

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

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No. 30-043-21516
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 03/22/2024

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 well, 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 directionally 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 well 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 will 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 connects this information to an 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 Connection 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 / 668 FSL / 2359 FWL / TWSP: 22N / RANGE: 07W / SECTION: 14 / LAT: 36.133708 / LONG: -107.545838 (TVD: 0 feet, MD: 0 feet)
PPP: SESW / 683 FSL / 2515 FWL / TWSP: 22N / RANGE: 07W / SECTION: 14 / LAT: 36.133732 / LONG: -107.545312 (TVD: 4978 feet, MD: 5414 feet)
PPP: SESW / 711 FSL / 2616 FWL / TWSP: 22N / RANGE: 07W / SECTION: 15 / LAT: 36.134081 / LONG: -107.562681 (TVD: 4978 feet, MD: 13061 feet)
PPP: SESE / 729 FSL / 0 FEL / TWSP: 22N / RANGE: 07W / SECTION: 15 / LAT: 36.133903 / LONG: -107.553821 (TVD: 4978 feet, MD: 13061 feet)
BHL: SWSW / 715 FSL / 100 FWL / TWSP: 22N / RANGE: 07W / SECTION: 15 / LAT: 36.134251 / LONG: -107.5712 (TVD: 4908 feet, MD: 13061 feet)

BLM Point of Contact

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

CONFIDENTIAL

1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170District 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 DepartmentForm **Page 4 of 46**
Revised August 1, 2011Submit one copy to
Appropriate District Office**OIL CONSERVATION DIVISION**
1220 South St. Francis Drive
Santa Fe, NM 87505☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-043-21516	² Pool Code 52860	³ Pool Name RUSTY GALLUP OIL POOL
⁴ Property Code 322151	⁵ Property Name S ESCAVADA UNIT	⁶ Well Number 344H
⁷ GRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC	⁹ Elevation 6917'

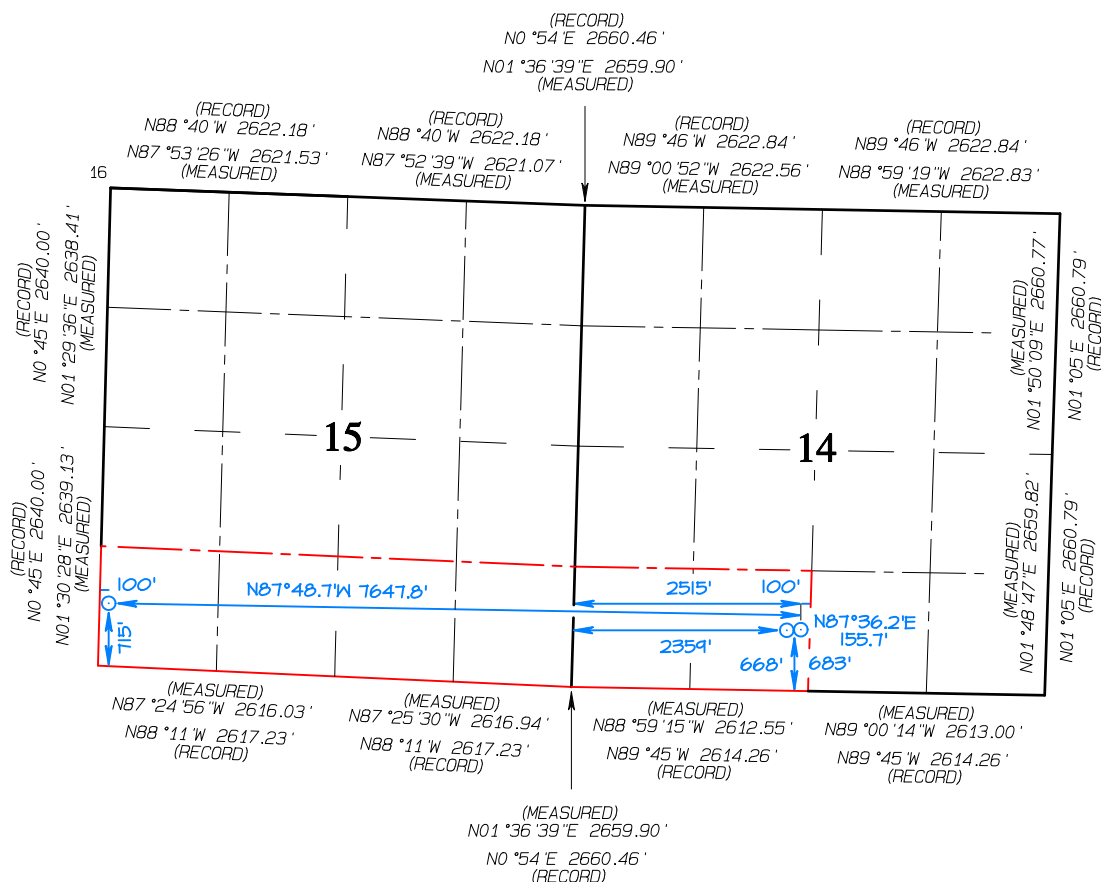
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	14	22N	7W		668	SOUTH	2359	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	22N	7W		715	SOUTH	100	WEST	SANDOVAL

¹² Dedicated Acres 240.00	S/2 SW/4 - Section 14 S/2 S/2 - Section 15	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-14347
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NO ALLOWABLE WILL BE ASSIGNED
TO THIS COMPLETION UNTIL ALL
INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS
BEEN APPROVED BY THE DIVISION¹⁷ OPERATOR CERTIFICATION

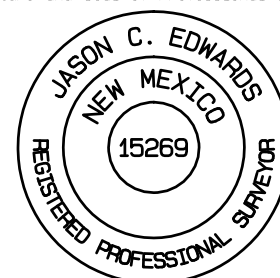
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this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

Signature Shaw-Marie Ford Date 2/2/24Printed Name Shaw-Marie FordE-mail Address sford@djrlc.com¹⁸ SURVEYOR CERTIFICATION

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

Date Revised: JULY 28, 2023
Date of Survey: AUGUST 25, 2021

Signature and Seal of Professional Surveyor

**JASON C. EDWARDS**

Certificate Number 15269

LAST TAKE POINT
715' FSL 100' FWL
SEC 15, T22N, R7WLAT 36.134251°N
LONG -107.571200°W
DATUM: NAD1983SURFACE LOCATION
668' FSL 2359' FWL
SEC 14, T22N, R7WLAT 36.133708°N
LONG -107.545838°W
DATUM: NAD1983FIRST TAKE POINT
683' FSL 2515' FWL
SEC 14, T22N, R7WLAT 36.133732°N
LONG -107.545312°W
DATUM: NAD1983

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

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 52860		³ Pool Name RUSTY GALLUP OIL POOL	
⁴ Property Code		⁵ Property Name S ESCAVADA UNIT			⁶ Well Number 344H
⁷ GRID No. 372286		⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6917 '

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	14	22N	7W		668	SOUTH	2359	WEST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	22N	7W		715	SOUTH	100	WEST	SANDOVAL

¹² Dedicated Acres	S/2 SW/4 - Section 14	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
240.00	S/2 S/2 - Section 15			R-14347

LAST TAKE POINT
715' FSL 100' FWL
SEC 15, T22N, R7W

LAT 36.134251°N
LONG -107.571200°W
DATUM: NAD1983

SURFACE LOCATION
668' FSL 2359' FWL
SEC 14, T22N, R7W

LAT 36.133708 °N
LONG -107.545838 °W
DATUM: NAD1983

FIRST TAKE POINT
683' FSL 2515' FWL
SEC 14, T22N, R7W

LAT 36.133732 °N
LONG -107.545312 °W
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

17 OPERATOR CERTIFICATION

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

Shaw-Marie Ford 2/2/24
Signature Date

Shaw-Marie Ford

Printed Name

sford@djrlc.com

E-mail Address

18 SURVEYOR CERTIFICATION

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

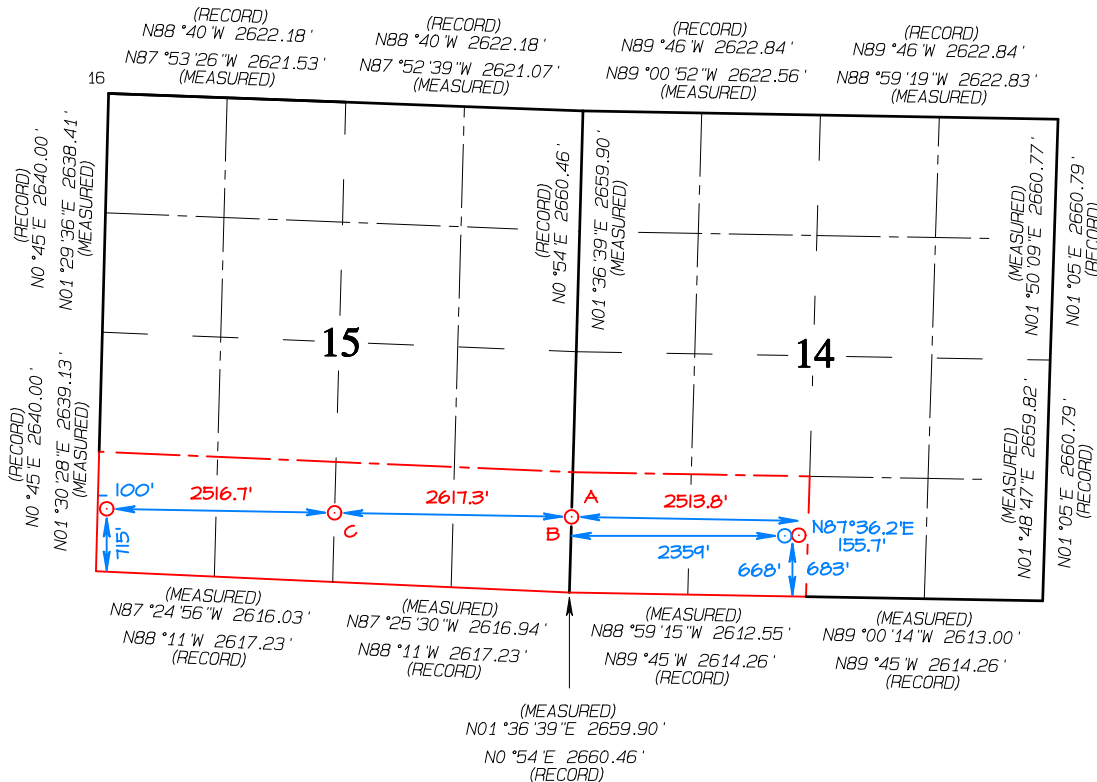
Date Revised: JULY 28, 2023
Date of Survey: AUGUST 25, 2021

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number	15269
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LEASE X-ING (C)
711' FSL 2616' FWL
SEC 15, T22N, R7W

LEASE X-ING (B)
729' FSL 0' FEL
SEC 15, T22N, R7W

LEASE X-ING (A)
729' FSL 0' FWL
SEC 14, T22N, R7W

LAT 36.134081°N
LONG -107.562681°W
DATUM: NAD1983

LAT 36.133903 °N
LONG -107.553821 °W
DATUM: NAD1983

LAT 36.133903 °N
LONG -107.553821 °W
DATUM: NAD1983

State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

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

Section 1 – Plan Description
Effective May 25, 2021**I. Operator:** Enduring Resources, LLC OGRID: 372286 **Date:** 03 / 22 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
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 Name: South Escavada CDP [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
S Escavada Unit 343H	TBD	4/15/2024	6/11/2024	9/12/2024	9/15/2024	9/27/2024
S Escavada Unit 344H	TBD	4/16/2024	6/12/2024	9/12/2024	9/15/2024	9/27/2024

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 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:



ENDURING RESOURCES, LLC
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
S Escavada Unit 343H and 344H
SESW N-14-22N-07W

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.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.



ENDURING RESOURCES, LLC
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
S Escavada Unit 343H and 344H
SESW N-14-22N-07W

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
 - 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.



ENDURING RESOURCES, LLC
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
S Escavada Unit 343H and 344H
SESW N-14-22N-07W

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:



ENDURING RESOURCES, LLC
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
S Escavada Unit 343H and 344H
SESW N-14-22N-07W

- a. Enduring does not vent after the well achieves a stabilized rate and pressure.
 - b. Enduring will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. Enduring will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:
- a. Enduring receives approval from the NMOCD.
 - b. Enduring remains in compliance with the NM gas capture requirements.
 - c. Enduring submits an updated C-129 form to the NMOCD.
4. During the following activities unless prohibited:
- a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it is designed with an auto ignition system.



ENDURING RESOURCES, LLC
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NATURAL GAS MANAGEMENT PLAN
S Escavada Unit 343H and 344H
SESW N-14-22N-07W

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.



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6. Enduring will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. Enduring will install measuring equipment whenever the NMOCD determines that metering is necessary.

BEST MANAGEMENT PRACTICES

Enduring 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 344H

State: New Mexico

County: Sandoval

Surface Elevation: 6,917 ft ASL (GL) 6,945 ft ASL (KB)
Surface Location: 14-22N-7 Sec-Twn-Rng 668 ft FSL 2,359 ft FWL
 36.133708 ° N latitude 107.545838 ° W longitude (NAD 83)
BH Location: 15-22N-7 Sec-Twn-Rng 715 ft FSL 100 ft FWL
 36.134251 ° N latitude 107.571200 ° 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:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / 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	1,355	G, W	sub
	Lewis	5,442	1,500	1,501	G, W	normal
	Chacra	5,197	1,745	1,753	G, W	normal
	Cliff House	4,112	2,830	2,882	G, W	sub
	Menefee	4,069	2,873	2,927	G, W	normal
	Point Lookout	3,177	3,765	3,856	G, W	normal
	Mancos	3,037	3,905	4,000	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,707	4,235	4,333	O,G	sub (~0.38)
	MNCS_B	2,582	4,360	4,458	O,G	sub (~0.38)
	MNCS_C	2,492	4,450	4,548	O,G	sub (~0.38)
	MNCS_Cms	2,457	4,485	4,583	O,G	sub (~0.38)
	MNCS_D	2,322	4,620	4,724	O,G	sub (~0.38)
	MNCS_E	2,179	4,763	4,891	O,G	sub (~0.38)
	MNCS_F	2,132	4,810	4,955	O,G	sub (~0.38)
	MNCS_G	2,057	4,885	5,077	O,G	sub (~0.38)
	MNCS_H	1,997	4,945	5,213	O,G	sub (~0.38)
	MNCS_I	0	NA	0	O,G	sub (~0.38)
	FTP TARGET	1,964	4,978	5,414	O,G	sub (~0.38)
	PROJECTED LTP	2,034	4,908	13,061	O,G	sub (~0.38)

Surface: Nacimiento

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

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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,150 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,060 psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

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

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

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

DRILLING RIG INFORMATION:

Contractor: Aztec

Rig No.: 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 25

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

1) Rig will be equipped with upper and lower kelly cocks with handles available.

2)

Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.

2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.

5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

Pumps shall be equipped with stroke counters with displays in the dog-house. Slow pump speed shall be recorded daily and after mudding up, at a minimum, on the drilling report. A Pit Volume Totalizer will be installed and the readout will be displayed in the dog-house. Gas-detecting equipment will be installed at the shakers, and readouts will be available in the dog-house and the in the geologist's work-station (if geologist or mud-logger is on-site).

Closed-Loop System: A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to minimize the amount of fluids and solids that require disposal.

Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

Fluid Program: See "Detailed Drilling Plan" section for additional details. Sufficient barite will be on location to weight up mud system to balance maximum anticipated pressure gradient.

DETAILED DRILLING PLAN:

SURFACE: Drill vertically to casing setting depth (plus necessary rathole), run casing, cement casing to surface.

0 ft (MD)	to	350 ft (MD)	Hole Section Length:	350 ft
0 ft (TVD)	to	350 ft (TVD)	Casing Required:	350 ft

Note: Surface hole may be drilled, cased, and cemented with a smaller rig in advance of the drilling rig.

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spud mud

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	655	116,634	116,634
Min. S.F.					7.39	4.17	7.31	7.79

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

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

intermediate hole and 8.4 ppg equivalent external pressure gradient

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

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

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

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

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

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

350 ft (MD)	to	3,083 ft (MD)	Hole Section Length:	2,733 ft
350 ft (TVD)	to	3,023 ft (TVD)	Casing Required:	3,083 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (5% KCl)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No OBM

Hole Size: 12-1/4"

Bit / Motor: 12-1/4" PDC bit w/mud motor

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,320	1,233	194,903	194,903
Min. S.F.					1.53	2.86	2.89	2.32

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

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Spacer	D-Mud Breaker	8.5				0	10 bbls	
	90:10 Type							
Lead	III:POZ	12.5	2.140	12.05	70%	0	615	1,316
Tail	Type III	14.6	1.380	6.64	20%	2,583	150	207
Displacement	235	est bbls						

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

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

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

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

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

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

3,083 ft (MD)	to	13,061 ft (MD)	Hole Section Length:	9,978 ft
3,023 ft (TVD)	to	4,908 ft (TVD)	Casing Required:	13,061 ft

Estimated KOP:	4,500 ft (MD)	4,402 ft (TVD)
Estimated Landing Point (FTP):	5,414 ft (MD)	4,978 ft (TVD)
Estimated Lateral Length:	7,647 ft (MD)	

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

Hole Size: 8-1/2"

Bit / Motor: 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

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,425	8,959	291,598	291,598
Min. S.F.					3.08	1.19	1.87	1.53

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Lead	ASTM type I/II	12.4	2.370	13.40	50%	0	483	1,145
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,000	1,462	2,296

Displacement 287 est bbls

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

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

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

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 7,547
Est Frac Inform: 31 Frac Stages 121,000 bbls slick water 9,820,000 lbs proppant
Flowback: Flow back through production tubing as pressures allow
Production: Produce through production tubing via gas-lift into permanent production and storage facilities

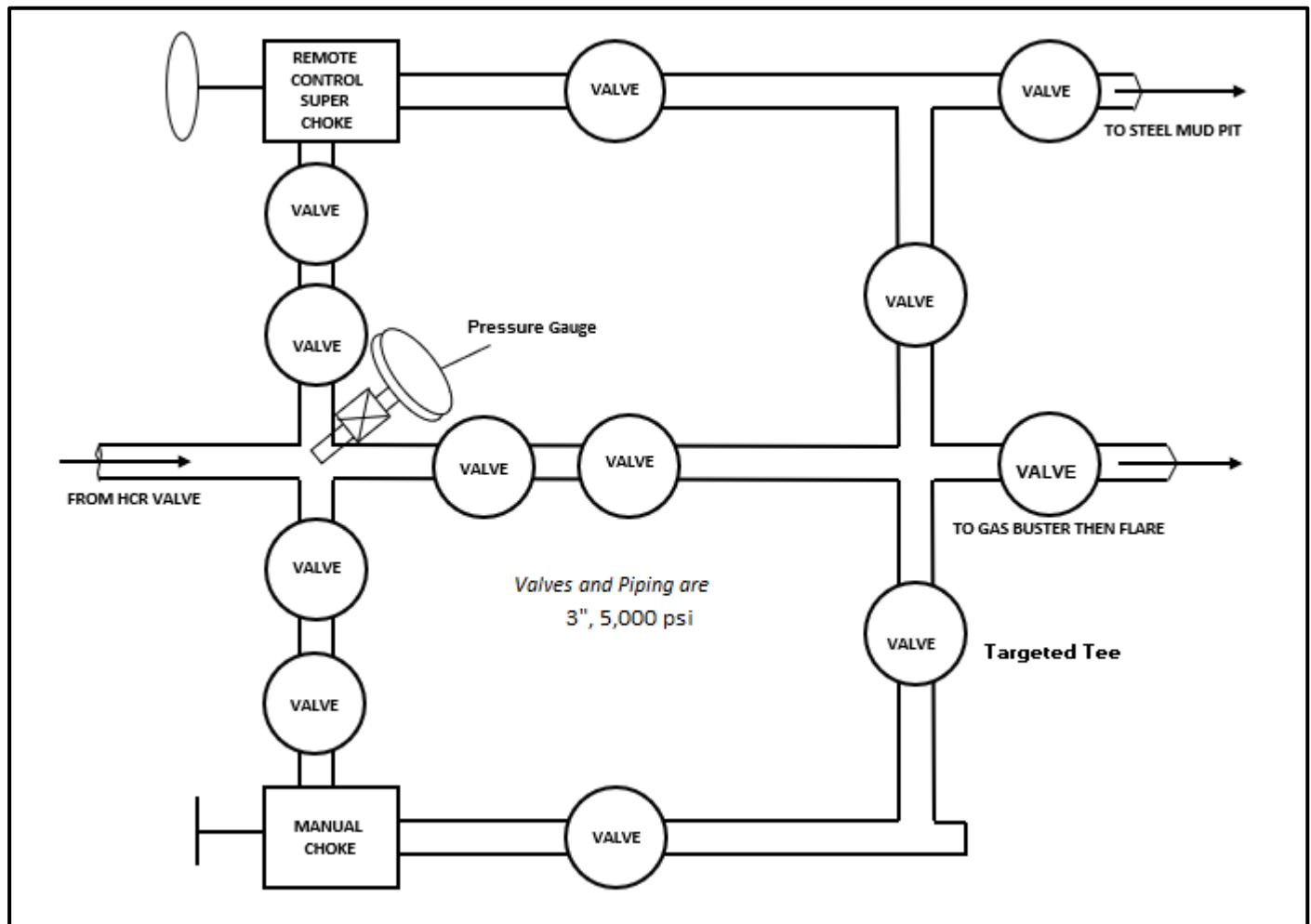
ESTIMATED START DATES:

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

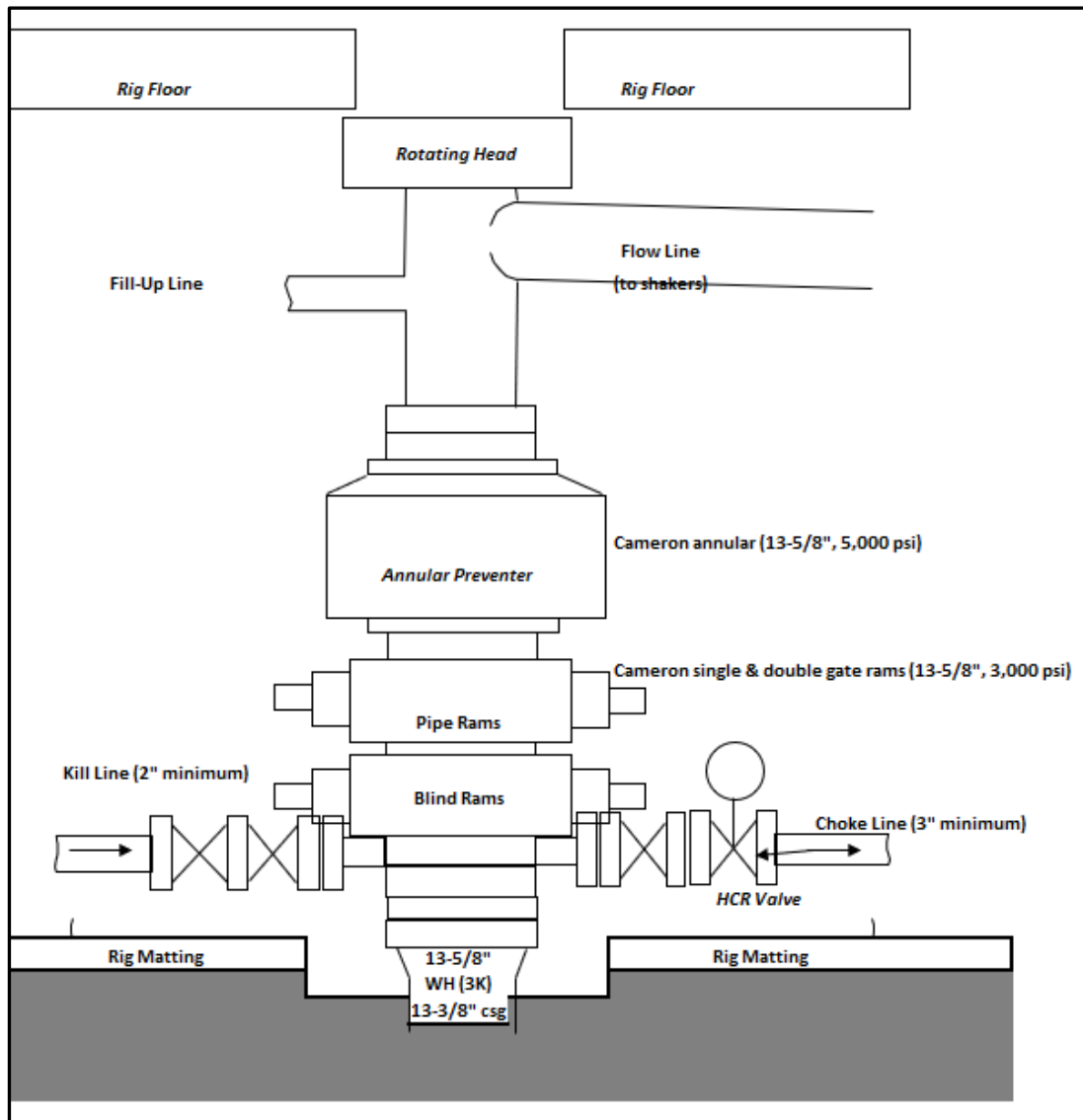


Enduring Resources IV, LLC CHOKE MANIFOLD



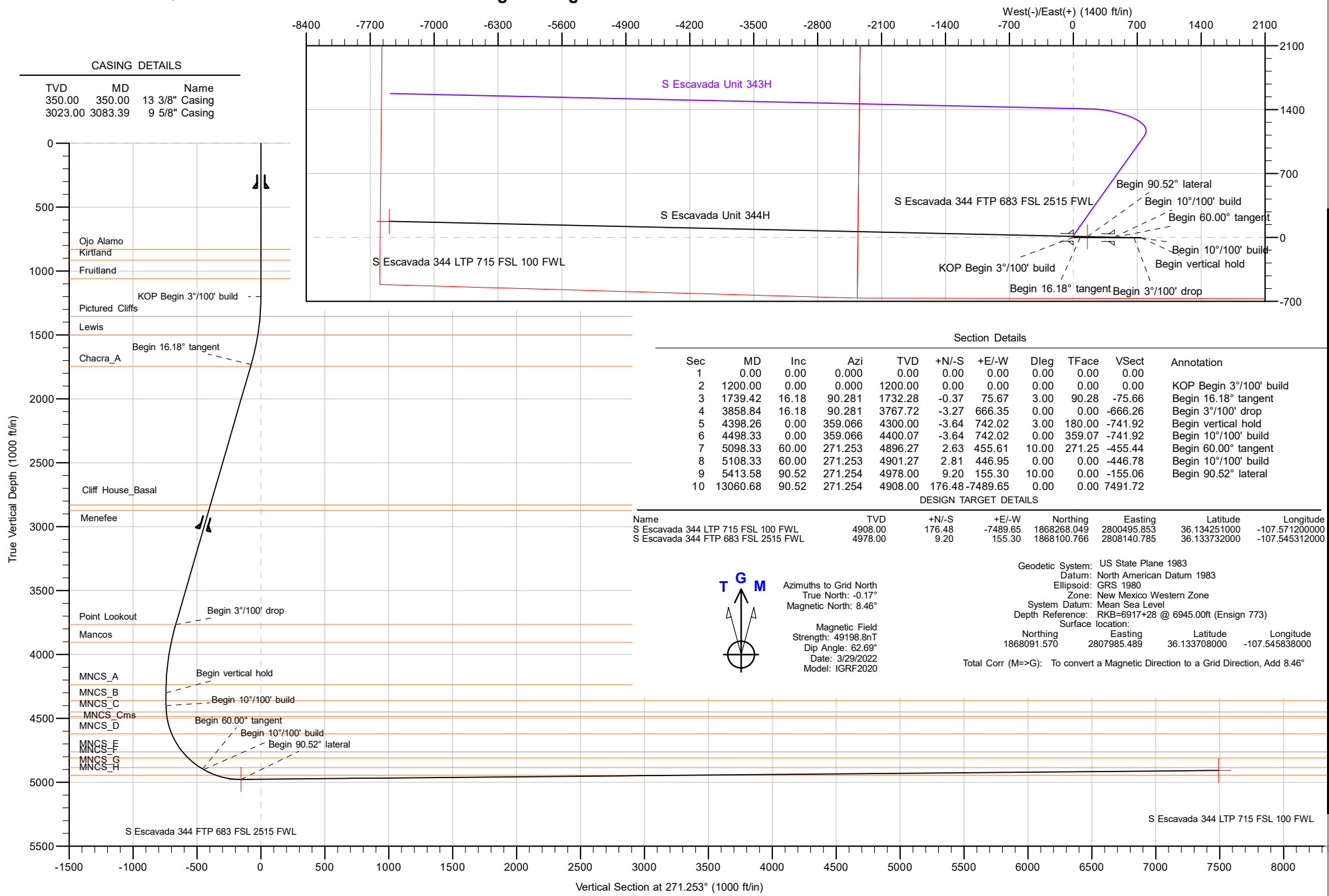


Enduring Resources IV, LLC BOPE Diagram





Well: S Escavada Unit 344H
Site: S Escavada Unit 343 H pd (343 & 344)
Project: Sandoval County, New Mexico NAD83 NM W
Design: rev0
Rig: Ensign 773





Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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

Site	S Escavada Unit 343 H pd (343 & 344)		
Site Position:		Northing:	1,868,111.592 usft
From:	Lat/Long	Easting:	2,807,985.724 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.133763000
		Longitude:	-107.545837000

Well	S Escavada Unit 344H, Surf loc: 668 FSL 2359 FWL Section 14-T22N-R07W			
Well Position	+N/-S	0.00 ft	Northing:	1,868,091.570 usft
	+E/-W	0.00 ft	Easting:	2,807,985.488 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.17 °	Ground Level:	6,917.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/29/2022	8.62	62.69	49,198.75415329

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	271.253

Plan Survey Tool Program	Date	3/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,060.50	rev0 (Original Hole)	MWD
				OWSG MWD - Standard



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,739.42	16.18	90.281	1,732.28	-0.37	75.67	3.00	3.00	0.00	90.28	
3,858.84	16.18	90.281	3,767.72	-3.27	666.35	0.00	0.00	0.00	0.00	
4,398.26	0.00	359.066	4,300.00	-3.64	742.02	3.00	-3.00	0.00	180.00	
4,498.33	0.00	359.066	4,400.07	-3.64	742.02	0.00	0.00	0.00	359.07	
5,098.33	60.00	271.253	4,896.27	2.63	455.61	10.00	10.00	0.00	271.25	
5,108.33	60.00	271.253	4,901.27	2.81	446.95	0.00	0.00	0.00	0.00	
5,413.58	90.52	271.254	4,978.00	9.20	155.30	10.00	10.00	0.00	0.00	
13,060.68	90.52	271.254	4,908.00	176.48	-7,489.65	0.00	0.00	0.00	0.00	S Escavada 344 LTP



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)
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
830.00	0.00	0.000	830.00	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									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,060.00	0.00	0.000	1,060.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,300.00	3.00	90.281	1,299.95	-0.01	2.62	-2.62	3.00	3.00	0.00
1,355.17	4.66	90.281	1,355.00	-0.03	6.30	-6.30	3.00	3.00	0.00
Pictured Cliffs									
1,400.00	6.00	90.281	1,399.63	-0.05	10.46	-10.46	3.00	3.00	0.00
1,500.00	9.00	90.281	1,498.77	-0.12	23.51	-23.51	3.00	3.00	0.00
1,501.25	9.04	90.281	1,500.00	-0.12	23.71	-23.71	3.00	3.00	0.00
Lewis									
1,600.00	12.00	90.281	1,597.08	-0.20	41.73	-41.73	3.00	3.00	0.00
1,700.00	15.00	90.281	1,694.31	-0.32	65.08	-65.07	3.00	3.00	0.00
1,739.42	16.18	90.281	1,732.28	-0.37	75.67	-75.66	3.00	3.00	0.00
1,739.44	16.18	90.281	1,732.29	-0.37	75.68	-75.67	0.00	0.00	0.00
Begin 16.18° tangent									
1,752.67	16.18	90.281	1,745.00	-0.39	79.36	-79.35	0.00	0.00	0.00
Chacra_A									
1,800.00	16.18	90.281	1,790.46	-0.45	92.55	-92.54	0.00	0.00	0.00
1,900.00	16.18	90.281	1,886.49	-0.59	120.42	-120.41	0.00	0.00	0.00
2,000.00	16.18	90.281	1,982.53	-0.73	148.29	-148.27	0.00	0.00	0.00
2,100.00	16.18	90.281	2,078.57	-0.86	176.16	-176.14	0.00	0.00	0.00
2,200.00	16.18	90.281	2,174.61	-1.00	204.03	-204.01	0.00	0.00	0.00
2,300.00	16.18	90.281	2,270.65	-1.14	231.90	-231.87	0.00	0.00	0.00
2,400.00	16.18	90.281	2,366.68	-1.27	259.77	-259.74	0.00	0.00	0.00
2,500.00	16.18	90.281	2,462.72	-1.41	287.64	-287.60	0.00	0.00	0.00
2,600.00	16.18	90.281	2,558.76	-1.55	315.51	-315.47	0.00	0.00	0.00
2,700.00	16.18	90.281	2,654.80	-1.68	343.38	-343.34	0.00	0.00	0.00
2,800.00	16.18	90.281	2,750.83	-1.82	371.25	-371.20	0.00	0.00	0.00
2,882.43	16.18	90.281	2,830.00	-1.93	394.23	-394.17	0.00	0.00	0.00
Cliff House_Basal									
2,900.00	16.18	90.281	2,846.87	-1.96	399.12	-399.07	0.00	0.00	0.00
2,927.21	16.18	90.281	2,873.00	-2.00	406.70	-406.65	0.00	0.00	0.00
Menefee									
3,000.00	16.18	90.281	2,942.91	-2.09	426.99	-426.94	0.00	0.00	0.00
3,100.00	16.18	90.281	3,038.95	-2.23	454.86	-454.80	0.00	0.00	0.00
3,200.00	16.18	90.281	3,134.99	-2.37	482.73	-482.67	0.00	0.00	0.00



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)
3,300.00	16.18	90.281	3,231.02	-2.50	510.60	-510.53	0.00	0.00	0.00
3,400.00	16.18	90.281	3,327.06	-2.64	538.47	-538.40	0.00	0.00	0.00
3,500.00	16.18	90.281	3,423.10	-2.78	566.34	-566.27	0.00	0.00	0.00
3,600.00	16.18	90.281	3,519.14	-2.91	594.21	-594.13	0.00	0.00	0.00
3,700.00	16.18	90.281	3,615.17	-3.05	622.08	-622.00	0.00	0.00	0.00
3,800.00	16.18	90.281	3,711.21	-3.19	649.95	-649.86	0.00	0.00	0.00
3,856.01	16.18	90.281	3,765.00	-3.26	665.56	-665.47	0.00	0.00	0.00
Point Lookout									
3,858.83	16.18	90.281	3,767.71	-3.27	666.35	-666.26	0.00	0.00	0.00
Begin 3°/100' drop									
3,858.84	16.18	90.281	3,767.72	-3.27	666.35	-666.26	0.00	0.00	0.00
3,900.00	14.95	90.281	3,807.37	-3.32	677.39	-677.30	3.00	-3.00	0.00
4,000.00	11.95	90.281	3,904.62	-3.44	700.65	-700.55	3.00	-3.00	0.00
4,000.39	11.94	90.281	3,905.00	-3.44	700.73	-700.63	3.00	-3.00	0.00
Mancos									
4,100.00	8.95	90.281	4,002.95	-3.53	718.78	-718.68	3.00	-3.00	0.00
4,200.00	5.95	90.281	4,102.09	-3.59	731.74	-731.64	3.00	-3.00	0.00
4,300.00	2.95	90.281	4,201.78	-3.63	739.49	-739.40	3.00	-3.00	0.00
4,333.25	1.95	90.281	4,235.00	-3.63	740.91	-740.82	3.00	-3.00	0.00
MNCS_A									
4,398.27	0.00	359.066	4,300.01	-3.64	742.02	-741.92	3.00	-3.00	0.00
Begin vertical hold									
4,400.00	0.00	0.000	4,301.74	-3.64	742.02	-741.92	0.00	0.00	0.00
4,458.26	0.00	0.000	4,360.00	-3.64	742.02	-741.92	0.00	0.00	0.00
MNCS_B									
4,498.34	0.00	0.000	4,400.08	-3.64	742.02	-741.92	0.00	0.00	0.00
Begin 10°/100' build									
4,500.00	0.17	271.253	4,401.74	-3.64	742.02	-741.92	10.03	10.03	0.00
4,548.33	5.00	271.253	4,450.00	-3.59	739.84	-739.74	10.00	10.00	0.00
MNCS_C									
4,550.00	5.17	271.253	4,451.67	-3.59	739.69	-739.59	10.00	10.00	0.00
4,583.58	8.52	271.253	4,485.00	-3.50	735.69	-735.59	10.00	10.00	0.00
MNCS_Cms									
4,600.00	10.17	271.253	4,501.20	-3.44	733.03	-732.93	10.00	10.00	0.00
4,650.00	15.17	271.253	4,549.97	-3.20	722.07	-721.97	10.00	10.00	0.00
4,700.00	20.17	271.253	4,597.60	-2.87	706.90	-706.80	10.00	10.00	0.00
4,724.06	22.57	271.253	4,620.00	-2.68	698.14	-698.03	10.00	10.00	0.00
MNCS_D									
4,750.00	25.17	271.253	4,643.72	-2.45	687.64	-687.53	10.00	10.00	0.00
4,800.00	30.17	271.253	4,687.99	-1.94	664.44	-664.32	10.00	10.00	0.00
4,850.00	35.17	271.253	4,730.07	-1.35	637.47	-637.35	10.00	10.00	0.00
4,891.37	39.30	271.253	4,763.00	-0.81	612.45	-612.32	10.00	10.00	0.00
MNCS_E									
4,900.00	40.17	271.253	4,769.64	-0.68	606.93	-606.80	10.00	10.00	0.00
4,950.00	45.17	271.253	4,806.39	0.06	573.06	-572.93	10.00	10.00	0.00
4,955.14	45.68	271.253	4,810.00	0.14	569.40	-569.26	10.00	10.00	0.00
MNCS_F									
5,000.00	50.17	271.253	4,840.05	0.86	536.12	-535.98	10.00	10.00	0.00
5,050.00	55.17	271.253	4,870.36	1.73	496.39	-496.23	10.00	10.00	0.00
5,076.51	57.82	271.253	4,885.00	2.22	474.29	-474.13	10.00	10.00	0.00
MNCS_G									
5,098.34	60.00	271.253	4,896.27	2.63	455.61	-455.44	10.00	10.00	0.00



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)
Begin 60.00° tangent									
5,108.34	60.00	271.253	4,901.27	2.82	446.95	-446.78	0.00	0.00	0.00
Begin 10°/100' build									
5,150.00	64.17	271.253	4,920.77	3.62	410.15	-409.97	10.00	10.00	0.00
5,200.00	69.17	271.253	4,940.57	4.62	364.26	-364.08	10.00	10.00	0.00
5,212.84	70.45	271.253	4,945.00	4.89	352.21	-352.02	10.00	10.00	0.00
MNCS_H									
5,250.00	74.17	271.253	4,956.29	5.66	316.83	-316.63	10.00	10.00	0.00
5,300.00	79.17	271.253	4,967.82	6.73	268.20	-267.99	10.00	10.00	0.00
5,350.00	84.17	271.253	4,975.06	7.81	218.76	-218.54	10.00	10.00	0.00
5,400.00	89.17	271.253	4,977.97	8.90	168.87	-168.64	10.00	10.00	0.00
5,413.58	90.52	271.254	4,978.00	9.20	155.29	-155.05	10.00	10.00	0.00
Begin 90.52° lateral									
5,500.00	90.52	271.254	4,977.21	11.09	68.90	-68.64	0.00	0.00	0.00
5,600.00	90.52	271.254	4,976.30	13.27	-31.07	31.36	0.00	0.00	0.00
5,700.00	90.52	271.254	4,975.38	15.46	-131.04	131.35	0.00	0.00	0.00
5,800.00	90.52	271.254	4,974.47	17.65	-231.02	231.35	0.00	0.00	0.00
5,900.00	90.52	271.254	4,973.55	19.84	-330.99	331.34	0.00	0.00	0.00
6,000.00	90.52	271.254	4,972.64	22.02	-430.96	431.34	0.00	0.00	0.00
6,100.00	90.52	271.254	4,971.72	24.21	-530.93	531.33	0.00	0.00	0.00
6,200.00	90.52	271.254	4,970.80	26.40	-630.90	631.33	0.00	0.00	0.00
6,300.00	90.52	271.254	4,969.89	28.59	-730.88	731.33	0.00	0.00	0.00
6,400.00	90.52	271.254	4,968.97	30.77	-830.85	831.32	0.00	0.00	0.00
6,500.00	90.52	271.254	4,968.06	32.96	-930.82	931.32	0.00	0.00	0.00
6,600.00	90.52	271.254	4,967.14	35.15	-1,030.79	1,031.31	0.00	0.00	0.00
6,700.00	90.52	271.254	4,966.23	37.34	-1,130.76	1,131.31	0.00	0.00	0.00
6,800.00	90.52	271.254	4,965.31	39.52	-1,230.74	1,231.31	0.00	0.00	0.00
6,900.00	90.52	271.254	4,964.40	41.71	-1,330.71	1,331.30	0.00	0.00	0.00
7,000.00	90.52	271.254	4,963.48	43.90	-1,430.68	1,431.30	0.00	0.00	0.00
7,100.00	90.52	271.254	4,962.57	46.09	-1,530.65	1,531.29	0.00	0.00	0.00
7,200.00	90.52	271.254	4,961.65	48.27	-1,630.62	1,631.29	0.00	0.00	0.00
7,300.00	90.52	271.254	4,960.74	50.46	-1,730.59	1,731.28	0.00	0.00	0.00
7,400.00	90.52	271.254	4,959.82	52.65	-1,830.57	1,831.28	0.00	0.00	0.00
7,500.00	90.52	271.254	4,958.90	54.84	-1,930.54	1,931.28	0.00	0.00	0.00
7,600.00	90.52	271.254	4,957.99	57.03	-2,030.51	2,031.27	0.00	0.00	0.00
7,700.00	90.52	271.254	4,957.07	59.21	-2,130.48	2,131.27	0.00	0.00	0.00
7,800.00	90.52	271.254	4,956.16	61.40	-2,230.45	2,231.26	0.00	0.00	0.00
7,900.00	90.52	271.254	4,955.24	63.59	-2,330.43	2,331.26	0.00	0.00	0.00
8,000.00	90.52	271.254	4,954.33	65.78	-2,430.40	2,431.26	0.00	0.00	0.00
8,100.00	90.52	271.254	4,953.41	67.96	-2,530.37	2,531.25	0.00	0.00	0.00
8,200.00	90.52	271.254	4,952.50	70.15	-2,630.34	2,631.25	0.00	0.00	0.00
8,300.00	90.52	271.254	4,951.58	72.34	-2,730.31	2,731.24	0.00	0.00	0.00
8,400.00	90.52	271.254	4,950.67	74.53	-2,830.29	2,831.24	0.00	0.00	0.00
8,500.00	90.52	271.254	4,949.75	76.71	-2,930.26	2,931.23	0.00	0.00	0.00
8,600.00	90.52	271.254	4,948.83	78.90	-3,030.23	3,031.23	0.00	0.00	0.00
8,700.00	90.52	271.254	4,947.92	81.09	-3,130.20	3,131.23	0.00	0.00	0.00
8,800.00	90.52	271.254	4,947.00	83.28	-3,230.17	3,231.22	0.00	0.00	0.00
8,900.00	90.52	271.254	4,946.09	85.46	-3,330.14	3,331.22	0.00	0.00	0.00
9,000.00	90.52	271.254	4,945.17	87.65	-3,430.12	3,431.21	0.00	0.00	0.00
9,100.00	90.52	271.254	4,944.26	89.84	-3,530.09	3,531.21	0.00	0.00	0.00
9,200.00	90.52	271.254	4,943.34	92.03	-3,630.06	3,631.20	0.00	0.00	0.00
9,300.00	90.52	271.254	4,942.43	94.21	-3,730.03	3,731.20	0.00	0.00	0.00
9,400.00	90.52	271.254	4,941.51	96.40	-3,830.00	3,831.20	0.00	0.00	0.00



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)	
9,500.00	90.52	271.254	4,940.60	98.59	-3,929.98	3,931.19	0.00	0.00	0.00	
9,600.00	90.52	271.254	4,939.68	100.78	-4,029.95	4,031.19	0.00	0.00	0.00	
9,700.00	90.52	271.254	4,938.76	102.96	-4,129.92	4,131.18	0.00	0.00	0.00	
9,800.00	90.52	271.254	4,937.85	105.15	-4,229.89	4,231.18	0.00	0.00	0.00	
9,900.00	90.52	271.254	4,936.93	107.34	-4,329.86	4,331.18	0.00	0.00	0.00	
10,000.00	90.52	271.254	4,936.02	109.53	-4,429.84	4,431.17	0.00	0.00	0.00	
10,100.00	90.52	271.254	4,935.10	111.71	-4,529.81	4,531.17	0.00	0.00	0.00	
10,200.00	90.52	271.254	4,934.19	113.90	-4,629.78	4,631.16	0.00	0.00	0.00	
10,300.00	90.52	271.254	4,933.27	116.09	-4,729.75	4,731.16	0.00	0.00	0.00	
10,400.00	90.52	271.254	4,932.36	118.28	-4,829.72	4,831.15	0.00	0.00	0.00	
10,500.00	90.52	271.254	4,931.44	120.46	-4,929.69	4,931.15	0.00	0.00	0.00	
10,600.00	90.52	271.254	4,930.53	122.65	-5,029.67	5,031.15	0.00	0.00	0.00	
10,700.00	90.52	271.254	4,929.61	124.84	-5,129.64	5,131.14	0.00	0.00	0.00	
10,800.00	90.52	271.254	4,928.70	127.03	-5,229.61	5,231.14	0.00	0.00	0.00	
10,900.00	90.52	271.254	4,927.78	129.21	-5,329.58	5,331.13	0.00	0.00	0.00	
11,000.00	90.52	271.254	4,926.86	131.40	-5,429.55	5,431.13	0.00	0.00	0.00	
11,100.00	90.52	271.254	4,925.95	133.59	-5,529.53	5,531.13	0.00	0.00	0.00	
11,200.00	90.52	271.254	4,925.03	135.78	-5,629.50	5,631.12	0.00	0.00	0.00	
11,300.00	90.52	271.254	4,924.12	137.96	-5,729.47	5,731.12	0.00	0.00	0.00	
11,400.00	90.52	271.254	4,923.20	140.15	-5,829.44	5,831.11	0.00	0.00	0.00	
11,500.00	90.52	271.254	4,922.29	142.34	-5,929.41	5,931.11	0.00	0.00	0.00	
11,600.00	90.52	271.254	4,921.37	144.53	-6,029.39	6,031.10	0.00	0.00	0.00	
11,700.00	90.52	271.254	4,920.46	146.71	-6,129.36	6,131.10	0.00	0.00	0.00	
11,800.00	90.52	271.254	4,919.54	148.90	-6,229.33	6,231.10	0.00	0.00	0.00	
11,900.00	90.52	271.254	4,918.63	151.09	-6,329.30	6,331.09	0.00	0.00	0.00	
12,000.00	90.52	271.254	4,917.71	153.28	-6,429.27	6,431.09	0.00	0.00	0.00	
12,100.00	90.52	271.254	4,916.79	155.46	-6,529.24	6,531.08	0.00	0.00	0.00	
12,200.00	90.52	271.254	4,915.88	157.65	-6,629.22	6,631.08	0.00	0.00	0.00	
12,300.00	90.52	271.254	4,914.96	159.84	-6,729.19	6,731.07	0.00	0.00	0.00	
12,400.00	90.52	271.254	4,914.05	162.03	-6,829.16	6,831.07	0.00	0.00	0.00	
12,500.00	90.52	271.254	4,913.13	164.21	-6,929.13	6,931.07	0.00	0.00	0.00	
12,600.00	90.52	271.254	4,912.22	166.40	-7,029.10	7,031.06	0.00	0.00	0.00	
12,700.00	90.52	271.254	4,911.30	168.59	-7,129.08	7,131.06	0.00	0.00	0.00	
12,800.00	90.52	271.254	4,910.39	170.78	-7,229.05	7,231.05	0.00	0.00	0.00	
12,900.00	90.52	271.254	4,909.47	172.97	-7,329.02	7,331.05	0.00	0.00	0.00	
13,000.00	90.52	271.254	4,908.56	175.15	-7,428.99	7,431.05	0.00	0.00	0.00	
13,060.68	90.52	271.254	4,908.00	176.48	-7,489.65	7,491.72	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
S Escavada 344 LTP 71	0.00	2.156	4,908.00	176.48	-7,489.65	1,868,268.050	2,800,495.853	36.134251000	-107.571200000	
- plan hits target center										
- Point										
S Escavada 344 FTP 68	0.00	2.156	4,978.00	9.20	155.30	1,868,100.767	2,808,140.784	36.133732000	-107.545312000	
- plan hits target center										
- Point										



Planning Report



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	
3,083.39	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				
1,060.00	1,060.00	Fruitland				
1,355.17	1,355.00	Pictured Cliffs				
1,501.25	1,500.00	Lewis				
1,752.67	1,745.00	Chacra_A				
2,882.43	2,830.00	Cliff House_Basal				
2,927.21	2,873.00	Menefee				
3,856.01	3,765.00	Point Lookout				
4,000.39	3,905.00	Mancos				
4,333.25	4,235.00	MNCS_A				
4,458.26	4,360.00	MNCS_B				
4,548.33	4,450.00	MNCS_C				
4,583.58	4,485.00	MNCS_Cms				
4,724.06	4,620.00	MNCS_D				
4,891.37	4,763.00	MNCS_E				
4,955.14	4,810.00	MNCS_F				
5,076.51	4,885.00	MNCS_G				
5,212.84	4,945.00	MNCS_H				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,739.44	1,732.29	-0.37	75.68	Begin 16.18° tangent	
3,858.83	3,767.71	-3.27	666.35	Begin 3°/100' drop	
4,398.27	4,300.01	-3.64	742.02	Begin vertical hold	
4,498.34	4,400.08	-3.64	742.02	Begin 10°/100' build	
5,098.34	4,896.27	2.63	455.61	Begin 60.00° tangent	
5,108.34	4,901.27	2.82	446.95	Begin 10°/100' build	
5,413.58	4,978.00	9.20	155.29	Begin 90.52° lateral	
13,061.80				PBHL/TD 13061.80 MD 4908.00 TVD	



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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

Site	S Escavada Unit 343 H pd (343 & 344)				
Site Position:		Northing:	1,868,111.592 usft	Latitude:	36.133763000
From:	Lat/Long	Easting:	2,807,985.724 usft	Longitude:	-107.545837000
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well	S Escavada Unit 344H, Surf loc: 668 FSL 2359 FWL Section 14-T22N-R07W					
Well Position	+N/-S	0.00 ft	Northing:	1,868,091.570 usft	Latitude:	36.133708000
	+E/-W	0.00 ft	Easting:	2,807,985.488 usft	Longitude:	-107.545838000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,917.00 ft
Grid Convergence:		0.17 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	3/29/2022	8.62	62.69	49,198.75415329

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	271.253

Plan Survey Tool Program	Date	3/29/2022		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,060.50 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,739.42	16.18	90.281	1,732.28	-0.37	75.67	3.00	3.00	0.00	90.28	
3,858.84	16.18	90.281	3,767.72	-3.27	666.35	0.00	0.00	0.00	0.00	
4,398.26	0.00	359.066	4,300.00	-3.64	742.02	3.00	-3.00	0.00	180.00	
4,498.33	0.00	359.066	4,400.07	-3.64	742.02	0.00	0.00	0.00	359.07	
5,098.33	60.00	271.253	4,896.27	2.63	455.61	10.00	10.00	0.00	271.25	
5,108.33	60.00	271.253	4,901.27	2.81	446.95	0.00	0.00	0.00	0.00	
5,413.58	90.52	271.254	4,978.00	9.20	155.30	10.00	10.00	0.00	0.00	
13,060.68	90.52	271.254	4,908.00	176.48	-7,489.65	0.00	0.00	0.00	0.00	S Escavada 344 LTP



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
100.00	0.00	0.000	100.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
200.00	0.00	0.000	200.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
300.00	0.00	0.000	300.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
400.00	0.00	0.000	400.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
500.00	0.00	0.000	500.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
600.00	0.00	0.000	600.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
700.00	0.00	0.000	700.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
800.00	0.00	0.000	800.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
830.00	0.00	0.000	830.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
Ojo Alamo									
900.00	0.00	0.000	900.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
915.00	0.00	0.000	915.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
Kirtland									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
1,060.00	0.00	0.000	1,060.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
Fruitland									
1,100.00	0.00	0.000	1,100.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
1,200.00	0.00	0.000	1,200.00	0.00	0.00	1,868,091.570	2,807,985.488	36.133708000	-107.545838000
KOP Begin 3°/100' build									
1,300.00	3.00	90.281	1,299.95	-0.01	2.62	1,868,091.557	2,807,988.106	36.133707943	-107.545829136
1,355.17	4.66	90.281	1,355.00	-0.03	6.30	1,868,091.539	2,807,991.788	36.133707864	-107.545816665
Pictured Cliffs									
1,400.00	6.00	90.281	1,399.63	-0.05	10.46	1,868,091.519	2,807,995.951	36.133707774	-107.545802570
1,500.00	9.00	90.281	1,498.77	-0.12	23.51	1,868,091.455	2,808,009.002	36.133707492	-107.545758374
1,501.25	9.04	90.281	1,500.00	-0.12	23.71	1,868,091.454	2,808,009.197	36.133707488	-107.545757711
Lewis									
1,600.00	12.00	90.281	1,597.08	-0.20	41.73	1,868,091.365	2,808,027.223	36.133707098	-107.545696668
1,700.00	15.00	90.281	1,694.31	-0.32	65.08	1,868,091.251	2,808,050.564	36.133706594	-107.545617624
1,739.42	16.18	90.281	1,732.28	-0.37	75.67	1,868,091.199	2,808,061.160	36.133706365	-107.545581742
1,739.44	16.18	90.281	1,732.29	-0.37	75.68	1,868,091.199	2,808,061.164	36.133706365	-107.545581728
Begin 16.18° tangent									
1,752.67	16.18	90.281	1,745.00	-0.39	79.36	1,868,091.181	2,808,064.851	36.133706285	-107.545569242
Chacra_A									
1,800.00	16.18	90.281	1,790.46	-0.45	92.55	1,868,091.116	2,808,078.043	36.133706000	-107.545524570
1,900.00	16.18	90.281	1,886.49	-0.59	120.42	1,868,090.979	2,808,105.912	36.133705398	-107.545430191
2,000.00	16.18	90.281	1,982.53	-0.73	148.29	1,868,090.843	2,808,133.782	36.133704795	-107.545335812
2,100.00	16.18	90.281	2,078.57	-0.86	176.16	1,868,090.706	2,808,161.652	36.133704193	-107.545241433
2,200.00	16.18	90.281	2,174.61	-1.00	204.03	1,868,090.569	2,808,189.521	36.133703590	-107.545147054
2,300.00	16.18	90.281	2,270.65	-1.14	231.90	1,868,090.433	2,808,217.391	36.133702987	-107.545052675
2,400.00	16.18	90.281	2,366.68	-1.27	259.77	1,868,090.296	2,808,245.261	36.133702385	-107.544958295
2,500.00	16.18	90.281	2,462.72	-1.41	287.64	1,868,090.159	2,808,273.131	36.133701782	-107.544863916
2,600.00	16.18	90.281	2,558.76	-1.55	315.51	1,868,090.022	2,808,301.000	36.133701179	-107.544769537
2,700.00	16.18	90.281	2,654.80	-1.68	343.38	1,868,089.886	2,808,328.870	36.133700576	-107.544675158
2,800.00	16.18	90.281	2,750.83	-1.82	371.25	1,868,089.749	2,808,356.740	36.133699973	-107.544580779
2,882.43	16.18	90.281	2,830.00	-1.93	394.23	1,868,089.636	2,808,379.713	36.133699476	-107.544502981
Cliff House_Basal									
2,900.00	16.18	90.281	2,846.87	-1.96	399.12	1,868,089.612	2,808,384.609	36.133699370	-107.544486400
2,927.21	16.18	90.281	2,873.00	-2.00	406.70	1,868,089.575	2,808,392.192	36.133699206	-107.544460723
Menefee									
3,000.00	16.18	90.281	2,942.91	-2.09	426.99	1,868,089.476	2,808,412.479	36.133698766	-107.544392021
3,100.00	16.18	90.281	3,038.95	-2.23	454.86	1,868,089.339	2,808,440.349	36.133698163	-107.544297642
3,200.00	16.18	90.281	3,134.99	-2.37	482.73	1,868,089.202	2,808,468.219	36.133697560	-107.544203262



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,300.00	16.18	90.281	3,231.02	-2.50	510.60	1,868,089.065	2,808,496.088	36.133696956	-107.544108883	
3,400.00	16.18	90.281	3,327.06	-2.64	538.47	1,868,088.929	2,808,523.958	36.133696353	-107.544014504	
3,500.00	16.18	90.281	3,423.10	-2.78	566.34	1,868,088.792	2,808,551.828	36.133695749	-107.543920125	
3,600.00	16.18	90.281	3,519.14	-2.91	594.21	1,868,088.655	2,808,579.698	36.133695146	-107.543825746	
3,700.00	16.18	90.281	3,615.17	-3.05	622.08	1,868,088.519	2,808,607.567	36.133694542	-107.543731367	
3,800.00	16.18	90.281	3,711.21	-3.19	649.95	1,868,088.382	2,808,635.437	36.133693938	-107.543636988	
3,856.01	16.18	90.281	3,765.00	-3.26	665.56	1,868,088.305	2,808,651.046	36.133693600	-107.543584129	
Point Lookout										
3,858.83	16.18	90.281	3,767.71	-3.27	666.35	1,868,088.301	2,808,651.832	36.133693583	-107.543581466	
Begin 3°/100' drop										
3,858.84	16.18	90.281	3,767.72	-3.27	666.35	1,868,088.301	2,808,651.835	36.133693583	-107.543581456	
3,900.00	14.95	90.281	3,807.37	-3.32	677.39	1,868,088.247	2,808,662.880	36.133693343	-107.543544054	
4,000.00	11.95	90.281	3,904.62	-3.44	700.65	1,868,088.133	2,808,686.133	36.133692840	-107.543465309	
4,000.39	11.94	90.281	3,905.00	-3.44	700.73	1,868,088.133	2,808,686.214	36.133692838	-107.543465035	
Mancos										
4,100.00	8.95	90.281	4,002.95	-3.53	718.78	1,868,088.044	2,808,704.265	36.133692447	-107.543403907	
4,200.00	5.95	90.281	4,102.09	-3.59	731.74	1,868,087.981	2,808,717.225	36.133692166	-107.543360016	
4,300.00	2.95	90.281	4,201.78	-3.63	739.49	1,868,087.943	2,808,724.980	36.133691998	-107.543333757	
4,333.25	1.95	90.281	4,235.00	-3.63	740.91	1,868,087.936	2,808,726.400	36.133691967	-107.543328945	
MNCS_A										
4,398.27	0.00	359.066	4,300.01	-3.64	742.02	1,868,087.930	2,808,727.507	36.133691943	-107.543325198	
Begin vertical hold										
4,400.00	0.00	0.000	4,301.74	-3.64	742.02	1,868,087.930	2,808,727.507	36.133691943	-107.543325198	
4,458.26	0.00	0.000	4,360.00	-3.64	742.02	1,868,087.930	2,808,727.507	36.133691943	-107.543325198	
MNCS_B										
4,498.34	0.00	0.000	4,400.08	-3.64	742.02	1,868,087.930	2,808,727.507	36.133691943	-107.543325198	
Begin 10°/100' build										
4,500.00	0.17	271.253	4,401.74	-3.64	742.02	1,868,087.930	2,808,727.504	36.133691943	-107.543325207	
4,548.33	5.00	271.253	4,450.00	-3.59	739.84	1,868,087.978	2,808,725.328	36.133692092	-107.543332578	
MNCS_C										
4,550.00	5.17	271.253	4,451.67	-3.59	739.69	1,868,087.981	2,808,725.179	36.133692102	-107.543333080	
4,583.58	8.52	271.253	4,485.00	-3.50	735.69	1,868,088.069	2,808,721.179	36.133692375	-107.543346627	
MNCS_Cms										
4,600.00	10.17	271.253	4,501.20	-3.44	733.03	1,868,088.127	2,808,718.513	36.133692557	-107.543355656	
4,650.00	15.17	271.253	4,549.97	-3.20	722.07	1,868,088.367	2,808,707.555	36.133693305	-107.543392762	
4,700.00	20.17	271.253	4,597.60	-2.87	706.90	1,868,088.698	2,808,692.389	36.133694341	-107.543444116	
4,724.06	22.57	271.253	4,620.00	-2.68	698.14	1,868,088.890	2,808,683.626	36.133694940	-107.543473790	
MNCS_D										
4,750.00	25.17	271.253	4,643.72	-2.45	687.64	1,868,089.120	2,808,673.131	36.133695656	-107.543509328	
4,800.00	30.17	271.253	4,687.99	-1.94	664.44	1,868,089.627	2,808,649.928	36.133697241	-107.543587901	
4,850.00	35.17	271.253	4,730.07	-1.35	637.47	1,868,090.217	2,808,622.955	36.133699083	-107.543679238	
4,891.37	39.30	271.253	4,763.00	-0.81	612.45	1,868,090.765	2,808,597.934	36.133700791	-107.543763967	
MNCS_E										
4,900.00	40.17	271.253	4,769.64	-0.68	606.93	1,868,090.885	2,808,592.419	36.133701168	-107.543782642	
4,950.00	45.17	271.253	4,806.39	0.06	573.06	1,868,091.626	2,808,558.551	36.133703480	-107.543897327	
4,955.14	45.68	271.253	4,810.00	0.14	569.40	1,868,091.706	2,808,554.888	36.133703730	-107.543909732	
MNCS_F										
5,000.00	50.17	271.253	4,840.05	0.86	536.12	1,868,092.434	2,808,521.610	36.133706003	-107.544022421	
5,050.00	55.17	271.253	4,870.36	1.73	496.39	1,868,093.304	2,808,481.876	36.133708715	-107.544156970	
5,076.51	57.82	271.253	4,885.00	2.22	474.29	1,868,093.787	2,808,459.775	36.133710224	-107.544231810	
MNCS_G										
5,098.34	60.00	271.253	4,896.27	2.63	455.61	1,868,094.196	2,808,441.093	36.133711500	-107.544295073	
Begin 60.00° tangent										



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,108.34	60.00	271.253	4,901.27	2.82	446.95	1,868,094.385	2,808,432.435	36.133712091	-107.544324392	
Begin 10°/100' build										
5,150.00	64.17	271.253	4,920.77	3.62	410.15	1,868,095.190	2,808,395.637	36.133714603	-107.544448998	
5,200.00	69.17	271.253	4,940.57	4.62	364.26	1,868,096.194	2,808,349.752	36.133717735	-107.544604378	
5,212.84	70.45	271.253	4,945.00	4.89	352.21	1,868,096.458	2,808,337.702	36.133718558	-107.544645182	
MNCS_H										
5,250.00	74.17	271.253	4,956.29	5.66	316.83	1,868,097.232	2,808,302.316	36.133720973	-107.544765008	
5,300.00	79.17	271.253	4,967.82	6.73	268.20	1,868,098.296	2,808,253.691	36.133724292	-107.544929665	
5,350.00	84.17	271.253	4,975.06	7.81	218.76	1,868,099.378	2,808,204.247	36.133727667	-107.545097098	
5,400.00	89.17	271.253	4,977.97	8.90	168.87	1,868,100.469	2,808,154.359	36.133731072	-107.545266030	
5,413.58	90.52	271.254	4,978.00	9.20	155.29	1,868,100.766	2,808,140.781	36.133731999	-107.545312010	
Begin 90.52° lateral										
5,500.00	90.52	271.254	4,977.21	11.09	68.90	1,868,102.657	2,808,054.388	36.133737895	-107.545604562	
5,600.00	90.52	271.254	4,976.30	13.27	-31.07	1,868,104.844	2,807,954.416	36.133744718	-107.545943094	
5,700.00	90.52	271.254	4,975.38	15.46	-131.04	1,868,107.032	2,807,854.444	36.133751539	-107.546281625	
5,800.00	90.52	271.254	4,974.47	17.65	-231.02	1,868,109.219	2,807,754.472	36.133758359	-107.546620156	
5,900.00	90.52	271.254	4,973.55	19.84	-330.99	1,868,111.407	2,807,654.501	36.133765178	-107.546958688	
6,000.00	90.52	271.254	4,972.64	22.02	-430.96	1,868,113.594	2,807,554.529	36.133771997	-107.547297220	
6,100.00	90.52	271.254	4,971.72	24.21	-530.93	1,868,115.782	2,807,454.557	36.133778814	-107.547635751	
6,200.00	90.52	271.254	4,970.80	26.40	-630.90	1,868,117.970	2,807,354.586	36.133785631	-107.547974283	
6,300.00	90.52	271.254	4,969.89	28.59	-730.88	1,868,120.157	2,807,254.614	36.133792446	-107.548312815	
6,400.00	90.52	271.254	4,968.97	30.77	-830.85	1,868,122.345	2,807,154.642	36.133799261	-107.548651347	
6,500.00	90.52	271.254	4,968.06	32.96	-930.82	1,868,124.532	2,807,054.671	36.133806074	-107.548989878	
6,600.00	90.52	271.254	4,967.14	35.15	-1,030.79	1,868,126.720	2,806,954.699	36.133812887	-107.549328410	
6,700.00	90.52	271.254	4,966.23	37.34	-1,130.76	1,868,128.907	2,806,854.727	36.133819698	-107.549666942	
6,800.00	90.52	271.254	4,965.31	39.52	-1,230.74	1,868,131.095	2,806,754.756	36.133826509	-107.550005474	
6,900.00	90.52	271.254	4,964.40	41.71	-1,330.71	1,868,133.282	2,806,654.784	36.133833319	-107.550344007	
7,000.00	90.52	271.254	4,963.48	43.90	-1,430.68	1,868,135.470	2,806,554.812	36.133840128	-107.550682539	
7,100.00	90.52	271.254	4,962.57	46.09	-1,530.65	1,868,137.657	2,806,454.841	36.133846935	-107.551021071	
7,200.00	90.52	271.254	4,961.65	48.27	-1,630.62	1,868,139.845	2,806,354.869	36.133853742	-107.551359604	
7,300.00	90.52	271.254	4,960.74	50.46	-1,730.59	1,868,142.032	2,806,254.897	36.133860548	-107.551698136	
7,400.00	90.52	271.254	4,959.82	52.65	-1,830.57	1,868,144.220	2,806,154.926	36.133867353	-107.552036668	
7,500.00	90.52	271.254	4,958.90	54.84	-1,930.54	1,868,146.408	2,806,054.954	36.133874157	-107.552375201	
7,600.00	90.52	271.254	4,957.99	57.03	-2,030.51	1,868,148.595	2,805,954.982	36.133880960	-107.552713734	
7,700.00	90.52	271.254	4,957.07	59.21	-2,130.48	1,868,150.783	2,805,855.011	36.133887762	-107.553052266	
7,800.00	90.52	271.254	4,956.16	61.40	-2,230.45	1,868,152.970	2,805,755.039	36.133894563	-107.553390799	
7,900.00	90.52	271.254	4,955.24	63.59	-2,330.43	1,868,155.158	2,805,655.067	36.133901364	-107.553729332	
8,000.00	90.52	271.254	4,954.33	65.78	-2,430.40	1,868,157.345	2,805,555.096	36.133908163	-107.554067865	
8,100.00	90.52	271.254	4,953.41	67.96	-2,530.37	1,868,159.533	2,805,455.124	36.133914961	-107.554406398	
8,200.00	90.52	271.254	4,952.50	70.15	-2,630.34	1,868,161.720	2,805,355.152	36.133921758	-107.554744931	
8,300.00	90.52	271.254	4,951.58	72.34	-2,730.31	1,868,163.908	2,805,255.181	36.133928555	-107.555083464	
8,400.00	90.52	271.254	4,950.67	74.53	-2,830.29	1,868,166.095	2,805,155.209	36.133935350	-107.555421997	
8,500.00	90.52	271.254	4,949.75	76.71	-2,930.26	1,868,168.283	2,805,055.237	36.133942145	-107.555760530	
8,600.00	90.52	271.254	4,948.83	78.90	-3,030.23	1,868,170.471	2,804,955.266	36.133948938	-107.556099063	
8,700.00	90.52	271.254	4,947.92	81.09	-3,130.20	1,868,172.658	2,804,855.294	36.133955731	-107.556437597	
8,800.00	90.52	271.254	4,947.00	83.28	-3,230.17	1,868,174.846	2,804,755.322	36.133962522	-107.556776130	
8,900.00	90.52	271.254	4,946.09	85.46	-3,330.14	1,868,177.033	2,804,655.351	36.133969313	-107.557114663	
9,000.00	90.52	271.254	4,945.17	87.65	-3,430.12	1,868,179.221	2,804,555.379	36.133976102	-107.557453197	
9,100.00	90.52	271.254	4,944.26	89.84	-3,530.09	1,868,181.408	2,804,455.407	36.133982891	-107.557791731	
9,200.00	90.52	271.254	4,943.34	92.03	-3,630.06	1,868,183.596	2,804,355.436	36.133989679	-107.558130264	
9,300.00	90.52	271.254	4,942.43	94.21	-3,730.03	1,868,185.783	2,804,255.464	36.133996466	-107.558468798	
9,400.00	90.52	271.254	4,941.51	96.40	-3,830.00	1,868,187.971	2,804,155.492	36.134003251	-107.558807332	
9,500.00	90.52	271.254	4,940.60	98.59	-3,929.98	1,868,190.158	2,804,055.521	36.134010036	-107.559145866	
9,600.00	90.52	271.254	4,939.68	100.78	-4,029.95	1,868,192.346	2,803,955.549	36.134016820	-107.559484399	



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,700.00	90.52	271.254	4,938.76	102.96	-4,129.92	1,868,194.534	2,803,855.577	36.134023603	-107.559822933	
9,800.00	90.52	271.254	4,937.85	105.15	-4,229.89	1,868,196.721	2,803,755.605	36.134030385	-107.560161467	
9,900.00	90.52	271.254	4,936.93	107.34	-4,329.86	1,868,198.909	2,803,655.634	36.134037166	-107.560500002	
10,000.00	90.52	271.254	4,936.02	109.53	-4,429.84	1,868,201.096	2,803,555.662	36.134043946	-107.560838536	
10,100.00	90.52	271.254	4,935.10	111.71	-4,529.81	1,868,203.284	2,803,455.690	36.134050725	-107.561177070	
10,200.00	90.52	271.254	4,934.19	113.90	-4,629.78	1,868,205.471	2,803,355.719	36.134057504	-107.561515604	
10,300.00	90.52	271.254	4,933.27	116.09	-4,729.75	1,868,207.659	2,803,255.747	36.134064281	-107.561854139	
10,400.00	90.52	271.254	4,932.36	118.28	-4,829.72	1,868,209.846	2,803,155.775	36.134071057	-107.562192673	
10,500.00	90.52	271.254	4,931.44	120.46	-4,929.69	1,868,212.034	2,803,055.804	36.134077832	-107.562531207	
10,600.00	90.52	271.254	4,930.53	122.65	-5,029.67	1,868,214.221	2,802,955.832	36.134084607	-107.562869742	
10,700.00	90.52	271.254	4,929.61	124.84	-5,129.64	1,868,216.409	2,802,855.860	36.134091380	-107.563208277	
10,800.00	90.52	271.254	4,928.70	127.03	-5,229.61	1,868,218.596	2,802,755.889	36.134098152	-107.563546811	
10,900.00	90.52	271.254	4,927.78	129.21	-5,329.58	1,868,220.784	2,802,655.917	36.134104924	-107.563885346	
11,000.00	90.52	271.254	4,926.86	131.40	-5,429.55	1,868,222.972	2,802,555.945	36.134111694	-107.564223881	
11,100.00	90.52	271.254	4,925.95	133.59	-5,529.53	1,868,225.159	2,802,455.974	36.134118464	-107.564562416	
11,200.00	90.52	271.254	4,925.03	135.78	-5,629.50	1,868,227.347	2,802,356.002	36.134125233	-107.564900951	
11,300.00	90.52	271.254	4,924.12	137.96	-5,729.47	1,868,229.534	2,802,256.030	36.134132000	-107.565239486	
11,400.00	90.52	271.254	4,923.20	140.15	-5,829.44	1,868,231.722	2,802,156.059	36.134138767	-107.565578021	
11,500.00	90.52	271.254	4,922.29	142.34	-5,929.41	1,868,233.909	2,802,056.087	36.134145533	-107.565916556	
11,600.00	90.52	271.254	4,921.37	144.53	-6,029.39	1,868,236.097	2,801,956.115	36.134152297	-107.566255091	
11,700.00	90.52	271.254	4,920.46	146.71	-6,129.36	1,868,238.284	2,801,856.144	36.134159061	-107.566593626	
11,800.00	90.52	271.254	4,919.54	148.90	-6,229.33	1,868,240.472	2,801,756.172	36.134165824	-107.566932162	
11,900.00	90.52	271.254	4,918.63	151.09	-6,329.30	1,868,242.659	2,801,656.200	36.134172586	-107.567270697	
12,000.00	90.52	271.254	4,917.71	153.28	-6,429.27	1,868,244.847	2,801,556.229	36.134179347	-107.567609233	
12,100.00	90.52	271.254	4,916.79	155.46	-6,529.24	1,868,247.035	2,801,456.257	36.134186107	-107.567947768	
12,200.00	90.52	271.254	4,915.88	157.65	-6,629.22	1,868,249.222	2,801,356.285	36.134192866	-107.568286304	
12,300.00	90.52	271.254	4,914.96	159.84	-6,729.19	1,868,251.410	2,801,256.314	36.134199624	-107.568624839	
12,400.00	90.52	271.254	4,914.05	162.03	-6,829.16	1,868,253.597	2,801,156.342	36.134206381	-107.568963375	
12,500.00	90.52	271.254	4,913.13	164.21	-6,929.13	1,868,255.785	2,801,056.370	36.134213137	-107.569301911	
12,600.00	90.52	271.254	4,912.22	166.40	-7,029.10	1,868,257.972	2,800,956.399	36.134219893	-107.569640447	
12,700.00	90.52	271.254	4,911.30	168.59	-7,129.08	1,868,260.160	2,800,856.427	36.134226647	-107.569978982	
12,800.00	90.52	271.254	4,910.39	170.78	-7,229.05	1,868,262.347	2,800,756.455	36.134233400	-107.570317518	
12,900.00	90.52	271.254	4,909.47	172.97	-7,329.02	1,868,264.535	2,800,656.484	36.134240153	-107.570656054	
13,000.00	90.52	271.254	4,908.56	175.15	-7,428.99	1,868,266.722	2,800,556.512	36.134246904	-107.570994591	
13,060.68	90.52	271.254	4,908.00	176.48	-7,489.65	1,868,268.050	2,800,495.853	36.134251000	-107.571200000	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
S Escavada 344 LTP 71 - hit/miss target - Shape - Point	0.00	2.156	4,908.00	176.48	-7,489.65	1,868,268.050	2,800,495.853	36.134251000	-107.571200000	
S Escavada 344 FTP 68 - plan hits target center - Point	0.00	2.156	4,978.00	9.20	155.30	1,868,100.767	2,808,140.784	36.133732000	-107.545312000	



Planning Report - Geographic



Database:	DB_Feb2822	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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	
3,083.39	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				
1,060.00	1,060.00	Fruitland				
1,355.17	1,355.00	Pictured Cliffs				
1,501.25	1,500.00	Lewis				
1,752.67	1,745.00	Chacra_A				
2,882.43	2,830.00	Cliff House_Basal				
2,927.21	2,873.00	Menefee				
3,856.01	3,765.00	Point Lookout				
4,000.39	3,905.00	Mancos				
4,333.25	4,235.00	MNCS_A				
4,458.26	4,360.00	MNCS_B				
4,548.33	4,450.00	MNCS_C				
4,583.58	4,485.00	MNCS_Cms				
4,724.06	4,620.00	MNCS_D				
4,891.37	4,763.00	MNCS_E				
4,955.14	4,810.00	MNCS_F				
5,076.51	4,885.00	MNCS_G				
5,212.84	4,945.00	MNCS_H				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,739.44	1,732.29	-0.37	75.68	Begin 16.18° tangent	
3,858.83	3,767.71	-3.27	666.35	Begin 3°/100' drop	
4,398.27	4,300.01	-3.64	742.02	Begin vertical hold	
4,498.34	4,400.08	-3.64	742.02	Begin 10°/100' build	
5,098.34	4,896.27	2.63	455.61	Begin 60.00° tangent	
5,108.34	4,901.27	2.82	446.95	Begin 10°/100' build	
5,413.58	4,978.00	9.20	155.29	Begin 90.52° lateral	
13,061.80				PBHL/TD 13061.80 MD 4908.00 TVD	



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,506.07ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated 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	13,060.50	rev0 (Original Hole)	MWD	OWSG MWD - Standard	

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

Offset Design:	S Escavada Unit 343 H pd (343 & 344) - S Escavada Unit 343H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program:	0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum	Separation	Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.68	20.02	0.24	20.02	19.77	0.26	77.579		
100.00	100.00	100.00	100.00	0.13	0.13	0.68	20.02	0.24	20.02	19.05	0.98	20.536		
200.00	200.00	200.00	200.00	0.49	0.49	0.68	20.02	0.24	20.02	18.33	1.69	11.834		
300.00	300.00	300.00	300.00	0.85	0.85	0.68	20.02	0.24	20.02	17.61	2.41	8.312		
400.00	400.00	400.00	400.00	1.20	1.20	0.68	20.02	0.24	20.02	16.90	3.13	6.406		
500.00	500.00	500.00	500.00	1.56	1.56	0.68	20.02	0.24	20.02	16.18	3.84	5.211		
600.00	600.00	600.00	600.00	1.92	1.92	0.68	20.02	0.24	20.02	15.46	4.56	4.391		
700.00	700.00	700.00	700.00	2.28	2.28	0.68	20.02	0.24	20.02	14.75	5.28	3.795		
800.00	800.00	800.00	800.00	2.64	2.64	0.68	20.02	0.24	20.02	14.03	5.99	3.341		
900.00	900.00	900.00	900.00	3.00	3.00	0.68	20.02	0.24	20.02	13.31	6.71	2.984	CC, ES, SF	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	0.68	20.02	0.24	20.02	12.60	7.42	2.993		
1,100.00	1,100.00	1,099.06	1,099.01	3.71	3.71	4.46	22.11	1.73	22.20	21.03	8.10	3.595		
1,200.00	1,200.00	1,197.58	1,197.23	4.07	4.06	12.26	28.34	6.16	29.13	21.03	8.10	3.595		
1,300.00	1,299.95	1,295.25	1,294.08	4.42	4.42	-74.20	38.58	13.45	40.51	31.75	8.76	4.624		
1,400.00	1,399.63	1,391.87	1,389.13	4.77	4.78	-75.37	52.66	23.47	55.30	45.90	9.40	5.885		
1,500.00	1,498.77	1,487.16	1,481.90	5.13	5.17	-78.23	70.36	36.07	73.55	63.51	10.04	7.327		
1,600.00	1,597.08	1,580.87	1,571.95	5.50	5.58	-81.37	91.43	51.07	95.47	84.78	10.70	8.926		
1,700.00	1,694.31	1,672.76	1,658.93	5.91	6.02	-84.25	115.56	68.25	121.20	109.80	11.40	10.633		
1,800.00	1,790.46	1,762.70	1,742.59	6.34	6.49	-86.91	142.45	87.39	150.79	138.65	12.14	12.419		
1,900.00	1,886.49	1,851.63	1,823.71	6.81	7.00	-88.26	172.12	108.52	184.16	171.24	12.92	14.258		
2,000.00	1,982.53	1,945.39	1,908.59	7.29	7.58	-88.99	204.57	131.62	218.84	205.00	13.84	15.808		
2,100.00	2,078.57	2,039.15	1,993.47	7.79	8.18	-89.52	237.02	154.72	253.56	238.76	14.80	17.132		
2,200.00	2,174.61	2,132.91	2,078.35	8.30	8.81	-89.92	269.47	177.82	288.28	272.50	15.78	18.268		
2,300.00	2,270.65	2,226.67	2,163.23	8.83	9.45	-90.24	301.91	200.91	323.01	306.23	16.78	19.248		
2,400.00	2,366.68	2,320.44	2,248.11	9.36	10.11	-90.49	334.36	224.01	357.76	339.96	17.80	20.099		
2,500.00	2,462.72	2,414.20	2,332.99	9.90	10.77	-90.70	366.81	247.11	392.50	373.67	18.83	20.843		

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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 Design: S Escavada Unit 343 H pd (343 & 344) - S Escavada Unit 343H - Original Hole - rev0													Offset Site Error: 0.00 ft
Survey Program: 0-MWD													Offset Well Error: 0.00 ft
Rule Assigned:													
Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
2,600.00	2,558.76	2,507.96	2,417.87	10.44	11.45	-90.88	399.26	270.21	427.25	407.38	19.88	21.495	
2,700.00	2,654.80	2,601.72	2,502.75	10.99	12.13	-91.03	431.70	293.31	462.01	441.07	20.93	22.072	
2,800.00	2,750.83	2,695.48	2,587.63	11.55	12.81	-91.15	464.15	316.41	496.76	474.77	22.00	22.584	
2,900.00	2,846.87	2,789.24	2,672.51	12.11	13.51	-91.27	496.60	339.51	531.52	508.45	23.07	23.040	
3,000.00	2,942.91	2,883.00	2,757.39	12.67	14.20	-91.36	529.05	362.61	566.28	542.13	24.15	23.450	
3,100.00	3,038.95	2,976.76	2,842.27	13.24	14.90	-91.45	561.49	385.71	601.04	575.81	25.23	23.818	
3,200.00	3,134.99	3,070.52	2,927.15	13.80	15.61	-91.53	593.94	408.81	635.80	609.48	26.32	24.152	
3,300.00	3,231.02	3,164.28	3,012.03	14.37	16.31	-91.60	626.39	431.91	670.56	643.14	27.42	24.455	
3,400.00	3,327.06	3,258.04	3,096.91	14.95	17.02	-91.66	658.84	455.01	705.33	676.81	28.52	24.731	
3,500.00	3,423.10	3,351.80	3,181.79	15.52	17.74	-91.71	691.28	478.11	740.09	710.47	29.62	24.984	
3,600.00	3,519.14	3,445.56	3,266.67	16.10	18.45	-91.77	723.73	501.21	774.86	744.13	30.73	25.215	
3,700.00	3,615.17	3,539.32	3,351.55	16.68	19.16	-91.81	756.18	524.30	809.62	777.78	31.84	25.428	
3,800.00	3,711.21	3,633.08	3,436.43	17.25	19.88	-91.86	788.62	547.40	844.39	811.44	32.95	25.625	
3,900.00	3,807.37	3,726.85	3,521.31	17.83	20.60	-92.32	821.07	570.50	879.14	845.08	34.06	25.813	
4,000.00	3,904.62	3,820.57	3,606.16	18.35	21.32	-93.15	853.51	593.60	913.72	878.64	35.09	26.041	
4,100.00	4,002.95	3,914.03	3,690.76	18.82	22.04	-93.65	885.85	616.62	948.10	912.07	36.02	26.319	
4,200.00	4,102.09	4,006.95	3,774.89	19.23	22.75	-93.87	918.01	639.51	982.30	945.44	36.86	26.649	
4,300.00	4,201.78	4,099.09	3,858.30	19.57	23.46	-93.85	949.90	662.21	1,016.44	978.84	37.60	27.032	
4,400.00	4,301.74	4,190.20	3,940.78	19.87	24.16	-3.33	981.43	684.66	1,050.68	1,012.44	38.24	27.473	
4,500.00	4,401.74	4,280.73	4,022.74	20.14	24.86	86.71	1,012.75	706.96	1,085.32	1,046.48	38.84	27.943	
4,600.00	4,501.20	4,368.63	4,102.31	20.33	25.54	84.69	1,043.17	728.62	1,120.06	1,080.78	39.28	28.512	
4,700.00	4,597.60	4,449.66	4,175.66	20.44	26.17	83.19	1,071.21	748.58	1,154.74	1,115.26	39.48	29.248	
4,800.00	4,687.99	4,521.35	4,240.56	20.50	26.72	81.85	1,096.02	766.24	1,189.99	1,150.52	39.48	30.145	
4,900.00	4,769.64	4,582.98	4,296.36	20.57	27.20	80.35	1,117.36	781.39	1,226.56	1,187.20	39.36	31.166	
5,000.00	4,840.05	4,658.57	4,365.80	20.71	27.74	79.41	1,144.16	794.31	1,264.39	1,224.90	39.49	32.015	
5,100.00	4,897.10	4,750.62	4,451.35	20.99	28.28	79.10	1,177.76	796.66	1,302.64	1,262.70	39.94	32.615	
5,200.00	4,940.57	4,884.27	4,573.27	21.47	28.83	80.45	1,226.76	773.95	1,340.29	1,299.43	40.86	32.804	
5,300.00	4,967.82	5,129.22	4,769.87	22.17	29.27	84.48	1,309.22	657.14	1,373.66	1,331.17	42.50	32.325	
5,400.00	4,977.97	5,339.84	4,890.79	23.08	29.22	86.52	1,363.83	494.67	1,396.27	1,351.96	44.31	31.511	
5,500.00	4,977.21	5,754.70	4,977.31	24.18	28.55	90.00	1,410.56	99.50	1,399.80	1,350.16	49.64	28.199	
5,600.00	4,976.30	5,854.70	4,976.40	25.49	28.35	90.00	1,412.74	-0.47	1,399.80	1,347.61	52.19	26.822	
5,700.00	4,975.38	5,954.70	4,975.48	26.98	28.19	90.00	1,414.93	-100.45	1,399.80	1,344.71	55.09	25.410	
5,800.00	4,974.47	6,054.70	4,974.57	28.61	29.79	90.00	1,417.11	-200.42	1,399.80	1,341.51	58.28	24.074	
5,900.00	4,973.55	6,154.70	4,973.65	30.37	31.60	90.00	1,419.30	-300.39	1,399.80	1,338.06	61.74	22.617	
6,000.00	4,972.64	6,254.70	4,972.74	32.23	33.48	90.00	1,421.48	-400.36	1,399.79	1,334.39	65.40	21.403	
6,100.00	4,971.72	6,354.70	4,971.82	34.19	35.44	90.00	1,423.67	-500.33	1,399.79	1,330.55	69.24	20.216	
6,200.00	4,970.80	6,454.70	4,970.91	36.21	37.46	90.00	1,425.86	-600.31	1,399.79	1,326.56	73.24	19.114	
6,300.00	4,969.89	6,554.70	4,969.99	38.30	39.53	90.00	1,428.04	-700.28	1,399.79	1,322.43	77.36	18.095	
6,400.00	4,968.97	6,654.70	4,969.08	40.43	41.65	90.00	1,430.23	-800.25	1,399.79	1,318.20	81.59	17.157	
6,500.00	4,968.06	6,754.70	4,968.16	42.62	43.81	90.00	1,432.41	-900.22	1,399.79	1,313.88	85.91	16.294	
6,600.00	4,967.14	6,854.70	4,967.25	44.84	46.01	90.00	1,434.60	-1,000.19	1,399.78	1,309.48	90.31	15.500	
6,700.00	4,966.23	6,954.70	4,966.33	47.09	48.24	90.00	1,436.79	-1,100.17	1,399.78	1,305.01	94.77	14.770	
6,800.00	4,965.31	7,054.70	4,965.42	49.37	50.49	90.00	1,438.97	-1,200.14	1,399.78	1,300.48	99.30	14.096	
6,900.00	4,964.40	7,154.70	4,964.51	51.67	52.77	90.00	1,441.16	-1,300.11	1,399.78	1,295.90	103.88	13.475	
7,000.00	4,963.48	7,254.70	4,963.59	54.00	55.07	90.00	1,443.34	-1,400.08	1,399.78	1,291.28	108.50	12.901	
7,100.00	4,962.57	7,354.70	4,962.68	56.34	57.38	90.00	1,445.53	-1,500.05	1,399.78	1,286.61	113.16	12.369	
7,200.00	4,961.65	7,454.70	4,961.76	58.70	59.72	90.00	1,447.71	-1,600.03	1,399.77	1,281.91	117.86	11.877	
7,300.00	4,960.74	7,554.70	4,960.85	61.08	62.07	90.00	1,449.90	-1,700.00	1,399.77	1,277.19	122.59	11.419	
7,400.00	4,959.82	7,654.70	4,959.93	63.47	64.43	90.00	1,452.09	-1,799.97	1,399.77	1,272.43	127.34	10.992	
7,500.00	4,958.90	7,754.70	4,959.02	65.87	66.80	90.00	1,454.27	-1,899.94	1,399.77	1,267.65	132.12	10.595	
7,600.00	4,957.99	7,854.70	4,958.10	68.27	69.19	90.00	1,456.46	-1,999.91	1,399.77	1,262.85	136.92	10.223	
7,700.00	4,957.07	7,954.70	4,957.19	70.69	71.59	90.00	1,458.64	-2,099.89	1,399.77	1,258.02	141.74	9.876	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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 Design: S Escavada Unit 343 H pd (343 & 344) - S Escavada Unit 343H - Original Hole - rev0												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	
7,800.00	4,956.16	8,054.70	4,956.27	73.12	73.99	90.00	1,460.83	-2,199.86	1,399.76	1,253.19	146.58	9.550	
7,900.00	4,955.24	8,154.70	4,955.36	75.55	76.40	90.00	1,463.02	-2,299.83	1,399.76	1,248.33	151.43	9.243	
8,000.00	4,954.33	8,254.70	4,954.44	78.00	78.83	90.00	1,465.20	-2,399.80	1,399.76	1,243.46	156.30	8.956	
8,100.00	4,953.41	8,354.70	4,953.53	80.44	81.25	90.00	1,467.39	-2,499.77	1,399.76	1,238.58	161.18	8.684	
8,200.00	4,952.50	8,454.70	4,952.61	82.90	83.69	90.00	1,469.57	-2,599.74	1,399.76	1,233.68	166.07	8.429	
8,300.00	4,951.58	8,554.70	4,951.70	85.35	86.13	90.00	1,471.76	-2,699.72	1,399.76	1,228.78	170.98	8.187	
8,400.00	4,950.67	8,654.70	4,950.78	87.82	88.57	90.00	1,473.94	-2,799.69	1,399.75	1,223.86	175.89	7.958	
8,500.00	4,949.75	8,754.70	4,949.87	90.28	91.02	90.00	1,476.13	-2,899.66	1,399.75	1,218.94	180.81	7.741	
8,600.00	4,948.83	8,854.70	4,948.95	92.75	93.48	90.00	1,478.32	-2,999.63	1,399.75	1,214.01	185.75	7.536	
8,700.00	4,947.92	8,954.70	4,948.04	95.23	95.93	90.00	1,480.50	-3,099.60	1,399.75	1,209.06	190.68	7.341	
8,800.00	4,947.00	9,054.70	4,947.12	97.71	98.40	90.00	1,482.69	-3,199.58	1,399.75	1,204.12	195.63	7.155	
8,900.00	4,946.09	9,154.70	4,946.21	100.19	100.86	90.01	1,484.87	-3,299.55	1,399.75	1,199.16	200.58	6.978	
9,000.00	4,945.17	9,254.70	4,945.30	102.67	103.33	90.01	1,487.06	-3,399.52	1,399.74	1,194.20	205.54	6.810	
9,100.00	4,944.26	9,354.70	4,944.38	105.16	105.81	90.01	1,489.25	-3,499.49	1,399.74	1,189.23	210.51	6.649	
9,200.00	4,943.34	9,454.70	4,943.47	107.65	108.28	90.01	1,491.43	-3,599.46	1,399.74	1,184.26	215.48	6.496	
9,300.00	4,942.43	9,554.70	4,942.55	110.14	110.76	90.01	1,493.62	-3,699.44	1,399.74	1,179.28	220.46	6.349	
9,400.00	4,941.51	9,654.70	4,941.64	112.63	113.24	90.01	1,495.80	-3,799.41	1,399.74	1,174.30	225.44	6.209	
9,500.00	4,940.60	9,754.70	4,940.72	115.13	115.73	90.01	1,497.99	-3,899.38	1,399.73	1,169.32	230.42	6.075	
9,600.00	4,939.68	9,854.70	4,939.81	117.63	118.21	90.01	1,500.17	-3,999.35	1,399.73	1,164.32	235.41	5.946	
9,700.00	4,938.76	9,954.70	4,938.89	120.13	120.70	90.01	1,502.36	-4,099.32	1,399.73	1,159.33	240.40	5.822	
9,800.00	4,937.85	10,054.70	4,937.98	122.63	123.19	90.01	1,504.55	-4,199.30	1,399.73	1,154.33	245.40	5.704	
9,900.00	4,936.93	10,154.70	4,937.06	125.13	125.68	90.01	1,506.73	-4,299.27	1,399.73	1,149.33	250.40	5.590	
10,000.00	4,936.02	10,254.70	4,936.15	127.63	128.18	90.01	1,508.92	-4,399.24	1,399.73	1,144.33	255.40	5.481	
10,100.00	4,935.10	10,354.70	4,935.23	130.14	130.67	90.01	1,511.10	-4,499.21	1,399.72	1,139.32	260.41	5.375	
10,200.00	4,934.19	10,454.70	4,934.32	132.65	133.17	90.01	1,513.29	-4,599.18	1,399.72	1,134.31	265.41	5.274	
10,300.00	4,933.27	10,554.70	4,933.40	135.15	135.67	90.01	1,515.48	-4,699.16	1,399.72	1,129.30	270.43	5.176	
10,400.00	4,932.36	10,654.70	4,932.49	137.66	138.17	90.01	1,517.66	-4,799.13	1,399.72	1,124.28	275.44	5.082	
10,500.00	4,931.44	10,754.70	4,931.57	140.17	140.67	90.01	1,519.85	-4,899.10	1,399.72	1,119.26	280.46	4.991	
10,600.00	4,930.53	10,854.70	4,930.66	142.69	143.17	90.01	1,522.03	-4,999.07	1,399.72	1,114.24	285.47	4.903	
10,700.00	4,929.61	10,954.70	4,929.74	145.20	145.68	90.01	1,524.22	-5,099.04	1,399.71	1,109.22	290.49	4.818	
10,800.00	4,928.70	11,054.70	4,928.83	147.71	148.18	90.01	1,526.40	-5,199.02	1,399.71	1,104.20	295.52	4.736	
10,900.00	4,927.78	11,154.70	4,927.91	150.23	150.69	90.01	1,528.59	-5,298.99	1,399.71	1,099.17	300.54	4.657	
11,000.00	4,926.86	11,254.70	4,927.00	152.74	153.20	90.01	1,530.78	-5,398.96	1,399.71	1,094.14	305.57	4.581	
11,100.00	4,925.95	11,354.70	4,926.09	155.26	155.71	90.01	1,532.96	-5,498.93	1,399.71	1,089.11	310.60	4.507	
11,200.00	4,925.03	11,454.70	4,925.17	157.77	158.21	90.01	1,535.15	-5,598.90	1,399.71	1,084.08	315.63	4.435	
11,300.00	4,924.12	11,554.70	4,924.26	160.29	160.73	90.01	1,537.33	-5,698.87	1,399.70	1,079.05	320.66	4.365	
11,400.00	4,923.20	11,654.70	4,923.34	162.81	163.24	90.01	1,539.52	-5,798.85	1,399.70	1,074.01	325.69	4.298	
11,500.00	4,922.29	11,754.70	4,922.43	165.33	165.75	90.01	1,541.71	-5,898.82	1,399.70	1,068.98	330.72	4.232	
11,600.00	4,921.37	11,854.70	4,921.51	167.85	168.26	90.01	1,543.89	-5,998.79	1,399.70	1,063.94	335.76	4.169	
11,700.00	4,920.46	11,954.70	4,920.60	170.37	170.78	90.01	1,546.08	-6,098.76	1,399.70	1,058.90	340.80	4.107	
11,800.00	4,919.54	12,054.70	4,919.68	172.89	173.29	90.01	1,548.26	-6,198.73	1,399.70	1,053.86	345.83	4.047	
11,900.00	4,918.63	12,154.70	4,918.77	175.41	175.81	90.01	1,550.45	-6,298.71	1,399.69	1,048.82	350.87	3.989	
12,000.00	4,917.71	12,254.70	4,917.85	177.93	178.32	90.01	1,552.63	-6,398.68	1,399.69	1,043.78	355.91	3.933	
12,100.00	4,916.79	12,354.70	4,916.94	180.45	180.84	90.01	1,554.82	-6,498.65	1,399.69	1,038.73	360.96	3.878	
12,200.00	4,915.88	12,454.70	4,916.02	182.98	183.36	90.01	1,557.01	-6,598.62	1,399.69	1,033.69	366.00	3.824	
12,300.00	4,914.96	12,554.70	4,915.11	185.50	185.87	90.01	1,559.19	-6,698.59	1,399.69	1,028.64	371.04	3.772	
12,400.00	4,914.05	12,654.70	4,914.19	188.02	188.39	90.01	1,561.38	-6,798.57	1,399.69	1,023.60	376.09	3.722	
12,500.00	4,913.13	12,754.70	4,913.28	190.55	190.91	90.01	1,563.56	-6,898.54	1,399.68	1,018.55	381.13	3.672	
12,600.00	4,912.22	12,854.70	4,912.36	193.07	193.43	90.01	1,565.75	-6,998.51	1,399.68	1,013.50	386.18	3.624	
12,700.00	4,911.30	12,954.70	4,911.45	195.60	195.95	90.01	1,567.94	-7,098.48	1,399.68	1,008.45	391.23	3.578	
12,800.00	4,910.39	13,054.70	4,910.53	198.12	198.47	90.01	1,570.12	-7,198.45	1,399.68	1,003.40	396.28	3.532	
12,900.00	4,909.47	13,154.70	4,909.62	200.65	200.99	90.01	1,572.31	-7,298.43	1,399.68	998.35	401.33	3.488	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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 Design:	S Escavada Unit 343 H pd (343 & 344) - S Escavada Unit 343H - Original Hole - rev0											Offset Site Error:	0.00 ft
Survey Program:	0-MWD											Offset Well Error:	0.00 ft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:					
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
13,000.00	4,908.56	13,254.70	4,908.70	203.18	203.51	90.01	1,574.49	-7,398.40	1,399.67	993.30	406.38	3.444	
13,060.68	4,908.00	13,315.38	4,908.15	204.71	205.04	90.01	1,575.82	-7,459.06	1,399.67	990.23	409.44	3.419	

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



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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)

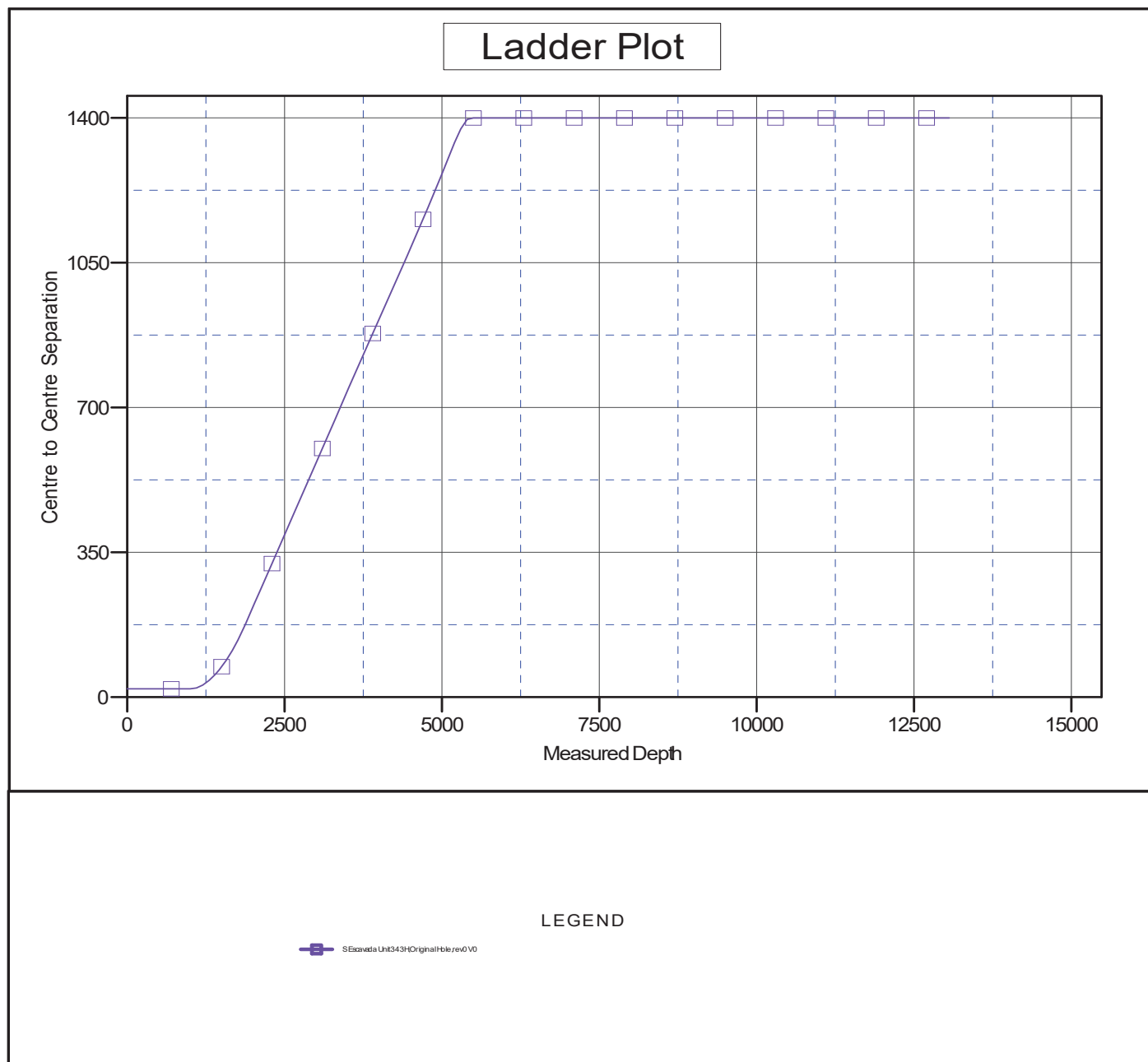
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: S Escavada Unit 344H

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 convergent point, SF - min separation factor, ES - min ellipse separation



Anticollision Report



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well S Escavada Unit 344H
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 344H	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

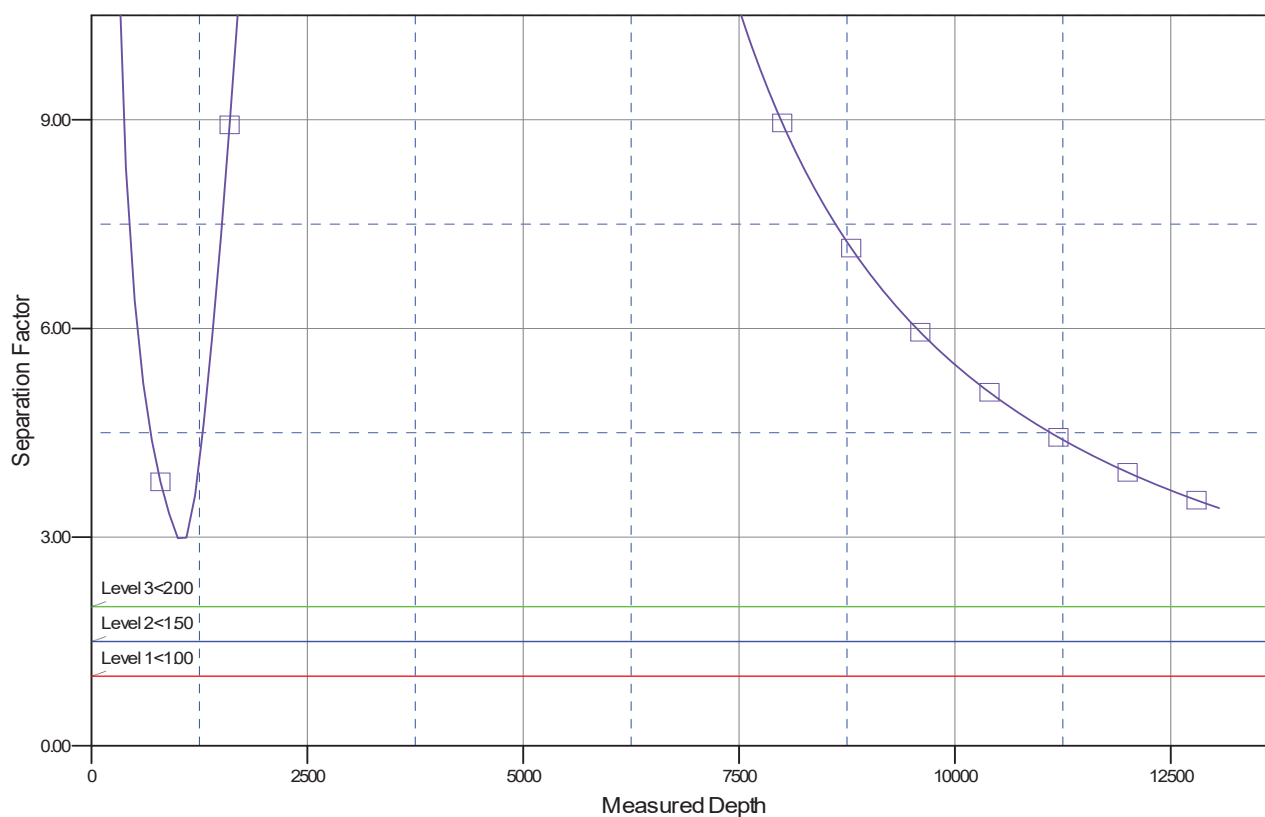
Central Meridian is -107.833333333

Coordinates are relative to: S Escavada Unit 344H

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

Grid Convergence at Surface is: 0.17°

Separation Factor Plot



LEGEND

S Escavada Unit 343H Original Hole rev0 V0

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

CONDITIONS

Action 325971

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID:
	372286
	Action Number:
	325971
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