TBD	4/15/2024	6/11/2024	9	/12/2024	9/15/2024	9/27/2024			
S Escavada Unit 344H		IBD	4/16/2024	6/12/2024	9	/12/2024	9/15/2024	9/2//2024			
				1			1				
	•						·				
VI. Separation Equipment	: 🛛 Att	ach a co	omplete descri	ption of how Op	erator wil	ll size separatio	n equipment to o	ptimize gas capture.			
VII. Operational Practices Subsection A through F of 1	s:⊠ At 9.15.27	tach a .8 NMA	complete desc AC.	ription of the ac	tions Ope	erator will take	to comply with	the requirements of			
VIII. Best Management P during active and planned m	ractices naintena	:⊠At nce.	tach a comple	ete description of	f Operato	r's best manag	ement practices t	o minimize venting			

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

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

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

## IX. Anticipated Natural Gas Production:

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

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

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

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

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

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

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

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

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

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

 $\boxtimes$  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

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

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

# Section 4 - Notices

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

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

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

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

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

Signature: Shaw-Marie Ford
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 3/22/2024
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 IV, LLC (Enduring) has pulled representative pressurized samples from wells in the same producing formation. Enduring has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



# **VENTING and FLARING**

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

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

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

Enduring will only flare gas during the following times:

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

## **OPERATIONAL PRACTICES**

## 19.15.27.8 A. Venting and Flaring of Natural Gas

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



# 19.15.27.8 B. Venting and flaring during drilling operations.

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

# 19.15.27.8 E. Venting and flaring during completion or recompletion operations.

During Completion Operations, Enduring utilizes the following:

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

# 19.15.27.8 D. Venting and flaring during production operations.

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

- 1. During an emergency or malfunction
- 2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:



- a. Enduring does not vent after the well achieves a stabilized rate and pressure.
- b. Enduring will remain present on-site during liquids unloading by manual purging and 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

- 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.



- 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 Resources, LLC (Enduring) utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

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

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

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

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

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

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

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



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

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

#### WELL INFORMATION:

Name:	S ESCAVADA UNIT 343H		
State:	New Mexico		
County:	Sandoval		
Surface Elevation:	6,917 ft ASL (GL)	6,942 ft ASL (KB)	
Surface Location:	14-22N-7 Sec-Twn-Rng	688 ft FSL	2,359 ft FWL
	36.133763 $^\circ$ N latitude	107.545837 $^\circ$ W longitude	(NAD 83)
BH Location:	15-22N-7 Sec-Twn-Rng	2,096 ft FSL	100 ft FWL
	36.138096 $^\circ$ N latitude	107.571139 $^\circ$ 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 48.9 miles to MM 103; Right (South) on Atkins Road for 4.3 miles to 4-way intersection; Straight (South) on Atkins Road for 1.6 miles to 4-way intersection; Straight (South) for 1.6 miles to new access road; Left (East) for 0.4 miles to S ESCVADA UNIT 343H PAD (2 WELLS: 343H, 344H).

#### **GEOLOGIC AND RESERVOIR INFORMATION:**

ognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	0/G/W	Pressure
	Ojo Alamo	6,112	830	830	W	normal
	Kirtland	6,027	915	915	W	normal
	Fruitland	5,882	1,060	1,060	G, W	sub
	Pictured Cliffs	5,587	1,355	1,357	G, W	sub
	Lewis	5,442	1,500	1,506	G, W	normal
	Chacra	5,197	1,745	1,765	G, W	normal
	Cliff House	4,112	2,830	2,963	G, W	sub
	Menefee	4,069	2,873	3,011	G, W	normal
	Point Lookout	3,177	3,765	3,996	G, W	normal
	Mancos	3,037	3,905	4,151	0,G	sub (~0.38)
	Gallup (MNCS_A)	2,707	4,235	4,515	0,G	sub (~0.38)
	MNCS_B	2,582	4,360	4,652	0,G	sub (~0.38)
	MNCS_C	2,492	4,450	4,749	0,G	sub (~0.38)
	MNCS_Cms	2,457	4,485	4,787	0,G	sub (~0.38)
	MNCS_D	2,322	4,620	4,938	0,G	sub (~0.38)
	MNCS_E	2,179	4,763	5,119	0,G	sub (~0.38)
	MNCS_F	2,132	4,810	5,190	0,G	sub (~0.38)
	MNCS_G	2,057	4,885	5,328	0,G	sub (~0.38)
	MNCS_H	1,997	4,945	5,470	0,G	sub (~0.38)
	MNCS_I	0	NA	0	0,G	sub (~0.38)
	FTP TARGET	1,964	4,978	5,680	O,G	sub (~0.38)
	PROJECTED LTP	2,034	4,908	13,333	O,G	sub (~0.38)

#### Surface: Nacimiento

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

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

Max. pressure gradient:	0.43	psi/ft	Evacuated hole gradient:	0.22	psi/ft		
Maximum anticipated BH pressu	ure, assum	ning maxim	um pressure gradient:	2,150	psi		
Maximum anticipated surface pressure, assuming partially evacuated hole:							
	-°- 1						

Temperature: Maximum anticipated BHT is 125° F or less

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

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

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

#### LOGGING, CORING, AND TESTING:

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

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

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

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

#### DRILLING RIG INFORMATION:

Contractor: Aztec

**Rig No.:** 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

#### Choke 3", 5,000 psi

KB-GL (ft): 25

Note: 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 additional details. Sufficient barite will be on location to weight up mud system to balance maximum anticipated pressure gradient.

#### DETAILED DRILLING PLAN:

	0	ft (MD)	to	350	ft (MD)	Hole Section Length		350 ft
	0	ft (TVD)	to	350	ft (TVD)	Ca	sing Required:	350 ft
	Note: Surface	hole may be d	rilled, cased, ar	nd cemented w	/ith a smaller ri	g in advance o	f the drilling rig	<u>.</u>
Fluid:	Туре	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	рН	Comn	nents
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud	mud
Hole Size:	17-1/2"							
Bit / Motor:	Mill Tooth or F	PDC, no motor						
MWD / Survey:	No MWD, dev	iation survey						
Logging:	None				1 1			·1
							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	655	116,634	116,634
Min. S.F.					7.39	4.17	7.31	7.79
	Assumptions:	Collapse: fully	evacuated casi	ng with 8.4 ppg	g equivalent ext	ernal pressure	gradient	
		Burst: maximu	im anticipated	surface pressur	re with 9.5 ppg	fluid inside cas	ing while drillin	g
		intermediate h	nole and 8.4 pp	g equivalent ex	ternal pressure	gradient		
		Tension: buoy	ed weight in 8.4	4 ppg fluid with	100,000 lbs ov	er-pull		
			Yield	Water	Hole Cap.		Planned TOC	Total Cmt
Cement:	Туре	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)
	TYPE III	14.6	1.39	6.686	0.6946	100%	0	364
Annular Capacity	0.6946	cuft/ft	13-3/8" casing	x 17-1/2" hole	annulus	Csg capacity	0.8680	ft3/ft
Drake Er	nergy Services:	Calculated cen	nent volumes a	ssume gauge h	ole and the exc	ess noted in ta	ble	Cu Ft Slurry
Tail	ASTM Type III Blend	Calcium Chloride 2% BWOC Accelerator	D-CD2 .3% BWOC Dispersant/Friction reducer	.25 lbs/sx Cello Flake - seepage				505.3

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

INTER		urill as per dir	ectional plan t	o casing setting	g deptn, run ca	sing, cement c	asing to surface	е.	
		350	ft (MD)	to	3,176	ft (MD)	Hole S	ection Length:	2,826 ft
		350 ft (TVD)		to	3,023	ft (TVD)	Ca	3,176 ft	
				FL		YP			
	Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comr	nents
		LSND (5% KCl)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No (	OBM
	Hole Size:	12-1/4"							
E	Bit / Motor:	12-1/4" PDC b	it w/mud moto	or					
MW	D / Survey:	MWD Survey v	with inclination	and azimuth s	urvey (every 10	0' at a minimu	m), GR optiona	I	
	Logging:	None							
								Tens. Body	Tens, Conn
Ca	asing 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					1.320	1.233	194.903	194.903
	Min. S.F.					1.53	2.86	2.89	2.32
		Assumptions:	Collapse: fully	evacuated casi	ng with 8.4 ppg	g equivalent ex	ternal pressure	gradient	
			Burst: maximu	im anticipated	surface pressu	e with 9.5 ppg	fluid inside cas	ing while drillin	g production
			hole and 8.4 p	ng equivalent e	external pressu	re gradient		0	01
			Tension: buoy	ed weight in 8.4	4 ppg fluid with	100.000 lbs ov	ver-pull		
MU Tor	aue (ft lbs):	Minumum:	3.400	Optimum:	4.530	Maximum:	5.660		
	4(		-,	Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
	Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Stage 1	Spacer	D-Mud Breaker	8.5		10-7-7		0	10 bbls	-7
	-	90:10 Type							
	Lead	III:POZ	12.5	2.140	12.05	70%	0	638	1,365
	Tail	Type III	14.6	1.380	6.64	20%	2.676	150	207
Di	splacement	242	est bbls				,		]
Annu	Iar Capacity	0.3627	cuft/ft	9-5/8" casing >	x 13-3/8" casing	g annulus			
		0.3132	cuft/ft	9-5/8" casing 2	x 12-1/4" hole a	annulus	9-5/8" 36# ID	8.921	
		0.4341	cuft/ft	9-5/8" casing v	, vol	est shoe it ft	44		
		Calculated cer	nent volumes a	issume gauge h	ole and the ex	cess (open hole	onlv) noted in	table	
	(nace-	D Mud Brooker	CADD				,,		
	Spacer	D-IVIUG 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 .25	D-FP1 0.5% BWOC	
	Lead	90/10 Poz	Enhancer	Control	Na Metasilicate	Dispersant	lb/sx	Defoamer	D-R1 .5% Retarder
				BWOC Fluid Loss &					
		ASTM Type III		Gas Migration		D-CD 2 .5% BWOC	Cello Flace LCM .25		
	Tail	Blend		Control		Dispersant	lb/sx		D-R1 .2% Retarder

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

3,176 ft (M	D) to	13,333 ft (MD)	Hole Section Length:	10,157 ft
3,023 ft (TV	'D) to	4,908 ft (TVD)	Casing Required:	13,333 ft

Estimated KOP:	4,600 ft (MD)	4,312 ft (TVD)
Estimated Landing Point (FTP):	5,680 ft (MD)	4,978 ft (TVD)
Estimated Lateral Length:	7,653 ft (MD)	

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

Hole Size: 8-1/2"

Bit / Motor: 8-1/2" PDC bit w/mud motor

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

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

Pressure Test:	NU BOPE and	test (as noted a	above); pressur	e test 9-5/8" ca	ising to	1,500	psi for 30 minu	ites.

							Tens. Body	Tens. Conn
<b>Casing Specs:</b>	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					2,425	8,959	295,588	295,588
Min. S.F.					3.08	1.19	1.85	1.51

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

				669	===;======			
	<u></u> ،	[]	Yield	Water	I	Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	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	502	1,190
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,151	1,482	2,326
Displacement	293	est bbls	1					
Annular Capacity	0.2691	cuft/ft	5-1/2" casing x	< 9-5/8" casing	annulus			
	0.2291	cuft/ft	5-1/2" casing x	< 8-1/2" hole ar	ınulus			
	0.1245	cuft/ft	5-1/2" casing v	vol	est shoe jt ft	100		
	Calculated cer	nent volumes a	ssume gauge h	ole and the exc	cess noted in ta	ble		
	American Cem	ienting Liner &	Production Ble	.nd				
Spacer	S-8 Silica Flour 163.7 lbs/bbl	Avis 616 viscosifier 11.6 lb/bbl	FP24 Defoamer .5 lb/bbl	IntegraGuard Star Plus 3K LCM 15 Ib/bbl	SS201 Surfactant 1 gal/bbl			_
Lead	ASTM Type I/II	BA90 Bonding Agent 5.0 lb/sx	Bentonite Viscosifier 8% BWOB	FL24 Fluid Loss .5% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R7C Retarder .2% BWOB	FP24 Defoamer 0.3% BWOB, Anti- Static .01 lb/sx	
Tail	Type G 50%	Pozzolan Fly Ash Extender 50%	BA90 Bonding Agent 3.0 lb/sx	Bentonite Viscosifier 4% BWOB	FL24 Fluid Loss .4% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder    .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 Ib/sx

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

**Released to Imaging: 4/18/2024 2:37:08 PM** 

#### COMPLETION AND PRODUCTION PLAN:

Est Lateral Length:	7,553				
Est Frac Inform:	31 Frac Stages	121,000	bbls slick water	9,820,000	lbs proppant
Flowback: F	low back through production tu	bing as pro	essures allow		
Production: P	roduce through production tubi	ng via gas	lift into permanent pro	duction and storage fa	acilities

#### **ESTIMATED START DATES:**

Drilling:	11/1/2023
Completion:	12/31/2023
Production:	2/14/2024

Prepared by:	Alec Bridge	12/20/2021
Updated:	Greg Olson	2/20/2023
	Greg Olson	3/27/2023
	G Olson	8/23/2023



Enduring Resources IV, LLC CHOKE MANIFOLD





# Enduring Resources IV, LLC BOPE Diagram





36 Pl

DB\_Feb2822



Database:

Planning Report

Local Co-ordinate Reference:



Well S Escavada Unit 343H

Company: Project: Site: Well: Wellbore: Design:	Endurir Sandov S Esca S Esca Origina rev0	ng Resources /al County, Ne vada Unit 343 vada Unit 343 I Hole	LLC ew Mexico NAD B H pd (343 & 34 BH	83 NM W 14)	TVD Refer MD Refere North Refe Survey Ca	ence: ince: erence: Iculation Meth	iod:	RKB=6917+28 RKB=6917+28 Grid Minimum Curva	@ 6945.00ft (E @ 6945.00ft (E iture	nsign 773) Insign 773)
Project	Sandova	al County, Nev	w Mexico NAD8	3 NM W						
Map System: Geo Datum: Map Zone:	US State North Ame New Mexi	Plane 1983 erican Datum ico Western Z	1983 one		System Dat	um:	М	ean Sea Level		
Site	S Escav	ada Unit 343	H pd (343 & 34	4)						
Site Position: From: Position Uncertainty	Lat/L	.ong 0.00 1	Northin Eastin ft Slot Ra	ng: g: adius:	1,868,1 2,807,98 1	11.592 usft 35.724 usft 3-3/16 "	Latitude: Longitude:			36.133763000 -107.545837000
Well	S Escava	ada Unit 343H	l, Surf loc: 688 l	-SL 2359 FWL	Section 14-T2	22N-R07W				
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.0 0.0 0.0	00 ft No 00 ft Eas 00 ft We 17 °	rthing: sting: Ilhead Elevati	2 on:	1,868,111.592 2,807,985.724	usft Lat usft Lot ft Gre	titude: ngitude: ound Level:		36.133763000 -107.545837000 6,917.00 ft
Wellbore	Original	l Hole								
Magnetics	Мос	del Name	Sample	Date	Declina	tion	Dip	Angle	Field	Strength
		IGRE2020		3/29/2022	(°)	8 62	(	°) 62.69	(I 49 1	nl) 198 78550481
				5/20/2022		0.02		02.00	40,	00010000401
Design	rev0									
Audit Notes:										
Version:			Phase	: P	LAN	Tie	On Depth:		0.00	
Vertical Section:		C	Depth From (TV	D)	+N/-S (ft)	+E/ (f	/-W	Dii	rection	
			0.00		0.00	0.0	00	27	( <i>1</i> ,252	
Plan Survey Tool Pro Depth From (ft) 1 0.00	ogram Depth (ft) 13,33	Date To Survey 1.74 rev0 (O	3/29/2022 (Wellbore) riginal Hole)		<b>Tool Name</b> MWD OWSG MWD -	Standard	Remarks			
Plan Sections										
Measured Depth Incli (ft)	nation (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00 1,000.00 1,837.94 4,576.56 5,285.28 5,345.28 5,679.70	0.00 0.00 25.14 25.14 60.00 60.00 90.52	0.000 0.000 35.447 35.447 285.590 285.590 271.253	0.00 1,000.00 1,811.32 4,290.55 4,863.51 4,893.51 4,978.00	0.00 0.00 147.36 1,095.11 1,331.11 1,345.07 1,388.89	0.00 0.00 104.91 779.61 539.95 489.90 174.24	0.00 0.00 3.00 0.00 10.00 0.00 10.00	0.00 0.00 3.00 0.00 4.92 0.00 9.13	0.00 0.00 0.00 -15.50 0.00 -4.29	0.00 0.00 35.45 0.00 -120.44 0.00 -26.70	S Feenvieds 242 JZD
13,331.74	90.52	2/1.253	4,908.00	1,556.16	-1,415.65	0.00	0.00	0.00	0.00	S Escavada 343 LIP

3/29/2022 1:02:28PM





Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
030.00	0.00	0.000	630.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ojo Alamo										
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
915.00	0.00	0.000	915.00	0.00	0.00	0.00	0.00	0.00	0.00	
Kirtland	0.00	0.000	1 000 00	0.00	0.00	0.00	0.00	0.00	0.00	
KOR Bogin	2°/100' build	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.060.01	1.80	35.447	1.060.00	0.77	0.55	-0.53	3.00	3.00	0.00	
Fruitland			,							
1,100.00	3.00	35.447	1,099.95	2.13	1.52	-1.47	3.00	3.00	0.00	
1,200.00	6.00	35.447	1,199.63	8.52	6.07	-5.88	3.00	3.00	0.00	
1,300.00	9.00	35.447	1,298.77	19.16	13.64	-13.21	3.00	3.00	0.00	
1,357.08	10.71	35.447	1,355.00	27.11	19.30	-18.71	3.00	3.00	0.00	
Pictured CI	iffs	05.447	4 007 00	04.00	04.00	00.40	0.00	0.00	0.00	
1,400.00	12.00	35.447	1,397.08	34.00	24.20	-23.46	3.00	3.00	0.00	
1,500.00	15.00	55.447	1,494.51	55.02	57.74	-30.57	3.00	3.00	0.00	
1,505.90	15.18	35.447	1,500.00	54.27	38.63	-37.44	3.00	3.00	0.00	
Lewis	19.00	25 447	1 500 19	76 15	E4 01	E0 E0	2.00	2.00	0.00	
1,000.00	21.00	35 447	1,590.10	103.34	73.57	-71 29	3.00	3.00	0.00	
1,765.32	21.00	35.447	1,745.00	123.26	87.75	-85.03	3.00	3.00	0.00	
Chacra A			,							
1,800.00	24.00	35.447	1,776.81	134.51	95.76	-92.80	3.00	3.00	0.00	
1.837.94	25.14	35.447	1.811.32	147.36	104.91	-101.66	3.00	3.00	0.00	
1,838.04	25.14	35.447	1,811.40	147.40	104.93	-101.69	0.00	0.00	0.00	
Begin 25.14	1° tangent									
1,900.00	25.14	35.447	1,867.50	168.84	120.20	-116.48	0.00	0.00	0.00	
2,000.00	25.14	35.447	1,958.02	203.45	144.83	-140.35	0.00	0.00	0.00	
2,100.00	25.14	35.447	2,048.55	238.05	169.47	-164.23	0.00	0.00	0.00	
2,200.00	25.14	35.447	2,139.08	272.66	194.11	-188.10	0.00	0.00	0.00	
2,300.00	25.14	35.447	2,229.61	307.27	218.74	-211.98	0.00	0.00	0.00	
2,400.00	25.14	35.447	2,320.14	341.87	243.38	-235.85	0.00	0.00	0.00	
2,500.00	25.14	35.447	2,501.20	411.09	200.02	-283.60	0.00	0.00	0.00	
2,700,00	05.14	25 447	2,501.72	445.60	217.00	207.47	0.00	0.00	0.00	
2,700.00	25.14	35 447	2,591.72	445.09	341 93	-331 35	0.00	0.00	0.00	
2,900.00	25.14	35.447	2,772.78	514.91	366.56	-355.22	0.00	0.00	0.00	
2,963.20	25.14	35.447	2,830.00	536.78	382.13	-370.31	0.00	0.00	0.00	
Cliff House	_Basal									
3,000.00	25.14	35.447	2,863.31	549.51	391.20	-379.10	0.00	0.00	0.00	
3,010.70	25.14	35.447	2,873.00	553.22	393.84	-381.65	0.00	0.00	0.00	
Menefee										
3,100.00	25.14	35.447	2,953.84	584.12	415.84	-402.97	0.00	0.00	0.00	
3,200.00	25.14	35.447	3,044.37	018.73	440.47	-420.85	0.00	0.00	0.00	_

3/29/2022 1:02:28PM



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Depth         Inclusion         Azimuth         Depth         +W/G         PE/W         Section         Rate         Rate         Rate           3.0000         25:14         35:447         31:34:00         65:33.3         465:11         41:50:72         0.00         0.00           3.500.00         25:14         35:447         32:56:05         722:25         55:14:33         49:04:71         0.00         0.00         0.00           3.500.00         25:14         35:447         3:49:04         77:175         55:35:5         -54:42         0.00         0.00         0.00           3.900.00         25:14         35:447         3:87:54         89:57         55:35:5         -54:42         0.00         0.00         0.00           3.900.00         25:14         3:54:47         3:87:64         89:65         63:75:6         -11:83         0.00         0.00         0.00           4.100.00         25:14         3:54:47         3:89:65         99:77:3         67:69         -59:38         0.00         0.00         0.00           4.100.00         25:14         3:54:47         3:89:69         99:40         77:147         78:89         0.00         0.00         0.00 <td< th=""><th>Measured</th><th></th><th></th><th>Vertical</th><th></th><th></th><th>Vertical</th><th>Dogleg</th><th>Build</th><th>Turn</th></td<>	Measured			Vertical			Vertical	Dogleg	Build	Turn
rh         rh<	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0.000.00	05.44	05 447	0.404.00	050.00	405.44	450.70	0.00	0.00	0.00
3.400.00 2.51.1 35.447 3.25.2 987.94 497.4 474.59 0.00 0.00 0.00 0.00 0.00 3.25.14 35.447 3.406.48 775.15 53.91.2 -522.34 0.00 0.00 0.00 0.00 0.00 3.700.00 2.51.1 35.447 3.567.54 22.37 588.23 -571.09 0.00 0.00 0.00 0.00 0.00 2.51.4 35.447 3.767.60 8.92.21 636.5 94.62 0.00 0.00 0.00 0.00 0.00 2.51.4 35.447 3.767.60 8.92.21 636.59 -616.89 0.00 0.00 0.00 0.00 0.00 4.00 0.00 2.51.4 35.447 3.767.60 8.92.21 636.59 -616.89 0.00 0.00 0.00 0.00 0.00 4.00 0.00 2.51.4 35.447 3.768.60 8.95.58 637.66 4.97.84 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	3,300.00	25.14	35.447	3,134.90	653.33	465.11	-450.72	0.00	0.00	0.00
5500.00         25.14         33.64.47         3.316.55         722.55         514.38         498.47         0.00         0.00         0.00           3.700.00         25.14         33.64.7         3.496.48         727.15         530.02         -722.36         0.00         0.00         0.00         0.00           3.800.00         25.14         33.64.7         3.697.0         680.37         682.37         682.39         470.00         0.00         0.00         0.00           3.900.00         25.14         33.64.7         3.768.60         695.58         637.56         417.41         0.00         0.00         0.00           4.100.00         25.14         33.64.7         3.894.55         964.79         668.54         -665.59         0.00         0.00         0.00           4.100.00         25.14         35.44.7         4.904.18         990.49         -683.41         -600.59         0.00         0.00         0.00           4.200.00         25.14         35.44.7         4.230.65         1.095.11         773.67         687.49         -740.40         0.00         0.00         0.00           4.500.00         25.14         35.44.7         4.230.65         1.095.11         773.67 <t< td=""><td>3,400.00</td><td>25.14</td><td>35.447</td><td>3,225.42</td><td>687.94</td><td>489.74</td><td>-474.59</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	3,400.00	25.14	35.447	3,225.42	687.94	489.74	-474.59	0.00	0.00	0.00
3,600.00         25,14         3,647         3,467.01         791.78         593.02         -522.34         0.00         0.00           3,800.00         25,14         35.447         3,687.54         826.37         588.29         -470.09         0.00         0.00         0.00           3,900.00         25,14         35.447         3,687.54         826.37         588.29         -470.09         0.00         0.00         0.00           9,906.03         25.14         35.447         3,786.0         894.21         636.59         -471.84         0.00         0.00         0.00           4,000.00         25.14         35.447         3,985.00         997.73         674.89         -453.81         0.00         0.00         0.00           4,000.00         25.14         35.447         3,985.00         947.73         674.89         -553.81         0.00         0.00         0.00           4,200.00         25.14         35.447         3,947.65         964.79         686.84         -655.59         0.00         0.00         0.00         0.00           4,500.00         25.14         35.447         4,281.05         1.96.11         771.47         488.46         0.00         0.00         0.00	3 500 00	25 14	35 447	3 315 95	722 55	514 38	-498 47	0.00	0.00	0.00
3700.00         25         14         35.447         3.497.01         791.76         563.85         -546.22         0.00         0.00         0.00           3.800.00         25.14         33.54.47         3.678.67         860.97         612.93         -53.97         0.00         0.00         0.00           3.900.00         25.14         33.54.47         3.765.00         894.21         636.59         -616.89         0.00         0.00         0.00           4.000.00         25.14         33.54.47         3.786.50         895.58         637.58         917.84         0.00         0.00         0.00           4.100.00         25.14         33.54.47         3.984.75         985.38         984.78         686.84         -665.59         0.00         0.00         0.00           4.000.00         25.14         35.447         4.240.16         989.40         711.47         786.46         0.00         0.00         0.00           4.500.00         25.14         35.447         4.240.55         1.065.11         778.721         0.00         0.00         0.00           4.576.56         25.14         35.447         4.240.55         1.065.14         778.64         740.84         0.00         0.00 </td <td>3 600 00</td> <td>25.14</td> <td>35 447</td> <td>3 406 48</td> <td>757 15</td> <td>539.02</td> <td>-522.34</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	3 600 00	25.14	35 447	3 406 48	757 15	539.02	-522.34	0.00	0.00	0.00
3,000,00 25,14 35,447 3,765,07 80,07 588,29 -570,68 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	3 700 00	25.14	35 1/7	3 /07 01	701.10	563.65	-546.22	0.00	0.00	0.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	3,700.00	25.14	35 447	3 587 54	826.37	588.20	570.00	0.00	0.00	0.00
3,980.00 2,014 3,347 3,765.00 984.21 636.59 4.67.89 0.00 0.00 0.00 Point Lookout 4,000.00 2,514 35.447 3,765.00 995.58 637.56 617.64 0.00 0.00 0.00 4,100.00 2,514 35.447 3,895.02 991.73 674.99 665.81 0.00 0.00 0.00 4,000.00 2,514 35.447 4,040.18 999.40 711.47 489.46 0.00 0.00 0.00 4,000.00 2,514 35.447 4,040.18 994.07 666.84 665.59 0.00 0.00 0.00 4,000.00 2,514 35.447 4,040.18 994.00 711.47 489.46 0.00 0.00 0.00 4,000.00 2,514 35.447 4,130.71 1034.01 779.61 -773.41 0.00 0.00 0.00 4,000.00 2,514 35.447 4,235.00 1.073.88 764.49 -740.84 0.00 0.00 0.00 4,576.56 2,514 35.447 4,235.00 1.073.88 764.49 -740.84 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.55 1.095.11 779.63 -755.51 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.55 1.095.11 779.63 -755.51 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.55 1.095.11 779.63 -755.51 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.55 1.095.11 779.63 -755.51 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.55 1.095.11 779.63 -755.51 0.00 0.00 0.00 4,576.56 2,514 35.447 4,290.51 0.121.88 784.92 -760.62 10.03 4.74 -21.28 4,650.00 2,22.8 18.545 4,357.86 1.121.05 793.10 -768.67 10.00 -3.51 -23.87 4,652.31 22.22 17.854 4,367.00 1.121.88 793.37 -766.67 10.00 -2.63 -22.655 MICS_6 4,740.16 21.82 351.948 4,460.00 1.157.20 796.51 -771.03 10.00 0.63 -27.09 MICS_6. 4,700.00 21.51 5.268 4,497.8 1.121.85 793.10 -766.71 10.00 3.63 -27.09 MICS_0. 4,900.00 23.20 39.140 4,496.99 1.175.92 791.61 -765.71 10.00 2.43 -22.657 MICS_6. 4,900.00 23.20 39.140 4,496.99 1.175.92 791.61 -765.71 10.00 0.63 -27.09 MICS_0. 4,900.00 35.50 30.542 4,672.10 1.124.87 793.50 -776.81 10.00 7.14 -3.55 5,000.00 35.40 30.479 4,474.75 779.40 4,72.37 10.00 8.83 -8.82 4,900.00 35.50 30.542 4,72.10 1.124.87 793.50 -776.81 10.00 7.44 9 -22.57 MICS_5. 5,000.00 35.40 30.424 4,741.7 12.225 771.50 -771.81 0.00 7.10 -13.55 5,000.00 35.50 30.542 4,772.10 1.245.27 755.57 10.00 8.83 -8.34 4,910.00 7.44 9,90.74 4,747 0.00 0.00 8.85 -5.91 5,200.00 52.55 2,90.133 4,816.06 1.309.52 607.34 -576.57 10.00 8.83 -8.52 5,200.00	3,600.00	20.14	35.447	3,307.34	020.37	500.29	-570.09	0.00	0.00	0.00
3,986.03         25,14         35,447         3,768.00         894.21         636.59         -616.89         0.00         0.00         0.00           Pinit Lockout         4,000.00         25,14         35,447         3,768.60         985.58         637.56         -617.84         0.00         0.00         0.00           4,150.68         25,14         35,447         3,996.55         964.79         686.84         -685.59         0.00         0.00         0.00           4,200.00         25,14         35,447         4,401.18         999.40         711.47         -889.46         0.00         0.00         0.00           4,300.00         25,14         35,447         4,221.24         1,034.01         773.34         0.00         0.00         0.00           4,500.00         25,14         35,447         4,220.51         1,095.11         773.21         0.00         0.00         0.00           4,575.55         25,14         35,447         4,290.55         1,095.11         779.61         -755.51         0.00         0.00         0.00           4,576.63         25.14         35,447         4,290.05         1,095.14         779.63         755.51         0.00         2.00         2.00	3,900.00	20.14	55.447	3,070.07	000.97	012.95	-595.97	0.00	0.00	0.00
Point Lockout           4 0000         2514         35.447         3.85.47         3.85.47         0.00	3,996.03	25.14	35.447	3,765.00	894.21	636.59	-616.89	0.00	0.00	0.00
4 000 00       25.14       35.447       376.60       865.58       637.56       871.71       0.00       0.00       0.00         4 150.88       25.14       35.447       3.905.00       947.73       674.69       853.81       0.00       0.00       0.00         4 200.00       25.14       35.447       3.948.65       964.79       686.84       865.59       0.00       0.00       0.00         4 200.00       25.14       35.447       4.940.18       999.40       711.47       899.46       0.00       0.00       0.00       0.00         4 500.00       25.14       35.447       4.221.24       1.066.62       760.75       -777.21       0.00       0.00       0.00         4 576.55       25.14       35.447       4.220.51       1.095.14       779.25       0.00       0.00       0.00         4 576.55       25.14       35.447       4.220.61       1.095.14       779.63       -755.51       0.00       0.00       0.00         4 576.63       25.14       35.447       4.200.61       1.102.87       749.62       10.03       -4.74       4.255.7         4 576.63       25.14       35.447       4.200.61       1.121.86       780.32       -	Point Looko	ut								
$ \begin{array}{c} 4100.00 & 25.14 & 35.447 & 3.386.12 & 390.15 & 682.20 & -941.71 & 0.00 & 0.00 & 0.00 \\ \hline \begin{tabular}{lllllllllllllllllllllllllllllllllll$	4 000 00	25.14	35 447	3 768 60	895 58	637 56	-617 84	0.00	0.00	0.00
4,150,88       25,14       35,647       3,905,00       947,73       674,69 $-653,81$ 0.00       0.00       0.00         4,200,00       25,14       35,447       4,940,18       999,40       711,47 $-698,46$ 0.00       0.00       0.00       0.00         4,000,00       25,14       35,447       4,440,18       999,40       711,47 $-698,46$ 0.00       0.00       0.00       0.00         4,000,00       25,14       35,447       4,212,44       1.068,62       760,75 $-773,24$ 0.00       0.00       0.00         4,576,56       25,14       35,447       4,220,55       1.095,11       779,61 $-740,84$ 0.00       0.00       0.00         Begin 10'10'0'buildturn       94       311,095,11       779,61       766,52       0.03 $-4.74$ $-22.8$ 1.354,78 $1.121,05$ 793,31       768,67       10.00 $-3.51$ $-23.87$ 4,650,00       22.28       1.9546       4,317,86       1.121,05       793,31       768,67       10.00 $-2.55$ MCS_C       9       9       9       9       9       9       9       9       9       9 <td>4 100 00</td> <td>25.14</td> <td>35 447</td> <td>3 859 12</td> <td>930 19</td> <td>662.20</td> <td>-641 71</td> <td>0.00</td> <td>0.00</td> <td>0.00</td>	4 100 00	25.14	35 447	3 859 12	930 19	662.20	-641 71	0.00	0.00	0.00
Mances         Solution         <	4,100.00	25.14	35 447	3,005,00	047 73	674.60	653.81	0.00	0.00	0.00
Mances         Mances           4,200,00         25:14         35:447         3,949.65         964.79         686.84         -665.59         0.00         0.00         0.00           4,300,00         25:14         35:447         4,130.71         1.034.01         736.11         -713.34         0.00         0.00         0.00           4,500,00         25:14         35:447         4,221.24         1.068.62         760.75         -737.21         0.00         0.00         0.00           4,575.56         25:14         35:447         4,220.55         1.095.11         779.61         -755.51         0.00         0.00         0.00           4,576.56         25:14         35:447         4,220.55         1.095.11         779.61         -755.51         0.00         0.00         0.00           4,576.56         25:14         35:447         4,280.55         1.095.11         779.61         -756.51         0.00         0.00         0.00           4,576.56         25:14         35:447         4.280.50         1.121.05         783.10         -766.62         1.0.03         -4.74         -21.26           4,570.00         21:83         351.726         4,450.078         1.157.20         786.51	4,150.00	25.14	55.447	3,903.00	547.75	074.09	-055.01	0.00	0.00	0.00
4,200.00       25.14       35.447       3,949.65       964.79       668.84       -665.59       0.00       0.00       0.00         4,400.00       25.14       35.447       4,130.71       1.034.01       731.11       -713.34       0.00       0.00       0.00         4,500.00       25.14       35.447       4,220.50       1.073.88       764.76       -740.84       0.00       0.00       0.00         4,575.65       25.14       35.447       4,290.65       1.095.11       779.63       -755.59       0.00       0.00       0.00         4,575.65       25.14       35.447       4,290.65       1.095.14       779.63       -755.59       0.00       0.00       0.00         4,600.00       24.03       30.479       4,311.86       1.103.28       784.92       -760.62       10.03       -4.74       -21.26         4,600.00       24.03       30.479       4,311.86       1.121.86       793.37       -768.67       10.00       -3.51       -23.57         MNCS_B       -       -       4,500.00       1.157.80       796.51       -771.03       10.00       0.63       -27.99         MNCS_C       -       -       -       -       - <t< td=""><td>Mancos</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Mancos									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4,200.00	25.14	35.447	3,949.65	964.79	686.84	-665.59	0.00	0.00	0.00
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4 300 00	25 14	35 447	4 040 18	999 40	711 47	-689.46	0.00	0.00	0.00
4.00.00         22.14         35.477         4.710.01         1.00.13         -737.21         0.00         0.00         0.00           4.515.20         25.14         35.447         4.225.00         1.073.88         764.48         -740.84         0.00         0.00         0.00           MNCS_A	4,000.00 1 100 00	25.14	35 1/7	4 120 71	1 03/ 01	726 11	_712 2/	0.00	0.00	0.00
4,515,20         25,14         35,447         4,235,00         1,07,38         740,49         -740,49         -740,40         0,00         0,00           MNCS_A         -         -         -         -         -         -         -           4,576,65         25,14         35,447         4,230,55         1,095,11         779,61         -755,51         0,00         0,00         0,00           4,576,63         25,14         35,447         4,290,51         1,095,14         779,63         -755,51         0,00         0,00         0,00           4,600,00         24,03         30,479         4,311,86         1,103,28         768,92         -760,82         10,00         -4.74         -21,26           4,650,00         22,22         17,954         4,360,00         1,121,05         793,10         -768,41         10,00         -2,55           MNCS_B         -	4,400.00	25.14	35.447	1 221 24	1,004.01	760.75	-727 01	0.00	0.00	0.00
MNCS_A         Value         Value <t< td=""><td>4,500.00</td><td>20.14</td><td>35.447</td><td>4,221.24</td><td>1,000.02</td><td>764.40</td><td>-131.21</td><td>0.00</td><td>0.00</td><td>0.00</td></t<>	4,500.00	20.14	35.447	4,221.24	1,000.02	764.40	-131.21	0.00	0.00	0.00
MNCS_A         MNCS_A         MNCS_S         25.14         35.447         4.290.55         1,095.11         779.61         -755.49         0.00         0.00         0.00           4.576.63         25.14         35.447         4.290.51         1,095.14         779.63         -755.51         0.00         0.00         0.00           4.600.00         22.40         18.645         4.357.86         1,121.05         779.81         10.00         -3.51         -23.87           4.652.01         22.22         17.954         4.300.00         1,121.88         779.37         778.41         10.00         -2.65         -25.55           MNCS_B         U         U         -26.61         -27.103         10.00         0.63         -27.09           4,700.00         21.51         5.266         4,404.28         1,157.20         796.51         -771.07         10.00         0.63         -27.09           MNCS_C         MNCS_C         MS         1.167.51         796.46         -770.88         10.00         1.71         -26.50           4,780.00         23.20         339.140         4,496.99         1,175.92         791.61         -765.73         10.00         3.45         -24.05           4,800	4,315.20	23.14	35.447	4,235.00	1,073.00	764.49	-740.04	0.00	0.00	0.00
4,576,56       25,14       35,447       4,290,55       1,095,11       779,61       -755,51       0.00       0.00       0.00         Begin 10*/100* build/um       - </td <td>MNCS_A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	MNCS_A									
4,576,63         25,14         35,447         4,290,61         1,095,14         779,63         -755,51         0.00         0.00         0.00           Begin 10'10'0 build/turn	4,576.56	25.14	35.447	4,290.55	1,095.11	779.61	-755.49	0.00	0.00	0.00
Begin 10*/10*/bit/unt         1/0.00.1         1/1.00.2         1/0.00.1	1 576 63	25.14	35 117	1 200 61	1 005 1/	770 63	-755 51	0.00	0.00	0.00
Legin 10/100 buildrun         4,310,30,479         4,311,86         1,103,28         784,92         -760,62         10.03         -4,74         -21,26           4,650,00         22,28         18,545         4,357,86         1,121,05         793,37         -768,67         10.00         -3,51         -23,87           4,652,31         22,22         17,954         4,360,00         1,121,88         793,37         -768,67         10.00         -2,53         -25,55           MNCS_B         -         -         -         -         -         -26,61         -         -         -         -         -         -26,61         -         -         -         -         -         -26,61         -         -         -         -         -         -         -         -26,61         -         <	+,070.00	20.14	55.447	4,230.01	1,035.14	113.00	-700.01	0.00	0.00	0.00
4,600.00         24,03         30.4.79         4,311.86         1,103.28         784.92         1,00.3         4,4.4         -21.26           4,652.31         22.22         117.954         4,360.00         1,121.05         793.10         -766.67         10.00         -2.53         -25.55           MNCS_B         -         -         -         -         -         -         -         -25.3         -25.55           MNCS_C         -         -         -         -         -771.87         10.00         -1.49         -26.61           4,770.00         21.51         5.266         4,405.00         1,157.51         796.46         -771.87         10.00         1.71         -26.50           4,750.00         21.83         351.726         4,450.78         1,157.51         796.46         -770.98         10.00         1.71         -26.50           4,800.00         23.20         339.140         4,465.078         1,157.51         796.46         -770.98         10.00         1.71         -26.50           4,800.00         23.20         339.140         4,465.078         1,157.51         791.61         -765.73         10.00         3.45         -24.05           4,800.00         23.2	Begin 10°/10	0' build/turn						10.00		
4,650.00         22.28         18.545         4,357.86         1,121.05         793.37         -768.67         10.00         -3.51         -23.87           MNCS_B         -         -         -         -         -768.67         10.00         -2.53         -25.55           MNCS_B         -         1.17         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         1.17         -         -         1.17         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	4,600.00	24.03	30.479	4,311.86	1,103.28	784.92	-760.62	10.03	-4.74	-21.26
4,652,31         22,22         17,954         4,360.00         1,121.88         793.37         -768.67         10.00         -2.5.3         -25.55           MNCS_B	4,650.00	22.28	18.545	4,357.86	1,121.05	793.10	-768.41	10.00	-3.51	-23.87
MNCS_B         U         V <td>4,652.31</td> <td>22.22</td> <td>17.954</td> <td>4,360.00</td> <td>1,121.88</td> <td>793.37</td> <td>-768.67</td> <td>10.00</td> <td>-2.53</td> <td>-25.55</td>	4,652.31	22.22	17.954	4,360.00	1,121.88	793.37	-768.67	10.00	-2.53	-25.55
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	MNCS_B									
4,749.16       21.82       351.948       4,450.00       1,157.20       796.51       -771.03       10.00       0.63       -27.09         MNCS_C       4,750.00       21.83       351.726       4,450.78       1,157.51       796.46       -770.98       10.00       1.71       -26.50         4,760.00       22.75       342.273       4,485.00       1,171.13       793.29       -767.51       10.00       2.49       -25.57         MNCS_Cms       4,800.00       23.20       339.140       4,496.99       1,175.92       791.61       -765.73       10.00       3.45       -24.05         4,800.00       23.44       328.269       4,542.58       1,194.27       782.45       -756.17       10.00       4.49       -21.74         4,900.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       6.70       -15.03         MNCS_C       10.75       30.89       313.596       4,620.00       1,225.90       756.17       -729.20       10.00       7.10       1.355         5,000.00       35.50       305.942       4,672.10       1,247.55       729.94       -702.50       10.00       7.49       -11.99         5,050.0	4,700.00	21.51	5.266	4,404.28	1,139.17	796.96	-771.87	10.00	-1.49	-26.61
4,749.16         21.82         351.948         4,450.00         1,157.20         746.51         -771.03         10.00         0.63         -27.09           MNCS_C         4,750.00         21.83         351.726         4,450.78         1,157.51         796.46         -770.98         10.00         1.71         -26.50           4,766.97         22.75         342.273         4,485.00         1,171.13         793.29         -767.51         10.00         2.49         -25.57           MNCS_C         model         - <td>1710.10</td> <td></td> <td>054.040</td> <td>4.450.00</td> <td>4 4 5 7 0 0</td> <td>700 54</td> <td>774.00</td> <td>40.00</td> <td>0.00</td> <td>07.00</td>	1710.10		054.040	4.450.00	4 4 5 7 0 0	700 54	774.00	40.00	0.00	07.00
MNCS_C         View         <	4,749.16	21.82	351.948	4,450.00	1,157.20	796.51	-771.03	10.00	0.63	-27.09
4,750.00       21.83       351.726       4,450.78       1,157.51       796.46       -770.98       10.00       1.71       -26.50         4,786.97       22.75       342.273       4,485.00       1,171.13       793.29       -767.51       10.00       2.49       -25.57         MNCS_Cms	MNCS_C									
4,786.97       22.75       342.273       4,485.00       1,171.13       793.29       -767.51       10.00       2.49       -25.57         MNCS_Cms       -       <	4,750.00	21.83	351.726	4,450.78	1,157.51	796.46	-770.98	10.00	1.71	-26.50
MNCS_Cms           4,800.00         23.20         339.140         4,496.99         1,175.92         791.61         -765.73         10.00         3.45         -24.05           4,850.00         25.44         328.269         4,542.58         1,194.27         782.45         -756.17         10.00         4.49         -21.74           4,900.00         28.36         319.271         4,587.18         1,212.42         769.05         -742.37         10.00         5.83         -18.00           4,937.75         30.89         313.596         4,620.00         1,225.90         756.17         -729.20         10.00         6.70         -15.03           MNCS_D          4,950.00         31.76         311.936         4,672.10         1,247.55         729.94         -702.50         10.00         7.49         -11.99           5,050.00         39.49         300.984         4,711.77         1,280.25         675.49         -647.35         10.00         8.33         -8.34           5,110.00         43.66         296.815         4,749.17         1,280.25         675.49         -647.35         10.00         8.52         -7.46           MNCS_E           5100.00         47.96	4,786.97	22.75	342.273	4,485.00	1,171.13	793.29	-767.51	10.00	2.49	-25.57
4,800.00       23.20       339.140       4,496.99       1,175.92       791.61       -765.73       10.00       3.45       -24.05         4,850.00       25.44       328.269       4,542.58       1,194.27       782.45       -756.17       10.00       4.49       -21.74         4,900.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       5.83       -18.00         4,937.75       30.89       313.596       4,620.00       1,225.90       751.50       -724.43       10.00       7.10       -13.55         5,000.00       35.50       305.942       4,672.10       1,247.55       729.94       -702.50       10.00       7.49       -11.99         5,050.00       39.49       300.984       4,711.77       1,266.27       704.54       -676.74       10.00       7.98       -9.92         5,100.00       43.66       296.815       4,763.00       1,286.22       663.29       -635.02       10.00       8.33       -8.34         5,150.00       47.96       293.245       4,784.02       1,295.37       643.00       -614.54       10.00       8.64       -6.94         5,150.00       52.35       290.133       4,816.	MNCS Cms									
4,000.00       25.44       328.269       4,700.05       1,194.27       782.45       776.17       10.00       4.49       -21.74         4,900.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       5.83       -18.00         4,937.75       30.89       313.596       4,620.00       1,225.90       756.17       -729.20       10.00       6.70       -15.03         MNCS_D       -       -       -       -       -726.43       10.00       7.49       -11.99         5,000.00       35.50       305.942       4,672.10       1,247.55       729.94       -702.50       10.00       7.49       -11.99         5,100.00       43.66       296.815       4,749.17       1,280.25       675.49       -647.35       10.00       8.33       -8.34         5,119.38       45.31       295.368       4,763.00       1,286.22       663.29       -635.02       10.00       8.64       -69.45         5,100.00       47.96       293.245       4,784.02       1,295.37       643.00       -614.54       10.00       8.64       -69.45         5,100.00       52.35       290.133       4,816.06       1,309.52       607.3	4 800 00	23.20	339 140	4 496 99	1 175 92	791.61	-765 73	10.00	3.45	-24.05
4,000.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       5.83       -18.00         4,900.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       5.70       -15.03         MNCS_D	4,850.00	25.20	328 260	4 542 58	1 10/ 27	782.45	-756 17	10.00	1 10	-24.00
4,900.00       28.36       319.271       4,587.18       1,212.42       769.05       -742.37       10.00       5.83       -18.00         4,937.75       30.89       313.596       4,620.00       1,225.90       756.17       -729.20       10.00       6.70       -15.03         MNCS_D       -	4,000.00	20.44	520.205	4,042.00	1,134.27	102.40	-750.17	10.00	4.43	-21.74
4,937.75       30.89       313.596       4,620.00       1,225.90       756.17       -729.20       10.00       6.70       -15.03         MNCS_D	4,900.00	28.36	319.271	4,587.18	1,212.42	769.05	-742.37	10.00	5.83	-18.00
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	4,937.75	30.89	313.596	4,620.00	1,225.90	756.17	-729.20	10.00	6.70	-15.03
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	MNCS D									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4.950.00	31.76	311.936	4,630,46	1,230,22	751.50	-724.43	10.00	7.10	-13,55
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 000 00	35.50	305 942	4 672 10	1 247 55	729 94	-702 50	10.00	7 49	-11 99
5,000.00       53.40       4,111.1       1,201.21       101.34       500.14       10.00       1.50       5.52         5,100.00       43.66       296.815       4,749.17       1,280.25       675.49       -647.35       10.00       8.33       -8.34         5,119.38       45.31       295.368       4,763.00       1,286.22       663.29       -635.02       10.00       8.52       -7.46         MNCS_E       5,150.00       47.96       293.245       4,784.02       1,295.37       643.00       -614.54       10.00       8.64       -6.94         5,190.18       51.48       290.714       4,810.00       1,306.82       614.58       -585.88       10.00       8.77       -6.30         MNCS_F       5,200.00       52.35       290.133       4,816.06       1,309.52       607.34       -578.58       10.00       8.85       -5.91         5,250.00       56.82       287.372       4,845.03       1,322.59       568.76       -539.72       10.00       8.93       -5.52         5,285.28       60.00       285.590       4,863.55       1,331.11       539.95       -510.67       0.00       0.00       0.00         5,285.35       60.00       285.590	5 050 00	30.00	300 08/	4,072.10 1 711 77	1,247.00	704 54	-676 74	10.00	7.40	_0.02
5,100.00       43.66       296.815       4,749.17       1,280.25       675.49       -647.35       10.00       8.33       -8.34         5,119.38       45.31       295.368       4,763.00       1,286.22       663.29       -635.02       10.00       8.52       -7.46         MNCS_E	3,030.00	55.45	500.504	4,711.77	1,204.27	704.54	-070.74	10.00	1.50	-3.32
5,119.38       45.31       295.368       4,763.00       1,286.22       663.29       -635.02       10.00       8.52       -7.46         MNCS_E       5,150.00       47.96       293.245       4,784.02       1,295.37       643.00       -614.54       10.00       8.64       -6.94         5,190.18       51.48       290.714       4,810.00       1,306.82       614.58       -585.88       10.00       8.77       -6.30         MNCS_F	5,100.00	43.66	296.815	4,749.17	1,280.25	675.49	-647.35	10.00	8.33	-8.34
MNCS_E         5,150.00         47.96         293.245         4,784.02         1,295.37         643.00         -614.54         10.00         8.64         -6.94           5,190.18         51.48         290.714         4,810.00         1,306.82         614.58         -585.88         10.00         8.77         -6.30           MNCS_F         5,200.00         52.35         290.133         4,816.06         1,309.52         607.34         -578.58         10.00         8.85         -5.91           5,250.00         56.82         287.372         4,845.03         1,322.59         568.76         -539.72         10.00         8.93         -5.52           5,285.28         60.00         285.590         4,863.51         1,331.11         539.95         -510.73         10.00         9.03         -5.05           5,285.35         60.00         285.590         4,863.55         1,331.12         539.89         -510.67         0.00         0.00         0.00           Begin 60.00° tangent           5,300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,	5,119.38	45.31	295.368	4,763.00	1,286.22	663.29	-635.02	10.00	8.52	-7.46
5,150.00       47.96       293.245       4,784.02       1,295.37       643.00       -614.54       10.00       8.64       -6.94         5,190.18       51.48       290.714       4,810.00       1,306.82       614.58       -585.88       10.00       8.77       -6.30         MNCS_F       5,200.00       52.35       290.133       4,816.06       1,309.52       607.34       -578.58       10.00       8.85       -5.91         5,250.00       56.82       287.372       4,845.03       1,322.59       568.76       -539.72       10.00       8.93       -5.52         5,285.28       60.00       285.590       4,863.51       1,331.11       539.95       -510.73       10.00       9.03       -5.05         5,285.35       60.00       285.590       4,863.55       1,331.12       539.89       -510.67       0.00       0.00       0.00         Begin 60.00° tangent         5,300.00       60.00       285.590       4,885.00       1,341.11       504.10       -474.67       0.00       0.00       0.00         Sign 60.00°       285.590       4,885.00       1,341.11       504.10       -474.67       0.00       0.00       0.00	MNCS E									
5,190.18       51.48       290.714       4,810.00       1,306.82       614.58       -585.88       10.00       8.77       -6.30         MNCS_F       -	5 150 00	47 96	293 245	4 784 02	1 295 37	643.00	-614 54	10.00	8 64	-6 94
MNCS_F         4,816.06         1,309.52         607.34         -578.58         10.00         8.85         -5.91           5,200.00         52.35         290.133         4,816.06         1,309.52         607.34         -578.58         10.00         8.85         -5.91           5,250.00         56.82         287.372         4,845.03         1,322.59         568.76         -539.72         10.00         8.93         -5.52           5,285.28         60.00         285.590         4,863.55         1,331.11         539.95         -510.67         0.00         9.03         -5.05           5,285.35         60.00         285.590         4,863.55         1,331.12         539.89         -510.67         0.00         0.00         0.00           Begin 60.00° tangent           5,300.00         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	5 100 18	51 / 8	200.240	4,704.02	1,200.07	614 58	-585.88	10.00	8 77	-6.30
MINCS_F           5,200.00         52.35         290.133         4,816.06         1,309.52         607.34         -578.58         10.00         8.85         -5.91           5,250.00         56.82         287.372         4,845.03         1,322.59         568.76         -539.72         10.00         8.93         -5.52           5,285.28         60.00         285.590         4,863.51         1,331.11         539.95         -510.73         10.00         9.03         -5.05           5,285.35         60.00         285.590         4,863.55         1,331.12         539.89         -510.67         0.00         0.00         0.00           Begin 60.00° tangent           5,300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	0,100.10	51.40	200.114	+,010.00	1,000.02	014.00	-000.00	10.00	0.11	-0.00
5,200.00       52.35       290.133       4,816.06       1,309.52       607.34       -578.58       10.00       8.85       -5.91         5,250.00       56.82       287.372       4,845.03       1,322.59       568.76       -539.72       10.00       8.93       -5.52         5,285.28       60.00       285.590       4,863.51       1,331.11       539.95       -510.73       10.00       9.03       -5.05         5,285.35       60.00       285.590       4,863.55       1,331.12       539.89       -510.67       0.00       0.00       0.00         Begin 60.00° tangent         5,300.00       60.00       285.590       4,870.87       1,334.53       527.67       -498.38       0.00       0.00       0.00         5,328.26       60.00       285.590       4,885.00       1,341.11       504.10       -474.67       0.00       0.00       0.00	MNCS_F	50.05	000 100	4.040.00	4 000 50	007.07	<b>F7</b> 0 <b>F</b> 0	10.00	0.05	E 0.1
5,250.00         56.82         287.372         4,845.03         1,322.59         568.76         -539.72         10.00         8.93         -5.52           5,285.28         60.00         285.590         4,863.51         1,331.11         539.95         -510.73         10.00         9.03         -5.05           5,285.35         60.00         285.590         4,863.55         1,331.12         539.89         -510.67         0.00         0.00         0.00           Begin 60.00° tangent         5300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	5,200.00	52.35	290.133	4,816.06	1,309.52	607.34	-578.58	10.00	8.85	-5.91
5,285.28         60.00         285.590         4,863.51         1,331.11         539.95         -510.73         10.00         9.03         -5.05           5,285.35         60.00         285.590         4,863.55         1,331.12         539.89         -510.67         0.00         0.00         0.00           Begin 60.00° tangent         5,300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	5 250 00	56 82	287 372	4,845.03	1.322 59	568 76	-539 72	10 00	8 93	-5.52
billocitie         billocitie         ijocitie	5 285 28	60.02	285 590	4 863 51	1 331 11	539.95	-510 73	10.00	9.03	-5.05
Begin 60.00° tangent         5,300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	5 285 35	60.00	285 590	4 863 55	1 331 12	539.89	-510.67	0.00	0.00	0.00
Degin bolog tangent         5,300.00         60.00         285.590         4,870.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	D 00 000	tennent	200.000	1,000.00	1,001.12	000.00	010.01	0.00	0.00	0.00
5,300.00         60.00         265.990         4,670.87         1,334.53         527.67         -498.38         0.00         0.00         0.00           5,328.26         60.00         285.590         4,885.00         1,341.11         504.10         -474.67         0.00         0.00         0.00	Begin 60.00°	tangent	205 500	4 070 07	1 224 52	E07.07	400.00	0.00	0.00	0.00
<u></u>	5,300.00	60.00	285.590	4,8/0.8/	1,334.53	527.67	-498.38	0.00	0.00	0.00
	5,328.26	60.00	285.590	4,885.00	1,341.11	504.10	-4/4.6/	0.00	0.00	0.00

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Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured			Vertical			Vertical	Dogleg	Build	Turn	
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)	
MNCS_G										
5,345.28 5.345.35	60.00 60.00	285.590 285.590	4,893.51 4,893.55	1,345.07 1.345.09	489.90 489.84	-460.39 -460.33	0.00	0.00	0.00	
Begin 10°/10	0' build/turn	2001000	1,000100	1,010100	100101	100.00	0.00	0.00	0.00	
5 350 00	60 42	285 346	4 895 86	1 346 16	485 95	-456 42	10 16	9.08	-5.25	
5,400.00	64.92	282.878	4,918,81	1.356.97	442.88	-413.12	10.00	8.99	-4.94	
5,450.00	69.45	280.586	4,938.20	1,366.32	397.77	-367.82	10.00	9.06	-4.58	
5 470 25	71 20	270 608	4 945 00	1 360 68	378.00	-3/18 07	10.00	0 11	_/ 30	
MNCS H	11.20	210.000	4,040.00	1,000.00	010.00	-0-10.07	10.00	5.11	-4.00	
5 500 00	74 01	278 427	4 953 87	1 374 15	350.96	-320.84	10.00	9 13	-4 27	
5 550 00	78.59	276 364	4 965 71	1 380 39	302.80	-272 56	10.00	9.16	-4 13	
5.600.00	83.19	274.368	4.973.63	1.385.00	253.66	-223.33	10.00	9.19	-3.99	
5,650.00	87.79	272.409	4,977.56	1,387.95	203.92	-173.54	10.00	9.21	-3.92	
5 679 70	90.52	271 253	4 978 00	1 388 80	17/ 2/	-1/3 85	10.00	0.21	-3.80	
5.679.77	90.52	271.253	4.978.00	1.388.90	174.17	-143.77	0.00	0.00	0.00	
Begin 90.52°	lateral		,	,						
5,700.00	90.52	271.253	4,977.81	1,389.34	153.95	-123.55	0.00	0.00	0.00	
5,800.00	90.52	271.253	4,976.90	1,391.52	53.98	-23.55	0.00	0.00	0.00	
5,900.00	90.52	271.253	4,975.98	1,393.71	-46.00	76.44	0.00	0.00	0.00	
6.000.00	90.52	271.253	4.975.07	1.395.90	-145.97	176.44	0.00	0.00	0.00	
6,100.00	90.52	271.253	4,974.15	1,398.08	-245.94	276.43	0.00	0.00	0.00	
6,200.00	90.52	271.253	4,973.24	1,400.27	-345.91	376.43	0.00	0.00	0.00	
6,300.00	90.52	271.253	4,972.32	1,402.45	-445.88	476.43	0.00	0.00	0.00	
6,400.00	90.52	271.253	4,971.41	1,404.64	-545.86	576.42	0.00	0.00	0.00	
6,500.00	90.52	271.253	4,970.49	1,406.82	-645.83	676.42	0.00	0.00	0.00	
6,600.00	90.52	271.253	4,969.58	1,409.01	-745.80	776.41	0.00	0.00	0.00	
6,700.00	90.52	271.253	4,968.66	1,411.20	-845.77	876.41	0.00	0.00	0.00	
6,800.00	90.52	271.253	4,967.75	1,413.38	-945.74	976.41	0.00	0.00	0.00	
6,900.00	90.52	271.253	4,966.84	1,415.57	-1,045.72	1,076.40	0.00	0.00	0.00	
7,000.00	90.52	271.253	4,965.92	1,417.75	-1,145.69	1,176.40	0.00	0.00	0.00	
7,100.00	90.52	271.253	4,965.01	1,419.94	-1,245.66	1,276.39	0.00	0.00	0.00	
7,200.00	90.52	271.253	4,964.09	1,422.13	-1,345.63	1,376.39	0.00	0.00	0.00	
7,300.00	90.52	271.253	4,963.18	1,424.31	-1,445.60	1,476.38	0.00	0.00	0.00	
7,400.00	90.52	271.253	4,962.26	1,426.50	-1,545.58	1,576.38	0.00	0.00	0.00	
7,500.00	90.52	271.253	4,961.35	1,428.68	-1,645.55	1,676.38	0.00	0.00	0.00	
7,600.00	90.52	271.253	4,960.43	1,430.87	-1,745.52	1,776.37	0.00	0.00	0.00	
7,700.00	90.52	271.253	4,959.52	1,433.05	-1,845.49	1,876.37	0.00	0.00	0.00	
7,800.00	90.52	271.253	4,958.60	1,435.24	-1,945.46	1,976.36	0.00	0.00	0.00	
7,900.00	90.52	271.253	4,957.69	1,437.43	-2,045.44	2,076.36	0.00	0.00	0.00	
8,000.00	90.52	271.253	4,956.77	1,439.61	-2,145.41	2,176.36	0.00	0.00	0.00	
8,100.00	90.52	271.253	4,955.86	1,441.80	-2,245.38	2,276.35	0.00	0.00	0.00	
8,200.00	90.52	271.253	4,954.94	1,443.98	-2,345.35	2,376.35	0.00	0.00	0.00	
8,300.00	90.52	271.253	4,954.03	1,446.17	-2,445.32	2,476.34	0.00	0.00	0.00	
8,400.00	90.52	271.253	4,953.11	1,448.36	-2,545.29	2,576.34	0.00	0.00	0.00	
8,500.00	90.52	271.253	4,952.20	1,450.54	-2,645.27	2,676.33	0.00	0.00	0.00	
8,600.00	90.52	271.253	4,951.28	1,452.73	-2,745.24	2,776.33	0.00	0.00	0.00	
8,700.00	90.52	271.253	4,950.37	1,454.91	-2,845.21	2,876.33	0.00	0.00	0.00	
8,800.00	90.52	271.253	4,949.45	1,457.10	-2,945.18	2,976.32	0.00	0.00	0.00	
8,900.00	90.52	271.253	4,948.54	1,459.28	-3,045.15	3,076.32	0.00	0.00	0.00	
9,000.00	90.52	271.253	4,947.63	1,461.47	-3,145.13	3,176.31	0.00	0.00	0.00	
9,100.00	90.52	271.253	4,946.71	1,463.66	-3,245.10	3,276.31	0.00	0.00	0.00	
9,200.00	90.52	271.253	4,945.80	1,405.84	-3,345.07	3,3/6.30	0.00	0.00	0.00	
9,300.00	90.52	211.200	4,944.00	1,400.03	-3,443.04	3,470.30	0.00	0.00	0.00	

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Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	90.52	271.253	4,943.97	1,470.21	-3,545.01	3,576.30	0.00	0.00	0.00
9.500.00	90.52	271.253	4.943.05	1.472.40	-3.644.99	3.676.29	0.00	0.00	0.00
9.600.00	90.52	271.253	4,942,14	1,474,59	-3,744.96	3.776.29	0.00	0.00	0.00
9,700.00	90.52	271.253	4.941.22	1,476,77	-3.844.93	3.876.28	0.00	0.00	0.00
9.800.00	90.52	271.253	4.940.31	1.478.96	-3,944,90	3.976.28	0.00	0.00	0.00
9,900.00	90.52	271.253	4,939.39	1,481.14	-4,044.87	4,076.28	0.00	0.00	0.00
10,000.00	90.52	271.253	4,938.48	1,483.33	-4,144.85	4,176.27	0.00	0.00	0.00
10,100.00	90.52	271.253	4,937.56	1,485.51	-4,244.82	4,276.27	0.00	0.00	0.00
10,200.00	90.52	271.253	4,936.65	1,487.70	-4,344.79	4,376.26	0.00	0.00	0.00
10,300.00	90.52	271.253	4,935.73	1,489.89	-4,444.76	4,476.26	0.00	0.00	0.00
10,400.00	90.52	271.253	4,934.82	1,492.07	-4,544.73	4,576.25	0.00	0.00	0.00
10,500.00	90.52	271.253	4,933.90	1,494.26	-4,644.71	4,676.25	0.00	0.00	0.00
10,600.00	90.52	271.253	4,932.99	1,496.44	-4,744.68	4,776.25	0.00	0.00	0.00
10,700.00	90.52	271.253	4,932.07	1,498.63	-4,844.65	4,876.24	0.00	0.00	0.00
10,800.00	90.52	271.253	4,931.16	1,500.82	-4,944.62	4,976.24	0.00	0.00	0.00
10,900.00	90.52	271.253	4,930.24	1,503.00	-5,044.59	5,076.23	0.00	0.00	0.00
11,000.00	90.52	271.253	4,929.33	1,505.19	-5,144.56	5,176.23	0.00	0.00	0.00
11,100.00	90.52	271.253	4,928.42	1,507.37	-5,244.54	5,276.23	0.00	0.00	0.00
11,200.00	90.52	271.253	4,927.50	1,509.56	-5,344.51	5,376.22	0.00	0.00	0.00
11,300.00	90.52	271.253	4,926.59	1,511.74	-5,444.48	5,476.22	0.00	0.00	0.00
11,400.00	90.52	271.253	4,925.67	1,513.93	-5,544.45	5,576.21	0.00	0.00	0.00
11,500.00	90.52	271.253	4,924.76	1,516.12	-5,644.42	5,676.21	0.00	0.00	0.00
11,600.00	90.52	271.253	4,923.84	1,518.30	-5,744.40	5,776.20	0.00	0.00	0.00
11,700.00	90.52	271.253	4,922.93	1,520.49	-5,844.37	5,876.20	0.00	0.00	0.00
11,800.00	90.52	271.253	4,922.01	1,522.67	-5,944.34	5,976.20	0.00	0.00	0.00
11,900.00	90.52	271.253	4,921.10	1,524.86	-6,044.31	6,076.19	0.00	0.00	0.00
12,000.00	90.52	271.253	4,920.18	1,527.05	-6,144.28	6,176.19	0.00	0.00	0.00
12,100.00	90.52	271.253	4,919.27	1,529.23	-6,244.26	6,276.18	0.00	0.00	0.00
12,200.00	90.52	271.253	4,918.35	1,531.42	-6,344.23	6,376.18	0.00	0.00	0.00
12,300.00	90.52	271.253	4,917.44	1,533.60	-6,444.20	6,476.18	0.00	0.00	0.00
12,400.00	90.52	271.253	4,916.52	1,535.79	-6,544.17	6,576.17	0.00	0.00	0.00
12,500.00	90.52	271.253	4,915.61	1,537.97	-6,644.14	6,676.17	0.00	0.00	0.00
12,600.00	90.52	271.253	4,914.69	1,540.16	-6,744.12	6,776.16	0.00	0.00	0.00
12,700.00	90.52	271.253	4,913.78	1,542.35	-6,844.09	6,876.16	0.00	0.00	0.00
12,800.00	90.52	271.253	4,912.86	1,544.53	-6,944.06	6,976.15	0.00	0.00	0.00
12,900.00	90.52	271.253	4,911.95	1,546.72	-7,044.03	7,076.15	0.00	0.00	0.00
13,000.00	90.52	271.253	4,911.03	1,548.90	-7,144.00	7,176.15	0.00	0.00	0.00
13,100.00	90.52	271.253	4,910.12	1,551.09	-7,243.98	7,276.14	0.00	0.00	0.00
13,200.00	90.52	271.253	4,909.21	1,553.28	-7,343.95	7,376.14	0.00	0.00	0.00
13,300.00	90.52	271.253	4,908.29	1,555.46	-7,443.92	7,476.13	0.00	0.00	0.00
13,331.74	90.52	271.253	4,908.00	1,556.16	-7,475.65	7,507.87	0.00	0.00	0.00





Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Design	Targets
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Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
S Escavada 343 LTP 20 <sup>,</sup> - plan hits target cen - Point	0.00 ter	2.156	4,908.00	1,556.16	-7,475.65	1,869,667.744	2,800,510.089	36.138096000	-107.571139000
S Escavada 343 FTP 20 - plan hits target cen - Point	0.00 ter	2.156	4,978.00	1,388.89	174.24	1,869,500.482	2,808,159.962	36.137577000	-107.545233000

## Casing Points

Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter ('')	
350.00	350.00	13 3/8" Casing		13-5/8	17-1/2	
3,176.40	3,023.00	9 5/8" Casing		9-5/8	12-1/4	

#### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
830.00	830.00	Ojo Alamo			
915.00	915.00	Kirtland			
1,060.01	1,060.00	Fruitland			
1,357.08	1,355.00	Pictured Cliffs			
1,505.90	1,500.00	Lewis			
1,765.32	1,745.00	Chacra_A			
2,963.20	2,830.00	Cliff House_Basal			
3,010.70	2,873.00	Menefee			
3,996.03	3,765.00	Point Lookout			
4,150.68	3,905.00	Mancos			
4,515.20	4,235.00	MNCS_A			
4,652.31	4,360.00	MNCS_B			
4,749.16	4,450.00	MNCS_C			
4,786.97	4,485.00	MNCS_Cms			
4,937.75	4,620.00	MNCS_D			
5,119.38	4,763.00	MNCS_E			
5,190.18	4,810.00	MNCS_F			
5,328.26	4,885.00	MNCS_G			
5,470.25	4,945.00	MNCS_H			





Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations	
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Measured	Vertical	Local Coordinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,838.04	1,811.40	147.40	104.93	Begin 25.14° tangent
4,576.63	4,290.61	1,095.14	779.63	Begin 10°/100' build/turn
5,285.35	4,863.55	1,331.12	539.89	Begin 60.00° tangent
5,345.35	4,893.55	1,345.09	489.84	Begin 10°/100' build/turn
5,679.77	4,978.00	1,388.90	174.17	Begin 90.52° lateral
13,332.93				PBHL/TD 13332.93 MD 4908.00 TVD



## Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:	DB_Fel Endurin Sandov S Esca S Esca Original rev0	o2822 ng Resources ral County, Ne vada Unit 343 vada Unit 343 I Hole	LLC ew Mexico NAD H pd (343 & 34 H	83 NM W 14)	Local Co- TVD Refer MD Refere North Refe Survey Ca	ordinate Refer rence: ence: erence: ilculation Meth	ence: 10d:	Well S Escavada Unit 343H RKB=6917+28 @ 6945.00ft (Ensign 773) RKB=6917+28 @ 6945.00ft (Ensign 773) Grid Minimum Curvature			
Project	Sandova	al County, Nev	w Mexico NAD8	3 NM W							
Map System: Geo Datum: Map Zone:	US State North Ame New Mexi	S State Plane 1983 System Datum: Mean Sea Level orth American Datum 1983 ew Mexico Western Zone									
Site	S Escav	ada Unit 343	H pd (343 & 34	4)							
Site Position: From: Position Uncertainty	Lat/L	Northing:         1,868,111.592 usft         Latitude:         36.133763000           Lat/Long         Easting:         2,807,985.724 usft         Longitude:         -107.545837000           0.00 ft         Slot Radius:         13-3/16 "         -107.545837000									
Well	S Escava	ada Unit 343H	l, Surf loc: 688	FSL 2359 FW	L Section 14-T2	22N-R07W					
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.0 0.0 0.0	00 ft No 00 ft Ea: 00 ft We	rthing: sting: Ilhead Elevat	ion:	1,868,111.592 2,807,985.724	usft La usft Lo ft Gr	titude: ngitude: ound Level:		36.133763000 -107.545837000 6,917.00 ft	
	Oniginal	Liele									
weildore	Original	Hole									
Magnetics	Mod	lel Name	Sample	Date	Declina (°)	tion	Dip	Angle (°)	Field S	Strength nT)	
	IGRF2020 3/29/2022			3/29/2022		8.62		62.69	49,1	98.78550481	
Design	rev0										
Audit Notes:											
Version:			Phase	e: F	PLAN	Tie	On Depth:		0.00		
Vertical Section:		D	Depth From (TV (ft)	D)	+N/-S (ft)	+E/ (f	/-W ft)	Di	rection (°)		
			0.00		0.00	0.0	00	27	1.252		
Plan Survey Tool Pro Depth From	ogram Depth	Date To	3/29/2022								
(ft)	(ft)	Survey	(Wellbore)		Tool Name		Remarks				
1 0.00	13,33	31.74 rev0 (O	riginal Hole)		MWD OWSG MWD	- Standard					
Plan Sections											
Measured Depth Incli (ft)	nation (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00		
1,837.94	25.14 25.14	35.447 35.447	1,811.32 4,290.55	147.36 1.095.11	104.91 779.61	3.00 0.00	3.00	0.00	35.45		
5,285.28	60.00	285.590	4,863.51	1,331.11	539.95	10.00	4.92	-15.50	-120.44		
5,345.28	60.00	285.590	4,893.51	1,345.07	489.90	0.00	0.00	0.00	0.00		
5,679.70 13,331.74	90.52 90.52	271.253 271.253	4,978.00 4,908.00	1,388.89 1,556.16	174.24 -7,475.65	10.00 0.00	9.13 0.00	-4.29 0.00	-26.70 0.00	S Escavada 343 LTP	

3/29/2022 1:02:53PM

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#### Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measu Deptl	red h	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)	l stitude	Lensitude
(11)		()	()	(11)	(11)	(11)	(usit)	(usit)	Latitude	Longitude
10	0.00	0.00	0.000	0.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
10	00.00	0.00	0.000	100.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
20	00.00	0.00	0.000	200.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
30	00.00	0.00	0.000	300.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
40	0.00	0.00	0.000	400.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
50	0.00	0.00	0.000	500.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
60	0.00	0.00	0.000	600.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
70	0.00	0.00	0.000	700.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
80	0.00	0.00	0.000	800.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
83	0.00	0.00	0.000	830.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
Ojo	Alam	0								
90	0.00	0.00	0.000	900.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
91	5.00	0.00	0.000	915.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
Kirt	land									
1,00	0.00	0.00	0.000	1,000.00	0.00	0.00	1,868,111.592	2,807,985.724	36.133763000	-107.545837000
KO	P Begi	in 3°/100' buil	d	4 000 00	0.77	0.55	4 000 440 000	0.007.000.074	00 100705105	107 5 15005 1 10
1,06	0.01	1.80	35.447	1,060.00	0.77	0.55	1,868,112.360	2,807,986.271	36.133765105	-107.545835140
Fru	itland		05.447	4 000 05	0.40	4.50	4 000 440 704	0 007 007 040	00.100700015	107 5 1500 1000
1,10	0.00	3.00	35.447	1,099.95	2.13	1.52	1,868,113.724	2,807,987.242	36.133768845	-107.545831838
1,20	0.00	6.00	35.447	1,199.63	8.52	6.07	1,868,120.115	2,807,991.792	36.133786365	-107.545816366
1,30	0.00	9.00	35.447	1,298.77	19.16	13.64	1,868,130.747	2,807,999.361	36.133815511	-107.545790627
1,35	80.10	10.71	35.447	1,355.00	27.11	19.30	1,868,138.706	2,808,005.027	36.133837329	-107.545771360
Pict	tured	Cliffs	05 447	1 007 00	04.00	04.00	4 000 445 504	0.000.000.000	00 400050000	407 545754000
1,40	0.00	12.00	35.447	1,397.08	34.00	24.20	1,868,145.591	2,808,009.929	36.133856203	-107.545754692
1,50	0.00	15.00	35.447	1,494.31	53.0Z	37.74	1,808,104.007	2,808,023.466	30.133908330	-107.545708658
1,50	5.90	15.18	35.447	1,500.00	54.27	38.63	1,868,165.857	2,808,024.356	36.133911757	-107.545705631
Lew	vis	40.00	05 447	4 500 40	70.45	54.04	1 000 107 740	0.000.000.005	00 400074750	107 515050050
1,60	0.00	18.00	35.447	1,590.18	76.15	54.21	1,868,187.742	2,808,039.935	36.133971750	-107.545652652
1,70	0.00	21.00	35.447	1,684.43	103.34	/3.5/	1,868,214.932	2,808,059.292	36.134046287	-107.545586827
1,76	5.32	22.96	35.447	1,745.00	123.26	87.75	1,868,234.847	2,808,073.470	36.134100880	-107.545538615
Cha	acra_A	1								
1,80	0.00	24.00	35.447	1,776.81	134.51	95.76	1,868,246.104	2,808,081.483	36.134131738	-107.545511364
1,83	7.94	25.14	35.447	1,811.32	147.36	104.91	1,868,258.955	2,808,090.632	36.134166968	-107.545480251
1,83	8.04	25.14	35.447	1,811.40	147.40	104.93	1,868,258.989	2,808,090.656	36.134167061	-107.545480169
Beg	gin 25.	14° tangent								
1,90	0.00	25.14	35.447	1,867.50	168.84	120.20	1,868,280.432	2,808,105.921	36.134225842	-107.545428260
2,00	0.00	25.14	35.447	1,958.02	203.45	144.83	1,868,315.038	2,808,130.558	36.134320709	-107.545344481
2,10	0.00	25.14	35.447	2,048.55	238.05	169.47	1,868,349.645	2,808,155.194	36.134415576	-107.545260701
2,20	0.00	25.14	35.447	2,139.08	272.66	194.11	1,868,384.252	2,808,179.831	36.134510443	-107.545176922
2,30	0.00	25.14	35.447	2,229.61	307.27	218.74	1,868,418.858	2,808,204.467	36.134605311	-107.545093142
2,40	0.00	25.14	35.447	2,320.14	341.87	243.38	1,868,453.465	2,808,229.104	36.134700178	-107.545009362
2,50	0.00	25.14	35.447	2,410.67	376.48	268.02	1,868,488.072	2,808,253.740	36.134795045	-107.544925582
2,60	0.00	25.14	35.447	2,501.20	411.09	292.65	1,868,522.678	2,808,278.377	36.134889912	-107.544841802
2,70	0.00	25.14	35.447	2,591.72	445.69	317.29	1,868,557.285	2,808,303.013	36.134984779	-107.544758022
2,80	0.00	25.14	35.447	2,682.25	480.30	341.93	1,868,591.892	2,808,327.649	36.135079646	-107.544674241
2,90	0.00	25.14	35.447	2,772.78	514.91	366.56	1,868,626.498	2,808,352.286	36.135174512	-107.544590460
2,96	3.20	25.14	35.447	2,830.00	536.78	382.13	1,868,648.371	2,808,367.857	36.135234473	-107.544537506
Clif	t Hous	se_Basal	25 447	0.060.04	E40 E1	201.20	1 969 661 105	2 808 276 022	26 125260270	107 544506670
3,00	0.00	25.14	35.447	2,003.31	549.51	391.20	1,000,001.105	2,000,3/0.922	30.133209379	-107.0440000/9
3,01	0.70	25.14	35.447	2,073.00	003.ZZ	JYJ.04	1,000,004.809	2,000,379.559	30.1332/9533	-107.544497711
Mer	netee		25 447	2.052.04	E04.40	445.04	1 969 605 740	2 202 404 550	26 125204040	107 544400000
3,10	0.00	25.14	35.447	2,953.84	564.12	415.84	1,000,095./12	2,808,401.559	30.135364246	-107.544422898
3,20	00.00	25.14	35.447	3,044.37	618.73	440.47	1,868,730.318	2,808,426.195	36.135459112	-107.544339116

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#### Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(π)	(ft)	(ft)	(usπ)	(usit)	Latitude	Longitude
3,300.00 3,400.00 3,500.00 3,600.00 3,700.00	25.14 25.14 25.14 25.14 25.14	35.447 35.447 35.447 35.447 35.447	3,134.90 3,225.42 3,315.95 3,406.48 3,497.01	653.33 687.94 722.55 757.15 791.76	465.11 489.74 514.38 539.02 563.65	1,868,764.925 1,868,799.532 1,868,834.138 1,868,868.745 1,868,903.352	2,808,450.832 2,808,475.468 2,808,500.105 2,808,524.741 2,808,549.378	36.135553979 36.135648845 36.135743712 36.135838578 36.135933445	-107.544255335 -107.544171553 -107.544087771 -107.54408788 -107.543920206
3,900.00 3,996.03 Point Lo	25.14 25.14 25.14 okout	35.447 35.447 35.447	3,678.07 3,765.00	820.37 860.97 894.21	612.93 636.59	1,868,972.565 1,869,005.797	2,808,598.651 2,808,622.309	36.136028311 36.136123177 36.136214275	-107.543636423 -107.543752640 -107.543672185
4,000.00 4,100.00 4,150.68 Mancos	25.14 25.14 25.14	35.447 35.447 35.447	3,768.60 3,859.12 3,905.00	930.19 947.73	662.20 674.69	1,869,007.172 1,869,041.778 1,869,059.315	2,808,623.287 2,808,647.923 2,808,660.408	36.136218043 36.136312909 36.136360983	-107.543668857 -107.543585074 -107.543542616
4,200.00 4,300.00 4,400.00 4,500.00 4,515.20	25.14 25.14 25.14 25.14 25.14	35.447 35.447 35.447 35.447 35.447	3,949.65 4,040.18 4,130.71 4,221.24 4,235.00	964.79 999.40 1,034.01 1,068.62 1,073.88	686.84 711.47 736.11 760.75 764.49	1,869,076.385 1,869,110.992 1,869,145.598 1,869,180.205 1,869,185.466	2,808,672.560 2,808,697.196 2,808,721.833 2,808,746.469 2,808,750.214	36.136407775 36.136502641 36.136597507 36.136692373 36.136706794	-107.543501291 -107.543417507 -107.543333723 -107.543249939 -107.543237202
MNCS_A 4,576.56 4,576.63	25.14 25.14	35.447 35.447	4,290.55 4,290.61	1,095.11 1,095.14	779.61 779.63	1,869,206.699 1,869,206.725	2,808,765.330 2,808,765.349	36.136765000 36.136765071	-107.543185795 -107.543185733
4,600.00 4,650.00 4,652.31	24.03 22.28 22.22	30.479 18.545 17.954	4,311.86 4,357.86 4,360.00	1,103.28 1,121.05 1,121.88	784.92 793.10 793.37	1,869,214.870 1,869,232.639 1,869,233.470	2,808,770.640 2,808,778.823 2,808,779.097	36.136787403 36.136836149 36.136838430	-107.543167732 -107.543139840 -107.543138903
MNCS_B 4,700.00 4,749.16 MNCS C	21.51 21.82	5.266 351.948	4,404.28 4,450.00	1,139.17 1,157.20	796.96 796.51	1,869,250.762 1,869,268.791	2,808,782.680 2,808,782.228	36.136885902 36.136935434	-107.543126592 -107.543127942
4,750.00 4,786.97 MNCS_C	21.83 22.75 ms	351.726 342.273	4,450.78 4,485.00	1,157.51 1,171.13	796.46 793.29	1,869,269.100 1,869,282.717	2,808,782.184 2,808,779.017	36.136936283 36.136973716	-107.543128089 -107.543138677
4,800.00 4,850.00 4,900.00 4,937.75	23.20 25.44 28.36 30.89	339.140 328.269 319.271 313.596	4,496.99 4,542.58 4,587.18 4,620.00	1,175.92 1,194.27 1,212.42 1,225.90	791.61 782.45 769.05 756.17	1,869,287.514 1,869,305.864 1,869,324.010 1,869,337.491	2,808,777.336 2,808,768.174 2,808,754.768 2,808,741.896	36.136986908 36.137037393 36.137087351 36.137124492	-107.543144321 -107.543175162 -107.543220379 -107.543263838
4,950.00 5,000.00 5,050.00 5,100.00 5,119.38	31.76 35.50 39.49 43.66 45.31	311.936 305.942 300.984 296.815 295.368	4,630.46 4,672.10 4,711.77 4,749.17 4,763.00	1,230.22 1,247.55 1,264.27 1,280.25 1,286.22	751.50 729.94 704.54 675.49 663.29	1,869,341.814 1,869,359.141 1,869,375.858 1,869,391.839 1,869,397.809	2,808,737.220 2,808,715.663 2,808,690.262 2,808,661.210 2,808,649.012	36.137136405 36.137184179 36.137230312 36.137274450 36.137290952	-107.543279628 -107.543352458 -107.543438314 -107.543536543 -107.543577791
MNCS_E 5,150.00 5,190.18 MNCS_F 5,200.00	47.96 51.48 52.35	293.245 290.714 290.133	4,784.02 4,810.00	1,295.37 1,306.82	643.00 614.58	1,869,406.961 1,869,418.414	2,808,628.727 2,808,600.305	36.137316259 36.137347953 36.137355421	-107.543646397 -107.543742537 -107.543767041
5,250.00 5,285.28 5,285.35 Begin 60	56.82 60.00 60.00	285.590 285.590 285.590	4,845.03 4,863.51 4,863.55	1,322.59 1,331.11 1,331.12	568.76 539.95 539.89	1,869,434.179 1,869,442.694 1,869,442.712	2,808,554.484 2,808,525.673 2,808,525.610	36.137391637 36.137415265 36.137415314	-107.543897556 -107.543995044 -107.543995257
5,300.00	60.00	285.590	4,870.87	1,334.53	527.67	1,869,446.121	2,808,513.392	36.137424779	-107.544036601



#### Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,328.26	60.00	285.590	4,885.00	1,341.11	504.10	1,869,452.698	2,808,489.821	36.137443039	-107.544116362
MNCS_	G	005 500	4 000 54	4.045.07	400.00	4 000 450 050	0 000 175 000	00 407454000	107 511101101
5,345.28	60.00	285.590	4,893.51	1,345.07	489.90	1,869,456.659	2,808,475.623	36.137454038	-107.544164404
5,345.35	00.00	205.590	4,093.55	1,345.09	409.04	1,009,400.077	2,000,475.501	30.137434000	-107.544104017
5 350 00	60.42	285 346	4 805 86	1 3/6 16	485.05	1 860 457 752	2 808 471 673	36 137457073	107 544177770
5 400 00	64 92	282 878	4 918 81	1,356.97	442.88	1 869 468 560	2,808,428,607	36 137487114	-107 544323514
5 450 00	69.45	280 586	4 938 20	1,366,32	397 77	1 869 477 913	2 808 383 495	36 137513177	-107 544476197
5.470.25	71.29	279.698	4.945.00	1.369.68	378.99	1.869.481.271	2,808,364,718	36.137522555	-107.544539755
MNCS	H		.,	.,		.,	_,,		
5,500.00	74.01	278.427	4,953.87	1,374.15	350.96	1,869,485.741	2,808,336.682	36.137535062	-107.544634659
5,550.00	78.59	276.364	4,965.71	1,380.39	302.80	1,869,491.983	2,808,288.523	36.137552604	-107.544797692
5,600.00	83.19	274.368	4,973.63	1,385.00	253.66	1,869,496.593	2,808,239.386	36.137565668	-107.544964057
5,650.00	87.79	272.409	4,977.56	1,387.95	203.92	1,869,499.535	2,808,189.644	36.137574156	-107.545132487
5,679.70	90.52	271.253	4,978.00	1,388.89	174.24	1,869,500.484	2,808,159.966	36.137577003	-107.545232984
5,679.77	90.52	271.253	4,978.00	1,388.90	174.17	1,869,500.485	2,808,159.892	36.137577008	-107.545233237
Begin 9	0.52° lateral								
5,700.00	90.52	271.253	4,977.81	1,389.34	153.95	1,869,500.927	2,808,139.671	36.137578388	-107.545301712
5,800.00	90.52	271.253	4,976.90	1,391.52	53.98	1,869,503.113	2,808,039.699	36.137585206	-107.545640260
5,900.00	90.52	271.253	4,975.98	1,393.71	-46.00	1,869,505.299	2,807,939.728	36.137592023	-107.545978808
6,000.00	90.52	271.253	4,975.07	1,395.90	-145.97	1,869,507.485	2,807,839.756	36.137598840	-107.546317356
6,100.00	90.52	271.253	4,974.15	1,398.08	-245.94	1,869,509.671	2,807,739.784	36.137605655	-107.546655904
6,200.00	90.52	271.253	4,973.24	1,400.27	-345.91	1,869,511.856	2,807,639.813	36.137612470	-107.546994453
6,300.00	90.52	271.253	4,972.32	1,402.45	-445.88	1,869,514.042	2,807,539.841	36.137619284	-107.547333001
6,400.00	90.52	271.253	4,971.41	1,404.64	-545.80	1,809,510.228	2,807,439.869	30.137626096	-107.547671549
6,500.00	90.52	271.200	4,970.49	1,400.02	-045.03	1,009,010.414	2,007,339.097	36 137630710	-107.546010096
6 700 00	90.52	271.253	4,909.30	1,409.01	-845.77	1,869,520,000	2,007,239.920	36 1376/6529	-107.548687195
6 800 00	90.52	271.253	4 967 75	1 413 38	-945 74	1 869 524 971	2,807,139.994	36 137653337	-107 549025743
6 900 00	90.52	271.200	4 966 84	1 415 57	-1 045 72	1 869 527 157	2 806 940 011	36 137660145	-107 549364292
7.000.00	90.52	271.253	4,965,92	1.417.75	-1.145.69	1.869.529.343	2,806,840,039	36.137666952	-107.549702841
7,100.00	90.52	271.253	4,965.01	1,419.94	-1,245.66	1,869,531.529	2,806,740.067	36.137673758	-107.550041389
7,200.00	90.52	271.253	4,964.09	1,422.13	-1,345.63	1,869,533.715	2,806,640.095	36.137680563	-107.550379938
7,300.00	90.52	271.253	4,963.18	1,424.31	-1,445.60	1,869,535.901	2,806,540.124	36.137687367	-107.550718487
7,400.00	90.52	271.253	4,962.26	1,426.50	-1,545.58	1,869,538.086	2,806,440.152	36.137694170	-107.551057036
7,500.00	90.52	271.253	4,961.35	1,428.68	-1,645.55	1,869,540.272	2,806,340.180	36.137700972	-107.551395585
7,600.00	90.52	271.253	4,960.43	1,430.87	-1,745.52	1,869,542.458	2,806,240.209	36.137707773	-107.551734134
7,700.00	90.52	271.253	4,959.52	1,433.05	-1,845.49	1,869,544.644	2,806,140.237	36.137714574	-107.552072683
7,800.00	90.52	271.253	4,958.60	1,435.24	-1,945.46	1,869,546.830	2,806,040.265	36.137721373	-107.552411233
7,900.00	90.52	271.253	4,957.69	1,437.43	-2,045.44	1,869,549.015	2,805,940.293	36.137728171	-107.552749782
8,000.00	90.52	271.253	4,956.77	1,439.61	-2,145.41	1,869,551.201	2,805,840.322	36.137734969	-107.553088331
8,100.00	90.52	271.253	4,955.86	1,441.80	-2,245.38	1,869,553.387	2,805,740.350	36.137741765	-107.553426881
8,200.00	90.52	271.253	4,954.94	1,443.98	-2,345.35	1,869,555.573	2,805,640.378	36.137748560	-107.553765430
8,300.00	90.52	271.253	4,954.03	1,446.17	-2,445.32	1,869,557.759	2,805,540.407	30.137755355	-107.554103980
8,400.00	90.52	271.253	4,953.11	1,448.30	-2,545.29	1,809,559.945	2,805,440.435	30.137762148	-107.554442529
8,500.00	90.52	271.200	4,952.20	1,450.54	-2,045.27	1,009,002.130	2,005,340.403	36 137775733	-107.554761079
8,000.00	90.52	271.200	4,951.20	1,452.75	-2,745.24	1,809,504.510	2,005,240.491	36 137782523	-107.555158179
8 800 00	Q0.52	271.200	4 949 45	1 457 10	-2,040.21	1 869 568 688	2,000, 140.020	36 137780313	-107 555706720
8 900 00	90.52	271 253	4,948 54	1,459.28	-3.045 15	1.869.570 874	2,804,940,576	36,137796102	-107.556135279
9.000.00	90.52	271.253	4,947.63	1,461.47	-3,145.13	1.869.573.060	2.804.840.604	36,137802889	-107,556473829
9,100.00	90.52	271.253	4,946.71	1,463.66	-3,245.10	1,869,575.245	2,804,740.633	36.137809676	-107.556812379
9,200.00	90.52	271.253	4,945.80	1,465.84	-3,345.07	1,869,577.431	2,804,640.661	36.137816462	-107.557150929
9,300.00	90.52	271.253	4,944.88	1,468.03	-3,445.04	1,869,579.617	2,804,540.689	36.137823247	-107.557489479



#### Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Project:	Sandoval County, New Mexico NAD83 NM W	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site:	S Escavada Unit 343 H pd (343 & 344)	North Reference:	Grid
Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ustt)	(usft)	Latitude	Longitude
9,400.00	90.52	271.253	4,943.97	1,470.21	-3,545.01	1,869,581.803	2,804,440.718	36.137830031	-107.557828029
9,500.00	90.52	271.253	4,943.05	1,472.40	-3,644.99	1,869,583.989	2,804,340.746	36.137836814	-107.558166580
9,600.00	90.52	271.253	4,942.14	1,474.59	-3,744.96	1,869,586.175	2,804,240.774	36.137843596	-107.558505130
9,700.00	90.52	271.253	4,941.22	1,476.77	-3,844.93	1,869,588.360	2,804,140.802	36.137850377	-107.558843681
9,800.00	90.52	271.253	4,940.31	1,478.96	-3,944.90	1,869,590.546	2,804,040.831	36.137857157	-107.559182231
9,900.00	90.52	271.253	4,939.39	1,481.14	-4,044.87	1,869,592.732	2,803,940.859	36.137863936	-107.559520782
10,000.00	90.52	271.253	4,938.48	1,483.33	-4,144.85	1,869,594.918	2,803,840.887	36.137870715	-107.559859332
10,100.00	90.52	271.253	4,937.56	1,485.51	-4,244.82	1,869,597.104	2,803,740.916	36.137877492	-107.560197883
10,200.00	90.52	271.253	4,936.65	1,487.70	-4,344.79	1,869,599.290	2,803,640.944	36.137884268	-107.560536434
10,300.00	90.52	271.253	4,935.73	1,489.89	-4,444.76	1,869,601.475	2,803,540.972	36.137891043	-107.560874985
10,400.00	90.52	271.253	4,934.82	1,492.07	-4,544.73	1,869,603.661	2,803,441.000	36.137897818	-107.561213536
10,500.00	90.52	271.253	4,933.90	1,494.26	-4,644.71	1,869,605.847	2,803,341.029	36.137904591	-107.561552087
10,600.00	90.52	271.253	4,932.99	1,496.44	-4,744.68	1,869,608.033	2,803,241.057	36.137911364	-107.561890638
10,700.00	90.52	271.253	4,932.07	1,498.63	-4,844.65	1,869,610.219	2,803,141.085	36.137918135	-107.562229189
10,800.00	90.52	271.253	4,931.16	1,500.82	-4,944.62	1,869,612.405	2,803,041.114	36.137924906	-107.562567740
10,900.00	90.52	271.253	4,930.24	1,503.00	-5,044.59	1,869,614.590	2,802,941.142	36.137931675	-107.562906291
11,000.00	90.52	271.253	4,929.33	1,505.19	-5,144.56	1,869,616.776	2,802,841.170	36.137938444	-107.563244842
11,100.00	90.52	271.253	4,928.42	1,507.37	-5,244.54	1,869,618.962	2,802,741.198	36.137945212	-107.563583394
11,200.00	90.52	271.253	4,927.50	1,509.56	-5,344.51	1,869,621.148	2,802,641.227	36.137951978	-107.563921945
11,300.00	90.52	271.253	4,926.59	1,511.74	-5,444.48	1,869,623.334	2,802,541.255	36.137958744	-107.564260497
11,400.00	90.52	271.253	4,925.67	1,513.93	-5,544.45	1,869,625.519	2,802,441.283	36.137965509	-107.564599048
11,500.00	90.52	271.253	4,924.76	1,516.12	-5,644.42	1,869,627.705	2,802,341.312	36.137972273	-107.564937600
11,600.00	90.52	271.253	4,923.84	1,518.30	-5,744.40	1,869,629.891	2,802,241.340	36.137979036	-107.565276152
11,700.00	90.52	271.253	4,922.93	1,520.49	-5,844.37	1,869,632.077	2,802,141.368	36.137985798	-107.565614703
11,800.00	90.52	271.253	4,922.01	1,522.67	-5,944.34	1,869,634.263	2,802,041.396	36.137992559	-107.565953255
11,900.00	90.52	271.253	4,921.10	1,524.86	-6,044.31	1,869,636.449	2,801,941.425	36.137999319	-107.566291807
12,000.00	90.52	271.253	4,920.18	1,527.05	-6,144.28	1,869,638.634	2,801,841.453	36.138006078	-107.566630359
12,100.00	90.52	271.253	4,919.27	1,529.23	-6,244.26	1,869,640.820	2,801,741.481	36.138012836	-107.566968911
12,200.00	90.52	271.253	4,918.35	1,531.42	-6,344.23	1,869,643.006	2,801,641.510	36.138019593	-107.567307463
12,300.00	90.52	271.253	4,917.44	1,533.60	-6,444.20	1,869,645.192	2,801,541.538	36.138026349	-107.567646015
12,400.00	90.52	271.253	4,916.52	1,535.79	-6,544.17	1,869,647.378	2,801,441.566	36.138033105	-107.567984568
12,500.00	90.52	271.253	4,915.61	1,537.97	-6,644.14	1,869,649.564	2,801,341.594	36.138039859	-107.568323120
12,600.00	90.52	271.253	4,914.69	1,540.16	-6,744.12	1,869,651.749	2,801,241.623	36.138046612	-107.568661672
12,700.00	90.52	271.253	4,913.78	1,542.35	-6,844.09	1,869,653.935	2,801,141.651	36.138053365	-107.569000225
12,800.00	90.52	271.253	4,912.86	1,544.53	-6,944.06	1,869,656.121	2,801,041.679	36.138060116	-107.569338777
12,900.00	90.52	271.253	4,911.95	1,546.72	-7,044.03	1,869,658.307	2,800,941.707	36.138066867	-107.569677330
13,000.00	90.52	271.253	4,911.03	1,548.90	-7,144.00	1,869,660.493	2,800,841.736	36.138073616	-107.570015882
13,100.00	90.52	271.253	4,910.12	1,551.09	-7,243.98	1,869,662.679	2,800,741.764	36.138080365	-107.570354435
13,200.00	90.52	271.253	4,909.21	1,553.28	-7,343.95	1,869,664.864	2,800,641.792	36.138087112	-107.570692987
13,300.00	90.52	271.253	4,908.29	1,555.46	-7,443.92	1,869,667.050	2,800,541.821	36.138093859	-107.571031540
13,331.74	90.52	271.253	4,908.00	1,556.16	-7,475.65	1,869,667.744	2,800,510.089	36.138096000	-107.571139000

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
S Escavada 343 LTP 20 - plan hits target cent - Point	0.00 ter	2.156	4,908.00	1,556.16	-7,475.65	1,869,667.744	2,800,510.089	36.138096000	-107.571139000
S Escavada 343 FTP 20 - plan hits target cent - Point	0.00 ter	2.156	4,978.00	1,388.89	174.24	1,869,500.482	2,808,159.962	36.137577000	-107.545233000



## Planning Report - Geographic



Ensign 773)
Ensign 773)
((

Casing Points

Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	13 3/8" Casing		13-5/8	17-1/2	
3,176.40	3,023.00	9 5/8" Casing		9-5/8	12-1/4	

Formations

	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	830.00	830.00	Ojo Alamo			
	915.00	915.00	Kirtland			
	1,060.01	1,060.00	Fruitland			
	1,357.08	1,355.00	Pictured Cliffs			
	1,505.90	1,500.00	Lewis			
	1,765.32	1,745.00	Chacra_A			
	2,963.20	2,830.00	Cliff House_Basal			
	3,010.70	2,873.00	Menefee			
	3,996.03	3,765.00	Point Lookout			
	4,150.68	3,905.00	Mancos			
	4,515.20	4,235.00	MNCS_A			
	4,652.31	4,360.00	MNCS_B			
	4,749.16	4,450.00	MNCS_C			
	4,786.97	4,485.00	MNCS_Cms			
	4,937.75	4,620.00	MNCS_D			
	5,119.38	4,763.00	MNCS_E			
	5,190.18	4,810.00	MNCS_F			
	5,328.26	4,885.00	MNCS_G			
	5,470.25	4,945.00	MNCS_H			
1						

Plan Annotatio	ns					
	Measured Vertical Depth Depth		Local Coor	dinates		
	(ft)	(ft)	(ft)	(ft)	Comment	
	1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
	1,838.04	1,811.40	147.40	104.93	Begin 25.14° tangent	
	4,576.63	4,290.61	1,095.14	779.63	Begin 10°/100' build/turn	
	5,285.35	4,863.55	1,331.12	539.89	Begin 60.00° tangent	
	5,345.35	4,893.55	1,345.09	489.84	Begin 10°/100' build/turn	
	5,679.77	4,978.00	1,388.90	174.17	Begin 90.52° lateral	
	13,332.93				PBHL/TD 13332.93 MD 4908.00 TVD	





Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Reference Site:	S Escavada Unit 343 H pd (343 & 344)	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Feb2822
Reference Design:	rev0	Offset TVD Reference:	Offset Datum
Reference	rev0		

Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,533.17ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluate	ed at: 2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date 3/29/2022		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,331.74	rev0 (Original Hole)	MWD	OWSG MWD - Standard

Summary							
Site Name Offset Well - We	ellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Factor	Warning
S Escavada Unit 34	I3 H pd (343 & 344)						
S Escavada Unit	t 344H - Original Hole - rev0	1,000.00	1,000.00	20.02	13.31	2.984 CC, ES	, SF

Offset Des	sign: <sup>SE</sup>	Escavada l	Jnit 343 H	pd (343 & 3	844) - SE	scavada U	nit 344H - Origir	nal Hole - re	ev0				Offset Site Error	0 00 ft
0										Dula Anal				0.00 #
Survey Progr Refe	ram: 0-1 rence	Off	set	Semi M	lajor Axis		Offset Wellbo	ore Centre	Dist	Rule Assi tance	gned:		Offset Well Error:	0.00 π
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-179.32	-20.02	-0.24	20.02					
100.00	100.00	100.00	100.00	0.13	0.13	-179.32	-20.02	-0.24	20.02	19.77	0.26	77.579		
200.00	200.00	200.00	200.00	0.49	0.49	-179.32	-20.02	-0.24	20.02	19.05	0.98	20.536		
300.00	300.00	300.00	300.00	0.85	0.85	-179.32	-20.02	-0.24	20.02	18.33	1.69	11.834		
400.00	400.00	400.00	400.00	1.20	1.20	-179.32	-20.02	-0.24	20.02	17.61	2.41	8.312		
500.00	500.00	500.00	500.00	1.56	1.56	-179.32	-20.02	-0.24	20.02	16.90	3.13	6.406		
600.00	600.00	600.00	600.00	1.92	1.92	-179.32	-20.02	-0.24	20.02	16.18	3.84	5.211		
700.00	700.00	700.00	700.00	2.28	2.28	-179.32	-20.02	-0.24	20.02	15.46	4.56	4.391		
800.00	800.00	800.00	800.00	2.64	2.64	-179.32	-20.02	-0.24	20.02	14.75	5.28	3.795		
900.00	900.00	900.00	900.00	3.00	3.00	-179.32	-20.02	-0.24	20.02	14.03	5.99	3.341		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-179.32	-20.02	-0.24	20.02	13.31	6.71	2.984 C0	C, ES, SF	
1,100.00	1,099.95	1,099.95	1,099.95	3.71	3.71	149.05	-20.02	-0.24	22.22	14.80	7.43	2.993		
1,200.00	1,199.63	1,199.63	1,199.63	4.07	4.07	156.89	-20.02	-0.24	29.23	21.09	8.14	3.590		
1,300.00	1,298.77	1,299.39	1,299.35	4.44	4.42	160.44	-20.03	2.35	40.79	31.93	8.85	4.607		
1,400.00	1,397.08	1,398.89	1,398.53	4.81	4.77	158.85	-20.07	10.11	55.90	46.34	9.56	5.846		
1,500.00	1,494.31	1,497.78	1,496.58	5.22	5.12	155.44	-20.14	22.93	74.67	64.38	10.29	7.258		
1,600.00	1,590.18	1,595.76	1,592.94	5.66	5.49	151.63	-20.22	40.62	97.36	86.32	11.04	8.817		
1,700.00	1,684.43	1,692.52	1,687.08	6.15	5.88	147.97	-20.33	62.92	124.16	112.32	11.84	10.484		
1,800.00	1,776.81	1,787.64	1,778.59	6.69	6.29	144.86	-20.46	88.87	155.13	142.44	12.69	12.224		
1,900.00	1,867.50	1,881.50	1,868.73	7.29	6.72	143.53	-20.59	115.03	189.50	175.92	13.58	13.958		
2,000.00	1,958.02	1,975.26	1,958.77	7.93	7.17	142.84	-20.72	141.16	224.19	209.70	14.49	15.472		
2,100.00	2,048.55	2,069.02	2,048.82	8.59	7.64	142.33	-20.84	167.29	258.91	243.47	15.43	16.775		
2,200.00	2,139.08	2,162.78	2,138.86	9.27	8.11	141.94	-20.97	193.42	293.63	277.23	16.40	17.900		
2,300.00	2,229.61	2,256.54	2,228.91	9.96	8.60	141.64	-21.10	219.55	328.37	310.97	17.40	18.876		
2,400.00	2,320.14	2,350.30	2,318.95	10.67	9.09	141.39	-21.23	245.69	363.11	344.71	18.41	19.729		
2,500.00	2,410.67	2,444.06	2,409.00	11.39	9.59	141.19	-21.36	271.82	397.86	378.43	19.43	20.477		
			CC - Min	centre to ce	nter dista	nce or cove	ergent point SE	- min senai	ration facto	n ES-mi	n ellinse se	paration		

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Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Reference Site:	S Escavada Unit 343 H pd (343 & 344)	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Feb2822
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Sincey Array A	Offset De	sign:										Offset Site Error:	0.00		
Mathem         Verted         Verted         Normal         Process         Normal         Parameter         Parameter         Parameter         Parameter           20700         20710         25712         25712         25716         250	Survey Prog	ram:	0-MWD	sot	Semi M	aior Avis		Offset Wellb	ore Centre	Dis	Rule Assi	gned:		Offset Well Error:	0.00
J.B.COM         J.S.C.M.         J.S.C.M.         J.L.M.         II.M.	Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	(ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
27000       2.891.7       2.891.8       2.890.00       2.822.1       2.1721       2.400.00       2.227.2       2.217.21       2.400.00       2.227.2       2.217.21       2.400.00       2.227.2       2.217.21       2.400.00       2.217.2       2.217.21       2.400.00       2.217.2       2.217.21       2.400.00       2.217.2       2.411.00       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.217.2       2.400.00       2.216.0       2.216.0       2.217.2       2.400.00       2.216.0	2,600.00	2,501.2	2,537.82	2,499.04	12.11	10.10	141.02	-21.48	297.95	432.61	412.14	20.47	21.136		
2800.00       272.8       287.93       287.93       11.33       11.075       27.74       250.21       475.44       22.67       22.76         2000.00       27.81       27.81       27.80       27.80       27.80       22.76       22.76         2000.00       27.81       27.80       28.86       22.10       40.04       27.00       40.24       67.64       84.62       22.60       22.60         2000.00       39.443       30.062       28.95       17.91       16.06       12.21       40.06       64.64       64.75       27.97       22.60         2000.00       39.443       30.90.21       16.81       13.24       10.25       22.25       60.89       71.66       61.52       27.97       24.46         3000.00       38.767       30.60       10.35       15.25       10.10       22.97       75.97       78.27       74.85       27.97       24.46         3000.00       38.767       30.60       10.35       15.25       10.10       22.90       76.97       78.21       78.49       38.91       24.44       25.77         3000.00       38.767       30.66       23.91       77.74       16.76       10.92.2       10.92       10	2,700.00	2,591.7	2 2,631.58	2,589.09	12.85	10.62	140.87	-21.61	324.08	467.36	445.85	21.52	21.721		
2.0000       2.77.7       2.78.18       1.74.18       11.55       100.04       2.01.74       375.34       536.88       15.24       2.20.9         3.100.00       2.03.13       3.006.2       2.04.27       57.14       4.20.44       57.14       4.26.20       2.20.34       2.20.80       2.20.34       2.20.80       2.20.34       2.20.80       2.20.87       2.20.81       2.20.81       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       2.20.81       4.20.80       8.20.85       1.20.81       2.20.81       4.20.80       8.20.85       1.20.81       2.20.81       4.20.80       8.20.85       1.20.81       2.20.81       3.20.81<	2,800.00	2,682.2	2,725.34	2,679.13	13.59	11.13	140.75	-21.74	350.21	502.12	479.54	22.57	22.243		
30000       2883.1       291.28       2892.3       15.68       12.16       1005       22.08       402.4       71.04       45.86       23.08         32000       33.44       30062       2.693.3       17.4       10.40       22.15       45.47       11.08       2.388       2.388         33000       33.44       3181.4       30.90       2.30.44       18.00       4.377       14.01       4.22.1       40.40       67.58       2.77       2.41.44         34000       3.384       3.381.4       10.50       4.84       140.20       2.24       45.71       16.80       7.62.1       7.44.44         3.0004       3.476.45       3.390.50       19.85       14.04       14.01       -2.277       50.80       7.60.2       3.38       2.51.7         3.0000       3.477.45       3.046.24       3.03.90       16.80       14.04       14.00       -2.21.7       50.80       7.60.2       3.38       2.51.7         3.0000       3.677       3.68.1       16.24       16.24       3.38       51.71       3.40.91       3.38       2.51.7         3.0000       3.677       3.68.1       16.24       16.24       16.24       16.24       16.24	2,900.00	2,772.7	2,819.10	2,769.18	14.33	11.65	140.64	-21.87	376.34	536.88	513.24	23.64	22.709		
31000         283.84         30062         294.77         15.8         17.1         100.4         42.13         424.73         64.14         64.9         25.00         25.00         25.00           330.00         31.44         31.93.8         17.34         18.36         17.34         18.36         17.34         18.34         27.37         17.35         17.34         18.34         17.34         18.34         27.37         17.35         18.34         17.34         18.34         27.37         12.33         18.34         27.37         12.33         18.34         27.37	3,000.00	2,863.3	2,912.86	2,859.23	15.08	12.18	140.54	-22.00	402.47	571.64	546.92	24.72	23.129		
3.044.37       1.01.04       3.08.32       10.58       10.58       10.28       2.22.5       4.64.78       7.41.18       0.41.28       2.28.8       2.84.19         3.000       3.24.24       3.29.19       3.21.84       11.10       14.13       140.25       2.22.51       8.66.89       77.52       7.62.4       7.62.7       2.4.49         3.0000       3.07.64       3.39.65       11.65       15.3       14.05       2.2.71       55.62       7.62.21       7.62.8       3.27.2       2.6.61         3.0000       3.67.64       3.29.25       15.65       13.3       14.01       14.04       14.00.6       2.3.02       61.63       14.64.7       61.66       3.44.8       5.5.73         3.0000       3.67.64       3.29.25       2.57.64       10.00       7.62.8       0.57.6       5.5.74         4.0000       3.78.06       3.44.64       14.0.45       12.02       7.76.71       10.20.5       60.74       3.74.0       2.5.15         4.0000       3.74.04       2.3.16       14.13.6       14.14.2       2.3.25       77.74.1       1.0.2.15       3.5.17       2.7.44         4.0000       3.44.64       4.00.14       2.1.2       7.74.2       1.2.2.5 <t< td=""><td>3,100.00</td><td>2,953.8</td><td>3,006.62</td><td>2,949.27</td><td>15.83</td><td>12.71</td><td>140.46</td><td>-22.13</td><td>428.60</td><td>606.40</td><td>580.60</td><td>25.80</td><td>23.508</td><td></td><td></td></t<>	3,100.00	2,953.8	3,006.62	2,949.27	15.83	12.71	140.46	-22.13	428.60	606.40	580.60	25.80	23.508		
3.300       3.134.00       3.144.14       3.129.36       17.34       17.7       140.31       -22.38       40.08       75.72       64.75       27.77       24.144         3.500.00       3.305.45       3.307.45       18.86       14.44       140.20       -22.64       35.81       74.64       77.32       80.17       24.711         3.500.00       3.405.44       3.476.45       3.507.64       1.401.15       -22.04       35.81       44.64       77.22       64.91       2.327       2.464.14       3.476.45       3.527.2       2.641.55       3.216.77       2.337       2.557       2.116       1.640.14       1.02       2.115       57.56       44.68       7.562.5       3.21.8       55.76       2.167       3.576       2.576 <td>3,200.00</td> <td>3,044.3</td> <td>3,100.38</td> <td>3,039.32</td> <td>16.58</td> <td>13.24</td> <td>140.38</td> <td>-22.25</td> <td>454.73</td> <td>641.16</td> <td>614.28</td> <td>26.88</td> <td>23.851</td> <td></td> <td></td>	3,200.00	3,044.3	3,100.38	3,039.32	16.58	13.24	140.38	-22.25	454.73	641.16	614.28	26.88	23.851		
A.400       3.225.42       3.2370       3.219.44       10.10       14.31       14.025       2.251       56.69       71.069       68.12       26.71       2.44.99         3.800.00       3.406.44       3.478.43       3.909.50       10.83       14.84       14.05       2.217       556.20       78.021       74.86       31.27       2.4611         3.700.00       3.407.41       3.809.50       10.83       14.81       140.02       2.228       565.23       81.46.37       10.208       2.316       2.370         3.000.00       3.077.41       3.081.06       2.377       11.65       14.46.0       2.328       666.76       91.28       94.17       5.77       <	3,300.00	3,134.9	3,194.14	3,129.36	17.34	13.77	140.31	-22.38	480.86	675.92	647.95	27.97	24.164		
3.5000       3.3155       3.38147       3.38457       1.3846       14.84       140.20       2.264       353.12       74.64       90.17       74.271         3.0000       3.4704       3.36450       1.384       1.538       1.015       .227       552.8       81.539       81.539       21.52       21.01       22.68       555.59       81.419       3.446       23.78         3.30000       3.4707       3.7708       3.7068       22.01       1.553       1.60       41.010       -22.68       557.56       584.51       81.492       3.446       23.78         3.30000       3.4707       3.70468       22.01       1.555       1.60       57.755       584.51       81.47       3.846.70       3.8116       2.347       1.60       -23.78       69.77       1.91.28       83.57       25.774         4.0000       3.496.65       4.01.02       2.344.67       1.83.91       1.40.47       -23.60       770.43       1.89.51       80.14       3.78.00       23.774         4.0000       4.101.52       4.10.61       2.05       774.73       1.02.20       1.66.21       1.66.21       1.66.21       1.66.21       1.66.24       1.65.24       1.66.24       1.65.24       1.66.23 <td>3,400.00</td> <td>3,225.4</td> <td>3,287.90</td> <td>3,219.41</td> <td>18.10</td> <td>14.31</td> <td>140.25</td> <td>-22.51</td> <td>506.99</td> <td>710.69</td> <td>681.62</td> <td>29.07</td> <td>24.449</td> <td></td> <td></td>	3,400.00	3,225.4	3,287.90	3,219.41	18.10	14.31	140.25	-22.51	506.99	710.69	681.62	29.07	24.449		
3.406.4       3.47.43       3.398.50       19.3       15.32       40.15       -22.77       599.26       799.21       799.21       799.26       799.21       799.26       799.27       799.26       799.26       799.26       799.27       799.26       799.27       799.26       799.27       799.26       799.26       799.26       799.27       799.26       799.27       799.26       799.26       799.27       799.26       799.27       799.26       799.27       799.26       799.26       799.26       799.26       799.27	3,500.00	3,315.9	3,381.67	3,309.45	18.86	14.84	140.20	-22.64	533.12	745.45	715.28	30.17	24.711		
3.40701       3.480701       3.48019       4.480.4       20.39       10.10       -22.80       883.39       814.85       782.80       32.38       25.173         3.80000       3.77670       3.77671       3.575.95       21.16       10.40       4.002       23.16       87.76       816.26       34.86       25.576         3.80000       3.75671       3.7568       22.17       17.55       13.09       42.22       65.77       912.22       83.37       27.74         4.10000       3.866.6       4.04.62       2.94.44       14.94       14.95       72.07       17.55       19.39       72.26       67.77       17.80       18.96       14.97       26.16         4.0000       4.107.71       4.224.6       18.96       14.04.6       22.56       72.17       10.22.10       98.44       10.42       10.62.44       10.92.26       14.91       12.27       14.91       14.97       11.91       13.92       14.92       22.66       74.14       10.92.26       14.92.11       10.92.44       10.92.26       14.92.1       20.42       17.92       10.91.1       10.92.44       10.92.26       14.92.2       14.92.2       14.92.2       14.92.2       14.92.2       14.92.2       14.92.2 <td< td=""><td>3,600.00</td><td>3,406.4</td><td>3,475.43</td><td>3,399.50</td><td>19.63</td><td>15.38</td><td>140.15</td><td>-22.77</td><td>559.26</td><td>780.21</td><td>748.95</td><td>31.27</td><td>24.951</td><td></td><td></td></td<>	3,600.00	3,406.4	3,475.43	3,399.50	19.63	15.38	140.15	-22.77	559.26	780.21	748.95	31.27	24.951		
3.8000       3.878       3.878       3.878       2.116       14.46       140.02       -2.302       611.52       84.67       916.26       3.458       25.578         4.0000       3.768       3.876       3.756       2.270       17.55       199.86       -2.228       883.75       891.27       35.71       25.568         4.0000       3.691.68       2.351.66       2.247       18.07       -2.248       888.57       897.47       3.780       25.562         4.2000       3.494.65       4.04.64       2.351       140.07       -2.244       683.64       197.4       38.67       36.78         4.4000       4.139.17       4.224.44       18.64       140.64       -2.257       776.41       1085.24       108.77       30.81       11.81       38.83       26.789         4.5000       4.211.44       4.301.4       4.211.84       2.302       141.94       -2.266       741.77       11.84.14       1.122.70       41.44       28.67         4.6000       4.311.84       2.41.12       2.24.66       741.77       11.84.14       1.122.70       41.44       28.67         4.6000       4.810.84       4.497.757       2.80.41       172.28       72.406       1.28.8	3,700.00	3,497.0	3,569.19	3,489.54	20.39	15.92	140.10	-22.89	585.39	814.98	782.60	32.38	25.173		
3.807.07       3.767.71       3.696.37       3.696.47       3.796.77       3.696.87       21.93       17.00       140.07       -2.240       687.65       884.27       98.38       917.18       38.60       2.5.724         4.0000       3.786.46       2.347       18.07       140.07       -2.240       688.42       98.38       917.18       38.60       2.5.724         4.2000       3.944.64       4.307.79       2.241       18.07       140.07       -2.240       688.42       98.38       917.18       38.60       2.5.724         4.2000       4.317.14       4.21759       2.271       18.32       141.22       -2.262       73.424       100.71       11.11       38.53       27.831         4.4000       4.317.14       4.212.64       2.401.24       2.2166       74.17       1.11.14       1.022.7       40.24       2.366         4.4000       4.401.35       2.215       0.01.2       1.128.64       2.266       74.17       1.11.41       1.127.7       4.44       3.567         4.6000       4.671.10       4.777.7       2.285       2.046       1.158.2       77.7       1.241.74       1.128.4       2.366       74.17       1.228.45       2.366       74.17	3,800.00	3,587.5	3,662.95	3,579.59	21.16	16.46	140.06	-23.02	611.52	849.75	816.26	33.48	25.378		
4.0000       3.768.00       3.864.47       3.768.68       22.70       17.85       139.98       -22.28       683.78       991.28       883.57       35.71       25.744         4.0000       3.849.65       4.04.082       3.841.64       24.24       18.54       140.07       -22.40       688.42       953.08       971.10       35.84       38.77       36.426         4.30000       4.107.14       2.28.44       4.30.71       2.6.178       18.85       141.08       -23.57       723.70       10.03.10       981.34       38.77       36.426         4.40000       4.307.14       2.28.44       4.30.14       2.27.50       10.82.22       40.24       2.7.50         4.70000       4.404.28       4.401.38       2.30.01       11.41.94       -22.56       74.1.77       1.12.7.77       1.08.41       4.08.22       2.00.2       2.01.4       177.28       -22.56       74.1.77       1.12.7.7       1.08.41       4.08.22       2.02.2       2.01.4       1.77.28       -22.56       74.1.77       1.12.87.1       1.14.14       1.12.27.0       41.44       22.091       2.03.41       1.09.21       -22.26       1.20.01       1.15.89.3       4.07.7       2.88.80       2.21.22.1       1.00.01       1.20.21	3,900.00	3,678.0	3,756.71	3,669.63	21.93	17.00	140.02	-23.15	637.65	884.51	849.92	34.59	25.568		
4,100.00       3,891.12       3,945.70       3,845.60       23.47       16.07       42.00       688.42       953.88       917.16       366.00       25.926         4,200.00       3,044.64       4,04.52       3,044.64       24.24       16.045       -23.50       708.43       980.54       960.74       37.80       26.150         4,000.00       4,101.71       4,228.45       4,130.11       25.75       11.586       11.68       141.02       -23.65       77.01       10.323.55       980.74       37.80       22.162         4,000.00       4,04.18       4,221.46       23.065       16.66       74.176       11.414       11.22.70       41.44       28.06         4,000.00       4,64.99       4,500.21       4,401.68       28.00       20.14       177.26       -23.66       74.177       11.414.1       11.22.70       41.44       28.001         4,000.00       4,66.99       4,500.21       4,401.68       24.02       -132.88       -24.04       713.50       12.03.01       14.84.4       28.01       73.50       12.04.83       14.17       14.64.3       14.14       28.01         4,000.00       4,679.12       4,679.12       4,579.12       29.25       28.25       29.24	4,000.00	3,768.6	3,850.47	3,759.68	22.70	17.55	139.98	-23.28	663.78	919.28	883.57	35.71	25.744		
42000       3,94.85       4,04.082       3,94.45       4,24.4       19.54       14.64       -23.50       77.83       10.23.65       90.74       37.80       22.160         4,0000       4,101.01       4.228.45       4.10.14       25.79       11.86       141.08       -23.57       77.33       10.23.65       90.74       39.53       27.78         4,0000       4.211.45       3.01.01       2.216.65       16.65       16.61       142.94       -23.66       74.17       11.44.4       1,122.77       1.0.66.91       2.7.631         4,0000       4.401.33       4.311.86       2.7.33       19.90       149.49       -23.66       74.17       1.1.44.4       1,122.70       4.1.44       2.0.01         4,0000       4.690.45       4.602.41       4.2.21       12.4.14       1.72.77       1.1.44.4       1,122.70       4.1.44       2.0.01         4,0000       4.690.45       4.602.41       2.0.2.1       11.81.7       2.2.2.6       671.64       1.3.0.2.3       1.0.0.61       1.3.0.2.2       1.3.0.41.44       1.2.1.2.0.0.1       1.5.0.0.0       1.5.0.0.0       1.3.0.2.2.7       1.2.2.8.8       3.0.61       3.0.2.2.8       1.3.0.6       3.1.1.8.1       3.0.65       3.0.65       3.0.65 <t< td=""><td>4,100.00</td><td>3,859.1</td><td>2 3,945.70</td><td>3,851.66</td><td>23.47</td><td>18.07</td><td>140.07</td><td>-23.40</td><td>688.42</td><td>953.98</td><td>917.18</td><td>36.80</td><td>25.926</td><td></td><td></td></t<>	4,100.00	3,859.1	2 3,945.70	3,851.66	23.47	18.07	140.07	-23.40	688.42	953.98	917.18	36.80	25.926		
4,300       4,040.8       4,135.22       4,037.79       25.01       18.96       141.02       -23.62       723.70       10.101.11       30.51       25.426         4,000.00       4,271.24       4,302.10       4,212.44       4,302.10       4,212.44       23.62       74.178       1,102.46       1056.91       40.66       27.601         4,000.00       4,211.46       4,401.88       2,000       20.14       177.26       23.66       741.77       1,106.91       40.68       27.601         4,000.00       4,341.86       4,404.88       2,000       2.014       177.26       -23.66       741.77       1,164.14       1,122.70       41.44       28.601         4,000.00       4,404.38       4,002.64       4,404.88       28.61       20.32       -156.54       -23.56       74.37       1,208.67       1,198.93       41.87       28.800         4,000.00       4,571.4       4,577.62       2.02.5       2.02.5       -108.21       -21.56       631.60       1,302.29       1,228.67       1,424.8       23.33       1,414       23.33       1,414.4       23.50       1,312.66       3,42.45       30.675         5,000.00       4,570.47       4,569.64       4,520.91       4,586.93	4,200.00	3,949.6	4,040.82	3,944.64	24.24	18.54	140.45	-23.50	708.43	988.54	950.74	37.80	26.150		
4,400.0       4,19.71       4,228.45       4,13.01       2.5.79       19.32       14.19.2       -23.62       7.44.44       1.015.763       1.015.22       4.02.24       2.7.160         4,600.00       4,311.86       4.410.13       4.311.86       2.7.33       19.90       140.49       -23.66       741.78       1.127.77       1.068.91       40.68       27.601         4,700.00       4,04.28       4,502.34       4,404.88       2.8.00       2.14.4       17.72.8       -23.66       741.77       1.068.91       4.07.82       2.860         4,000.00       4,659       4,506.64       4,401.63       2.8.11       2.21.22       1.56.54       2.20.47       71.56.93       41.77.87       2.8.88       2.0.42       .112.817       1.164.14       1.12.27.07       1.44.4       2.8.00         4,400.00       4,669       4,673.12       4,675.83       2.9.25       2.0.61       -110.17       -22.29       679.24       1.270.91       1.282.61       42.45       30.675         5,00.00       4,76.17       4,869.63       2.9.25       2.0.62       -110.17       -22.29       679.24       1.273.91       1.30.91       3.10.91       3.3.91       3.3.06       3.42.45       3.3.675         5,	4,300.00	4,040.1	8 4,135.22	4,037.79	25.01	18.96	141.08	-23.57	723.70	1,023.05	984.34	38.71	26.426		
4,500.00       4,221,24       4,320,10       4,221,86       221,84       4,300,10       4,311,86       4,401,13       4,311,86       27,33       19,90       144,494       -23,68       741,78       1,122,77       1,088,91       40,86       27,601         4,000.00       4,494,89       4,500,62       4,491,96       28,61       20,32       -144,44       23,50       741,78       1,122,77       1,164,14       1,122,70       41,44       28,690         4,900.00       4,947,18       4,677,17       28,68       20,44       -112,86       20,40       -118,17       -22,29       679,24       1,270,91       1,228,61       42,14       29,352         5,000.00       4,870,87       5,466,77       29,29       20,63       -108,21       -21,25       631,60       1,302,21       1,288,81       42,14       29,352         5,000.00       4,870,87       5,466,77       4,868,64       29,29       20,63       -101,31       -19,92       570,76       1,320,97       1,282,84       42,88       31,161         5,000.00       4,870,83       5,446,51       4,919,24       20,17       -1,64,31       497,21       1,35,19       1,340,94       44,33       30,914         5,000.00       4,973,8	4,400.00	4,130.7	4,228.45	4,130.41	25.79	19.32	141.92	-23.62	734.24	1,057.63	1,018.11	39.53	26.758		
4,800.00       4,311.86       4,410.11       4,311.86       27.33       19.90       149.49       -23.66       741.76       1,127.77       1,089.91       40.86       27.601         4,700.00       4,649.28       4,502.34       4,440.08       28.00       20.14       177.25       -23.66       741.37       1,208.91       41.87       28.80         4,000.00       4,697.12       4,778.77       28.88       20.42       -132.88       -23.04       713.53       1,189.53       14.84.1       42.14       23.322         5,000.00       4,677.12       4,778.77       28.88       20.42       -132.88       -23.04       713.50       1,348.61       42.14       23.322         5,000.00       4,707.50       4,866.64       4,737.92       29.25       20.54       -108.21       -21.25       631.60       1,302.29       1,258.83       42.45       30.675         5,000.00       4,918.81       5,146.51       4,912.4       29.17       21.16       496.20       1,337.77       1,329.97       1,328.97       1,328.94       43.11       31.901         5,000.00       4,917.81       5,445.32       4,977.71       28.66       23.57       -90.00       -16.47       41.050       1,338.98	4,500.00	4,221.2	4,320.10	4,221.86	26.56	19.63	142.94	-23.65	740.18	1,092.46	1,052.22	40.24	27.150		
4,7000       4,404.28       4,502.34       4,404.08       28.00       20.14       177.26       23.66       741.71       1,164.14       1,122.70       41.44       28.01         4,800.00       4,587.18       4,679.12       4,577.67       28.88       20.42       1,32.88       2.20.04       713.50       1,228.67       1,194.61       42.14       29.392         5,000.00       4,671.10       4,768.58       4,600.41       29.12       20.49       1,118.17       -22.26       673.64       1,228.61       42.31       30.641         5,000.00       4,871.88       4,600.41       29.12       20.55       -108.21       -72.2       673.64       1,32.997       1,228.61       42.81       31.61         5,000.00       4,875.87       5,048.72       4,808.63       29.25       20.82       -77.22       -18.31       497.21       1,33.19       1,310.08       43.11       31.391         5,000.00       4,973.83       5,445.52       4,976.45       28.67       29.65       -17.2       -18.31       497.21       1,33.73       1,310.08       43.11       31.391         5,000.00       4,973.83       5,445.32       4,976.45       28.67       29.66       -17.72       -18.31       4	4,600.00	4,311.8	4,410.13	4,311.86	27.33	19.90	149.49	-23.66	741.78	1,127.77	1,086.91	40.86	27.601		
4,8000       4,496,99       4,590,62       4,491,96       26,51       20.32       -154,64       -23.50       7,73,7       1,200,80       1,156,93       41.87       28.88         5,000,00       4,672,10       4,778,85       4,660,41       29.12       20.42       -118,17       -22.29       679,24       1,270,91       1,228,61       42.41       20.30         5,000,00       4,774,917       4,859,66       4,737,92       20.25       20.54       -108,21       -21.25       631,60       1,302,29       1,258,23       42.45       30,675         5,000,00       4,870,87       5,046,06       4,952,91       4,869,63       29.25       20.62       -07.22       -16.31       4197,21       1353,19       1,310,08       43,11       1,3331         5,400,00       4,918,81       5,146,51       4,919,24       29.17       21.18       -96,00       -16.47       41305       1,373,77       1,329,95       43.82       31.353         5,400,00       4,974,81       5,445,32       4,977,17       28.66       23.57       -90,00       -7,94       23.33       1,399,80       1,344,04       44.33       30.914         5,800,00       4,977,95       5,445,32       4,977,17       28.66	4,700.00	4,404.2	4,502.34	4,404.08	28.00	20.14	177.26	-23.66	741.77	1,164.14	1,122.70	41.44	28.091		
4,8000       4,877,18       4,679,12       4,777,87       28.88       20.42       -132.88       -23.04       713.00       1,236,75       1,194,61       42.14       29.352         5,000.00       4,772.10       47.855       4,660,41       29.12       29.25       20.54       -108.21       -21.25       631.60       1,302.29       1,259.83       42.45       30.641         5,000.00       4,876.87       5,048.72       4,889.44       29.29       20.63       -101.33       -19.92       570.76       1,329.97       1,327.29       42.88       31.161         5,000.00       4,876.87       5,048.57       4,895.04       29.05       21.77       49.00       -16.47       413.06       1,337.65       1,316.10       4.41       30.014         5,000.00       4,975.87       5,245.50       4955.04       20.05       21.77       49.00       -10.13       123.33       1,399.80       1,351.40       4.44       28.917         5,000.00       4,977.81       5,445.32       4,977.81       22.55       -90.00       -10.13       123.33       1,399.80       1,351.40       48.41       28.917         5,000.00       4,975.96       5,445.32       4,977.80       22.56       -90.00 <t< td=""><td>4,800.00</td><td>4,496.9</td><td>4,590.62</td><td>4,491.96</td><td>28.51</td><td>20.32</td><td>-154.54</td><td>-23.50</td><td>734.37</td><td>1,200.80</td><td>1,158.93</td><td>41.87</td><td>28.680</td><td></td><td></td></t<>	4,800.00	4,496.9	4,590.62	4,491.96	28.51	20.32	-154.54	-23.50	734.37	1,200.80	1,158.93	41.87	28.680		
5,000.00       4,7672.10       4,768.58       4,860.41       29.12       20.49       -118.17       -22.25       631.60       1,302.29       1,228.81       42.45       30.675         5,000.00       4,816.06       4,952.91       4,808.63       29.25       20.63       -101.33       -19.92       570.76       1,322.97       1,227.99       42.68       31.161         5,000.00       4,870.87       5,046.07       4,989.63       29.25       20.82       -97.22       -18.31       497.21       1,335.19       1,310.08       43.11       31.391         5,400.00       4,918.81       5,146.51       4,919.24       29.17       21.18       -96.00       -16.47       413.05       1,373.77       1,329.95       43.82       31.353         5,400.00       4,973.83       5,345.30       4,977.46       28.87       22.66       -90.41       -12.32       22.21 9       1,381.40       48.41       28.917         5,400.00       4,975.80       5,454.52       4,977.46       28.87       22.66       -90.00       -5.76       -7.662       1,399.80       1,341.40       48.41       28.917         5,400.00       4,975.87       5,445.32       4,974.97       28.85       27.72       -90.00	4,900.00	4,587.1	8 4,679.12	4,577.87	28.88	20.42	-132.88	-23.04	713.50	1,236.75	1,194.61	42.14	29.352		
5,100.00       4,749.17       4,868.06       4,737.92       29.25       20.64       -108.21       -21.25       631.60       1,302.29       1,289.83       42.45       30.675         5,200.00       4,816.06       4,962.291       4,808.44       29.29       20.63       -101.33       -19.92       570.76       1,329.97       1,287.29       42.68       31.161         5,400.00       4,918.81       5,146.51       4,919.24       29.17       21.18       -95.00       -16.47       413.05       1,373.77       1,329.95       43.82       31.353         5,600.00       4,973.85       5,345.30       4,974.81       5,445.32       4,977.71       28.66       23.57       -90.00       -10.13       123.33       1,390.80       1,381.40       48.41       28.917         5,700.00       4,975.81       5,445.32       4,976.80       28.47       24.77       -90.00       -5.76       1,399.80       1,346.34       53.46       26.164         6,000.00       4,975.98       5,645.32       4,974.97       28.35       27.72       -90.00       -3.57       -176.59       1,399.80       1,346.34       55.06       2.4775         6,100.00       4,974.15       5,445.32       4,974.97       28.35 </td <td>5,000.00</td> <td>4,672.1</td> <td>0 4,768.58</td> <td>4,660.41</td> <td>29.12</td> <td>20.49</td> <td>-118.17</td> <td>-22.29</td> <td>679.24</td> <td>1,270.91</td> <td>1,228.61</td> <td>42.31</td> <td>30.041</td> <td></td> <td></td>	5,000.00	4,672.1	0 4,768.58	4,660.41	29.12	20.49	-118.17	-22.29	679.24	1,270.91	1,228.61	42.31	30.041		
52000       4,816.06       4,962.91       4,808.44       29.29       20.63       -101.33       -19.92       570.76       1,329.97       1,287.29       42.68       31.161         5,000.00       4,918.81       5,146.51       4,919.24       29.17       21.18       -95.00       -16.47       413.05       1,373.77       1,329.97       43.82       31.331         5,000.00       4,953.87       5,245.00       4,955.04       29.05       21.76       -92.04       -14.45       320.92       1,388.93       1,344.00       44.33       30.914         5,000.00       4,973.85       5,345.30       4,977.67       22.66       29.01       -12.22       22.319       1,397.65       1,351.18       46.47       30.077         5,000.00       4,975.90       5,545.32       4,977.91       28.66       23.57       -90.00       -7.94       23.35       1,399.80       1,344.06       65.07       27.584         5,000.00       4,975.07       5,745.32       4,974.97       28.82       27.72       90.00       -3.57       -17.659       1,399.80       1,343.30       65.60       24.175         6,000.00       4,974.15       5,845.32       4,974.05       30.60       29.41       -90.00 <t< td=""><td>5,100.00</td><td>4,749.1</td><td>7 4,859.66</td><td>4,737.92</td><td>29.25</td><td>20.54</td><td>-108.21</td><td>-21.25</td><td>631.60</td><td>1,302.29</td><td>1,259.83</td><td>42.45</td><td>30.675</td><td></td><td></td></t<>	5,100.00	4,749.1	7 4,859.66	4,737.92	29.25	20.54	-108.21	-21.25	631.60	1,302.29	1,259.83	42.45	30.675		
5,300.00       4,870.87       5,048,72       4,880.83       292.5       20.82       -97.22       -18.31       497.21       1,353.19       1,310.08       43.11       31.391         5,400.00       4,973.83       5,245.50       4,965.04       29.05       21.76       -92.04       -14.45       320.92       1,388.83       1,344.00       44.93       30.914         5,000.00       4,973.83       5,345.30       4,974.76       22.87       22.56       -90.41       -12.32       22.319       1,337.65       1,351.40       48.41       28.917         5,000.00       4,977.81       5,445.32       4,976.80       28.47       24.77       90.00       -7.94       23.33       1,399.80       1,346.34       53.46       26.164         5,000.00       4,975.96       5,645.32       4,976.80       28.47       24.77       90.00       -5.76       -76.62       1,399.80       1,346.34       53.46       26.164         6,000.00       4,975.15       5,845.32       4,974.97       28.85       27.72       -90.00       -3.57       -176.59       1,399.80       1,343.30       65.50       24.775         6,100.00       4,973.24       5,945.32       4,973.14       32.44       31.21 <t< td=""><td>5,200.00</td><td>4,816.0</td><td>4,952.91</td><td>4,808.44</td><td>29.29</td><td>20.63</td><td>-101.33</td><td>-19.92</td><td>570.76</td><td>1,329.97</td><td>1,287.29</td><td>42.68</td><td>31.161</td><td></td><td></td></t<>	5,200.00	4,816.0	4,952.91	4,808.44	29.29	20.63	-101.33	-19.92	570.76	1,329.97	1,287.29	42.68	31.161		
5,0000       4,918.81       5,146.51       4,919.24       29.17       21.18       -49.000       -16.47       413.05       1,32.949       43.82       31.363         5,000.0       4,953.87       5,245.50       455.00       21.76       -92.04       -14.45       320.92       1,384.00       44.38       30.914         5,000.0       4,973.83       5,345.30       4,977.51       28.66       23.57       -90.00       -10.13       123.33       1,399.80       1,341.00       48.41       28.917         5,000.0       4,975.89       5,463.32       4,975.88       28.465       24.77       -90.00       -7.94       23.35       1,349.06       60.75       27.584         5,000.0       4,975.89       5,463.32       4,976.80       28.47       24.77       -90.00       -3.57       -176.62       1,399.80       1,346.34       53.46       24.42       21.17         6,000.00       4,977.15       5,845.32       4,976.45       30.60       29.41       -90.00       -1.38       -276.56       1,399.80       1,336.42       63.37       22.088         6,200.00       4,972.45       5,465.32       4,973.43       33.14       32.44       31.21       -90.00       7.18       -576.48 <td>5,300.00</td> <td>4,870.8</td> <td>5,048.72</td> <td>4,869.63</td> <td>29.25</td> <td>20.82</td> <td>-97.22</td> <td>-18.31</td> <td>497.21</td> <td>1,353.19</td> <td>1,310.08</td> <td>43.11</td> <td>31.391</td> <td></td> <td></td>	5,300.00	4,870.8	5,048.72	4,869.63	29.25	20.82	-97.22	-18.31	497.21	1,353.19	1,310.08	43.11	31.391		
5,500.00       4,953.8       5,445.30       4,974.65       28.87       22.66       -90.41       -12.32       223.19       1,397.65       1,351.18       46.47       30077         5,700.00       4,977.81       5,445.32       4,977.45       5,245.32       4,976.46       22.87       29.00       -10.13       123.33       1,399.80       1,346.34       53.46       28.917         5,800.00       4,975.98       5,645.32       4,977.81       24.67       29.00       -7.94       23.35       1,399.80       1,346.34       53.46       26.184         6,000.00       4,975.97       5,745.32       4,974.97       28.65       27.72       -90.00       -5.76       -76.62       1,399.80       1,346.34       53.46       26.184         6,000.00       4,975.07       5,745.32       4,974.05       30.60       29.41       -90.00       -1.38       -3276.56       1,339.80       1,336.42       63.37       22.088         6,000.00       4,973.24       5,945.32       4,973.13       36.34       35.10       -90.00       5.18       -576.48       1,399.79       1,326.76       71.12       20.855         6,000.00       4,970.41       6,445.32       4,967.34       35.16       -90.00	5,400.00	4,918.8	5,146.51	4,919.24	29.17	21.18	-95.00	-16.47	413.05	1,373.77	1,329.95	43.82	31.353		
5,000.00       4,973.63       5,345.30       4,974.56       22.67       22.50       -90.01       -12.32       22.3,19       1,397.65       1,351.16       46.47       30.077         5,700.00       4,977.81       5,445.32       4,977.80       28.47       24.77       -90.00       -7.94       23.33       1,399.80       1,346.34       53.46       26.17       5,545.32       4,975.88       28.30       26.16       -90.00       -5.76       -76.62       1,399.80       1,346.34       53.46       26.184         6,000.00       4,975.07       5,745.32       4,974.97       28.85       27.72       -90.00       -3.57       -176.59       1,399.80       1,343.30       66.50       24.775         6,100.00       4,971.41       5,845.32       4,971.31       36.40       29.41       -90.00       2.99       -476.51       1,399.80       1,332.67       67.12       20.855         6,300.00       4,972.32       6,045.32       4,971.31       36.44       35.10       -90.00       5.18       -376.45       1,399.79       1,322.67       67.12       20.855         6,400.00       4,971.44       6,245.32       4,970.39       38.39       37.16       -90.00       7.37       -676.45	5,500.00	4,953.8	5,245.50	4,955.04	29.05	21.76	-92.04	-14.45	320.92	1,388.93	1,344.00	44.93	30.914		
5700.00       4.977.81       5.445.32       4.977.71       28.66       23.57       -90.00       -10.13       123.33       1.399.80       1.351.40       48.41       28.917         5.000.00       4.976.90       5.645.32       4.976.80       28.47       24.77       -90.00       -5.76       -7.662       1.399.80       1.346.34       53.46       26.18         6.000.00       4.975.97       5.745.32       4.974.97       28.85       27.72       -90.00       -3.57       -176.59       1.399.80       1.343.30       56.50       24.775         6.100.00       4.975.24       5.945.32       4.973.24       30.60       29.41       -90.00       -3.57       -176.59       1.399.80       1.336.42       63.37       22.088         6.200.00       4.973.24       5.945.32       4.973.14       32.44       31.21       -90.00       5.18       -576.48       1.399.79       1.326.67       67.12       20.855         6.400.00       4.971.41       6.145.32       4.973.31       36.34       35.10       -90.00       5.18       -576.48       1.399.79       1.326.67       67.12       20.855         6.400.00       4.969.86       6.445.32       4.967.64       44.80       46.2 <td< td=""><td>5,600.00</td><td>4,973.0</td><td>5,345.30</td><td>4,974.56</td><td>28.87</td><td>22.56</td><td>-90.41</td><td>-12.32</td><td>223.19</td><td>1,397.05</td><td>1,351.18</td><td>40.47</td><td>30.077</td><td></td><td></td></td<>	5,600.00	4,973.0	5,345.30	4,974.56	28.87	22.56	-90.41	-12.32	223.19	1,397.05	1,351.18	40.47	30.077		
5,800.00       4,976.90       5,843.32       4,976.80       28.47       24.77       -90.00       -7.94       22.33       1,349.80       1,348.05       50.75       27.584         6,000.00       4,975.98       5,845.32       4,975.88       28.30       26.16       -90.00       -5.76       -76.52       1,399.80       1,343.30       56.50       24.775         6,000.00       4,974.15       5,845.32       4,974.05       30.60       29.41       -90.00       -1.38       -276.56       1,399.80       1,343.30       56.50       24.775         6,200.00       4,973.24       5,945.32       4,973.14       32.44       31.21       -90.00       2.99       -476.51       1,399.80       1,336.42       63.37       22.088         6,300.00       4,972.32       6,045.32       4,972.31       36.34       35.10       -90.00       7.18       -376.53       1,399.79       1,332.67       67.12       20.855         6,400.00       4,971.41       6,145.32       4,971.31       36.34       35.10       -90.00       7.18       1,399.79       1,328.76       67.103       19.706         6,500.00       4,976.86       6,445.32       4,968.86       42.62       41.42       -90.00 <td< td=""><td>5,700.00</td><td>4,977.8</td><td>5,445.32</td><td>4,977.71</td><td>28.66</td><td>23.57</td><td>-90.00</td><td>-10.13</td><td>123.33</td><td>1,399.80</td><td>1,351.40</td><td>48.41</td><td>28.917</td><td></td><td></td></td<>	5,700.00	4,977.8	5,445.32	4,977.71	28.66	23.57	-90.00	-10.13	123.33	1,399.80	1,351.40	48.41	28.917		
5,90,000       4,975,98       5,645,32       4,975,88       28,30       20,16       -90,000       -5,76       -7,652       1,398,80       1,346,34       53,46       20,164         6,000,00       4,975,07       5,845,32       4,974,97       28,65       27,72       90,00       -3,57       -176,59       1,398,80       1,334,30       56,50       24,775         6,100,00       4,974,15       5,845,32       4,973,14       32,44       31,21       -90,00       -1,38       -276,56       1,399,80       1,336,42       63,37       22,088         6,300,00       4,972,32       6,045,32       4,971,31       36,34       33,12       -90,00       2,99       -476,51       1,399,79       1,326,76       67.12       20,855         6,400,00       4,971,41       6,145,32       4,971,31       36,34       35,10       -90,00       7,37       -576,45       1,399,79       1,326,76       71.03       19,706         6,600,00       4,965,86       6,445,32       4,966,47       40,48       36,22       -90,00       11,74       -976,42       1,399,79       1,316,25       83,53       16,757         6,600,00       4,966,86       6,445,32       4,966,73       47,01       45,86	5,800.00	4,976.9	5,545.32	4,976.80	28.47	24.77	-90.00	-7.94	23.35	1,399.80	1,349.06	50.75	27.584		
0.00.00       4,973.07       5,745.32       4,974.97       28.65       27.72       -90.00       -1.38       -276.56       1,399.80       1,333.98       59.82       23.400         6,100.00       4,972.32       5,945.32       4,973.14       32.44       31.21       -90.00       2.99       -476.51       1,399.80       1,336.42       63.37       22.085         6,400.00       4,972.32       6,045.32       4,971.31       36.34       55.10       -90.00       2.99       -476.51       1,399.79       1,332.67       67.12       20.855         6,400.00       4,971.41       6,145.32       4,970.39       38.39       37.16       -90.00       7.37       -676.45       1,399.79       1,322.76       71.03       19.706         6,500.00       4,968.58       6,345.32       4,969.47       40.48       39.26       -90.00       7.37       -676.45       1,399.79       1,316.25       83.53       16.757         6,600.00       4,968.56       6,445.32       4,966.56       42.62       41.42       -90.00       11.74       -876.39       1,399.79       1,311.89       78.99       15.926         6,000.00       4,966.84       6,445.32       4,966.73       47.01       45.66 <t< td=""><td>5,900.00</td><td>4,975.9</td><td>5,645.32</td><td>4,975.88</td><td>28.30</td><td>26.16</td><td>-90.00</td><td>-5.76</td><td>-76.62</td><td>1,399.80</td><td>1,346.34</td><td>53.46</td><td>26.184</td><td></td><td></td></t<>	5,900.00	4,975.9	5,645.32	4,975.88	28.30	26.16	-90.00	-5.76	-76.62	1,399.80	1,346.34	53.46	26.184		
6,200.00       4,973.24       5,945.32       4,973.14       32.44       31.21       -90.00       0.81       -376.53       1,399.80       1,336.42       63.37       22.088         6,300.00       4,972.32       6,045.32       4,972.22       34.36       33.12       -90.00       2.99       -476.51       1,399.79       1,326.76       67.12       20.855         6,400.00       4,971.41       6,145.32       4,970.39       38.39       37.16       -90.00       7.37       -676.45       1,399.79       1,326.76       71.03       19.706         6,600.00       4,969.58       6,345.32       4,969.47       40.48       39.26       -90.00       9.56       -776.42       1,399.79       1,316.25       83.53       16.757         6,600.00       4,967.75       6,545.32       4,967.64       44.80       43.62       -90.00       13.93       -976.37       1,399.79       1,316.25       83.53       16.757         6,800.00       4,967.75       6,545.32       4,966.73       47.01       45.86       -90.00       16.12       -1,076.34       1,399.78       1,307.46       92.32       15.162         7,000.00       4,966.84       6,645.32       4,966.31       49.25       48.12	6,100.00	4,975.0	5 5,845.32	4,974.97 4,974.05	28.85 30.60	27.72	-90.00	-3.57 -1.38	-176.59	1,399.80	1,343.30	56.50 59.82	23.400		
6,300.004,972.326,045.324,972.324,3633.12-90.005.18-576.481,399.791,328.7671.0319.7066,000.004,971.416,145.324,971.3136.3435.10-90.005.18-576.481,399.791,328.7671.0319.7066,500.004,970.496,245.324,970.3938.3937.16-90.007.37-676.451,399.791,320.5379.2617.6616,600.004,968.566,345.324,968.5642.6241.42-90.0011.74-876.391,399.791,316.2583.5316.7576,800.004,967.756,545.324,967.6444.8043.62-90.0013.93-976.371,399.791,311.8987.8915.9266,900.004,965.926,745.324,966.7347.0145.86-90.0016.12-1,076.341,399.781,302.9696.8214.4587,000.004,965.926,745.324,965.8149.2548.12-90.0018.31-1,176.311,399.781,302.9696.8214.4587,100.004,965.016,845.324,966.8149.2548.12-90.0022.68-1,376.251,399.781,298.41101.3713.8097,200.004,965.016,845.324,964.9051.5250.41-90.0022.68-1,376.251,399.781,298.41101.3713.2097,200.004,965.187,045.324,963.0756.1155.06-90.00	6 200 00	4 973 2	4 5 945 32	4 973 14	32 44	31 21	-90.00	0.81	-376 53	1 399 80	1 336 42	63 37	22 088		
6,400.004,971.416,145.324,971.3136.3435.10-90.005.18-576.481,399.791,328.7671.0319.7066,500.004,969.496,245.324,970.3938.3937.16-90.007.37-676.451,399.791,324.7075.0918.6426,600.004,969.586,345.324,969.4740.4839.26-90.009.56-776.421,399.791,316.2583.5316.7576,700.004,968.666,445.324,968.5642.6241.42-90.0011.74-876.391,399.791,316.2583.5316.7576,800.004,967.756,545.324,966.7347.0145.86-90.0018.31-1,076.341,399.791,316.2583.5315.9266,900.004,965.926,745.324,966.7347.0145.86-90.0016.12-1,076.341,399.781,302.9696.8214.4587,100.004,965.016,845.324,964.9051.5250.41-90.0020.49-1,276.281,399.781,298.41101.3713.8097,200.004,964.096,945.324,963.9853.8052.73-90.0024.87-1,476.221,399.781,298.41101.3713.2097,300.004,962.267,145.324,962.1558.4457.41-90.0024.87-1,476.221,399.781,298.17110.6112.6557,600.004,961.357,245.324,961.2460.7859.78-90.00<	6.300.00	4.972.3	6.045.32	4.972.22	34.36	33.12	-90.00	2.99	-476.51	1.399.79	1.332.67	67.12	20.855		
6,500.004,970.496,245.324,970.3938.3937.16-90.007.37-676.451,399.791,324.7075.0918.6426,600.004,969.586,345.324,969.4740.4839.26-90.009.56-776.421,399.791,316.2583.5316.7576,700.004,968.666,445.324,968.5642.6241.42-90.0011.74-876.391,399.791,316.2583.5316.7576,800.004,967.756,545.324,966.7344.8043.62-90.0013.93-976.371,399.791,311.8987.8915.9266,900.004,966.846,645.324,966.7347.0145.86-90.0018.31-1,176.311,397.81,302.9696.8214.4587,100.004,965.016,845.324,963.8149.2548.12-90.0022.68-1,376.251,399.781,293.81105.9713.2097,200.004,964.096,945.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,298.41101.3713.8097,200.004,963.187,045.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,298.41101.9713.2097,300.004,961.357,245.324,962.1558.4457.41-90.0024.87-1,476.221,399.781,289.17110.6112.6557,400.004,961.357,245.324,961.2460.7859.78-90.00	6.400.00	4.971.4	1 6.145.32	4.971.31	36.34	35.10	-90.00	5.18	-576.48	1.399.79	1.328.76	71.03	19.706		
6,600.004,969.586,345.324,969.4740.4839.26-90.009.56-776.421,399.791,320.5379.2617.6616,700.004,968.666,445.324,968.5642.6241.42-90.0011.74-876.391,399.791,316.2583.5316.7576,800.004,967.756,545.324,967.6444.8043.62-90.0013.93-976.371,399.791,311.8987.8915.9266,900.004,966.846,645.324,966.7347.0145.86-90.0016.12-1.076.341,399.781,307.4692.3215.1627,000.004,965.926,745.324,966.8149.2548.12-90.0018.31-1,176.311,399.781,202.6696.8214.4587,100.004,965.016,845.324,964.9051.5250.41-90.0022.68-1,376.251,399.781,293.81105.9713.2097,200.004,964.096,945.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,289.17110.6112.6557,400.004,961.357,245.324,963.0756.1155.06-90.0024.87-1,476.201,399.781,289.17110.6112.6557,400.004,961.357,245.324,961.2460.7859.78-90.0024.87-1,476.171,399.781,284.49115.2912.1427,500.004,961.357,245.324,961.2460.7859.78-9	6,500.00	4,970.4	9 6,245.32	4,970.39	38.39	37.16	-90.00	7.37	-676.45	1,399.79	1,324.70	75.09	18.642		
6,700.004,968.666,445.324,968.5642.6241.42-90.0011.74-876.391,399.791,316.2583.5316.7576,800.004,967.756,545.324,967.6444.8043.62-90.0013.93-976.371,399.791,311.8987.8915.9266,900.004,966.846,645.324,966.7347.0145.86-90.0016.12-1,076.341,399.781,307.4692.3215.1627,000.004,965.926,745.324,965.8149.2548.12-90.0018.31-1,176.311,399.781,302.9696.8214.4587,100.004,965.016,845.324,964.9051.5250.41-90.0020.49-1,276.281,399.781,298.41101.3713.8097,200.004,964.096,945.324,963.9853.8052.73-90.0022.68-1,376.251,399.781,298.41101.3713.2097,300.004,964.096,945.324,963.9756.1155.06-90.0024.87-1,476.221,399.781,298.41101.6112.6557,400.004,962.267,145.324,962.1558.4457.41-90.0027.06-1,576.201,399.781,289.17110.6112.6557,600.004,961.357,245.324,961.2460.7859.78-90.0029.24-1,676.171,399.771,279.78120.0011.6657,600.004,961.357,245.324,961.2460.7859.78 <t< td=""><td>6,600.00</td><td>4,969.5</td><td>6,345.32</td><td>4,969.47</td><td>40.48</td><td>39.26</td><td>-90.00</td><td>9.56</td><td>-776.42</td><td>1,399.79</td><td>1,320.53</td><td>79.26</td><td>17.661</td><td></td><td></td></t<>	6,600.00	4,969.5	6,345.32	4,969.47	40.48	39.26	-90.00	9.56	-776.42	1,399.79	1,320.53	79.26	17.661		
6,800.00       4,967.75       6,545.32       4,967.64       44.80       43.62       -90.00       13.93       -976.37       1,399.79       1,311.89       87.89       15.926         6,900.00       4,966.84       6,645.32       4,966.73       47.01       45.86       -90.00       16.12       -1,076.34       1,399.78       1,307.46       92.32       15.162         7,000.00       4,965.92       6,745.32       4,966.81       49.25       48.12       -90.00       18.31       -1,176.31       1,399.78       1,302.96       96.82       14.458         7,100.00       4,965.01       6,845.32       4,964.90       51.52       50.41       -90.00       22.68       -1,376.25       1,399.78       1,298.41       101.37       13.809         7,200.00       4,964.09       6,945.32       4,963.98       53.80       52.73       -90.00       24.87       -1,476.22       1,399.78       1,298.41       101.37       13.209         7,300.00       4,963.18       7,045.32       4,963.17       56.61       55.06       -90.00       24.87       -1,476.22       1,399.78       1,289.17       110.61       12.655         7,400.00       4,962.26       7,145.32       4,961.75       58.44       5	6,700.00	4,968.6	6 6,445.32	4,968.56	42.62	41.42	-90.00	11.74	-876.39	1,399.79	1,316.25	83.53	16.757		
6,900.004,966.846,645.324,966.7347.0145.86-90.0016.12-1,076.341,399.781,307.4692.3215.1627,000.004,965.926,745.324,965.8149.2548.12-90.0018.31-1,176.311,399.781,302.9696.8214.4587,100.004,965.016,845.324,964.9051.5250.41-90.0020.49-1,276.281,399.781,298.41101.3713.8097,200.004,964.096,945.324,963.9853.8052.73-90.0022.68-1,376.251,399.781,298.41105.9713.2097,300.004,963.187,045.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,289.17110.6112.6557,400.004,961.357,245.324,961.2460.7859.78-90.0027.06-1,576.171,399.781,289.17110.6112.6557,600.004,961.357,245.324,960.3263.1362.16-90.0029.24-1,676.171,399.781,279.78120.0011.6657,600.004,960.437,345.324,960.3263.1362.16-90.0031.43-1,776.141,399.771,279.78120.0011.6657,600.004,960.437,345.324,960.3263.1362.16-90.0031.43-1,776.141,399.771,275.03124.7411.222	6,800.00	4,967.7	6,545.32	4,967.64	44.80	43.62	-90.00	13.93	-976.37	1,399.79	1,311.89	87.89	15.926		
7,000.004,965.926,745.324,965.8149.2548.12-90.0018.31-1,176.311,399.781,302.9696.8214.4587,100.004,965.016,845.324,964.9051.5250.41-90.0020.49-1,276.281,399.781,298.41101.3713.8097,200.004,964.096,945.324,963.9853.8052.73-90.0022.68-1,376.251,399.781,293.81105.9713.2097,300.004,963.187,045.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,289.17110.6112.6557,400.004,962.267,145.324,962.1558.4457.41-90.0027.06-1,576.201,399.781,284.49115.2912.1427,500.004,960.437,345.324,960.3263.1362.16-90.0029.24-1,676.171,399.771,279.78120.0011.6657,600.004,960.437,345.324,960.3263.1362.16-90.0031.43-1,776.141,399.771,275.03124.7411.222	6,900.00	4,966.8	6,645.32	4,966.73	47.01	45.86	-90.00	16.12	-1,076.34	1,399.78	1,307.46	92.32	15.162		
7,100.00       4,965.01       6,845.32       4,964.90       51.52       50.41       -90.00       20.49       -1,276.28       1,399.78       1,298.41       101.37       13.809         7,200.00       4,964.09       6,945.32       4,963.98       53.80       52.73       -90.00       22.68       -1,376.25       1,399.78       1,293.81       105.97       13.209         7,300.00       4,963.18       7,045.32       4,963.07       56.11       55.06       -90.00       24.87       -1,476.22       1,399.78       1,289.17       110.61       12.655         7,400.00       4,962.26       7,145.32       4,962.15       58.44       57.41       -90.00       27.06       -1,576.20       1,399.78       1,284.49       115.29       12.142         7,500.00       4,961.35       7,245.32       4,962.15       58.44       57.41       -90.00       29.24       -1,676.17       1,399.77       1,279.78       120.00       11.665         7,500.00       4,960.43       7,345.32       4,960.32       63.13       62.16       -90.00       31.43       -1,776.14       1,399.77       1,275.03       124.74       11.222	7,000.00	4,965.9	6,745.32	4,965.81	49.25	48.12	-90.00	18.31	-1,176.31	1,399.78	1,302.96	96.82	14.458		
7,200.004,964.096,945.324,963.9853.8052.73-90.0022.68-1,376.251,399.781,293.81105.9713.2097,300.004,963.187,045.324,963.0756.1155.06-90.0024.87-1,476.221,399.781,289.17110.6112.6557,400.004,962.267,145.324,962.1558.4457.41-90.0027.06-1,576.201,399.781,284.49115.2912.1427,500.004,961.357,245.324,961.2460.7859.78-90.0029.24-1,676.171,399.771,279.78120.0011.6657,600.004,960.437,345.324,960.3263.1362.16-90.0031.43-1,776.141,399.771,275.03124.7411.222	7,100.00	4,965.0	6,845.32	4,964.90	51.52	50.41	-90.00	20.49	-1,276.28	1,399.78	1,298.41	101.37	13.809		
7,300.00       4,963.18       7,045.32       4,963.07       56.11       55.06       -90.00       24.87       -1,476.22       1,399.78       1,289.17       110.61       12.655         7,400.00       4,962.26       7,145.32       4,962.15       58.44       57.41       -90.00       27.06       -1,576.20       1,399.78       1,284.49       115.29       12.142         7,500.00       4,961.35       7,245.32       4,961.24       60.78       59.78       -90.00       29.24       -1,676.17       1,399.77       1,279.78       120.00       11.665         7,600.00       4,960.43       7,345.32       4,960.32       63.13       62.16       -90.00       31.43       -1,776.14       1,399.77       1,279.78       120.00       11.665	7,200.00	4,964.0	6,945.32	4,963.98	53.80	52.73	-90.00	22.68	-1,376.25	1,399.78	1,293.81	105.97	13.209		
7,400.00       4,962.20       7,145.32       4,962.15       58.44       57.41       -90.00       27.06       -1,576.20       1,399.78       1,284.49       115.29       12.142         7,500.00       4,961.35       7,245.32       4,961.24       60.78       59.78       -90.00       29.24       -1,676.17       1,399.77       1,279.78       120.00       11.665         7,600.00       4,960.43       7,345.32       4,960.32       63.13       62.16       -90.00       31.43       -1,776.14       1,399.77       1,275.03       124.74       11.222	7,300.00	4,963.1	8 7,045.32	4,963.07	56.11	55.06	-90.00	24.87	-1,476.22	1,399.78	1,289.17	110.61	12.655		
7,500.00 4,960.43 7,345.32 4,960.32 63.13 62.16 -90.00 29.24 -1,676.17 1,399.77 1,275.03 124.74 11.222	7,400.00	4,962.2	7,145.32	4,962.15	58.44	57.41	-90.00	27.06	-1,576.20	1,399.78	1,284.49	115.29	12.142		
r,000,00 - 1,000,00 - 1,000,02 - 1,000,02 - 1,000,00 - 1,000 - 1,000,000,00 - 1,000,000,000,00 - 1,000,000,000,000,000,000,000,00	7,500.00	4,961.3	00 7,245.32	4,961.24	60.78 63.12	59.78 62.16	-90.00	29.24	-1,0/6.1/	1,399.77	1,275.02	120.00	11.005		
	7 700.00	4,000.4		4,000.02	05.15	02.10	-20.00	00.00	1 070 44	1,000.11	1,210.00	124.74	10.000		

3/29/2022 1:03:33PM

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





ft

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Reference Site:	S Escavada Unit 343 H pd (343 & 344)	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Feb2822
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Offset Des	sign: S	Escavada U	Init 343 H	pd (343 & 3	44) - SE	scavada Un	it 344H - Origi	nal Hole - re	ev0				Offset Site Error:	0.00
Survey Progr Refer	am: 0 rence	-MWD Off	set	Semi M	lajor Axis		Offset Wellb	ore Centre	Dis	Rule Assi tance	gned:		Offset Well Error:	0.00
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	±N/-S	+E/_W/	Between	Between	Minimum	Separation	Warning	
Depth (ff)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	loolface (°)	(ft)	(ft)	Centres (ff)	Ellipses (ft)	Separation (ff)	Factor		
7 800 00	4 958 60	7 545 32	4 958 49	67.88	66.96	-90.00	35.81	-1 976 08	1 300 77	1 265 48	134.29	10.423		
7,000.00	4,550.00	7 645 32	4,350.43	70.27	60.30	-90.00	37.00	-2.076.06	1,333.77	1,200.40	139.10	10.063		
8 000 00	4,007.00	7 745 32	4,056.66	70.27	71 70	-90.00	40.18	-2,070.00	1,333.77	1 255 83	1/3 03	0.725		
0,000.00 0 100 00	4,950.77	7 945 22	4,950.00	72.07	74.22	-90.00	40.18	-2,170.03	1,399.77	1,255.05	143.93	9.725		
8 200 00	4,955.00	7,045.32	4,955.74	75.08	76.66	-90.00	42.37	-2,270.00	1,399.70	1,230.99	140.70	9.409		
8 300 00	4,954.94	8 045 32	4,954.05	70.02	70.00	-90.00	44.50	-2,375.97	1,399.70	1 2/1 25	158 51	9.111		
0,000.00	4,004.00	0,040.02	4,355.31	10.02	75.10	-30.00	40.74	-2,475.54	1,555.70	1,241.20	150.51	0.001		
8,400.00	4,953.11	8,145.32	4,953.00	82.35	81.55	-90.00	48.93	-2,575.92	1,399.76	1,236.36	163.40	8.567		
8,500.00	4,952.20	8,245.32	4,952.08	84.79	84.01	-90.00	51.12	-2,675.89	1,399.76	1,231.46	168.29	8.317		
8,600.00	4,951.28	8,345.32	4,951.17	87.23	86.47	-90.00	53.31	-2,775.86	1,399.75	1,226.55	173.20	8.082		
8,700.00	4,950.37	8,445.32	4,950.25	89.68	88.93	-90.00	55.50	-2,875.83	1,399.75	1,221.63	178.12	7.858		
8,800.00	4,949.45	8,545.32	4,949.33	92.13	91.40	-90.00	57.68	-2,975.80	1,399.75	1,216.70	183.05	7.647		
8,900.00	4,948.54	8,645.32	4,948.42	94.59	93.88	-90.00	59.87	-3,075.77	1,399.75	1,211.77	187.98	7.446		
9,000.00	4,947.63	8,745.32	4,947.50	97.05	96.35	-90.00	62.06	-3,175.75	1,399.75	1,206.82	192.93	7.255		
9,100.00	4,946.71	8,845.32	4,946.59	99.51	98.83	-90.00	64.25	-3,275.72	1,399.75	1,201.87	197.88	7.074		
9,200.00	4,945.80	8,945.32	4,945.67	101.98	101.31	-89.99	66.43	-3,375.69	1,399.74	1,196.91	202.83	6.901		
9,300.00	4,944.88	9,045.32	4,944.76	104.45	103.80	-89.99	68.62	-3,475.66	1,399.74	1,191.95	207.79	6.736		
9,400.00	4,943.97	9,145.32	4,943.84	106.93	106.29	-89.99	70.81	-3,575.63	1,399.74	1,186.98	212.76	6.579		
9,500.00	4,943.05	9,245.32	4,942.93	109.40	108.78	-89.99	73.00	-3,675.61	1,399.74	1,182.01	217.73	6.429		
9,600.00	4,942.14	9,345.32	4,942.01	111.88	111.27	-89.99	75.18	-3,775.58	1,399.74	1,177.03	222.71	6.285		
9,700.00	4,941.22	9,445.32	4,941.10	114.37	113.76	-89.99	77.37	-3,875.55	1,399.74	1,172.04	227.69	6.147		
9,800.00	4,940.31	9,545.32	4,940.18	116.85	116.26	-89.99	79.56	-3,975.52	1,399.73	1,167.05	232.68	6.016		
0 000 00	1 030 30	0 645 32	1 030 27	110 3/	118 76	-80.00	81 75	-1 075 49	1 300 73	1 162 06	237.67	5 880		
10 000 00	4,000.00	9 745 32	4,000.27	121.83	121.26	-89.99	83.93	-4,075.49	1,333.73	1,102.00	242.66	5 768		
10,000.00	4,000.40	0.845.32	4,000.00	121.00	123.76	-80.00	86.12	-4 275 44	1 300 73	1,152.07	247.66	5 652		
10,100.00	4 936 65	9 945 32	4 936 52	126.81	126.76	-89.99	88 31	-4 375 41	1 300 73	1 147 06	252.66	5 540		
10,200.00	4,000.00	10 045 32	4 935 60	120.01	128.20	-89.99	90.50	-4 475 38	1 300 73	1 142 06	257.67	5 432		
10,000.00	4,000.10	10,040.02	4,000.00	120.01	120.11	-00.00	50.00	-1,470.00	1,000.70	1,142.00	201.01	0.402		
10,400.00	4,934.82	10,145.32	4,934.69	131.80	131.28	-89.99	92.68	-4,575.35	1,399.72	1,137.05	262.67	5.329		
10,500.00	4,933.90	10,245.32	4,933.77	134.30	133.78	-89.99	94.87	-4,675.33	1,399.72	1,132.04	267.68	5.229		
10,600.00	4,932.99	10,345.32	4,932.86	136.80	136.29	-89.99	97.06	-4,775.30	1,399.72	1,127.02	272.70	5.133		
10,700.00	4,932.07	10,445.32	4,931.94	139.30	138.80	-89.99	99.25	-4,875.27	1,399.72	1,122.01	277.71	5.040		
10,800.00	4,931.16	10,545.32	4,931.03	141.80	141.31	-89.99	101.43	-4,975.24	1,399.72	1,116.99	282.73	4.951		
10,900.00	4,930.24	10,645.32	4,930.11	144.31	143.82	-89.99	103.62	-5,075.21	1,399.72	1,111.97	287.75	4.864		
11,000.00	4,929.33	10,745.32	4,929.20	146.81	146.34	-89.99	105.81	-5,175.18	1,399.71	1,106.94	292.77	4.781		
11,100.00	4,928.42	10,845.32	4,928.28	149.32	148.85	-89.99	108.00	-5,275.16	1,399.71	1,101.92	297.79	4.700		
11,200.00	4,927.50	10,945.32	4,927.36	151.82	151.37	-89.99	110.18	-5,375.13	1,399.71	1,096.89	302.82	4.622		
11,300.00	4,926.59	11,045.32	4,926.45	154.33	153.88	-89.99	112.37	-5,475.10	1,399.71	1,091.86	307.85	4.547		
11 400 00	4 005 67	11 145 22	4 005 50	150.04	156 40	80.00	114 50	E E7E 07	1 200 71	1 006 00	242.97	4 474		
11,400.00	4,923.07	11,145.32	4,920.00	150.64	150.40	-09.99	114.00	-5,575.07	1,399.71	1,000.00	312.07	4.474		
11,500.00	4,924.70	11 245.32	4,924.02	161.96	161 42	-09.99	110.75	5,075.04	1,399.71	1,001.00	222.04	4.403		
11,000.00	4,923.04	11,345.32	4,923.70	164.27	162.05	-09.99	10.95	-5,775.02	1,399.70	1,070.77	322.94	4.334		
11,700.00	4,922.93	11,445.32	4,922.79	164.37	103.95	-09.99	121.12	-5,674.99	1,399.70	1,071.75	327.97	4.200		
11,000.00	4,922.01	11,545.52	4,921.07	100.09	100.47	-09.99	123.31	-5,974.90	1,399.70	1,000.09	333.01	4.203		
11.900.00	4.921.10	11.645.32	4.920.96	169.40	168.99	-89.99	125.50	-6.074.93	1.399.70	1.061.66	338.04	4.141		
12.000.00	4.920.18	11.745.32	4.920.04	171.91	171.51	-89.99	127.68	-6.174.90	1.399.70	1.056.62	343.08	4.080		
12,100.00	4,919.27	11,845.32	4,919.13	174.43	174.03	-89.99	129.87	-6,274.88	1,399.69	1,051.58	348.12	4.021		
12,200.00	4,918.35	11,945.32	4,918.21	176.95	176.55	-89.99	132.06	-6,374.85	1,399.69	1,046.53	353.16	3.963		
12,300.00	4,917.44	12,045.32	4,917.29	179.46	179.08	-89.99	134.25	-6,474.82	1,399.69	1,041.49	358.20	3.908		
12,400.00	4,916.52	12,145.32	4,916.38	181.98	181.60	-89.99	136.43	-6,574.79	1,399.69	1,036.45	363.24	3.853		
12,500.00	4,915.61	12,245.32	4,915.46	184.50	184.12	-89.99	138.62	-6,674.76	1,399.69	1,031.40	368.28	3.801		
12,600.00	4,914.69	12,345.32	4,914.55	187.01	186.64	-89.99	140.81	-6,774.73	1,399.69	1,026.36	373.33	3.749		
12,700.00	4,913.78	12,445.32	4,913.63	189.53	189.17	-89.99	143.00	-6,874.71	1,399.68	1,021.31	378.37	3.699		
12,800.00	4,912.86	12,545.32	4,912.72	192.05	191.69	-89.99	145.18	-6,974.68	1,399.68	1,016.26	383.42	3.651		

3/29/2022 1:03:33PM

4,911.95

12,900.00

147.37

-7,074.65

1,399.68

1,011.21

388.47

3.603

12,645.32

4,911.80

194.57

194.22

-89.99





Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Reference Site:	S Escavada Unit 343 H pd (343 & 344)	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Feb2822
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

	Offeet Dec	sian S	S Escavada Unit 343 H pd (343 & 344) - S Escavada Unit 344H - Original Hole - rev0												
	Unset Des	sigii.								Offset Site Error:	0.00 ft				
Survey Program: 0-MWD			inat	Somil	laior Avia		Offeet Wellberg Centre		Rule Assigned:				Offset Well Error:	0.00 ft	
	Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Unset Wend		Between	Between	Minimum	Separation	Warning	
	Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	(ft)	+E/-VV (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
	13,000.00	4,911.03	12,745.32	4,910.89	197.09	196.74	-89.99	149.56	-7,174.62	1,399.68	1,006.16	393.52	3.557		
	13,100.00	4,910.12	12,845.32	4,909.97	199.61	199.27	-89.99	151.75	-7,274.59	1,399.68	1,001.11	398.56	3.512		
	13,200.00	4,909.21	12,945.32	4,909.06	202.14	201.79	-89.99	153.93	-7,374.57	1,399.68	996.06	403.61	3.468		
	13,300.00	4,908.29	13,045.32	4,908.14	204.66	204.32	-89.99	156.12	-7,474.54	1,399.67	991.01	408.66	3.425		
	13,314.41	4,908.16	13,059.74	4,908.01	205.02	204.69	-89.99	156.44	-7,488.95	1,399.67	990.28	409.39	3.419		
	13,331.74	4,908.00	13,060.68	4,908.00	205.46	204.71	-89.99	156.46	-7,489.89	1,399.77	990.12	409.65	3.417		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation 3/29/2022 1:03:33PM



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Reference Site:	S Escavada Unit 343 H pd (343 & 344)	MD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Feb2822
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6917+28 @ 6945.00ft (Ensign 7 Offset Depths are relative to Offset Datum Central Meridian is -107.833333333 Coordinates are relative to: S Escavada Unit 343H Coordinate System is US State Plane 1983, New Mexico Western Zone Grid Convergence at Surface is: 0.17°



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

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Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 343H
Project:	Sandoval County, New Mexico NAD83 NM W	TVD Reference:	RKB=6917+28 @ 6945.00ft (Ensign 773)
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Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	S Escavada Unit 343H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
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CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

#### District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

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CONDITIONS

Action 325967

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	325967
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	4/18/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	4/18/2024
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	4/18/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	4/18/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	4/18/2024
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	4/18/2024