

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

1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. 30-039-31465
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

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

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 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: 06/07/2024

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 30-039-31465		² Pool Code 97232	³ Pool Name BASIN MANCOS	
⁴ Property Code 319957	⁵ Property Name RINCON UNIT			⁶ Well Number 915H
⁷ OGRID No. 372286	⁸ Operator Name ENDURING RESOURCES, LLC			⁹ Elevation 6538 '

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
A	21	27N	6W		1176	NORTH	1304	EAST	RIO ARRIBA

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
H	23	27N	6W		1370	NORTH	330	EAST	RIO ARRIBA

¹² Dedicated Acres 960.00	N/2 - Section 21 N/2 - Section 22 N/2 - Section 23	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-87
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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 DIVISION

17 OPERATOR CERTIFICATION		Page 2 of 68
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 		Date 10/23/23
Heather Huntington		
Printed Name		
hhuntington@enduringresources.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 31, 2023		
Date of Survey: JUNE 17, 2018		
Signature and Seal of Professional Surveyor		
		
JASON C. EDWARDS		
Certificate Number 15269		

SURFACE LOCATION
1176' FNL 1304' FEL
SECTION 21, T27N, R6W

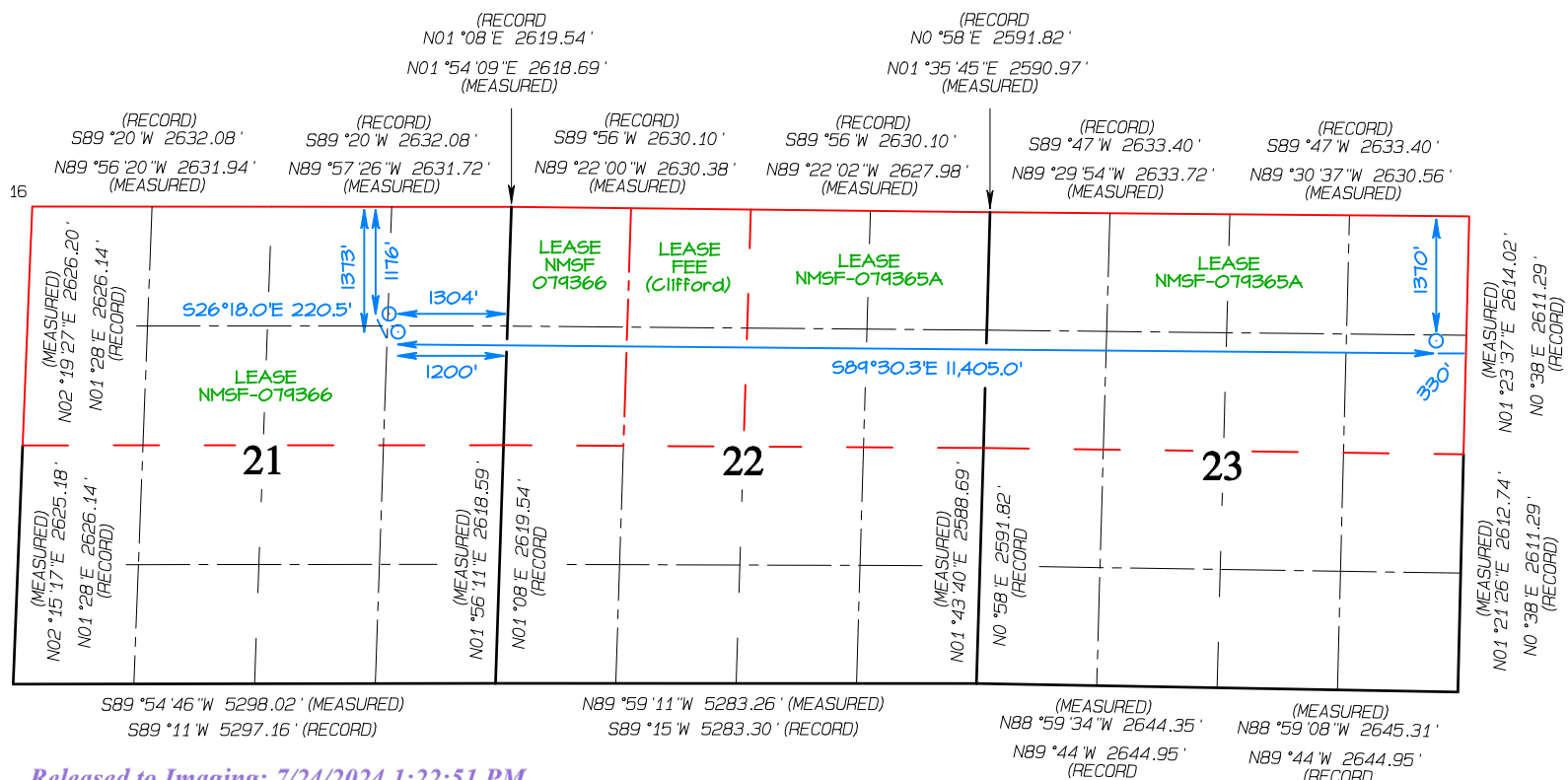
LAT 36.563863 °N
LONG -107.467997 °W
DATUM: NAD1983

FIRST TAKE POINT
1373' FNL 1200' FEL
SECTION 21, T27N, R6W

LAT 36.563324 °N
LONG -107.467656 °W
DATUM: NAD1983

END-OF-LATERAL
1370' FNL 330' FEL
SECTION 23, T27N, R6W

LAT 36.563444 °N
LONG -107.428825 °W
DATUM: NAD1983



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Enduring Resources, LLC **OGRID:** 372286 **Date:** 06 / 26 / 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
RINCON UNIT 815H	TBD	A-21-27N-6W	1164 FNL x 1289 FEL	30	5000	300
RINCON UNIT 817H	TBD	B-21-27N-6W	1187 FNL x 1320 DEL	30	5000	300
RINCON UNIT 915H	TBD	A-21-27N-6W	1175 FNL x 1304 FEL	30	5000	300
RINCON UNIT 917H	TBD	B-21-27N-6W	1199 FNL x 1336 FEL	30	5000	300

IV. Central Delivery Point Name: Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
RINCON UNIT 815H	TBD	2/1/2025	2/11/2025	3/1/2025	3/13/2025	3/23/2025
RINCON UNIT 817H	TBD	2/2/2025	2/12/2025	3/1/2025	3/13/2025	3/23/2025
RINCON UNIT 915H	TBD	2/3/2025	2/13/2025	3/1/2025	3/13/2025	3/23/2025
RINCON UNIT 917H	TBD	2/4/2025	2/14/2025	3/1/2025	3/13/2025	3/23/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

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

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

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: <i>Shaw-Marie Ford</i>
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@enduringresources.com
Date: 06/26/2024
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
Rincon Unit 815H, 817H, 915H, 917H

SEPARATION EQUIPMENT

Enduring Resources, LLC (Enduring) has pulled representative pressurized samples from wells in the same producing formation. Enduring has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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



ENDURING RESOURCES, LLC.
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
Rincon Unit 815H, 817H, 915H, 917H

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.

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.



ENDURING RESOURCES, LLC.
OGRID NO: 372286
NATURAL GAS MANAGEMENT PLAN
Rincon Unit 815H, 817H, 915H, 917H

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

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

19.15.27.8 D. Venting and flaring during production operations

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

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
 - a. Enduring does not vent after the well achieves a stabilized rate and pressure.
 - b. Enduring will remain present on-site during liquids unloading by manual purging and take all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. Enduring will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided:



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- a. Enduring receives approval from the NMOCD.
- b. Enduring remains in compliance with the NM gas capture requirements.
- c. Enduring submits an updated C-129 form to the NMOCD.
- 4. During the following activities unless prohibited:
 - a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

- 1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
- 2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
- 3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.
 - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
 - b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts ENDURING of flare malfunction within 18 months after May 25, 2021.
 - c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
 - d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.



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Rincon Unit 815H, 817H, 915H, 917H

4. Enduring will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
5. Enduring will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
6. Enduring may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
7. Facilities will be designed to minimize waste.
8. Enduring will resolve emergencies as promptly as possible.

19.15.27.8 F. Measurement or estimation of vented and flared natural gas

1. Enduring will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in Enduring's SCADA system.
2. Enduring will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
3. Enduring's measuring equipment will conform to the industry standards.
4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
5. Enduring will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Enduring will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
7. Enduring will install measuring equipment whenever the NMOCD determines that metering is necessary.

BEST MANAGEMENT PRACTICES

Enduring 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.



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Rincon Unit 815H, 817H, 915H, 917H

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-C formation.

WELL INFORMATION:

Name: Rincon Unit 915H

API Number: Not yet assigned

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: Rio Arriba

Surface Elevation: 6,538 ft ASL (GL) 6,563 ft ASL (KB)

Surface Location: 21-27-6 Sec-Twn-Rng 1,176 ft FNL 1,304 ft FEL

36.563863 ° N latitude 107.467997 ° W longitude (NAD 83)

BH Location: 23-27-6 Sec-Twn-Rng 1,370 ft FNL 330 ft FEL

36.563444 ° N latitude 107.428825 ° W longitude (NAD 83)

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

East on Hwy 64 for 36.8 miles to General American Road (GAR/Cty Rd 366) just past MM 101, right (S) on GAR for 1.2 miles to fork, continue right (SW) on GAR/366 for 3.4 miles to 4-way intersection, straight (S) on GAR/366 for 1.2 miles to fork, right (SW) leaving 366 follow along Munoz Wash for 4.3 miles to 4-way intersection, straight (SW) across Carrizo Wash for 0.3 mile to fork, left (SE) onto CR #492 for 1.8 miles to three way, right (N) uphill on existing road for 0.6 miles to three way, left (SW) for 0.8 miles to fork, left (SE) for 0.1 miles to location to staked location which overlaps existing roadway. There are 2 existing wells on this location. From South West to North East: Rincon Unit 917H (proposed), 817H (proposed), 915H (proposed), 815H (proposed), 715H (existing), 615H (existing), 713H (existing), 613H (existing)

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	4,015	2,548	2,557	W	normal
	Kirtland	3,921	2,642	2,653	W	normal
	Fruitland	3,641	2,922	2,935	G, W	sub
	Pictured Cliffs	3,386	3,177	3,192	G, W	sub
	Lewis	3,121	3,442	3,459	G, W	normal
	Chacra_A	2,821	3,742	3,761	G, W	normal
	Cliff House	1,717	4,846	4,875	G, W	sub
	Menefee	1,592	4,971	5,001	G, W	sub
	Point Lookout	1,157	5,406	5,439	G, W	sub
	Mancos	742	5,821	5,856	O,G	sub
	Gallup (MNCS_A)	196	6,367	6,437	O,G	sub (~.41)
	MNCS_B	81	6,482	6,617	O,G	sub (~.41)
	MNCS_C	11	6,552	6,767	O,G	sub (~.41)
	MNCS_Cms	0	NA	0	0	0
	MNCS_D	0	NA	0	0	0
	MNCS_E	-70	6,633	0	O,G	sub (~.41)
	MNCS_F	0	0	0	O,G	sub (~.41)
	MNCS_G	0	0	0	O,G	sub (~.41)

MNCS_G_Ash	0	0	0	O,G	sub (~.41)
MNCS_H	0	0	0	O,G	sub (~.41)
G_Ash @ OVS	0	0	0	O,G	sub (~.41)
G_Ash @ BHL	0	0	0	O,G	sub (~.41)
FTP Target	11	6,552	6,767	O,G	sub (~.41)
PROJECTED TD (BHL)	-75	6,638	18,386	O,G	sub (~.41)

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: 2,860 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,400 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.

STATE AND FEDERAL NOTIFICATIONS

Construction and Reclamation: BLM is to be notified minimum of 48 hours prior to start of construction or reclamation. Grazing permittee is to be notified 10 days in advance.

Spud BLM and state are to be notified minimum of 24 hours prior to spud.

BOP BLM is to be notified minimum of 24 hours prior to BOPE testing.

Casing / cementing BLM and state are to be notified minimum of 24 hours prior to running casing and cementing.

Plugging BLM and state are to be notified minimum of 24 hours prior to plugging ops.

BLM State

(505) 564-7600

(505) 564-7750 (505) 334-6178

(505) 564-7750 see note

(505) 564-7750 (505) 334-6178

(505) 564-7750 see note

All notifications are to be recorded in the WellView report with time, date, name or number that notifications were made to.

Note: Monica Keuhling with the OCD requests state notifications 24 hrs in advance for spud, BOP tests, casing & cementing and any plugging be given to her in both phone message and email: (505) 320-0243, monica.keuhling@emnrd.nm.gov

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	345 ft (MD)	Hole Section Length:	345 ft
0 ft (TVD)	to	345 ft (TVD)	Casing Required:	345 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

Procedure: Drill to TD. Use 12-/4" bit and open to 17-1/2" if unable to drill with 17-1/2" bit. Run inclination survey in 100' stations from TD to surface. Condition hole and fluid for casing running as required. TOOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and wellhead.

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					151	1,520	116,397	116,397
Min. S.F.					7.50	1.80	7.33	7.81

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

MU Torque (ft lbs): Minimum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

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

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

Cement:	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	359

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

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

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

Cu Ft Slurry
498.4

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

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

345 ft (MD)	to	5,956 ft (MD)	Hole Section Length:	5,611 ft
345 ft (TVD)	to	5,921 ft (TVD)	Casing Required:	5,956 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

Interm Hole Mud:

Losses may occur around 5,400' TVD. Maintain minimum mud weights. Pre-treat with gilsonite and medium LCM products, 60% fibrous, 20% platey, 20% granular. If needed, reduce gpm. Losses occurred in the RINU 615H offset at 4,974' MD with completed loss of returns, but was cured by shutting in the direct producing well and spotting 30 ppb LCM. Losses occurred on the RINU 715H at 5,020' MD and were cured with 20 ppb LCM. Pretreat the mud system prior to drilling into the loss zones with constant additions of 15 ppb LCM and by-passing shakers if full losses occur. Rent a large premix pit prior to drill out of surface pipe. Have 30 ppb pill mixed and ready prior to drilling the loss zones and immediately pump once losses occur.

Hole Size: 12-1/4"

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

Bit / Motor: MOTOR: NOV 087840 - 7/8, 4.0, stage, 0.16 rev/gal, 1.83 DEG, 900 GPM, 950 DIFF PSIG

BIT: 6-BLADE PDC w/16 mm or 19 mm cutters, TFA = 0.67 sq-in (range 0.65 - 0.90 max), **jet with 6 - 12s**

MWD / Survey: MWD Survey with inclination and azimuth survey (every 100' at a minimum), GR optional

Logging: None

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

Procedure: Drill to TD following directional plan (**20' rat-hole past casing setting depth**). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible. Take surveys every stand, at a minimum. Target flow-rates of 750 GPM (higher if able to control return rates). Minimum desired flow-rate is 650 GPM. At TD, condition hole and fluid for casing running. TOOH. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well. Perform off-line cement job. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface.

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					1,284	1,739	285,882	285,882
Min. S.F.					1.57	2.02	1.97	1.58

Assumptions:

Collapse: evacuated casing with 8.4 ppg equivalent external pressure gradient and .22 psi/ft backup
 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

MU Torque (ft lbs): Minimum: 3,400 Optimum: 4,530 Maximum: 5,660

Casing Summary: Float shoe, 1 jt casing, float collar, casing to 4,800' MD, 9-5/8" casing packer, 10' casing pup, DV stage tool, casing to surface (**FLOAT EQUIPMENT FROM WEATHERFORD**)

Centralizers: 1 per joint in non-vertical hole; 1 per 3-joints in vertical hole

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 3 jts (floating) to surface (**Centralizers from Scepter Supply - SLIP'N'SLIDE 9-5/8" x 11.75" SOLID BODY POLYMER**)

Casing Contingency: Hole conditions encountered during the drilling of the 12-1/4" intermediate hole section may warrant the use of an ECP and/or a DV Tool to ensure that cement can be successfully circulated to surface. Anticipated placement tool placement is ~650' above the Point Lookout top (Lead slurry top depth is depth of DV stage cementing tool). Actual drilling conditions will determine if a tools are needed and their exact placement.

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Stage 1 Spacer	IntegraGuard EZ II	11		32.2		3,893	50 bbls	
Lead	ASTM type I/II	12.5	2.220	12.5	70%	4,789	160	355.1
Tail	Type III	14.6	1.37	6.6	20%	5,456	151	207.0
Displacement	457	est bbls						

Stage 2	Spacer	IntegraGuard EZ II	11		32.2		0	50 bbls	
	Tail	ASTM type I/II	12.5	2.210	12.4	70%	0	1,127	2491.3
	Displacement	370	est bbls						
Annular Capacity	0.3627	cuft/ft	9-5/8" casing x 13-3/8" casing annulus					9-5/8" 36# ID	
	0.3132	cuft/ft	9-5/8" casing x 12-1/4" hole annulus					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

Stage 1	Spacer	Fly Ash 187.355	IntegraGuard	ResCare CS2 Clay					
		lb/bbl	GW86 viscosifier	FP24 Defoamer .5	Inhibitor 0.1	SS201 Surfactant			
			0.9 lb/bbl	lb/bbl	gal/bbl	0.5 gal/bbl			
	Lead								
		ASTM Type I/II	BA90 Bonding	IntegraSeal POLI	FL66 Fluid Loss .2%	IntegraGuard	R3 Retarder .3%	FP24 Defoamer	KCI Clay Inhibition
			Agent 5.0 lb/sx	LCM 0.13 lb/sx	BWOB	.1% BWOB	BWOB	0.3% BWOB	3.0% BWOB

Stage 2	Tail	ASTM Type I/II	Dipersant CD32A						
			0.0% BWOB						
	Spacer		IntegraGuard	ResCare CS2 Clay					
		Fly Ash 187.355	GW86 viscosifier	FP24 Defoamer .5	Inhibitor 0.1	SS201 Surfactant			
		lb/bbl	0.9 lb/bbl	lb/bbl	gal/bbl	0.5 gal/bbl			
Tail	ASTM Type I/II	BA90 Bonding	IntegraSeal POLI	FL66 Fluid Loss .2%	IntegraGuard	R3 Retarder .3%	FP24 Defoamer	KCI Clay Inhibition	
		Agent 5.0 lb/sx	LCM 0.13 lb/sx	BWOB	.1% BWOB	BWOB	0.3% BWOB	3.0% BWOB	

American Cementing Liner & Production Blend

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

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

5,956 ft (MD)	to	18,386 ft (MD)	Hole Section Length:	12,430 ft
5,921 ft (TVD)	to	6,638 ft (TVD)	Casing Required:	18,386 ft

Estimated KOP:	6,050 ft (MD)	6,015 ft (TVD)
Estimated Landing Point (FTP):	6,767 ft (MD)	0 ft (TVD)
Estimated Lateral Length:	11,619 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

Fluids / Solids Notes: Newpark OptiDrill OBM system. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details. No asphalt products are to be added to the OBM system. **Any changes to the mud systems are to be discussed with engineering prior to application.**

Hole Size: 8-1/2"

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

Bit / Motor: **MOTOR:** NOV 077857 - 6.5" 7/8, 5.0 stage, 0.23 rev/gal, 1.83 or 1.5 deg, 750 GPM, 1,580 DIFF PSIG (or similar); on demand friction breaking device(s) as required, bottom tool spaced ~3,000' behind the bit.

BIT: 5-BLADE PDC w/16 mm - 19 mm cutters, matrix body, target TFA = 1.0 - 1.5 sq-in

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

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

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to **1,500** psi for 30 minutes.

Procedure: Drill to KOP following directional plan. Target flow-rate is 650 - 700 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 500 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10' until KOP, when feasible. Take surveys every stand, at a minimum. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. Continue drilling in lateral section, steering as needed to keep well on plan and in the target window. Keep DLS < 2 deg/100' and keep slide length < 20', when feasible. Take surveys every stand, at a minimum. **Target rotating parameters / performance: flow-rate is 650 - 700 GPM, differential is pressure is 700 - 1,000 psig, ROP 500 - 600 ft/hr, torque 38K ft-lbs (MAX drill pipe MUT).** After reaching TD, perform no more than one clean-up cycle to condition hole for casing running unless shakers indicate additional cleaning needed. TOOH & LD drill pipe (ROOH, if required; should NOT be required with OBM system). When pumping hole cleaning sweeps, fine LCM product is to be used -**Do not use barite for sweeps.** Run casing as described below. Use CRT for casing running only if necessary (should NOT be required with OBM but check drill pipe drag at or close to TD and please **log drag daily in WellView reports**). Verify make up torque when running casing. Space out casing getting the toe sleeve as close to LTP as possible. Land casing and test pack-off. Open floatation sub, fill casing, and circulate as required. Pump cement as detailed below. Note cement volume circulated to surface. Nipple down BOPE. Clean pits. RDMO to next pad.

Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	5.500	20.0	HCP-110	LTC	12,200	12,640	641,000	548,000
Loading					3,279	9,121	417,309	417,309
Min. S.F.					3.72	1.39	1.54	1.31

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: 4,270 Optimum: 5,690 Maximum: 7,110

Casing Summary: Float shoe, 1 jt casing, float collar, 20' marker joint, toe-initiation sleeve, casing to KOP with 20' marker joints spaced evenly in lateral every 2,000', floatation sub at KOP, casing to surface. The toe-initiation sleeve (last-take-point) cannot be placed closer than 330' to the unit boundary when measured perpendicular to the well path.

Casing Summary: Float shoe, 1 jt casing, float collar w/debris catcher (**Weatherford (WFT) float equipment**), 20' marker joint, toe-initiation sleeve (**WFT RD 10,500 psi**), casing to KOP with 20' marker joints spaced evenly in lateral every ~2,000', floatation sub (**NCS Air-Lock 5,500 psi from WFT**), casing to surface. **The toe-initiation sleeve shall be placed no closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the the azimuth of the well. Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

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

Lateral: 1 centralizer per 3 joints (purchase centralizers from Scepter Supply)

Top of curve to 9-5/8" shoe: 1 centralizer per 5 joints

9-5/8" shoe to surface: 1 centralizer per 5 joints

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Open hole % 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	0%	0	667	1,580
Tail	G:POZ blend	13.3	1.570	7.70	10%	5,856	2,016	3,166
Displacement	406	est bbls						
Annular Capacity	0.2691	cuft/ft	5-1/2" casing x 9-5/8" casing annulus				5-1/2" 20# ID	
	0.2291	cuft/ft	5-1/2" casing x 8-1/2" hole annulus				4.778	
	0.1245	cuft/ft	5-1/2" casing vol est shoe jt ft 65					

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

American Cementing Liner & Production Blend

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	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx	

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

American Cementing Liner & Production Blend

LCM will be added to spacer. LCM may be added lead slurry and tail slurry depending on drilling observations and observations during cementing on initial wells on pad.

Notify NMOCD & BLM if cement is not circulated to surface.

Note: This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. **Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.**

FINISH WELL: ND BOP, cap well, RDMO.

Procedure: ND BOP. Install BPV in WH if available. Install cap with pressure gauge on WH. Frac stack to be installed at later date. RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 18,286

Est Frac Inform: 76 Frac Stages 293,000 bbls slick water 23,780,000 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

Greg Olson 8/17/2023



Well: Rincon Unit 915H
Site: Rincon pad (613, 615, 713, 715, 815, 817, 915 & 917)
Project: Rio Arriba County, New Mexico NAD83 NM W
Design: rev1
Rig:

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6538+25 @ 6563.00ft
Surface location:

Northing: 2024758.600 Easting: 2830379.263 Latitude: 36.563863000 Longitude: -107.467997000

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.28°



Azimuths to Grid North
True North: -0.22°
Magnetic North: 8.28°
Magnetic Field
Strength: 49320.3nT
Dip Angle: 63.03°
Date: 7/21/2023
Model: IGRF2020

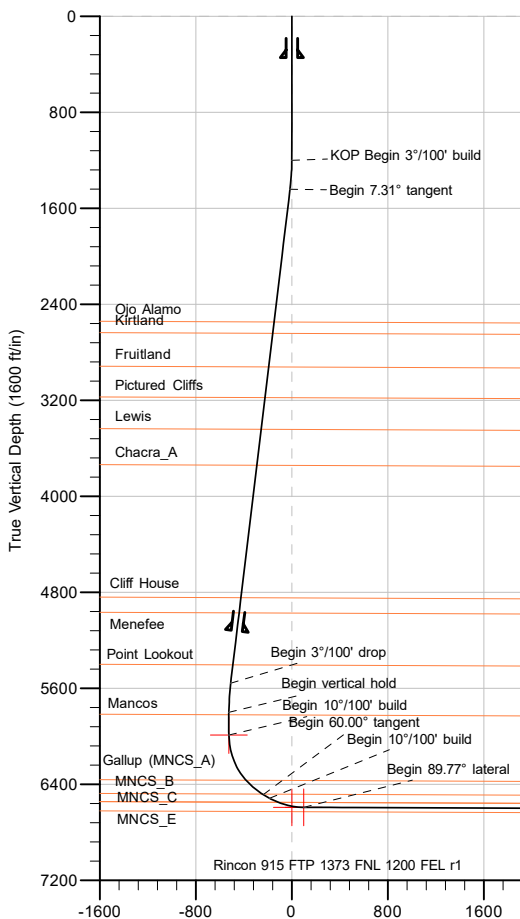
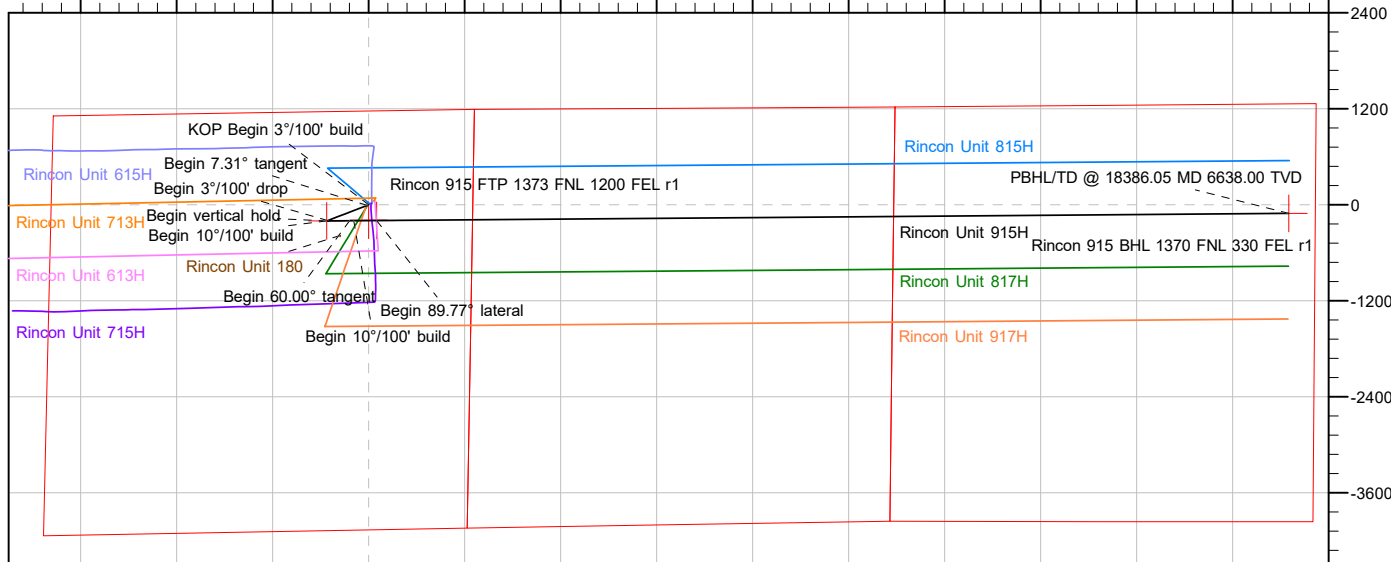


CASING DETAILS

TVD	MD	Name
345.00	345.00	13 3/8" Csg
5123.00	5153.84	9 5/8" Csg

West(-)/East(+) (2400 ft/in)

-3600 -2400 -1200 0 1200 2400 3600 4800 6000 7200 8400 9600 10800 12000



8:08, July 21 2023

Vertical Section at 89.551° (1600 ft/in)

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1200.00	0.00	0.000	1200.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1443.76	7.31	248.957	1443.10	-5.58	-14.50	3.00	248.96	-14.54	Begin 7.31° tangent
4	5591.30	7.31	248.957	5556.90	-195.14	-507.22	0.00	0.00	-508.73	Begin 3°/100' drop
5	5835.06	0.00	0.000	5800.00	-200.72	-521.72	3.00	180.00	-523.28	Begin vertical hold
6	6024.51	0.00	0.000	5989.45	-200.72	-521.72	0.00	0.00	-523.28	Begin 10°/100' build
7	6624.51	60.00	89.551	6485.65	-198.48	-235.25	10.00	89.55	-236.80	Begin 60.00° tangent
8	6684.51	60.00	89.551	6515.65	-198.07	-183.29	0.00	0.00	-184.84	Begin 10°/100' build
9	6982.22	89.77	89.551	6592.40	-195.84	100.89	10.00	0.00	99.35	Begin 89.77° lateral
10	18386.05	89.77	89.551	6638.00	-106.501	1504.28	0.00	0.0011503	0.09	PBHL/TD @ 18386.05 MD 6638.00 TVD

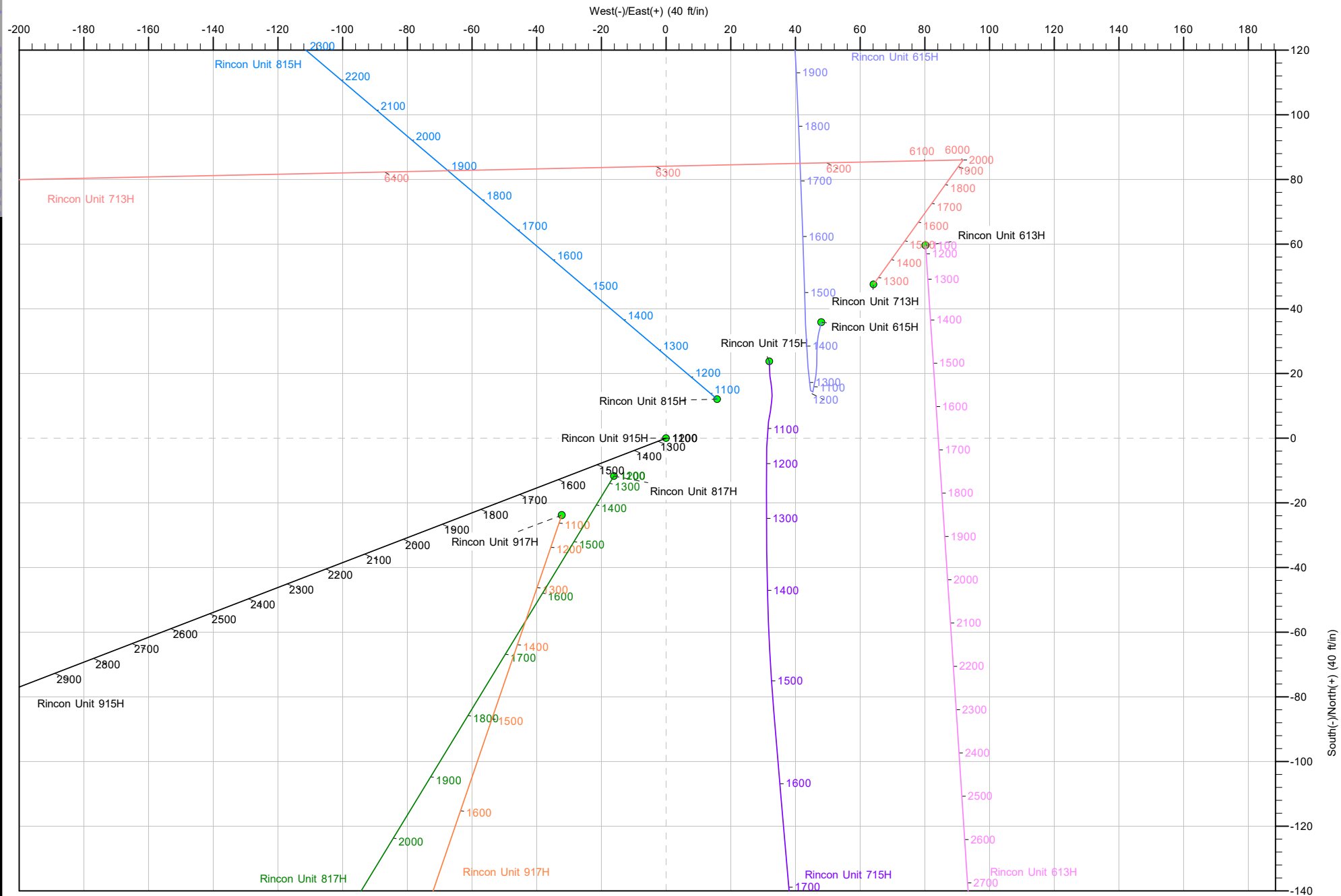
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Rincon 915 BHL 1370 FNL 330 FEL r1	6638.00	-106.50	11504.28	2024652.105	2841883.522	36.563444000	-107.428825000
Rincon 915 FTP 1373 FNL 1200 FEL r1	6592.40	-195.84	100.89	2024562.760	2830480.150	36.563324000	-107.467656000
Rincon 915 vert r1	5989.45	-200.72	-521.72	2024557.880	2829857.544	36.563317078	-107.469776111
Rincon 915 VS=0	6592.00	-191.98	1.70	2024566.619	2830380.961	36.563335635	-107.467993702

South(-)/North(+) (2400 ft/in)



Well: Rincon Unit 915H
Site: Rincon pad (613, 615, 713, 715, 815, 817, 915 & 917)
Project: Rio Arriba County, New Mexico NAD83 NM W
Design: rev1
Rig:





Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Project	Rio Arriba 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	Rincon pad (613, 615, 713, 715,815,817,915 & 917)		
Site Position:		Northing:	2,024,818.244 usft
From:	Lat/Long	Easting:	2,830,459.503 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.564026000
		Longitude:	-107.467723000

Well	Rincon Unit 915H, Surf loc: 1176 FNL 1304 FEL Section 21-T27N-R06W			
Well Position	+N/-S	0.00 ft	Northing:	2,024,758.599 usft
	+E/-W	0.00 ft	Easting:	2,830,379.263 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.22 °	Ground Level:	6,538.00 ft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2023	8.50	63.03	49,320.25152730

Design	rev1			
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	89.551

Plan Survey Tool Program	Date	7/21/2023		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,386.04 rev1 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,443.76	7.31	248.957	1,443.10	-5.58	-14.50	3.00	3.00	0.00	248.96	
5,591.30	7.31	248.957	5,556.90	-195.14	-507.22	0.00	0.00	0.00	0.00	
5,835.06	0.00	0.000	5,800.00	-200.72	-521.72	3.00	-3.00	0.00	180.00	
6,024.51	0.00	0.000	5,989.45	-200.72	-521.72	0.00	0.00	0.00	0.00	Rincon 915 vert r1
6,624.51	60.00	89.551	6,485.65	-198.48	-235.25	10.00	10.00	0.00	89.55	
6,684.51	60.00	89.551	6,515.65	-198.07	-183.29	0.00	0.00	0.00	0.00	
6,982.22	89.77	89.551	6,592.40	-195.84	100.89	10.00	10.00	0.00	0.00	
18,386.05	89.77	89.551	6,638.00	-106.50	11,504.28	0.00	0.00	0.00	0.00	Rincon 915 BHL 137C



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
345.00	0.00	0.000	345.00	0.00	0.00	0.00	0.00	0.00	0.00
13 3/8" Csg									
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
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	248.957	1,299.95	-0.94	-2.44	-2.45	3.00	3.00	0.00
1,400.00	6.00	248.957	1,399.63	-3.76	-9.76	-9.79	3.00	3.00	0.00
1,443.76	7.31	248.957	1,443.10	-5.58	-14.50	-14.54	3.00	3.00	0.00
Begin 7.31° tangent									
1,500.00	7.31	248.957	1,498.88	-8.15	-21.18	-21.24	0.00	0.00	0.00
1,600.00	7.31	248.957	1,598.07	-12.72	-33.06	-33.16	0.00	0.00	0.00
1,700.00	7.31	248.957	1,697.25	-17.29	-44.94	-45.07	0.00	0.00	0.00
1,800.00	7.31	248.957	1,796.44	-21.86	-56.82	-56.99	0.00	0.00	0.00
1,900.00	7.31	248.957	1,895.63	-26.43	-68.70	-68.90	0.00	0.00	0.00
2,000.00	7.31	248.957	1,994.81	-31.00	-80.58	-80.82	0.00	0.00	0.00
2,100.00	7.31	248.957	2,094.00	-35.57	-92.46	-92.74	0.00	0.00	0.00
2,200.00	7.31	248.957	2,193.19	-40.14	-104.34	-104.65	0.00	0.00	0.00
2,300.00	7.31	248.957	2,292.37	-44.71	-116.22	-116.57	0.00	0.00	0.00
2,400.00	7.31	248.957	2,391.56	-49.28	-128.10	-128.48	0.00	0.00	0.00
2,500.00	7.31	248.957	2,490.75	-53.85	-139.98	-140.40	0.00	0.00	0.00
2,557.13	7.31	248.957	2,547.41	-56.46	-146.77	-147.20	0.00	0.00	0.00
Ojo Alamo									
2,600.00	7.31	248.957	2,589.93	-58.42	-151.86	-152.31	0.00	0.00	0.00
2,652.86	7.31	248.957	2,642.36	-60.84	-158.14	-158.61	0.00	0.00	0.00
Kirtland									
2,700.00	7.31	248.957	2,689.12	-62.99	-163.74	-164.23	0.00	0.00	0.00
2,800.00	7.31	248.957	2,788.31	-67.57	-175.62	-176.14	0.00	0.00	0.00
2,900.00	7.31	248.957	2,887.49	-72.14	-187.50	-188.06	0.00	0.00	0.00
2,935.02	7.31	248.957	2,922.23	-73.74	-191.66	-192.23	0.00	0.00	0.00
Fruitland									
3,000.00	7.31	248.957	2,986.68	-76.71	-199.38	-199.97	0.00	0.00	0.00
3,100.00	7.31	248.957	3,085.87	-81.28	-211.26	-211.89	0.00	0.00	0.00
3,191.99	7.31	248.957	3,177.11	-85.48	-222.19	-222.85	0.00	0.00	0.00
Pictured Cliffs									
3,200.00	7.31	248.957	3,185.05	-85.85	-223.14	-223.80	0.00	0.00	0.00
3,300.00	7.31	248.957	3,284.24	-90.42	-235.02	-235.72	0.00	0.00	0.00
3,400.00	7.31	248.957	3,383.43	-94.99	-246.90	-247.63	0.00	0.00	0.00
3,459.03	7.31	248.957	3,441.98	-97.69	-253.91	-254.67	0.00	0.00	0.00
Lewis									
3,500.00	7.31	248.957	3,482.61	-99.56	-258.78	-259.55	0.00	0.00	0.00
3,600.00	7.31	248.957	3,581.80	-104.13	-270.66	-271.47	0.00	0.00	0.00



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,700.00	7.31	248.957	3,680.99	-108.70	-282.54	-283.38	0.00	0.00	0.00
3,761.35	7.31	248.957	3,741.83	-111.50	-289.83	-290.69	0.00	0.00	0.00
Chacra_A									
3,800.00	7.31	248.957	3,780.17	-113.27	-294.42	-295.30	0.00	0.00	0.00
3,900.00	7.31	248.957	3,879.36	-117.84	-306.30	-307.21	0.00	0.00	0.00
4,000.00	7.31	248.957	3,978.55	-122.41	-318.18	-319.13	0.00	0.00	0.00
4,100.00	7.31	248.957	4,077.73	-126.98	-330.06	-331.04	0.00	0.00	0.00
4,200.00	7.31	248.957	4,176.92	-131.55	-341.94	-342.96	0.00	0.00	0.00
4,300.00	7.31	248.957	4,276.11	-136.12	-353.82	-354.87	0.00	0.00	0.00
4,400.00	7.31	248.957	4,375.29	-140.69	-365.70	-366.79	0.00	0.00	0.00
4,500.00	7.31	248.957	4,474.48	-145.26	-377.58	-378.70	0.00	0.00	0.00
4,600.00	7.31	248.957	4,573.67	-149.83	-389.46	-390.62	0.00	0.00	0.00
4,700.00	7.31	248.957	4,672.85	-154.40	-401.34	-402.53	0.00	0.00	0.00
4,800.00	7.31	248.957	4,772.04	-158.98	-413.22	-414.45	0.00	0.00	0.00
4,874.87	7.31	248.957	4,846.30	-162.40	-422.11	-423.37	0.00	0.00	0.00
Cliff House									
4,900.00	7.31	248.957	4,871.23	-163.55	-425.10	-426.36	0.00	0.00	0.00
5,000.00	7.31	248.957	4,970.41	-168.12	-436.98	-438.28	0.00	0.00	0.00
5,000.84	7.31	248.957	4,971.24	-168.15	-437.07	-438.38	0.00	0.00	0.00
Menefee									
5,100.00	7.31	248.957	5,069.60	-172.69	-448.86	-450.20	0.00	0.00	0.00
5,153.84	7.31	248.957	5,123.00	-175.15	-455.25	-456.61	0.00	0.00	0.00
9 5/8" Csg									
5,200.00	7.31	248.957	5,168.79	-177.26	-460.74	-462.11	0.00	0.00	0.00
5,300.00	7.31	248.957	5,267.97	-181.83	-472.62	-474.03	0.00	0.00	0.00
5,400.00	7.31	248.957	5,367.16	-186.40	-484.50	-485.94	0.00	0.00	0.00
5,439.19	7.31	248.957	5,406.03	-188.19	-489.15	-490.61	0.00	0.00	0.00
Point Lookout									
5,500.00	7.31	248.957	5,466.34	-190.97	-496.38	-497.86	0.00	0.00	0.00
5,591.30	7.31	248.957	5,556.90	-195.14	-507.22	-508.73	0.00	0.00	0.00
Begin 3°/100' drop									
5,600.00	7.05	248.957	5,565.53	-195.53	-508.24	-509.75	3.00	-3.00	0.00
5,700.00	4.05	248.957	5,665.05	-199.01	-517.26	-518.81	3.00	-3.00	0.00
5,800.00	1.05	248.957	5,764.94	-200.60	-521.42	-522.98	3.00	-3.00	0.00
5,835.06	0.00	0.000	5,800.00	-200.72	-521.72	-523.28	3.00	-3.00	0.00
Begin vertical hold									
5,855.96	0.00	0.000	5,820.90	-200.72	-521.72	-523.28	0.00	0.00	0.00
Mancos									
5,900.00	0.00	0.000	5,864.94	-200.72	-521.72	-523.28	0.00	0.00	0.00
6,000.00	0.00	0.000	5,964.94	-200.72	-521.72	-523.28	0.00	0.00	0.00
6,024.51	0.00	0.000	5,989.45	-200.72	-521.72	-523.28	0.00	0.00	0.00
Begin 10°/100' build									
6,050.00	2.55	89.551	6,014.93	-200.72	-521.15	-522.71	10.00	10.00	0.00
6,100.00	7.55	89.551	6,064.72	-200.68	-516.75	-518.31	10.00	10.00	0.00
6,150.00	12.55	89.551	6,113.94	-200.61	-508.03	-509.59	10.00	10.00	0.00
6,200.00	17.55	89.551	6,162.21	-200.51	-495.05	-496.61	10.00	10.00	0.00
6,250.00	22.55	89.551	6,209.16	-200.38	-477.92	-479.48	10.00	10.00	0.00
6,300.00	27.55	89.551	6,254.45	-200.21	-456.76	-458.31	10.00	10.00	0.00
6,350.00	32.55	89.551	6,297.71	-200.01	-431.73	-433.28	10.00	10.00	0.00
6,400.00	37.55	89.551	6,338.63	-199.79	-403.02	-404.58	10.00	10.00	0.00
6,437.33	41.28	89.551	6,367.47	-199.60	-379.32	-380.88	10.00	10.00	0.00
Gallup (MNCS_A)									



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,450.00	42.55	89.551	6,376.90	-199.54	-370.86	-372.42	10.00	10.00	0.00	
6,500.00	47.55	89.551	6,412.21	-199.26	-335.49	-337.04	10.00	10.00	0.00	
6,550.00	52.55	89.551	6,444.31	-198.96	-297.17	-298.72	10.00	10.00	0.00	
6,600.00	57.55	89.551	6,472.94	-198.64	-256.21	-257.76	10.00	10.00	0.00	
6,617.34	59.28	89.551	6,482.03	-198.52	-241.43	-242.98	10.00	10.00	0.00	
MNCS_B										
6,624.51	60.00	89.551	6,485.65	-198.48	-235.25	-236.80	10.00	10.00	0.00	
Begin 60.00° tangent										
6,684.51	60.00	89.551	6,515.65	-198.07	-183.29	-184.84	0.00	0.00	0.00	
Begin 10°/100' build										
6,700.00	61.55	89.551	6,523.21	-197.96	-169.77	-171.32	10.00	10.00	0.00	
6,750.00	66.55	89.551	6,545.08	-197.61	-124.83	-126.37	10.00	10.00	0.00	
6,766.84	68.23	89.551	6,551.56	-197.49	-109.29	-110.83	10.00	10.00	0.00	
MNCS_C - MNCS_C @ 0VS										
6,800.00	71.55	89.551	6,562.96	-197.24	-78.15	-79.69	10.00	10.00	0.00	
6,850.00	76.55	89.551	6,576.69	-196.87	-30.09	-31.63	10.00	10.00	0.00	
6,900.00	81.55	89.551	6,586.19	-196.48	18.98	17.44	10.00	10.00	0.00	
6,950.00	86.55	89.551	6,591.37	-196.09	68.69	67.15	10.00	10.00	0.00	
6,982.22	89.77	89.551	6,592.40	-195.84	100.89	99.35	10.00	10.00	0.00	
Begin 89.77° lateral										
7,000.00	89.77	89.551	6,592.47	-195.70	118.67	117.13	0.00	0.00	0.00	
7,100.00	89.77	89.551	6,592.87	-194.92	218.67	217.13	0.00	0.00	0.00	
7,200.00	89.77	89.551	6,593.27	-194.13	318.66	317.13	0.00	0.00	0.00	
7,300.00	89.77	89.551	6,593.67	-193.35	418.66	417.13	0.00	0.00	0.00	
7,400.00	89.77	89.551	6,594.07	-192.57	518.65	517.13	0.00	0.00	0.00	
7,500.00	89.77	89.551	6,594.47	-191.78	618.65	617.13	0.00	0.00	0.00	
7,600.00	89.77	89.551	6,594.87	-191.00	718.65	717.13	0.00	0.00	0.00	
7,700.00	89.77	89.551	6,595.27	-190.22	818.64	817.13	0.00	0.00	0.00	
7,800.00	89.77	89.551	6,595.67	-189.43	918.64	917.13	0.00	0.00	0.00	
7,900.00	89.77	89.551	6,596.07	-188.65	1,018.64	1,017.13	0.00	0.00	0.00	
8,000.00	89.77	89.551	6,596.47	-187.87	1,118.63	1,117.13	0.00	0.00	0.00	
8,100.00	89.77	89.551	6,596.87	-187.08	1,218.63	1,217.12	0.00	0.00	0.00	
8,200.00	89.77	89.551	6,597.27	-186.30	1,318.62	1,317.12	0.00	0.00	0.00	
8,300.00	89.77	89.551	6,597.67	-185.52	1,418.62	1,417.12	0.00	0.00	0.00	
8,400.00	89.77	89.551	6,598.07	-184.73	1,518.62	1,517.12	0.00	0.00	0.00	
8,500.00	89.77	89.551	6,598.47	-183.95	1,618.61	1,617.12	0.00	0.00	0.00	
8,600.00	89.77	89.551	6,598.87	-183.17	1,718.61	1,717.12	0.00	0.00	0.00	
8,700.00	89.77	89.551	6,599.27	-182.38	1,818.60	1,817.12	0.00	0.00	0.00	
8,800.00	89.77	89.551	6,599.67	-181.60	1,918.60	1,917.12	0.00	0.00	0.00	
8,900.00	89.77	89.551	6,600.07	-180.82	2,018.60	2,017.12	0.00	0.00	0.00	
9,000.00	89.77	89.551	6,600.47	-180.03	2,118.59	2,117.12	0.00	0.00	0.00	
9,100.00	89.77	89.551	6,600.87	-179.25	2,218.59	2,217.12	0.00	0.00	0.00	
9,200.00	89.77	89.551	6,601.27	-178.47	2,318.59	2,317.12	0.00	0.00	0.00	
9,300.00	89.77	89.551	6,601.67	-177.68	2,418.58	2,417.11	0.00	0.00	0.00	
9,400.00	89.77	89.551	6,602.07	-176.90	2,518.58	2,517.11	0.00	0.00	0.00	
9,500.00	89.77	89.551	6,602.47	-176.11	2,618.57	2,617.11	0.00	0.00	0.00	
9,600.00	89.77	89.551	6,602.87	-175.33	2,718.57	2,717.11	0.00	0.00	0.00	
9,700.00	89.77	89.551	6,603.27	-174.55	2,818.57	2,817.11	0.00	0.00	0.00	
9,800.00	89.77	89.551	6,603.67	-173.76	2,918.56	2,917.11	0.00	0.00	0.00	
9,900.00	89.77	89.551	6,604.07	-172.98	3,018.56	3,017.11	0.00	0.00	0.00	
10,000.00	89.77	89.551	6,604.47	-172.20	3,118.55	3,117.11	0.00	0.00	0.00	
10,100.00	89.77	89.551	6,604.87	-171.41	3,218.55	3,217.11	0.00	0.00	0.00	
10,200.00	89.77	89.551	6,605.27	-170.63	3,318.55	3,317.11	0.00	0.00	0.00	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
10,300.00	89.77	89.551	6,605.67	-169.85	3,418.54	3,417.11	0.00	0.00	0.00	
10,400.00	89.77	89.551	6,606.07	-169.06	3,518.54	3,517.11	0.00	0.00	0.00	
10,500.00	89.77	89.551	6,606.47	-168.28	3,618.54	3,617.11	0.00	0.00	0.00	
10,600.00	89.77	89.551	6,606.87	-167.50	3,718.53	3,717.10	0.00	0.00	0.00	
10,700.00	89.77	89.551	6,607.27	-166.71	3,818.53	3,817.10	0.00	0.00	0.00	
10,800.00	89.77	89.551	6,607.67	-165.93	3,918.52	3,917.10	0.00	0.00	0.00	
10,900.00	89.77	89.551	6,608.07	-165.15	4,018.52	4,017.10	0.00	0.00	0.00	
11,000.00	89.77	89.551	6,608.47	-164.36	4,118.52	4,117.10	0.00	0.00	0.00	
11,100.00	89.77	89.551	6,608.87	-163.58	4,218.51	4,217.10	0.00	0.00	0.00	
11,200.00	89.77	89.551	6,609.27	-162.80	4,318.51	4,317.10	0.00	0.00	0.00	
11,300.00	89.77	89.551	6,609.67	-162.01	4,418.50	4,417.10	0.00	0.00	0.00	
11,400.00	89.77	89.551	6,610.07	-161.23	4,518.50	4,517.10	0.00	0.00	0.00	
11,500.00	89.77	89.551	6,610.47	-160.45	4,618.50	4,617.10	0.00	0.00	0.00	
11,600.00	89.77	89.551	6,610.87	-159.66	4,718.49	4,717.10	0.00	0.00	0.00	
11,700.00	89.77	89.551	6,611.27	-158.88	4,818.49	4,817.10	0.00	0.00	0.00	
11,800.00	89.77	89.551	6,611.67	-158.10	4,918.48	4,917.09	0.00	0.00	0.00	
11,900.00	89.77	89.551	6,612.07	-157.31	5,018.48	5,017.09	0.00	0.00	0.00	
12,000.00	89.77	89.551	6,612.47	-156.53	5,118.48	5,117.09	0.00	0.00	0.00	
12,100.00	89.77	89.551	6,612.87	-155.74	5,218.47	5,217.09	0.00	0.00	0.00	
12,200.00	89.77	89.551	6,613.27	-154.96	5,318.47	5,317.09	0.00	0.00	0.00	
12,300.00	89.77	89.551	6,613.67	-154.18	5,418.47	5,417.09	0.00	0.00	0.00	
12,400.00	89.77	89.551	6,614.07	-153.39	5,518.46	5,517.09	0.00	0.00	0.00	
12,500.00	89.77	89.551	6,614.47	-152.61	5,618.46	5,617.09	0.00	0.00	0.00	
12,600.00	89.77	89.551	6,614.87	-151.83	5,718.45	5,717.09	0.00	0.00	0.00	
12,700.00	89.77	89.551	6,615.27	-151.04	5,818.45	5,817.09	0.00	0.00	0.00	
12,800.00	89.77	89.551	6,615.67	-150.26	5,918.45	5,917.09	0.00	0.00	0.00	
12,900.00	89.77	89.551	6,616.06	-149.48	6,018.44	6,017.09	0.00	0.00	0.00	
13,000.00	89.77	89.551	6,616.46	-148.69	6,118.44	6,117.09	0.00	0.00	0.00	
13,100.00	89.77	89.551	6,616.86	-147.91	6,218.43	6,217.08	0.00	0.00	0.00	
13,200.00	89.77	89.551	6,617.26	-147.13	6,318.43	6,317.08	0.00	0.00	0.00	
13,300.00	89.77	89.551	6,617.66	-146.34	6,418.43	6,417.08	0.00	0.00	0.00	
13,400.00	89.77	89.551	6,618.06	-145.56	6,518.42	6,517.08	0.00	0.00	0.00	
13,500.00	89.77	89.551	6,618.46	-144.78	6,618.42	6,617.08	0.00	0.00	0.00	
13,600.00	89.77	89.551	6,618.86	-143.99	6,718.42	6,717.08	0.00	0.00	0.00	
13,700.00	89.77	89.551	6,619.26	-143.21	6,818.41	6,817.08	0.00	0.00	0.00	
13,800.00	89.77	89.551	6,619.66	-142.43	6,918.41	6,917.08	0.00	0.00	0.00	
13,900.00	89.77	89.551	6,620.06	-141.64	7,018.40	7,017.08	0.00	0.00	0.00	
14,000.00	89.77	89.551	6,620.46	-140.86	7,118.40	7,117.08	0.00	0.00	0.00	
14,100.00	89.77	89.551	6,620.86	-140.08	7,218.40	7,217.08	0.00	0.00	0.00	
14,200.00	89.77	89.551	6,621.26	-139.29	7,318.39	7,317.08	0.00	0.00	0.00	
14,300.00	89.77	89.551	6,621.66	-138.51	7,418.39	7,417.07	0.00	0.00	0.00	
14,400.00	89.77	89.551	6,622.06	-137.72	7,518.38	7,517.07	0.00	0.00	0.00	
14,500.00	89.77	89.551	6,622.46	-136.94	7,618.38	7,617.07	0.00	0.00	0.00	
14,600.00	89.77	89.551	6,622.86	-136.16	7,718.38	7,717.07	0.00	0.00	0.00	
14,700.00	89.77	89.551	6,623.26	-135.37	7,818.37	7,817.07	0.00	0.00	0.00	
14,800.00	89.77	89.551	6,623.66	-134.59	7,918.37	7,917.07	0.00	0.00	0.00	
14,900.00	89.77	89.551	6,624.06	-133.81	8,018.36	8,017.07	0.00	0.00	0.00	
15,000.00	89.77	89.551	6,624.46	-133.02	8,118.36	8,117.07	0.00	0.00	0.00	
15,100.00	89.77	89.551	6,624.86	-132.24	8,218.36	8,217.07	0.00	0.00	0.00	
15,200.00	89.77	89.551	6,625.26	-131.46	8,318.35	8,317.07	0.00	0.00	0.00	
15,300.00	89.77	89.551	6,625.66	-130.67	8,418.35	8,417.07	0.00	0.00	0.00	
15,400.00	89.77	89.551	6,626.06	-129.89	8,518.35	8,517.07	0.00	0.00	0.00	
15,500.00	89.77	89.551	6,626.46	-129.11	8,618.34	8,617.07	0.00	0.00	0.00	



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
15,600.00	89.77	89.551	6,626.86	-128.32	8,718.34	8,717.06	0.00	0.00	0.00	
15,700.00	89.77	89.551	6,627.26	-127.54	8,818.33	8,817.06	0.00	0.00	0.00	
15,800.00	89.77	89.551	6,627.66	-126.76	8,918.33	8,917.06	0.00	0.00	0.00	
15,900.00	89.77	89.551	6,628.06	-125.97	9,018.33	9,017.06	0.00	0.00	0.00	
16,000.00	89.77	89.551	6,628.46	-125.19	9,118.32	9,117.06	0.00	0.00	0.00	
16,100.00	89.77	89.551	6,628.86	-124.41	9,218.32	9,217.06	0.00	0.00	0.00	
16,200.00	89.77	89.551	6,629.26	-123.62	9,318.31	9,317.06	0.00	0.00	0.00	
16,300.00	89.77	89.551	6,629.66	-122.84	9,418.31	9,417.06	0.00	0.00	0.00	
16,400.00	89.77	89.551	6,630.06	-122.06	9,518.31	9,517.06	0.00	0.00	0.00	
16,500.00	89.77	89.551	6,630.46	-121.27	9,618.30	9,617.06	0.00	0.00	0.00	
16,600.00	89.77	89.551	6,630.86	-120.49	9,718.30	9,717.06	0.00	0.00	0.00	
16,700.00	89.77	89.551	6,631.26	-119.70	9,818.30	9,817.06	0.00	0.00	0.00	
16,800.00	89.77	89.551	6,631.66	-118.92	9,918.29	9,917.05	0.00	0.00	0.00	
16,900.00	89.77	89.551	6,632.06	-118.14	10,018.29	10,017.05	0.00	0.00	0.00	
17,000.00	89.77	89.551	6,632.46	-117.35	10,118.28	10,117.05	0.00	0.00	0.00	
17,100.00	89.77	89.551	6,632.86	-116.57	10,218.28	10,217.05	0.00	0.00	0.00	
17,200.00	89.77	89.551	6,633.26	-115.79	10,318.28	10,317.05	0.00	0.00	0.00	
17,300.00	89.77	89.551	6,633.66	-115.00	10,418.27	10,417.05	0.00	0.00	0.00	
17,400.00	89.77	89.551	6,634.06	-114.22	10,518.27	10,517.05	0.00	0.00	0.00	
17,500.00	89.77	89.551	6,634.46	-113.44	10,618.26	10,617.05	0.00	0.00	0.00	
17,600.00	89.77	89.551	6,634.86	-112.65	10,718.26	10,717.05	0.00	0.00	0.00	
17,700.00	89.77	89.551	6,635.26	-111.87	10,818.26	10,817.05	0.00	0.00	0.00	
17,800.00	89.77	89.551	6,635.66	-111.09	10,918.25	10,917.05	0.00	0.00	0.00	
17,900.00	89.77	89.551	6,636.06	-110.30	11,018.25	11,017.05	0.00	0.00	0.00	
18,000.00	89.77	89.551	6,636.46	-109.52	11,118.25	11,117.05	0.00	0.00	0.00	
18,100.00	89.77	89.551	6,636.86	-108.74	11,218.24	11,217.04	0.00	0.00	0.00	
18,200.00	89.77	89.551	6,637.26	-107.95	11,318.24	11,317.04	0.00	0.00	0.00	
18,300.00	89.77	89.551	6,637.66	-107.17	11,418.23	11,417.04	0.00	0.00	0.00	
18,386.05	89.77	89.551	6,638.00	-106.50	11,504.28	11,503.09	0.00	0.00	0.00	
PBHL/TD @ 18386.05 MD 6638.00 TVD										

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Rincon 915 vert r1 - plan hits target center - Point	0.00	0.000	5,989.45	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
Rincon 915 VS=0 - plan misses target center by 9.69ft at 6884.17ft MD (6583.64 TVD, -196.61 N, 3.35 E) - Point	0.00	0.000	6,592.00	-191.98	1.70	2,024,566.619	2,830,380.961	36.563335635	-107.467993702
Rincon 915 FTP 1373 FI - plan hits target center - Point	0.00	0.000	6,592.40	-195.84	100.89	2,024,562.760	2,830,480.150	36.563324000	-107.467656000
Rincon 915 BHL 1370 FI - plan hits target center - Point	0.00	0.000	6,638.00	-106.50	11,504.28	2,024,652.104	2,841,883.522	36.563444000	-107.428825000



Planning Report

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
345.00	345.00	13 3/8" Csg	13-3/8	17-1/2	
5,153.84	5,123.00	9 5/8" Csg	9-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,557.13	2,547.41	Ojo Alamo		0.23	89.580
2,652.86	2,642.36	Kirtland		0.23	89.580
2,935.02	2,922.23	Fruitland		0.23	89.580
3,191.99	3,177.11	Pictured Cliffs		0.23	89.580
3,459.03	3,441.98	Lewis		0.23	89.580
3,761.35	3,741.83	Chacra_A		0.23	89.580
4,874.87	4,846.30	Cliff House		0.23	89.580
5,000.84	4,971.24	Menefee		0.23	89.580
5,439.19	5,406.03	Point Lookout		0.23	89.580
5,855.96	5,820.90	Mancos		0.23	89.580
6,437.33	6,367.47	Gallup (MNCS_A)		0.23	89.580
6,617.34	6,482.03	MNCS_B		0.23	89.580
6,766.84	6,551.56	MNCS_C		0.23	89.580
6,766.84	6,551.56	MNCS_C @ 0VS		0.23	89.580

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	
1,443.76	1,443.10	-5.58	-14.50	Begin 7.31° tangent	
5,591.30	5,556.90	-195.14	-507.22	Begin 3°/100' drop	
5,835.06	5,800.00	-200.72	-521.72	Begin vertical hold	
6,024.51	5,989.45	-200.72	-521.72	Begin 10°/100' build	
6,624.51	6,485.65	-198.48	-235.25	Begin 60.00° tangent	
6,684.51	6,515.65	-198.07	-183.29	Begin 10°/100' build	
6,982.22	6,592.40	-195.84	100.89	Begin 89.77° lateral	
18,386.05	6,638.00	-106.50	11,504.28	PBHL/TD @ 18386.05 MD 6638.00 TVD	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Project	Rio Arriba 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	Rincon pad (613, 615, 713, 715,815,817,915 & 917)		
Site Position:		Northing:	2,024,818.244 usft
From:	Lat/Long	Easting:	2,830,459.503 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	36.564026000
		Longitude:	-107.467723000

Well	Rincon Unit 915H, Surf loc: 1176 FNL 1304 FEL Section 21-T27N-R06W					
Well Position	+N/-S	0.00 ft	Northing:	2,024,758.599 usft	Latitude:	36.563863000
	+E/-W	0.00 ft	Easting:	2,830,379.263 usft	Longitude:	-107.467997000
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,538.00 ft
Grid Convergence:		0.22 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/21/2023	8.50	63.03	49,320.25152730

Design	rev1				
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	89.551	

Plan Survey Tool Program	Date	7/21/2023			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	18,386.04 rev1 (Original Hole)	MWD		
			OWSG MWD - Standard		



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,443.76	7.31	248.957	1,443.10	-5.58	-14.50	3.00	3.00	0.00	248.96	
5,591.30	7.31	248.957	5,556.90	-195.14	-507.22	0.00	0.00	0.00	0.00	
5,835.06	0.00	0.000	5,800.00	-200.72	-521.72	3.00	-3.00	0.00	180.00	
6,024.51	0.00	0.000	5,989.45	-200.72	-521.72	0.00	0.00	0.00	0.00	Rincon 915 vert r1
6,624.51	60.00	89.551	6,485.65	-198.48	-235.25	10.00	10.00	0.00	89.55	
6,684.51	60.00	89.551	6,515.65	-198.07	-183.29	0.00	0.00	0.00	0.00	
6,982.22	89.77	89.551	6,592.40	-195.84	100.89	10.00	10.00	0.00	0.00	
18,386.05	89.77	89.551	6,638.00	-106.50	11,504.28	0.00	0.00	0.00	0.00	Rincon 915 BHL 137C



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
100.00	0.00	0.000	100.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
200.00	0.00	0.000	200.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
300.00	0.00	0.000	300.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
345.00	0.00	0.000	345.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
13 3/8" Csg									
400.00	0.00	0.000	400.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
500.00	0.00	0.000	500.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
600.00	0.00	0.000	600.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
700.00	0.00	0.000	700.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
800.00	0.00	0.000	800.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
900.00	0.00	0.000	900.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
1,100.00	0.00	0.000	1,100.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
1,200.00	0.00	0.000	1,200.00	0.00	0.00	2,024,758.599	2,830,379.263	36.563863000	-107.467997000
KOP Begin 3°/100' build									
1,300.00	3.00	248.957	1,299.95	-0.94	-2.44	2,024,757.660	2,830,376.820	36.563860444	-107.468005331
1,400.00	6.00	248.957	1,399.63	-3.76	-9.76	2,024,754.843	2,830,369.498	36.563852783	-107.468030299
1,443.76	7.31	248.957	1,443.10	-5.58	-14.50	2,024,753.021	2,830,364.764	36.563847829	-107.468046444
Begin 7.31° tangent									
1,500.00	7.31	248.957	1,498.88	-8.15	-21.18	2,024,750.451	2,830,358.083	36.563840838	-107.468069226
1,600.00	7.31	248.957	1,598.07	-12.72	-33.06	2,024,745.880	2,830,346.203	36.563828407	-107.468109738
1,700.00	7.31	248.957	1,697.25	-17.29	-44.94	2,024,741.310	2,830,334.323	36.563815977	-107.468150250
1,800.00	7.31	248.957	1,796.44	-21.86	-56.82	2,024,736.739	2,830,322.443	36.563803546	-107.468190762
1,900.00	7.31	248.957	1,895.63	-26.43	-68.70	2,024,732.169	2,830,310.563	36.563791115	-107.468231273
2,000.00	7.31	248.957	1,994.81	-31.00	-80.58	2,024,727.598	2,830,298.684	36.563778684	-107.468271785
2,100.00	7.31	248.957	2,094.00	-35.57	-92.46	2,024,723.028	2,830,286.804	36.563766254	-107.468312296
2,200.00	7.31	248.957	2,193.19	-40.14	-104.34	2,024,718.457	2,830,274.924	36.563753823	-107.468352808
2,300.00	7.31	248.957	2,292.37	-44.71	-116.22	2,024,713.887	2,830,263.044	36.563741392	-107.468393320
2,400.00	7.31	248.957	2,391.56	-49.28	-128.10	2,024,709.316	2,830,251.164	36.563728961	-107.468433831
2,500.00	7.31	248.957	2,490.75	-53.85	-139.98	2,024,704.746	2,830,239.284	36.563716530	-107.468474343
2,557.13	7.31	248.957	2,547.41	-56.46	-146.77	2,024,702.135	2,830,232.498	36.563709429	-107.468497486
Ojo Alamo									
2,600.00	7.31	248.957	2,589.93	-58.42	-151.86	2,024,700.175	2,830,227.404	36.563704100	-107.468514854
2,652.86	7.31	248.957	2,642.36	-60.84	-158.14	2,024,697.759	2,830,221.125	36.563697529	-107.468536269
Kirtland									
2,700.00	7.31	248.957	2,689.12	-62.99	-163.74	2,024,695.605	2,830,215.525	36.563691669	-107.468555366
2,800.00	7.31	248.957	2,788.31	-67.57	-175.62	2,024,691.034	2,830,203.645	36.563679238	-107.468595877
2,900.00	7.31	248.957	2,887.49	-72.14	-187.50	2,024,686.464	2,830,191.765	36.563666807	-107.468636389
2,935.02	7.31	248.957	2,922.23	-73.74	-191.66	2,024,684.863	2,830,187.605	36.563662454	-107.468650576
Fruitland									
3,000.00	7.31	248.957	2,986.68	-76.71	-199.38	2,024,681.893	2,830,179.885	36.563654376	-107.468676900
3,100.00	7.31	248.957	3,085.87	-81.28	-211.26	2,024,677.323	2,830,168.005	36.563641945	-107.468717412
3,191.99	7.31	248.957	3,177.11	-85.48	-222.19	2,024,673.119	2,830,157.077	36.563630510	-107.468754677
Pictured Cliffs									
3,200.00	7.31	248.957	3,185.05	-85.85	-223.14	2,024,672.752	2,830,156.125	36.563629514	-107.468757923
3,300.00	7.31	248.957	3,284.24	-90.42	-235.02	2,024,668.182	2,830,144.245	36.563617083	-107.468798435
3,400.00	7.31	248.957	3,383.43	-94.99	-246.90	2,024,663.611	2,830,132.366	36.563604652	-107.468838946
3,459.03	7.31	248.957	3,441.98	-97.69	-253.91	2,024,660.913	2,830,125.353	36.563597314	-107.468862861
Lewis									
3,500.00	7.31	248.957	3,482.61	-99.56	-258.78	2,024,659.041	2,830,120.486	36.563592221	-107.468879458
3,600.00	7.31	248.957	3,581.80	-104.13	-270.66	2,024,654.470	2,830,108.606	36.563579790	-107.468919969
3,700.00	7.31	248.957	3,680.99	-108.70	-282.54	2,024,649.900	2,830,096.726	36.563567359	-107.468960481



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,761.35	7.31	248.957	3,741.83	-111.50	-289.83	2,024,647.096	2,830,089.438	36.563559734	-107.468985333
Chacra_A									
3,800.00	7.31	248.957	3,780.17	-113.27	-294.42	2,024,645.329	2,830,084.846	36.563554928	-107.469000992
3,900.00	7.31	248.957	3,879.36	-117.84	-306.30	2,024,640.759	2,830,072.966	36.563542497	-107.469041503
4,000.00	7.31	248.957	3,978.55	-122.41	-318.18	2,024,636.188	2,830,061.087	36.563530066	-107.469082015
4,100.00	7.31	248.957	4,077.73	-126.98	-330.06	2,024,631.618	2,830,049.207	36.563517635	-107.469122526
4,200.00	7.31	248.957	4,176.92	-131.55	-341.94	2,024,627.047	2,830,037.327	36.563505204	-107.469163038
4,300.00	7.31	248.957	4,276.11	-136.12	-353.82	2,024,622.477	2,830,025.447	36.563492773	-107.469203549
4,400.00	7.31	248.957	4,375.29	-140.69	-365.70	2,024,617.906	2,830,013.567	36.563480342	-107.469244060
4,500.00	7.31	248.957	4,474.48	-145.26	-377.58	2,024,613.336	2,830,001.687	36.563467911	-107.469284571
4,600.00	7.31	248.957	4,573.67	-149.83	-389.46	2,024,608.765	2,829,989.807	36.563455480	-107.469325083
4,700.00	7.31	248.957	4,672.85	-154.40	-401.34	2,024,604.195	2,829,977.928	36.563443049	-107.469365594
4,800.00	7.31	248.957	4,772.04	-158.98	-413.22	2,024,599.624	2,829,966.048	36.563430618	-107.469406105
4,874.87	7.31	248.957	4,846.30	-162.40	-422.11	2,024,596.202	2,829,957.153	36.563421310	-107.469436437
Cliff House									
4,900.00	7.31	248.957	4,871.23	-163.55	-425.10	2,024,595.054	2,829,954.168	36.563418186	-107.469446617
5,000.00	7.31	248.957	4,970.41	-168.12	-436.98	2,024,590.483	2,829,942.288	36.563405755	-107.469487128
5,000.84	7.31	248.957	4,971.24	-168.15	-437.07	2,024,590.445	2,829,942.189	36.563405651	-107.469487466
Menefee									
5,100.00	7.31	248.957	5,069.60	-172.69	-448.86	2,024,585.913	2,829,930.408	36.563393324	-107.469527639
5,153.84	7.31	248.957	5,123.00	-175.15	-455.25	2,024,583.452	2,829,924.012	36.563386631	-107.469549450
9 5/8" Csg									
5,200.00	7.31	248.957	5,168.79	-177.26	-460.74	2,024,581.342	2,829,918.528	36.563380893	-107.469568150
5,300.00	7.31	248.957	5,267.97	-181.83	-472.62	2,024,576.772	2,829,906.648	36.563368462	-107.469608662
5,400.00	7.31	248.957	5,367.16	-186.40	-484.50	2,024,572.201	2,829,894.769	36.563356030	-107.469649173
5,439.19	7.31	248.957	5,406.03	-188.19	-489.15	2,024,570.410	2,829,890.113	36.563351158	-107.469665050
Point Lookout									
5,500.00	7.31	248.957	5,466.34	-190.97	-496.38	2,024,567.631	2,829,882.889	36.563343599	-107.469689684
5,591.30	7.31	248.957	5,556.90	-195.14	-507.22	2,024,563.458	2,829,872.043	36.563332250	-107.469726669
Begin 3"/100' drop									
5,600.00	7.05	248.957	5,565.53	-195.53	-508.24	2,024,563.067	2,829,871.027	36.563331187	-107.469730132
5,700.00	4.05	248.957	5,665.05	-199.01	-517.26	2,024,559.594	2,829,861.999	36.563321740	-107.469760920
5,800.00	1.05	248.957	5,764.94	-200.60	-521.42	2,024,557.995	2,829,857.844	36.563317392	-107.469775088
5,835.06	0.00	0.000	5,800.00	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
Begin vertical hold									
5,855.96	0.00	0.000	5,820.90	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
Mancos									
5,900.00	0.00	0.000	5,864.94	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
6,000.00	0.00	0.000	5,964.94	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
6,024.51	0.00	0.000	5,989.45	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
Begin 10"/100' build									
6,050.00	2.55	89.551	6,014.93	-200.72	-521.15	2,024,557.884	2,829,858.111	36.563317084	-107.469774181
6,100.00	7.55	89.551	6,064.72	-200.68	-516.75	2,024,557.919	2,829,862.510	36.563317133	-107.469759202
6,150.00	12.55	89.551	6,113.94	-200.61	-508.03	2,024,557.987	2,829,871.231	36.563317230	-107.469729503
6,200.00	17.55	89.551	6,162.21	-200.51	-495.05	2,024,558.089	2,829,884.209	36.563317375	-107.469685311
6,250.00	22.55	89.551	6,209.16	-200.38	-477.92	2,024,558.223	2,829,901.344	36.563317566	-107.469626962
6,300.00	27.55	89.551	6,254.45	-200.21	-456.76	2,024,558.389	2,829,922.507	36.563317802	-107.469554900
6,350.00	32.55	89.551	6,297.71	-200.01	-431.73	2,024,558.585	2,829,947.535	36.563318080	-107.469469673
6,400.00	37.55	89.551	6,338.63	-199.79	-403.02	2,024,558.810	2,829,976.239	36.563318400	-107.469371930
6,437.33	41.28	89.551	6,367.47	-199.60	-379.32	2,024,558.996	2,829,999.939	36.563318664	-107.469291226
Gallup (MNCS_A)									
6,450.00	42.55	89.551	6,376.90	-199.54	-370.86	2,024,559.062	2,830,008.400	36.563318758	-107.469262415



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Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
6,500.00	47.55	89.551	6,412.21	-199.26	-335.49	2,024,559.339	2,830,043.773	36.563319151	-107.469141961	
6,550.00	52.55	89.551	6,444.31	-198.96	-297.17	2,024,559.640	2,830,082.089	36.563319578	-107.469011485	
6,600.00	57.55	89.551	6,472.94	-198.64	-256.21	2,024,559.961	2,830,123.057	36.563320033	-107.468871981	
6,617.34	59.28	89.551	6,482.03	-198.52	-241.43	2,024,560.076	2,830,137.831	36.563320197	-107.468821671	
MNCS_B										
6,624.51	60.00	89.551	6,485.65	-198.48	-235.25	2,024,560.125	2,830,144.013	36.563320266	-107.468800620	
Begin 60.00° tangent										
6,684.51	60.00	89.551	6,515.65	-198.07	-183.29	2,024,560.532	2,830,195.973	36.563320844	-107.468623685	
Begin 10°/100' build										
6,700.00	61.55	89.551	6,523.21	-197.96	-169.77	2,024,560.638	2,830,209.491	36.563320994	-107.468577653	
6,750.00	66.55	89.551	6,545.08	-197.61	-124.83	2,024,560.990	2,830,254.434	36.563321493	-107.468424613	
6,766.84	68.23	89.551	6,551.56	-197.49	-109.29	2,024,561.112	2,830,269.978	36.563321665	-107.468371684	
MNCS_C - MNCS_C @ 0VS										
6,800.00	71.55	89.551	6,562.96	-197.24	-78.15	2,024,561.356	2,830,301.112	36.563322011	-107.468265664	
6,850.00	76.55	89.551	6,576.69	-196.87	-30.09	2,024,561.732	2,830,349.170	36.563322544	-107.468102016	
6,900.00	81.55	89.551	6,586.19	-196.48	18.98	2,024,562.117	2,830,398.242	36.563323088	-107.467934914	
6,950.00	86.55	89.551	6,591.37	-196.09	68.69	2,024,562.507	2,830,447.955	36.563323639	-107.467765630	
6,982.22	89.77	89.551	6,592.40	-195.84	100.89	2,024,562.759	2,830,480.152	36.563323996	-107.467655994	
Begin 89.77° lateral										
7,000.00	89.77	89.551	6,592.47	-195.70	118.67	2,024,562.898	2,830,497.933	36.563324193	-107.467595446	
7,100.00	89.77	89.551	6,592.87	-194.92	218.67	2,024,563.682	2,830,597.929	36.563325300	-107.467254938	
7,200.00	89.77	89.551	6,593.27	-194.13	318.66	2,024,564.465	2,830,697.925	36.563326406	-107.466914429	
7,300.00	89.77	89.551	6,593.67	-193.35	418.66	2,024,565.248	2,830,797.921	36.563327512	-107.466573921	
7,400.00	89.77	89.551	6,594.07	-192.57	518.65	2,024,566.032	2,830,897.917	36.563328616	-107.466233413	
7,500.00	89.77	89.551	6,594.47	-191.78	618.65	2,024,566.815	2,830,997.912	36.563329719	-107.465892905	
7,600.00	89.77	89.551	6,594.87	-191.00	718.65	2,024,567.599	2,831,097.908	36.563330821	-107.465552396	
7,700.00	89.77	89.551	6,595.27	-190.22	818.64	2,024,568.382	2,831,197.904	36.563331922	-107.465211888	
7,800.00	89.77	89.551	6,595.67	-189.43	918.64	2,024,569.166	2,831,297.900	36.563333023	-107.464871380	
7,900.00	89.77	89.551	6,596.07	-188.65	1,018.64	2,024,569.949	2,831,397.896	36.563334122	-107.464530872	
8,000.00	89.77	89.551	6,596.47	-187.87	1,118.63	2,024,570.733	2,831,497.892	36.563335220	-107.464190364	
8,100.00	89.77	89.551	6,596.87	-187.08	1,218.63	2,024,571.516	2,831,597.888	36.563336318	-107.463849855	
8,200.00	89.77	89.551	6,597.27	-186.30	1,318.62	2,024,572.300	2,831,697.884	36.563337414	-107.463509347	
8,300.00	89.77	89.551	6,597.67	-185.52	1,418.62	2,024,573.083	2,831,797.881	36.563338510	-107.463168839	
8,400.00	89.77	89.551	6,598.07	-184.73	1,518.62	2,024,573.867	2,831,897.877	36.563339604	-107.462828331	
8,500.00	89.77	89.551	6,598.47	-183.95	1,618.61	2,024,574.650	2,831,997.873	36.563340698	-107.462487822	
8,600.00	89.77	89.551	6,598.87	-183.17	1,718.61	2,024,575.434	2,832,097.869	36.563341790	-107.462147314	
8,700.00	89.77	89.551	6,599.27	-182.38	1,818.60	2,024,576.217	2,832,197.865	36.563342882	-107.461806806	
8,800.00	89.77	89.551	6,599.67	-181.60	1,918.60	2,024,577.001	2,832,297.861	36.563343972	-107.461466298	
8,900.00	89.77	89.551	6,600.07	-180.82	2,018.60	2,024,577.784	2,832,397.856	36.563345062	-107.461125789	
9,000.00	89.77	89.551	6,600.47	-180.03	2,118.59	2,024,578.567	2,832,497.852	36.563346151	-107.460785281	
9,100.00	89.77	89.551	6,600.87	-179.25	2,218.59	2,024,579.351	2,832,597.848	36.563347238	-107.460444773	
9,200.00	89.77	89.551	6,601.27	-178.47	2,318.59	2,024,580.134	2,832,697.844	36.563348325	-107.460104265	
9,300.00	89.77	89.551	6,601.67	-177.68	2,418.58	2,024,580.918	2,832,797.840	36.563349411	-107.459763756	
9,400.00	89.77	89.551	6,602.07	-176.90	2,518.58	2,024,581.701	2,832,897.836	36.563350495	-107.459423248	
9,500.00	89.77	89.551	6,602.47	-176.11	2,618.57	2,024,582.485	2,832,997.832	36.563351579	-107.459082740	
9,600.00	89.77	89.551	6,602.87	-175.33	2,718.57	2,024,583.268	2,833,097.828	36.563352662	-107.458742232	
9,700.00	89.77	89.551	6,603.27	-174.55	2,818.57	2,024,584.052	2,833,197.824	36.563353744	-107.458401723	
9,800.00	89.77	89.551	6,603.67	-173.76	2,918.56	2,024,584.835	2,833,297.820	36.563354825	-107.458061215	
9,900.00	89.77	89.551	6,604.07	-172.98	3,018.56	2,024,585.619	2,833,397.816	36.563355904	-107.457720707	
10,000.00	89.77	89.551	6,604.47	-172.20	3,118.55	2,024,586.402	2,833,497.812	36.563356983	-107.457380199	
10,100.00	89.77	89.551	6,604.87	-171.41	3,218.55	2,024,587.186	2,833,597.808	36.563358061	-107.457039690	
10,200.00	89.77	89.551	6,605.27	-170.63	3,318.55	2,024,587.969	2,833,697.803	36.563359138	-107.456699182	
10,300.00	89.77	89.551	6,605.67	-169.85	3,418.54	2,024,588.753	2,833,797.799	36.563360214	-107.456358674	



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,400.00	89.77	89.551	6,606.07	-169.06	3,518.54	2,024,589.536	2,833,897.795	36.563361289	-107.456018166
10,500.00	89.77	89.551	6,606.47	-168.28	3,618.54	2,024,590.320	2,833,997.791	36.563362363	-107.455677657
10,600.00	89.77	89.551	6,606.87	-167.50	3,718.53	2,024,591.103	2,834,097.787	36.563363436	-107.455337149
10,700.00	89.77	89.551	6,607.27	-166.71	3,818.53	2,024,591.886	2,834,197.783	36.563364508	-107.454996641
10,800.00	89.77	89.551	6,607.67	-165.93	3,918.52	2,024,592.670	2,834,297.779	36.563365580	-107.454656133
10,900.00	89.77	89.551	6,608.07	-165.15	4,018.52	2,024,593.453	2,834,397.775	36.563366650	-107.454315624
11,000.00	89.77	89.551	6,608.47	-164.36	4,118.52	2,024,594.237	2,834,497.771	36.563367719	-107.453975116
11,100.00	89.77	89.551	6,608.87	-163.58	4,218.51	2,024,595.020	2,834,597.767	36.563368787	-107.453634608
11,200.00	89.77	89.551	6,609.27	-162.80	4,318.51	2,024,595.804	2,834,697.763	36.563369854	-107.453294099
11,300.00	89.77	89.551	6,609.67	-162.01	4,418.50	2,024,596.587	2,834,797.759	36.563370921	-107.452953591
11,400.00	89.77	89.551	6,610.07	-161.23	4,518.50	2,024,597.371	2,834,897.755	36.563371986	-107.452613083
11,500.00	89.77	89.551	6,610.47	-160.45	4,618.50	2,024,598.154	2,834,997.751	36.563373050	-107.452272575
11,600.00	89.77	89.551	6,610.87	-159.66	4,718.49	2,024,598.938	2,835,097.746	36.563374113	-107.451932066
11,700.00	89.77	89.551	6,611.27	-158.88	4,818.49	2,024,599.721	2,835,197.742	36.563375176	-107.451591558
11,800.00	89.77	89.551	6,611.67	-158.10	4,918.48	2,024,600.505	2,835,297.738	36.563376237	-107.451251050
11,900.00	89.77	89.551	6,612.07	-157.31	5,018.48	2,024,601.288	2,835,397.734	36.563377298	-107.450910542
12,000.00	89.77	89.551	6,612.47	-156.53	5,118.48	2,024,602.072	2,835,497.730	36.563378357	-107.450570033
12,100.00	89.77	89.551	6,612.87	-155.74	5,218.47	2,024,602.855	2,835,597.726	36.563379416	-107.450229525
12,200.00	89.77	89.551	6,613.27	-154.96	5,318.47	2,024,603.639	2,835,697.722	36.563380473	-107.449889017
12,300.00	89.77	89.551	6,613.67	-154.18	5,418.47	2,024,604.422	2,835,797.718	36.563381530	-107.449548509
12,400.00	89.77	89.551	6,614.07	-153.39	5,518.46	2,024,605.205	2,835,897.714	36.563382585	-107.449208000
12,500.00	89.77	89.551	6,614.47	-152.61	5,618.46	2,024,605.989	2,835,997.710	36.563383640	-107.448867492
12,600.00	89.77	89.551	6,614.87	-151.83	5,718.45	2,024,606.772	2,836,097.706	36.563384693	-107.448526984
12,700.00	89.77	89.551	6,615.27	-151.04	5,818.45	2,024,607.556	2,836,197.702	36.563385746	-107.448186475
12,800.00	89.77	89.551	6,615.67	-150.26	5,918.45	2,024,608.339	2,836,297.698	36.563386798	-107.447845967
12,900.00	89.77	89.551	6,616.06	-149.48	6,018.44	2,024,609.123	2,836,397.694	36.563387848	-107.447505459
13,000.00	89.77	89.551	6,616.46	-148.69	6,118.44	2,024,609.906	2,836,497.689	36.563388898	-107.447164951
13,100.00	89.77	89.551	6,616.86	-147.91	6,218.43	2,024,610.690	2,836,597.685	36.563389947	-107.446824442
13,200.00	89.77	89.551	6,617.26	-147.13	6,318.43	2,024,611.473	2,836,697.681	36.563390995	-107.446483934
13,300.00	89.77	89.551	6,617.66	-146.34	6,418.43	2,024,612.257	2,836,797.677	36.563392041	-107.446143426
13,400.00	89.77	89.551	6,618.06	-145.56	6,518.42	2,024,613.040	2,836,897.673	36.563393087	-107.445802918
13,500.00	89.77	89.551	6,618.46	-144.78	6,618.42	2,024,613.824	2,836,997.669	36.563394132	-107.445462409
13,600.00	89.77	89.551	6,618.86	-143.99	6,718.42	2,024,614.607	2,837,097.665	36.563395176	-107.445121901
13,700.00	89.77	89.551	6,619.26	-143.21	6,818.41	2,024,615.391	2,837,197.661	36.563396219	-107.444781393
13,800.00	89.77	89.551	6,619.66	-142.43	6,918.41	2,024,616.174	2,837,297.657	36.563397261	-107.444440884
13,900.00	89.77	89.551	6,620.06	-141.64	7,018.40	2,024,616.958	2,837,397.653	36.563398302	-107.444100376
14,000.00	89.77	89.551	6,620.46	-140.86	7,118.40	2,024,617.741	2,837,497.649	36.563399342	-107.443759868
14,100.00	89.77	89.551	6,620.86	-140.08	7,218.40	2,024,618.524	2,837,597.645	36.563400381	-107.443419360
14,200.00	89.77	89.551	6,621.26	-139.29	7,318.39	2,024,619.308	2,837,697.641	36.563401419	-107.443078851
14,300.00	89.77	89.551	6,621.66	-138.51	7,418.39	2,024,620.091	2,837,797.636	36.563402456	-107.442738343
14,400.00	89.77	89.551	6,622.06	-137.72	7,518.38	2,024,620.875	2,837,897.632	36.563403492	-107.442397835
14,500.00	89.77	89.551	6,622.46	-136.94	7,618.38	2,024,621.658	2,837,997.628	36.563404527	-107.442057326
14,600.00	89.77	89.551	6,622.86	-136.16	7,718.38	2,024,622.442	2,838,097.624	36.563405562	-107.441716818
14,700.00	89.77	89.551	6,623.26	-135.37	7,818.37	2,024,623.225	2,838,197.620	36.563406595	-107.441376310
14,800.00	89.77	89.551	6,623.66	-134.59	7,918.37	2,024,624.009	2,838,297.616	36.563407627	-107.441035802
14,900.00	89.77	89.551	6,624.06	-133.81	8,018.36	2,024,624.792	2,838,397.612	36.563408658	-107.440695293
15,000.00	89.77	89.551	6,624.46	-133.02	8,118.36	2,024,625.576	2,838,497.608	36.563409688	-107.440354785
15,100.00	89.77	89.551	6,624.86	-132.24	8,218.36	2,024,626.359	2,838,597.604	36.563410718	-107.440014277
15,200.00	89.77	89.551	6,625.26	-131.46	8,318.35	2,024,627.143	2,838,697.600	36.563411746	-107.439673769
15,300.00	89.77	89.551	6,625.66	-130.67	8,418.35	2,024,627.926	2,838,797.596	36.563412773	-107.439333260
15,400.00	89.77	89.551	6,626.06	-129.89	8,518.35	2,024,628.710	2,838,897.592	36.563413800	-107.438992752
15,500.00	89.77	89.551	6,626.46	-129.11	8,618.34	2,024,629.493	2,838,997.588	36.563414825	-107.438652244
15,600.00	89.77	89.551	6,626.86	-128.32	8,718.34	2,024,630.277	2,839,097.584	36.563415850	-107.438311735
15,700.00	89.77	89.551	6,627.26	-127.54	8,818.33	2,024,631.060	2,839,197.579	36.563416873	-107.437971227



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,800.00	89.77	89.551	6,627.66	-126.76	8,918.33	2,024,631.843	2,839,297.575	36.563417896	-107.437630719
15,900.00	89.77	89.551	6,628.06	-125.97	9,018.33	2,024,632.627	2,839,397.571	36.563418917	-107.437290211
16,000.00	89.77	89.551	6,628.46	-125.19	9,118.32	2,024,633.410	2,839,497.567	36.563419938	-107.436949702
16,100.00	89.77	89.551	6,628.86	-124.41	9,218.32	2,024,634.194	2,839,597.563	36.563420957	-107.436609194
16,200.00	89.77	89.551	6,629.26	-123.62	9,318.31	2,024,634.977	2,839,697.559	36.563421976	-107.436268686
16,300.00	89.77	89.551	6,629.66	-122.84	9,418.31	2,024,635.761	2,839,797.555	36.563422994	-107.435928178
16,400.00	89.77	89.551	6,630.06	-122.06	9,518.31	2,024,636.544	2,839,897.551	36.563424010	-107.435587670
16,500.00	89.77	89.551	6,630.46	-121.27	9,618.30	2,024,637.328	2,839,997.547	36.563425026	-107.435247162
16,600.00	89.77	89.551	6,630.86	-120.49	9,718.30	2,024,638.111	2,840,097.543	36.563426041	-107.434906654
16,700.00	89.77	89.551	6,631.26	-119.70	9,818.30	2,024,638.895	2,840,197.539	36.563427054	-107.434566145
16,800.00	89.77	89.551	6,631.66	-118.92	9,918.29	2,024,639.678	2,840,297.535	36.563428067	-107.434225637
16,900.00	89.77	89.551	6,632.06	-118.14	10,018.29	2,024,640.462	2,840,397.531	36.563429079	-107.433885129
17,000.00	89.77	89.551	6,632.46	-117.35	10,118.28	2,024,641.245	2,840,497.527	36.563430090	-107.433544620
17,100.00	89.77	89.551	6,632.86	-116.57	10,218.28	2,024,642.029	2,840,597.522	36.563431100	-107.433204112
17,200.00	89.77	89.551	6,633.26	-115.79	10,318.28	2,024,642.812	2,840,697.518	36.563432108	-107.432863604
17,300.00	89.77	89.551	6,633.66	-115.00	10,418.27	2,024,643.596	2,840,797.514	36.563433116	-107.432523096
17,400.00	89.77	89.551	6,634.06	-114.22	10,518.27	2,024,644.379	2,840,897.510	36.563434123	-107.432182587
17,500.00	89.77	89.551	6,634.46	-113.44	10,618.26	2,024,645.162	2,840,997.506	36.563435129	-107.431842079
17,600.00	89.77	89.551	6,634.86	-112.65	10,718.26	2,024,645.946	2,841,097.502	36.563436134	-107.431501571
17,700.00	89.77	89.551	6,635.26	-111.87	10,818.26	2,024,646.729	2,841,197.498	36.563437138	-107.431161063
17,800.00	89.77	89.551	6,635.66	-111.09	10,918.25	2,024,647.513	2,841,297.494	36.563438141	-107.430820554
17,900.00	89.77	89.551	6,636.06	-110.30	11,018.25	2,024,648.296	2,841,397.490	36.563439143	-107.430480046
18,000.00	89.77	89.551	6,636.46	-109.52	11,118.25	2,024,649.080	2,841,497.486	36.563440144	-107.430139538
18,100.00	89.77	89.551	6,636.86	-108.74	11,218.24	2,024,649.863	2,841,597.482	36.563441145	-107.429799029
18,200.00	89.77	89.551	6,637.26	-107.95	11,318.24	2,024,650.647	2,841,697.478	36.563442144	-107.429458521
18,300.00	89.77	89.551	6,637.66	-107.17	11,418.23	2,024,651.430	2,841,797.474	36.563443142	-107.429118013
18,386.05	89.77	89.551	6,638.00	-106.50	11,504.28	2,024,652.104	2,841,883.522	36.563444000	-107.428825000
PBHL/TD @ 18386.05 MD 6638.00 TVD									

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									
Rincon 915 vert r1	0.00	0.000	5,989.45	-200.72	-521.72	2,024,557.880	2,829,857.544	36.563317078	-107.469776112
- plan hits target center									
- Point									
Rincon 915 VS=0	0.00	0.000	6,592.00	-191.98	1.70	2,024,566.619	2,830,380.961	36.563335635	-107.467993702
- plan misses target center by 9.69ft at 6884.17ft MD (6583.64 TVD, -196.61 N, 3.35 E)									
- Point									
Rincon 915 FTP 1373 FI	0.00	0.000	6,592.40	-195.84	100.89	2,024,562.760	2,830,480.150	36.563324000	-107.467656000
- plan hits target center									
- Point									
Rincon 915 BHL 1370 FI	0.00	0.000	6,638.00	-106.50	11,504.28	2,024,652.104	2,841,883.522	36.563444000	-107.428825000
- plan hits target center									
- Point									



Planning Report - Geographic

Database:	DB_Decv0422v16	Local Co-ordinate Reference:	Well Rincon Unit 915H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6538+25 @ 6563.00ft
Project:	Rio Arriba County, New Mexico NAD83 NM W	MD Reference:	RKB=6538+25 @ 6563.00ft
Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	North Reference:	Grid
Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
345.00	345.00	13 3/8" Csg	13-3/8	17-1/2	
5,153.84	5,123.00	9 5/8" Csg	9-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,557.13	2,547.41	Ojo Alamo		0.23	89.580
2,652.86	2,642.36	Kirtland		0.23	89.580
2,935.02	2,922.23	Fruitland		0.23	89.580
3,191.99	3,177.11	Pictured Cliffs		0.23	89.580
3,459.03	3,441.98	Lewis		0.23	89.580
3,761.35	3,741.83	Chacra_A		0.23	89.580
4,874.87	4,846.30	Cliff House		0.23	89.580
5,000.84	4,971.24	Menefee		0.23	89.580
5,439.19	5,406.03	Point Lookout		0.23	89.580
5,855.96	5,820.90	Mancos		0.23	89.580
6,437.33	6,367.47	Gallup (MNCS_A)		0.23	89.580
6,617.34	6,482.03	MNCS_B		0.23	89.580
6,766.84	6,551.56	MNCS_C		0.23	89.580
6,766.84	6,551.56	MNCS_C @ 0VS		0.23	89.580

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	
1,443.76	1,443.10	-5.58	-14.50	Begin 7.31° tangent	
5,591.30	5,556.90	-195.14	-507.22	Begin 3°/100' drop	
5,835.06	5,800.00	-200.72	-521.72	Begin vertical hold	
6,024.51	5,989.45	-200.72	-521.72	Begin 10°/100' build	
6,624.51	6,485.65	-198.48	-235.25	Begin 60.00° tangent	
6,684.51	6,515.65	-198.07	-183.29	Begin 10°/100' build	
6,982.22	6,592.40	-195.84	100.89	Begin 89.77° lateral	
18,386.05	6,638.00	-106.50	11,504.28	PBHL/TD @ 18386.05 MD 6638.00 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference	rev1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,038.61ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/21/2023		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	18,386.04	rev1 (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						
Rincon pad (613, 615, 713, 715,815,817,915 & 917)						
Rincon Unit 613H - Original Hole - rev0	1,292.75	1,297.71	97.15	88.38	11.077	CC
Rincon Unit 613H - Original Hole - rev0	1,300.00	1,305.09	97.16	88.34	11.016	ES
Rincon Unit 613H - Original Hole - rev0	6,846.78	6,652.08	379.80	331.05	7.790	SF
Rincon Unit 615H - Original Hole - Surveys Original Hole	1,209.69	1,198.18	47.14	39.43	6.118	CC, ES
Rincon Unit 615H - Original Hole - Surveys Original Hole	1,300.00	1,287.37	50.17	41.85	6.036	SF
Rincon Unit 713H - Original Hole - rev0	1,200.00	1,200.00	79.85	71.70	9.791	CC, ES
Rincon Unit 713H - Original Hole - rev0	6,641.42	6,620.68	277.86	229.82	5.783	SF
Rincon Unit 715H - Original Hole - Surveys Original Hole	1,143.36	1,131.82	31.18	23.93	4.300	CC, ES
Rincon Unit 715H - Original Hole - Surveys Original Hole	1,200.00	1,187.82	32.06	24.39	4.182	SF
Rincon Unit 815H - Original Hole - rev1	1,127.20	1,127.29	19.44	11.81	2.548	CC, ES
Rincon Unit 815H - Original Hole - rev1	18,386.05	18,628.52	702.26	197.06	1.390	Level 2<1.50, SF
Rincon Unit 817H - Original Hole - rev1	1,298.38	1,297.42	19.85	11.03	2.251	CC
Rincon Unit 817H - Original Hole - rev1	1,300.00	1,299.02	19.85	11.02	2.248	ES
Rincon Unit 817H - Original Hole - rev1	18,386.05	18,698.72	699.00	188.10	1.368	Level 2<1.50, SF
Rincon Unit 917H - Original Hole - rev1	1,000.00	1,000.00	40.04	33.32	5.958	CC, ES
Rincon Unit 917H - Original Hole - rev1	18,386.05	18,638.04	1,320.22	715.63	2.184	SF
Section 21-T27N-R06W						
Rincon Unit 180 - Original Hole - Inc only surveys	6,473.74	6,390.67	182.63	-116.89	0.610	Level 1<1.00, CC, ES, SF

Offset Design:	Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 613H - 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	Distance	Minimum	Separation	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor			
0.00	0.00	0.00	0.00	53.38	59.65	80.24	99.98					
100.00	100.00	0.13	0.13	53.38	59.65	80.24	99.98	99.71	0.27	371.874		
200.00	200.00	0.49	0.49	53.38	59.65	80.24	99.98	98.99	0.99	101.420		
300.00	300.00	0.85	0.85	53.38	59.65	80.24	99.98	98.28	1.70	58.717		
400.00	400.00	1.21	1.21	53.38	59.65	80.24	99.98	97.56	2.42	41.319		
500.00	500.00	1.57	1.57	53.38	59.65	80.24	99.98	96.84	3.14	31.875		
600.00	600.00	1.93	1.93	53.38	59.65	80.24	99.98	96.13	3.85	25.945		
700.00	700.00	2.29	2.29	53.38	59.65	80.24	99.98	95.41	4.57	21.875		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 613H - Original Hole - rev0											Offset Site Error:		0.00 ft
Survey Program:		0-MWD							Rule Assigned:				Offset Well Error:		0.00 ft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor			
800.00	800.00	800.00	800.00	2.64	2.64	53.38	59.65	80.24	99.98	94.69	5.29	18.909			
900.00	900.00	900.00	900.00	3.00	3.00	53.38	59.65	80.24	99.98	93.98	6.00	16.651			
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	53.38	59.65	80.24	99.98	93.26	6.72	14.875			
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	53.38	59.65	80.24	99.98	92.54	7.44	13.441			
1,200.00	1,200.00	1,202.82	1,202.77	4.08	4.07	54.73	56.88	80.42	98.55	90.40	8.14	12.100			
1,292.75	1,292.71	1,297.71	1,297.36	4.40	4.38	169.87	49.44	80.91	97.15	88.38	8.77	11.077	CC		
1,300.00	1,299.95	1,305.09	1,304.70	4.42	4.41	170.31	48.67	80.96	97.16	88.34	8.82	11.016	ES		
1,400.00	1,399.63	1,405.35	1,404.15	4.77	4.75	177.57	36.00	81.80	99.92	90.43	9.50	10.520			
1,500.00	1,498.88	1,504.20	1,502.12	5.12	5.09	-175.58	22.89	82.66	108.43	98.24	10.19	10.637			
1,600.00	1,598.07	1,603.01	1,600.05	5.48	5.45	-169.82	9.77	83.53	118.75	107.86	10.90	10.899			
1,700.00	1,697.25	1,701.82	1,697.98	5.85	5.82	-165.01	-3.34	84.39	130.08	118.47	11.61	11.206			
1,800.00	1,796.44	1,800.63	1,795.91	6.22	6.19	-160.99	-16.45	85.25	142.18	129.85	12.33	11.530			
1,900.00	1,895.63	1,899.44	1,893.84	6.60	6.57	-157.60	-29.56	86.12	154.86	141.80	13.06	11.855			
2,000.00	1,994.81	1,998.24	1,991.77	6.98	6.95	-154.74	-42.67	86.98	167.99	154.19	13.80	12.172			
2,100.00	2,094.00	2,097.05	2,089.70	7.37	7.34	-152.29	-55.78	87.85	181.48	166.94	14.55	12.476			
2,200.00	2,193.19	2,195.86	2,187.64	7.76	7.72	-150.18	-68.89	88.71	195.26	179.96	15.30	12.765			
2,300.00	2,292.37	2,294.67	2,285.57	8.15	8.12	-148.35	-82.00	89.57	209.25	193.20	16.05	13.036			
2,400.00	2,391.56	2,393.48	2,383.50	8.55	8.51	-146.75	-95.11	90.44	223.44	206.62	16.81	13.291			
2,500.00	2,490.75	2,492.29	2,481.43	8.95	8.91	-145.35	-108.23	91.30	237.77	220.19	17.57	13.529			
2,600.00	2,589.93	2,591.09	2,579.36	9.34	9.31	-144.10	-121.34	92.17	252.23	233.88	18.34	13.752			
2,700.00	2,689.12	2,689.90	2,677.29	9.75	9.71	-142.99	-134.45	93.03	266.79	247.68	19.11	13.961			
2,800.00	2,788.31	2,788.71	2,775.22	10.15	10.11	-141.99	-147.56	93.89	281.44	261.56	19.88	14.156			
2,900.00	2,887.49	2,887.52	2,873.15	10.55	10.51	-141.09	-160.67	94.76	296.16	275.51	20.65	14.339			
3,000.00	2,986.68	2,986.33	2,971.08	10.95	10.92	-140.28	-173.78	95.62	310.95	289.52	21.43	14.510			
3,100.00	3,085.87	3,085.13	3,069.01	11.36	11.32	-139.54	-186.89	96.49	325.80	303.59	22.21	14.671			
3,200.00	3,185.05	3,183.94	3,166.94	11.76	11.73	-138.86	-200.00	97.35	340.69	317.71	22.99	14.822			
3,300.00	3,284.24	3,282.75	3,264.87	12.17	12.13	-138.24	-213.12	98.21	355.63	331.86	23.77	14.963			
3,400.00	3,383.43	3,381.56	3,362.80	12.58	12.54	-137.68	-226.23	99.08	370.60	346.06	24.55	15.097			
3,500.00	3,482.61	3,480.37	3,460.73	12.99	12.95	-137.15	-239.34	99.94	385.61	360.28	25.33	15.223			
3,600.00	3,581.80	3,579.18	3,558.67	13.39	13.36	-136.67	-252.45	100.80	400.65	374.53	26.11	15.342			
3,700.00	3,680.99	3,677.98	3,656.60	13.80	13.77	-136.22	-265.56	101.67	415.71	388.81	26.90	15.454			
3,800.00	3,780.17	3,776.79	3,754.53	14.21	14.18	-135.80	-278.67	102.53	430.79	403.11	27.69	15.561			
3,900.00	3,879.36	3,875.60	3,852.46	14.62	14.59	-135.41	-291.78	103.40	445.90	417.43	28.47	15.661			
4,000.00	3,978.55	3,974.41	3,950.39	15.03	15.00	-135.04	-304.89	104.26	461.03	431.77	29.26	15.757			
4,100.00	4,077.73	4,073.22	4,048.32	15.44	15.41	-134.70	-318.00	105.12	476.17	446.12	30.05	15.848			
4,200.00	4,176.92	4,172.03	4,146.25	15.85	15.82	-134.38	-331.12	105.99	491.33	460.49	30.83	15.934			
4,300.00	4,276.11	4,270.83	4,244.18	16.26	16.23	-134.08	-344.23	106.85	506.50	474.88	31.62	16.016			
4,400.00	4,375.29	4,369.64	4,342.11	16.68	16.64	-133.80	-357.34	107.72	521.69	489.27	32.41	16.095			
4,500.00	4,474.48	4,468.45	4,440.04	17.09	17.05	-133.53	-370.45	108.58	536.88	503.68	33.20	16.169			
4,600.00	4,573.67	4,567.26	4,537.97	17.50	17.47	-133.28	-383.56	109.44	552.09	518.10	33.99	16.241			
4,700.00	4,672.85	4,666.07	4,635.90	17.91	17.88	-133.04	-396.67	110.31	567.31	532.52	34.79	16.309			
4,800.00	4,772.04	4,764.88	4,733.83	18.32	18.29	-132.81	-409.78	111.17	582.53	546.96	35.58	16.374			
4,900.00	4,871.23	4,863.68	4,831.76	18.74	18.71	-132.59	-422.89	112.04	597.77	561.40	36.37	16.437			
5,000.00	4,970.41	4,962.49	4,929.70	19.15	19.12	-132.39	-436.01	112.90	613.01	575.85	37.16	16.496			
5,100.00	5,069.60	5,061.30	5,027.63	19.56	19.53	-132.19	-449.12	113.76	628.26	590.31	37.95	16.554			
5,200.00	5,168.79	5,160.11	5,125.56	19.97	19.95	-132.01	-462.23	114.63	643.52	604.78	38.75	16.609			
5,300.00	5,267.97	5,258.92	5,223.49	20.39	20.36	-131.83	-475.34	115.49	658.78	619.25	39.54	16.662			
5,400.00	5,367.16	5,357.73	5,321.42	20.80	20.77	-131.66	-488.45	116.36	674.05	633.72	40.33	16.712			
5,500.00	5,466.34	5,456.53	5,419.35	21.22	21.19	-131.50	-501.56	117.22	689.33	648.20	41.13	16.761			
5,600.00	5,565.53	5,555.34	5,517.28	21.63	21.60	-131.38	-514.67	118.08	704.60	662.68	41.92	16.808			
5,700.00	5,665.05	5,654.36	5,615.42	22.02	22.02	-131.34	-527.81	118.95	717.88	675.17	42.70	16.812			

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 613H - Original Hole - rev0													Offset Site Error: 0.00 ft	
Survey Program: 0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.00 ft		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,800.00	5,764.94	5,753.54	5,713.72	22.38	22.43	-130.94	-540.97	119.82	727.78	684.32	43.46	16.747		
5,900.00	5,864.94	5,852.66	5,811.96	22.69	22.85	118.82	-554.12	120.68	735.11	690.93	44.18	16.640		
6,000.00	5,964.94	5,973.83	5,932.37	23.01	23.33	119.69	-567.47	121.56	741.20	696.16	45.04	16.457		
6,100.00	6,064.72	6,100.94	6,059.31	23.29	23.79	30.90	-573.34	121.95	739.49	693.66	45.83	16.137		
6,200.00	6,162.21	6,203.83	6,162.21	23.50	24.10	32.83	-573.50	121.96	720.99	674.61	46.39	15.544		
6,300.00	6,254.45	6,859.13	6,697.09	23.66	25.91	86.07	-580.07	-193.24	640.05	603.26	36.79	17.397		
6,400.00	6,338.63	6,854.69	6,694.87	23.79	25.90	97.47	-579.99	-189.40	563.11	524.47	38.63	14.576		
6,500.00	6,412.21	6,833.00	6,684.02	23.92	25.83	103.45	-579.59	-170.61	495.70	454.84	40.86	12.132		
6,600.00	6,472.94	6,775.17	6,653.19	24.13	25.66	102.08	-578.58	-121.72	441.51	397.59	43.92	10.053		
6,700.00	6,523.21	6,721.26	6,620.19	24.47	25.52	96.52	-577.69	-79.13	402.26	355.72	46.54	8.644		
6,800.00	6,562.96	6,674.36	6,588.33	25.00	25.41	92.18	-576.97	-44.74	382.04	333.77	48.27	7.915		
6,846.78	6,575.93	6,652.08	6,572.23	25.34	25.35	89.43	-576.65	-29.34	379.80	331.05	48.75	7.790 SF		
6,900.00	6,586.19	6,626.56	6,553.08	25.73	25.29	85.83	-576.30	-12.49	382.56	333.52	49.04	7.801		
7,000.00	6,592.47	6,578.42	6,514.97	26.64	25.17	78.51	-575.69	16.91	400.94	351.66	49.28	8.136		
7,100.00	6,592.87	6,536.83	6,480.17	27.75	25.06	73.54	-575.22	39.66	435.17	385.75	49.42	8.805		
7,200.00	6,593.27	6,500.00	6,448.04	29.05	24.97	69.16	-574.84	57.65	483.90	434.39	49.52	9.773		
7,300.00	6,593.67	6,476.01	6,426.52	30.51	24.90	66.35	-574.62	68.24	544.15	494.40	49.75	10.937		
7,400.00	6,594.07	6,450.00	6,402.71	32.10	24.83	63.39	-574.41	78.70	613.18	563.31	49.87	12.295		
7,500.00	6,594.47	6,434.31	6,388.12	33.81	24.78	61.64	-574.29	84.48	688.64	638.57	50.07	13.753		
7,600.00	6,594.87	6,418.14	6,372.93	35.63	24.74	59.88	-574.17	90.02	768.93	718.74	50.19	15.319		
7,700.00	6,595.27	6,400.00	6,355.71	37.53	24.69	57.96	-574.05	95.71	852.84	802.60	50.25	16.972		
7,800.00	6,595.67	6,400.00	6,355.71	39.50	24.69	57.96	-574.05	95.71	939.53	889.09	50.44	18.625		
7,900.00	6,596.07	6,381.64	6,338.10	41.54	24.63	56.08	-573.94	100.93	1,028.20	977.76	50.43	20.388		
8,000.00	6,596.47	6,372.34	6,329.13	43.63	24.60	55.15	-573.89	103.35	1,118.61	1,068.13	50.48	22.159		
8,100.00	6,596.87	6,350.00	6,307.41	45.77	24.54	52.98	-573.78	108.57	1,210.60	1,160.17	50.42	24.008		
8,200.00	6,597.27	6,350.00	6,307.41	47.95	24.54	52.98	-573.78	108.57	1,303.22	1,252.71	50.51	25.802		
8,300.00	6,597.67	6,350.00	6,307.41	50.16	24.54	52.98	-573.78	108.57	1,396.86	1,346.29	50.57	27.621		
8,400.00	6,598.07	6,350.00	6,307.41	52.40	24.54	52.98	-573.78	108.57	1,491.33	1,440.71	50.62	29.462		
8,500.00	6,598.47	6,350.00	6,307.41	54.68	24.54	52.98	-573.78	108.57	1,586.48	1,535.82	50.66	31.318		
8,600.00	6,598.87	6,350.00	6,307.41	56.97	24.54	52.98	-573.78	108.57	1,682.18	1,631.50	50.69	33.188		
8,700.00	6,599.27	6,329.17	6,286.99	59.29	24.48	51.05	-573.70	112.68	1,777.87	1,727.24	50.64	35.111		
8,800.00	6,599.67	6,325.00	6,282.89	61.62	24.46	50.68	-573.68	113.41	1,874.24	1,823.60	50.65	37.005		
8,900.00	6,600.07	6,321.17	6,279.11	63.97	24.45	50.34	-573.67	114.06	1,970.94	1,920.29	50.66	38.907		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 615H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 385-MWD, 4923-MWD, 16695-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	53.25	35.86	48.03	61.13				
100.00	100.00	88.19	88.19	0.13	0.15	53.36	35.68	47.98	59.79	59.51	0.29	207.705	
200.00	200.00	188.41	188.41	0.49	0.33	53.76	35.05	47.82	59.29	58.47	0.82	72.269	
300.00	300.00	288.61	288.61	0.85	0.50	54.47	33.96	47.55	58.43	57.08	1.35	43.187	
400.00	400.00	388.80	388.78	1.21	0.68	55.51	32.40	47.16	57.22	55.33	1.89	30.236	
500.00	500.00	488.85	488.80	1.57	1.05	57.04	30.38	46.87	55.86	53.25	2.61	21.393	
600.00	600.00	588.79	588.72	1.93	1.41	59.13	27.91	46.68	54.39	51.06	3.33	16.335	
700.00	700.00	688.70	688.60	2.29	1.77	61.29	25.56	46.67	53.21	49.16	4.05	13.144	
800.00	800.00	788.68	788.55	2.64	2.13	63.53	23.23	46.65	52.12	47.35	4.77	10.932	
900.00	900.00	888.78	888.62	3.00	2.49	65.75	20.95	46.50	51.00	45.52	5.49	9.294	
1,000.00	1,000.00	988.84	988.66	3.36	2.85	68.18	18.48	46.15	49.72	43.51	6.21	8.009	
1,100.00	1,100.00	1,088.87	1,088.65	3.72	3.21	70.80	15.92	45.70	48.40	41.47	6.93	6.986	
1,200.00	1,200.00	1,188.57	1,188.32	4.08	3.57	73.04	13.76	45.12	47.17	39.53	7.64	6.175	
1,209.69	1,209.69	1,198.18	1,197.93	4.11	3.60	-175.97	13.78	45.05	47.14	39.43	7.71	6.118 CC, ES	
1,300.00	1,299.95	1,287.37	1,287.03	4.42	3.89	179.92	17.13	44.34	50.17	41.85	8.31	6.036 SF	
1,400.00	1,399.63	1,384.49	1,383.54	4.77	4.21	170.23	27.86	43.50	62.08	53.12	8.95	6.934	
1,500.00	1,498.88	1,480.58	1,478.36	5.12	4.53	161.84	43.41	42.87	82.66	73.07	9.59	8.617	
1,600.00	1,598.07	1,577.58	1,573.94	5.48	4.88	156.62	59.95	42.40	105.47	95.21	10.25	10.285	
1,700.00	1,697.25	1,674.86	1,669.81	5.85	5.23	153.24	76.43	41.78	128.62	117.68	10.94	11.762	
1,800.00	1,796.44	1,772.18	1,765.74	6.22	5.60	150.92	92.75	41.13	151.92	140.29	11.63	13.067	
1,900.00	1,895.63	1,870.06	1,862.29	6.60	5.98	149.29	108.84	40.48	175.14	162.80	12.34	14.198	
2,000.00	1,994.81	1,968.35	1,959.34	6.98	6.37	148.12	124.41	39.72	197.93	184.87	13.05	15.162	
2,100.00	2,094.00	2,064.45	2,054.24	7.37	6.75	147.22	139.50	38.93	220.64	206.89	13.76	16.040	
2,200.00	2,193.19	2,161.16	2,149.66	7.76	7.14	146.45	155.28	38.42	244.06	229.59	14.47	16.867	
2,300.00	2,292.37	2,260.46	2,247.70	8.15	7.54	145.88	171.02	38.01	267.20	251.98	15.21	17.564	
2,400.00	2,391.56	2,354.43	2,340.53	8.55	7.92	145.50	185.62	37.85	290.24	274.33	15.91	18.247	
2,500.00	2,490.75	2,450.85	2,435.64	8.95	8.32	145.17	201.45	38.26	314.33	297.71	16.63	18.904	
2,600.00	2,589.93	2,549.81	2,533.31	9.34	8.73	144.90	217.37	38.64	338.15	320.77	17.38	19.461	
2,700.00	2,689.12	2,648.88	2,631.20	9.75	9.14	144.73	232.61	39.04	361.40	343.27	18.12	19.940	
2,800.00	2,788.31	2,748.59	2,729.82	10.15	9.55	144.64	247.27	39.45	384.11	365.23	18.88	20.346	
2,900.00	2,887.49	2,850.10	2,830.35	10.55	9.96	144.60	261.36	39.57	405.98	386.33	19.65	20.664	
3,000.00	2,986.68	2,941.68	2,921.02	10.95	10.33	144.56	274.28	39.81	428.11	407.78	20.33	21.055	
3,100.00	3,085.87	3,043.26	3,021.56	11.36	10.75	144.52	288.71	40.11	450.35	429.24	21.11	21.338	
3,200.00	3,185.05	3,130.74	3,108.06	11.76	11.12	144.46	301.79	40.55	473.30	451.54	21.76	21.753	
3,300.00	3,284.24	3,229.25	3,205.33	12.17	11.53	144.38	317.32	41.45	497.15	474.64	22.51	22.086	
3,400.00	3,383.43	3,330.06	3,304.95	12.58	11.95	144.34	332.70	42.31	520.55	497.27	23.28	22.358	
3,500.00	3,482.61	3,435.18	3,409.01	12.99	12.39	144.33	347.66	42.80	542.91	518.82	24.09	22.540	
3,600.00	3,581.80	3,535.82	3,508.82	13.39	12.80	144.37	360.53	42.87	563.85	538.99	24.85	22.689	
3,700.00	3,680.99	3,625.49	3,597.59	13.80	13.17	144.33	373.19	42.93	585.87	560.34	25.53	22.948	
3,800.00	3,780.17	3,727.95	3,698.99	14.21	13.59	144.26	387.86	42.68	607.91	581.59	26.32	23.100	
3,900.00	3,879.36	3,832.26	3,802.32	14.62	14.02	144.18	402.13	41.82	629.11	602.00	27.11	23.202	
4,000.00	3,978.55	3,925.43	3,894.69	15.03	14.41	144.11	414.25	40.65	649.55	621.73	27.83	23.342	
4,100.00	4,077.73	4,011.26	3,979.55	15.44	14.76	144.03	427.09	40.38	672.05	643.57	28.48	23.597	
4,200.00	4,176.92	4,105.02	4,072.20	15.85	15.16	143.95	441.53	40.37	695.10	665.90	29.20	23.805	
4,300.00	4,276.11	4,193.31	4,159.26	16.26	15.54	143.86	456.16	40.87	719.42	689.55	29.87	24.084	
4,400.00	4,375.29	4,293.18	4,257.70	16.68	15.98	143.76	473.03	41.49	744.04	713.40	30.65	24.278	
4,500.00	4,474.48	4,389.46	4,352.69	17.09	16.40	143.70	488.67	42.07	768.13	736.74	31.39	24.470	
4,600.00	4,573.67	4,478.16	4,440.05	17.50	16.78	143.63	504.02	42.99	793.30	761.23	32.07	24.739	
4,700.00	4,672.85	4,580.76	4,541.12	17.91	17.23	143.56	521.61	44.18	818.42	785.56	32.87	24.900	
4,800.00	4,772.04	4,688.65	4,647.59	18.32	17.70	143.54	538.97	45.38	842.66	808.95	33.71	24.998	
4,900.00	4,871.23	4,790.17	4,748.01	18.74	18.13	143.57	553.87	46.36	865.64	831.15	34.49	25.097	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 615H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 385-MWD, 4923-MWD, 16695-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,970.41	4,888.32	4,845.12	19.15	18.44	143.62	568.08	47.76	888.70	853.56	35.14	25.292	
5,100.00	5,069.60	4,989.90	4,945.71	19.56	18.59	143.72	582.09	49.55	911.39	875.77	35.62	25.587	
5,200.00	5,168.79	5,085.78	5,040.71	19.97	18.69	143.83	594.98	51.35	933.84	897.82	36.02	25.925	
5,300.00	5,267.97	5,184.34	5,138.34	20.39	18.79	143.95	608.24	53.50	956.48	920.04	36.44	26.247	
5,400.00	5,367.16	5,274.36	5,227.51	20.80	18.90	144.05	620.47	55.49	979.24	942.41	36.83	26.587	
5,500.00	5,466.34	5,372.01	5,324.12	21.22	19.02	144.12	634.56	57.53	1,002.63	965.36	37.27	26.904	
5,600.00	5,565.53	5,461.20	5,412.34	21.63	19.15	144.21	647.52	59.34	1,026.07	988.40	37.67	27.240	
5,700.00	5,665.05	5,557.96	5,507.95	22.02	19.30	144.56	662.22	61.67	1,047.82	1,009.72	38.10	27.501	
5,800.00	5,764.94	5,677.72	5,626.46	22.38	19.48	144.62	679.19	64.32	1,064.48	1,025.85	38.63	27.553	
5,900.00	5,864.94	5,787.70	5,735.58	22.69	19.64	144.62	692.85	66.36	1,076.14	1,037.04	39.10	27.526	
6,000.00	5,964.94	5,899.52	5,846.67	23.01	19.81	144.62	705.41	68.31	1,086.51	1,046.95	39.57	27.461	
6,100.00	6,064.72	6,012.90	5,959.48	23.29	19.97	-56.62	716.57	70.27	1,093.00	1,052.98	40.01	27.315	
6,200.00	6,162.21	6,117.17	6,123.32	23.50	20.18	-59.06	727.87	70.00	1,087.15	1,046.62	40.53	26.821	
6,300.00	6,254.45	6,200.73	6,200.73	23.66	20.77	-78.80	736.60	-89.53	1,055.29	1,015.19	40.10	26.314	
6,400.00	6,338.63	6,290.33	6,290.33	23.79	20.87	-86.35	735.33	-123.96	1,013.86	973.20	40.66	24.933	
6,500.00	6,412.21	6,364.17	6,364.17	23.92	20.89	-90.66	735.22	-130.71	979.12	937.83	41.29	23.714	
6,600.00	6,472.94	6,420.31	6,420.31	24.13	20.87	-92.62	735.35	-123.27	953.71	911.85	41.86	22.785	
6,700.00	6,523.21	6,475.22	6,475.22	24.47	20.83	-92.18	735.66	-111.24	938.54	896.12	42.42	22.125	
6,794.58	6,561.21	6,513.14	6,513.14	24.97	20.80	-91.47	736.16	-98.41	933.84	890.84	43.00	21.715	
6,800.00	6,562.96	6,514.00	6,514.00	25.00	20.79	-91.17	736.31	-95.21	933.87	890.84	43.03	21.704	
6,900.00	6,586.19	6,538.91	6,538.91	25.73	20.73	-88.69	737.36	-74.12	939.10	895.40	43.70	21.491	
7,000.00	6,592.47	6,544.43	6,544.43	26.64	20.67	-85.14	738.53	-47.88	952.35	907.91	44.43	21.434	
7,100.00	6,592.87	6,544.83	6,544.83	27.75	20.62	-82.88	739.47	-25.57	972.94	927.67	45.28	21.489	
7,200.00	6,593.27	6,545.23	6,545.23	29.05	20.58	-81.20	740.15	-10.36	1,001.28	955.06	46.22	21.663	
7,300.00	6,593.67	6,545.63	6,545.63	30.51	20.55	-79.25	740.68	5.51	1,036.98	989.84	47.15	21.995	
7,400.00	6,594.07	6,546.03	6,546.03	32.10	20.51	-77.43	740.64	18.75	1,079.49	1,031.46	48.03	22.477	
7,500.00	6,594.47	6,546.43	6,546.43	33.81	20.47	-75.76	739.86	29.30	1,128.21	1,079.38	48.83	23.103	
7,600.00	6,594.87	6,546.83	6,546.83	35.63	20.44	-74.36	738.72	37.18	1,182.66	1,133.10	49.56	23.863	
7,700.00	6,595.27	6,547.23	6,547.23	37.53	20.42	-73.41	737.77	42.11	1,242.29	1,192.06	50.22	24.736	
7,800.00	6,595.67	6,547.63	6,547.63	39.50	20.40	-72.65	736.94	45.86	1,306.49	1,255.69	50.79	25.721	
7,900.00	6,596.07	6,548.03	6,548.03	41.54	20.38	-72.00	736.22	48.92	1,374.73	1,323.45	51.28	26.809	
8,000.00	6,596.47	6,548.43	6,548.43	43.63	20.37	-71.50	735.69	51.16	1,446.51	1,394.81	51.69	27.983	
8,100.00	6,596.87	6,548.83	6,548.83	45.77	20.35	-70.95	735.14	53.45	1,521.34	1,469.30	52.04	29.234	
8,200.00	6,597.27	6,549.23	6,549.23	47.95	20.35	-70.95	735.14	53.45	1,598.85	1,546.50	52.35	30.539	
8,300.00	6,597.67	6,549.63	6,549.63	50.16	20.34	-70.32	734.52	55.95	1,678.60	1,626.03	52.57	31.929	
8,400.00	6,598.07	6,550.03	6,550.03	52.40	20.33	-70.02	734.22	57.10	1,760.38	1,707.61	52.77	33.359	
8,500.00	6,598.47	6,550.43	6,550.43	54.68	20.31	-69.22	733.48	59.85	1,844.00	1,791.09	52.91	34.853	
8,600.00	6,598.87	6,550.83	6,550.83	56.97	20.31	-69.22	733.48	59.85	1,928.97	1,875.91	53.06	36.357	
8,700.00	6,599.27	6,551.23	6,551.23	59.29	20.31	-69.22	733.48	59.85	2,015.32	1,962.14	53.18	37.899	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 713H - Original Hole - rev0											Offset Site Error:		0.00 ft	
Survey Program:		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:		0.00 ft
Measured Depth	Vertical Reference	Measured Depth	Vertical Offset	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Distance Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)					
0.00	0.00	0.00	0.00	0.00	0.00	53.43	47.57	64.13	79.85	79.58	0.27	297.002				
100.00	100.00	100.00	100.00	0.13	0.13	53.43	47.57	64.13	79.85	79.58	0.99	81.001				
200.00	200.00	200.00	200.00	0.49	0.49	53.43	47.57	64.13	79.85	78.86	1.70	46.895				
300.00	300.00	300.00	300.00	0.85	0.85	53.43	47.57	64.13	79.85	78.15	2.42	33.000				
400.00	400.00	400.00	400.00	1.21	1.21	53.43	47.57	64.13	79.85	77.43	3.14	25.457				
500.00	500.00	500.00	500.00	1.57	1.57	53.43	47.57	64.13	79.85	76.71						
600.00	600.00	600.00	600.00	1.93	1.93	53.43	47.57	64.13	79.85	76.00	3.85	20.721				
700.00	700.00	700.00	700.00	2.29	2.29	53.43	47.57	64.13	79.85	75.28	4.57	17.471				
800.00	800.00	800.00	800.00	2.64	2.64	53.43	47.57	64.13	79.85	74.56	5.29	15.102				
900.00	900.00	900.00	900.00	3.00	3.00	53.43	47.57	64.13	79.85	73.85	6.00	13.299				
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	53.43	47.57	64.13	79.85	73.13	6.72	11.880				
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	53.43	47.57	64.13	79.85	72.41	7.44	10.735				
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	53.43	47.57	64.13	79.85	71.70	8.16	9.791	CC, ES			
1,300.00	1,299.95	1,295.94	1,295.90	4.42	4.42	164.40	49.52	65.54	84.76	75.93	8.84	9.591				
1,400.00	1,399.63	1,393.20	1,392.94	4.77	4.77	164.34	54.81	69.35	98.66	89.14	9.52	10.366				
1,500.00	1,498.88	1,491.46	1,490.95	5.12	5.12	164.84	60.49	73.44	117.16	106.95	10.21	11.475				
1,600.00	1,598.07	1,589.64	1,588.88	5.48	5.47	165.30	66.17	77.53	136.15	125.25	10.90	12.494				
1,700.00	1,697.25	1,687.81	1,686.80	5.85	5.83	165.65	71.84	81.62	155.15	143.56	11.59	13.388				
1,800.00	1,796.44	1,785.99	1,784.73	6.22	6.19	165.93	77.52	85.71	174.15	161.87	12.28	14.177				
1,900.00	1,895.63	1,886.14	1,884.64	6.60	6.55	166.16	83.22	89.82	193.06	180.06	13.00	14.855				
2,000.00	1,994.81	1,995.80	1,994.22	6.98	6.94	166.77	86.04	91.85	208.40	194.64	13.76	15.148				
2,100.00	2,094.00	2,095.58	2,094.00	7.37	7.30	167.53	86.05	91.85	220.82	206.36	14.47	15.264				
2,200.00	2,193.19	2,194.76	2,193.19	7.76	7.65	168.20	86.05	91.85	233.27	218.10	15.18	15.372				
2,300.00	2,292.37	2,293.95	2,292.37	8.15	8.01	168.81	86.05	91.85	245.75	229.87	15.89	15.471				
2,400.00	2,391.56	2,393.14	2,391.56	8.55	8.36	169.36	86.05	91.85	258.25	241.66	16.60	15.561				
2,500.00	2,490.75	2,492.32	2,490.75	8.95	8.71	169.85	86.05	91.85	270.78	253.47	17.31	15.645				
2,600.00	2,589.93	2,591.51	2,589.93	9.34	9.07	170.31	86.05	91.85	283.32	265.30	18.02	15.723				
2,700.00	2,689.12	2,690.70	2,689.12	9.75	9.42	170.72	86.05	91.85	295.87	277.14	18.73	15.795				
2,800.00	2,788.31	2,789.88	2,788.31	10.15	9.78	171.10	86.05	91.85	308.45	289.00	19.45	15.862				
2,900.00	2,887.49	2,889.07	2,887.49	10.55	10.13	171.45	86.05	91.85	321.03	300.87	20.16	15.924				
3,000.00	2,986.68	2,988.26	2,986.68	10.95	10.49	171.78	86.05	91.85	333.63	312.75	20.88	15.982				
3,100.00	3,085.87	3,087.44	3,085.87	11.36	10.84	172.08	86.05	91.85	346.23	324.64	21.59	16.036				
3,200.00	3,185.05	3,186.63	3,185.05	11.76	11.20	172.36	86.05	91.85	358.84	336.54	22.31	16.087				
3,300.00	3,284.24	3,285.82	3,284.24	12.17	11.55	172.62	86.05	91.85	371.46	348.44	23.02	16.135				
3,400.00	3,383.43	3,385.00	3,383.43	12.58	11.90	172.86	86.05	91.85	384.09	360.35	23.74	16.180				
3,500.00	3,482.61	3,484.19	3,482.61	12.99	12.26	173.09	86.05	91.85	396.73	372.27	24.46	16.222				
3,600.00	3,581.80	3,583.38	3,581.80	13.39	12.61	173.31	86.05	91.85	409.37	384.20	25.17	16.262				
3,700.00	3,680.99	3,682.56	3,680.99	13.80	12.97	173.51	86.05	91.85	422.01	396.12	25.89	16.300				
3,800.00	3,780.17	3,781.75	3,780.17	14.21	13.32	173.70	86.05	91.85	434.67	408.06	26.61	16.336				
3,900.00	3,879.36	3,880.94	3,879.36	14.62	13.68	173.88	86.05	91.85	447.32	419.99	27.33	16.369				
4,000.00	3,978.55	3,980.12	3,978.55	15.03	14.03	174.05	86.05	91.85	459.98	431.94	28.04	16.402				
4,100.00	4,077.73	4,079.31	4,077.73	15.44	14.39	174.21	86.05	91.85	472.64	443.88	28.76	16.432				
4,200.00	4,176.92	4,178.50	4,176.92	15.85	14.74	174.36	86.05	91.85	485.31	455.83	29.48	16.461				
4,300.00	4,276.11	4,277.68	4,276.11	16.26	15.10	174.50	86.05	91.85	497.98	467.78	30.20	16.489				
4,400.00	4,375.29	4,376.87	4,375.29	16.68	15.45	174.64	86.05	91.85	510.65	479.73	30.92	16.515				
4,500.00	4,474.48	4,476.06	4,474.48	17.09	15.81	174.77	86.05	91.85	523.33	491.69	31.64	16.540				
4,600.00	4,573.67	4,575.24	4,573.67	17.50	16.16	174.89	86.05	91.85	536.00	503.65	32.36	16.564				
4,700.00	4,672.85	4,674.43	4,672.85	17.91	16.52	175.01	86.05	91.85	548.68	515.61	33.08	16.587				
4,800.00	4,772.04	4,773.62	4,772.04	18.32	16.87	175.12	86.05	91.85	561.37	527.57	33.80	16.609				
4,900.00	4,871.23	4,872.80	4,871.23	18.74	17.23	175.23	86.05	91.85	574.05	539.53	34.52	16.630				
5,000.00	4,970.41	4,971.99	4,970.41	19.15	17.58	175.34	86.05	91.85	586.74	551.50	35.24	16.651				

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 713H - 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		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation (ft)		
5,100.00	5,069.60	5,071.18	5,069.60	19.56	17.94	175.43	86.05	91.85	599.43	563.47	35.96	16.670	
5,200.00	5,168.79	5,170.36	5,168.79	19.97	18.30	175.53	86.05	91.85	612.12	575.44	36.68	16.689	
5,300.00	5,267.97	5,269.55	5,267.97	20.39	18.65	175.62	86.05	91.85	624.81	587.41	37.40	16.707	
5,400.00	5,367.16	5,368.73	5,367.16	20.80	19.01	175.71	86.05	91.85	637.50	599.38	38.12	16.724	
5,500.00	5,466.34	5,467.92	5,466.34	21.22	19.36	175.79	86.05	91.85	650.19	611.35	38.84	16.740	
5,600.00	5,565.53	5,567.11	5,565.53	21.63	19.72	175.87	86.05	91.85	662.87	623.31	39.56	16.756	
5,700.00	5,665.05	5,666.63	5,665.05	22.02	20.07	175.95	86.05	91.85	672.52	632.24	40.28	16.697	
5,800.00	5,764.94	5,766.52	5,764.94	22.38	20.43	175.99	86.05	91.85	676.96	635.97	40.99	16.515	
5,900.00	5,864.94	5,866.52	5,864.94	22.69	20.79	64.95	86.05	91.85	677.28	635.59	41.69	16.247	
6,000.00	5,964.94	6,016.29	6,495.57	23.01	23.87	47.01	79.53	-221.13	671.16	639.17	31.99	20.978	
6,100.00	6,064.72	6,828.86	6,575.13	23.29	25.80	-82.97	75.45	-417.01	588.83	559.37	29.46	19.989	
6,200.00	6,162.21	6,787.72	6,564.98	23.50	25.36	-91.45	76.28	-377.18	502.73	470.06	32.67	15.389	
6,300.00	6,254.45	6,782.25	6,563.86	23.66	25.30	-103.43	76.39	-371.81	423.63	387.91	35.72	11.860	
6,400.00	6,338.63	6,736.23	6,549.16	23.79	24.86	-103.68	77.30	-328.23	355.94	315.75	40.19	8.857	
6,500.00	6,412.21	6,688.50	6,530.26	23.92	24.43	-100.46	78.21	-284.42	305.84	261.10	44.74	6.836	
6,600.00	6,472.94	6,640.36	6,507.61	24.13	24.05	-94.21	79.10	-241.97	280.25	232.58	47.68	5.878	
6,641.42	6,494.66	6,620.68	6,497.76	24.27	23.91	-90.74	79.45	-224.93	277.86	229.82	48.04	5.783 SF	
6,700.00	6,523.21	6,590.65	6,482.75	24.47	23.69	-85.33	79.99	-198.93	282.39	234.81	47.58	5.935	
6,800.00	6,562.96	6,541.14	6,456.52	25.00	23.38	-74.61	80.87	-156.96	308.03	262.55	45.49	6.772	
6,900.00	6,586.19	6,491.84	6,426.92	25.73	23.11	-63.73	81.69	-117.56	348.41	304.79	43.62	7.988	
7,000.00	6,592.47	6,450.00	6,399.22	26.64	22.90	-55.47	82.34	-86.23	395.77	352.69	43.08	9.187	
7,100.00	6,592.87	6,400.00	6,363.23	27.75	22.68	-50.78	83.06	-51.55	450.59	407.92	42.67	10.560	
7,200.00	6,593.27	6,350.00	6,324.35	29.05	22.47	-46.35	83.72	-20.14	514.11	471.73	42.38	12.130	
7,300.00	6,593.67	6,328.56	6,306.87	30.51	22.39	-44.55	83.98	-7.73	583.94	540.87	43.06	13.560	
7,400.00	6,594.07	6,300.00	6,282.88	32.10	22.29	-42.25	84.30	7.76	659.17	615.77	43.40	15.187	
7,500.00	6,594.47	6,277.25	6,263.24	33.81	22.21	-40.52	84.54	19.23	738.49	694.71	43.79	16.866	
7,600.00	6,594.87	6,250.00	6,239.14	35.63	22.11	-38.54	84.80	31.94	821.09	777.09	43.99	18.664	
7,700.00	6,595.27	6,250.00	6,239.14	37.53	22.11	-38.54	84.80	31.94	906.30	861.71	44.58	20.329	
7,800.00	6,595.67	6,222.54	6,214.26	39.50	22.02	-36.66	85.04	43.57	993.26	948.60	44.66	22.243	
7,900.00	6,596.07	6,200.00	6,193.46	41.54	21.94	-35.21	85.22	52.22	1,082.16	1,037.39	44.77	24.171	
8,000.00	6,596.47	6,200.00	6,193.46	43.63	21.94	-35.21	85.22	52.22	1,172.28	1,127.18	45.10	25.991	
8,100.00	6,596.87	6,200.00	6,193.46	45.77	21.94	-35.21	85.22	52.22	1,263.89	1,218.53	45.36	27.864	
8,200.00	6,597.27	6,174.35	6,169.38	47.95	21.85	-33.66	85.41	61.05	1,355.88	1,310.52	45.36	29.892	
8,300.00	6,597.67	6,150.00	6,146.18	50.16	21.77	-32.27	85.56	68.44	1,449.25	1,403.88	45.37	31.944	
8,400.00	6,598.07	6,150.00	6,146.18	52.40	21.77	-32.27	85.56	68.44	1,542.82	1,497.28	45.54	33.877	
8,500.00	6,598.47	6,150.00	6,146.18	54.68	21.77	-32.27	85.56	68.44	1,637.15	1,591.46	45.69	35.834	
8,600.00	6,598.87	6,150.00	6,146.18	56.97	21.77	-32.27	85.56	68.44	1,732.11	1,686.31	45.81	37.813	
8,700.00	6,599.27	6,150.00	6,146.18	59.29	21.77	-32.27	85.56	68.44	1,827.62	1,781.70	45.91	39.808	
8,800.00	6,599.67	6,129.84	6,126.74	61.62	21.70	-31.18	85.67	73.80	1,923.12	1,877.21	45.91	41.890	
8,900.00	6,600.07	6,124.37	6,121.44	63.97	21.68	-30.89	85.70	75.14	2,019.20	1,973.23	45.97	43.925	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 715H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 385-MWD, 6028-MWD, 16578-MWD												Offset Well Error:	0.00 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (ft)		Minimum Separation (ft)	Separation Factor	Warning
+N/-S (ft)	+E/-W (ft)												
0.00	0.00	0.00	0.00	0.00	0.00	53.31	23.78	31.92	41.58				
100.00	100.00	88.11	88.11	0.13	0.15	53.56	23.57	31.93	39.69	39.40	0.29	137.813	
200.00	200.00	188.22	188.22	0.49	0.33	54.47	22.82	31.96	39.27	38.45	0.82	47.848	
300.00	300.00	288.33	288.32	0.85	0.50	56.08	21.53	32.01	38.58	37.22	1.35	28.500	
400.00	400.00	388.40	388.37	1.21	0.68	58.47	19.69	32.09	37.64	35.75	1.89	19.890	
500.00	500.00	488.35	488.30	1.57	1.04	61.50	17.58	32.38	36.84	34.23	2.61	14.108	
600.00	600.00	588.33	588.25	1.93	1.41	64.97	15.26	32.68	36.07	32.74	3.33	10.829	
700.00	700.00	688.39	688.29	2.29	1.77	68.13	13.16	32.78	35.33	31.28	4.05	8.722	
800.00	800.00	788.40	788.28	2.64	2.13	70.97	11.25	32.62	34.51	29.74	4.77	7.235	
900.00	900.00	888.35	888.21	3.00	2.49	73.61	9.54	32.42	33.79	28.31	5.49	6.159	
1,000.00	1,000.00	988.50	988.35	3.36	2.85	76.34	7.83	32.22	33.16	26.95	6.21	5.342	
1,100.00	1,100.00	1,088.74	1,088.47	3.72	3.21	84.55	3.00	31.39	31.54	24.60	6.93	4.549	
1,143.36	1,143.36	1,131.82	1,131.36	3.87	3.38	91.63	-0.89	31.17	31.18	23.93	7.25	4.300 CC, ES	
1,200.00	1,200.00	1,187.82	1,186.95	4.08	3.59	103.93	-7.71	31.10	32.06	24.39	7.67	4.182 SF	
1,300.00	1,299.95	1,285.72	1,283.49	4.42	3.99	-124.25	-23.89	31.08	40.87	32.52	8.36	4.891	
1,400.00	1,399.63	1,381.89	1,377.42	4.77	4.40	-113.15	-44.42	31.30	58.69	49.68	9.01	6.514	
1,500.00	1,498.88	1,475.74	1,467.98	5.12	4.84	-108.46	-69.03	32.25	83.18	73.52	9.65	8.615	
1,600.00	1,598.07	1,569.30	1,557.24	5.48	5.32	-105.60	-97.00	34.35	111.70	101.37	10.33	10.813	
1,700.00	1,697.25	1,664.86	1,648.19	5.85	5.82	-103.83	-126.18	36.88	141.15	130.08	11.07	12.749	
1,800.00	1,796.44	1,760.94	1,739.74	6.22	6.35	-102.70	-155.25	39.36	170.42	158.58	11.84	14.397	
1,900.00	1,895.63	1,857.36	1,831.73	6.60	6.88	-101.98	-184.04	41.91	199.42	186.80	12.62	15.805	
2,000.00	1,994.81	1,954.33	1,924.41	6.98	7.42	-101.54	-212.42	44.49	227.96	214.55	13.41	16.996	
2,100.00	2,094.00	2,051.44	2,017.40	7.37	7.96	-101.26	-240.28	47.06	256.02	241.81	14.21	18.012	
2,200.00	2,193.19	2,148.37	2,110.37	7.76	8.51	-101.13	-267.57	49.75	283.69	268.68	15.02	18.891	
2,300.00	2,292.37	2,246.06	2,204.17	8.15	9.05	-101.03	-294.76	52.37	311.05	295.22	15.83	19.646	
2,400.00	2,391.56	2,344.48	2,298.83	8.55	9.60	-100.99	-321.56	54.82	337.80	321.15	16.66	20.279	
2,500.00	2,490.75	2,442.35	2,393.15	8.95	10.15	-101.00	-347.61	57.25	364.03	346.56	17.48	20.828	
2,600.00	2,589.93	2,540.91	2,488.27	9.34	10.69	-101.09	-373.26	59.91	389.88	371.58	18.31	21.298	
2,700.00	2,689.12	2,639.15	2,583.24	9.75	11.22	-101.22	-398.22	62.63	415.25	396.12	19.13	21.706	
2,800.00	2,788.31	2,738.06	2,678.97	10.15	11.76	-101.36	-422.96	65.28	440.24	420.28	19.96	22.053	
2,900.00	2,887.49	2,838.70	2,776.53	10.55	12.30	-101.50	-447.55	67.71	464.61	443.80	20.81	22.324	
3,000.00	2,986.68	2,927.83	2,862.78	10.95	12.79	-101.52	-469.96	69.36	489.27	467.72	21.55	22.705	
3,100.00	3,085.87	3,026.12	2,957.53	11.36	13.34	-101.38	-496.10	70.55	514.81	492.43	22.38	23.001	
3,200.00	3,185.05	3,117.70	3,045.70	11.76	13.85	-101.20	-520.83	71.21	540.43	517.28	23.15	23.345	
3,300.00	3,284.24	3,219.16	3,143.26	12.17	14.43	-100.97	-548.70	71.65	566.31	542.29	24.02	23.577	
3,400.00	3,383.43	3,302.18	3,222.95	12.58	14.91	-100.78	-571.92	72.07	592.66	567.96	24.70	23.991	
3,500.00	3,482.61	3,394.47	3,311.05	12.99	15.46	-100.51	-599.42	72.83	620.72	595.23	25.49	24.356	
3,600.00	3,581.80	3,498.64	3,410.66	13.39	16.07	-100.28	-629.89	73.83	648.40	622.01	26.40	24.565	
3,700.00	3,680.99	3,605.02	3,512.92	13.80	16.69	-100.15	-659.17	74.89	674.63	647.31	27.32	24.694	
3,800.00	3,780.17	3,686.51	3,591.17	14.21	17.16	-100.05	-681.93	75.77	701.24	673.24	28.00	25.048	
3,900.00	3,879.36	3,787.25	3,687.65	14.62	17.75	-99.92	-710.86	77.13	728.69	699.82	28.87	25.241	
4,000.00	3,978.55	3,892.63	3,789.07	15.03	18.35	-99.90	-739.42	79.03	754.96	725.18	29.78	25.348	
4,100.00	4,077.73	3,979.00	3,872.07	15.44	18.85	-99.86	-763.24	80.58	781.64	751.13	30.51	25.618	
4,200.00	4,176.92	4,075.64	3,964.72	15.85	19.42	-99.79	-790.67	82.22	808.97	777.62	31.34	25.809	
4,300.00	4,276.11	4,185.01	4,070.09	16.26	20.04	-99.80	-819.89	84.35	834.97	802.67	32.30	25.853	
4,400.00	4,375.29	4,271.33	4,153.19	16.68	20.53	-99.79	-843.21	85.84	861.14	828.11	33.03	26.074	
4,500.00	4,474.48	4,367.23	4,245.23	17.09	21.09	-99.70	-870.13	86.90	887.90	854.05	33.85	26.229	
4,600.00	4,573.67	4,469.07	4,343.02	17.50	21.68	-99.60	-898.57	87.73	914.39	879.65	34.74	26.324	
4,700.00	4,672.85	4,574.03	4,444.02	17.91	22.28	-99.52	-927.10	88.31	940.12	904.48	35.64	26.375	
4,800.00	4,772.04	4,669.59	4,536.14	18.32	22.83	-99.46	-952.50	88.59	965.20	928.74	36.47	26.468	
4,900.00	4,871.23	4,754.96	4,618.14	18.74	23.32	-99.38	-976.26	88.95	991.39	954.20	37.19	26.655	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 715H - Original Hole - Surveys Original Hole												Offset Site Error:	0.00 ft
Survey Program: 385-MWD, 6028-MWD, 16578-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
5,000.00	4,970.41	4,865.39	4,724.33	19.15	23.95	-99.30	-1,006.55	89.59	1,017.36	979.21	38.15	26.665	
5,100.00	5,069.60	4,967.54	4,822.95	19.56	24.53	-99.25	-1,033.17	89.83	1,041.96	1,002.92	39.04	26.693	
5,200.00	5,168.79	5,066.11	4,917.94	19.97	25.08	-99.17	-1,059.49	89.59	1,066.88	1,027.00	39.88	26.751	
5,300.00	5,267.97	5,188.81	5,036.64	20.39	25.76	-99.10	-1,090.56	88.79	1,090.45	1,049.52	40.93	26.644	
5,400.00	5,367.16	5,301.97	5,146.78	20.80	26.35	-99.12	-1,116.45	88.19	1,111.93	1,070.06	41.87	26.554	
5,500.00	5,466.34	5,419.38	5,261.55	21.22	26.94	-99.21	-1,141.22	87.81	1,132.00	1,089.16	42.84	26.426	
5,600.00	5,565.53	5,535.40	5,375.39	21.63	27.49	-99.38	-1,163.55	87.04	1,150.28	1,106.51	43.77	26.277	
5,700.00	5,665.05	5,666.43	5,504.42	22.02	28.09	-99.84	-1,186.35	85.94	1,166.53	1,121.79	44.74	26.072	
5,800.00	5,764.94	5,878.07	5,715.03	22.38	28.84	-99.89	-1,205.53	81.71	1,172.64	1,126.82	45.81	25.596	
5,900.00	5,864.94	5,993.76	5,830.58	22.69	29.13	-149.26	-1,210.69	79.03	1,175.34	1,128.95	46.39	25.336	
6,000.00	5,964.94	6,107.79	5,944.51	23.01	29.21	-149.47	-1,214.11	76.01	1,176.56	1,129.84	46.73	25.180	
6,100.00	6,064.72	6,762.84	6,485.52	23.29	29.78	78.22	-1,227.38	-234.97	1,149.28	1,106.49	42.79	26.862	
6,200.00	6,162.21	6,896.34	6,540.71	23.50	30.17	89.60	-1,229.88	-356.03	1,109.69	1,066.06	43.63	25.432	
6,300.00	6,254.45	6,875.50	6,534.43	23.66	30.09	91.96	-1,229.44	-336.17	1,076.62	1,031.76	44.87	23.996	
6,400.00	6,338.63	6,832.38	6,518.53	23.79	29.96	92.15	-1,228.67	-296.11	1,052.07	1,006.31	45.76	22.990	
6,500.00	6,412.21	6,787.36	6,498.00	23.92	29.84	91.34	-1,227.84	-256.07	1,036.26	989.93	46.33	22.366	
6,600.00	6,472.94	6,751.88	6,479.83	24.13	29.76	90.21	-1,227.20	-225.62	1,029.19	982.52	46.67	22.052	
6,635.53	6,491.63	6,737.86	6,472.52	24.25	29.73	89.54	-1,227.00	-213.65	1,028.69	981.89	46.80	21.981	
6,700.00	6,523.21	6,706.15	6,455.85	24.47	29.67	87.95	-1,226.57	-186.68	1,030.24	983.25	46.99	21.925	
6,800.00	6,562.96	6,655.23	6,425.94	25.00	29.58	84.73	-1,225.50	-145.52	1,038.01	990.62	47.39	21.903	
6,900.00	6,586.19	6,610.56	6,396.28	25.73	29.51	81.39	-1,224.27	-112.16	1,051.29	1,003.33	47.96	21.920	
7,000.00	6,592.47	6,572.89	6,369.24	26.64	29.46	78.41	-1,223.31	-85.96	1,068.86	1,020.10	48.76	21.921	
7,100.00	6,592.87	6,533.00	6,338.80	27.75	29.42	76.78	-1,222.66	-60.19	1,092.07	1,042.29	49.77	21.941	
7,200.00	6,593.27	6,502.00	6,314.12	29.05	29.39	75.47	-1,222.20	-41.44	1,121.59	1,070.62	50.96	22.007	
7,300.00	6,593.67	6,470.00	6,287.63	30.51	29.36	74.09	-1,221.81	-23.50	1,157.45	1,105.22	52.23	22.161	
7,400.00	6,594.07	6,439.00	6,261.05	32.10	29.34	72.71	-1,221.42	-7.56	1,199.37	1,145.86	53.51	22.415	
7,500.00	6,594.47	6,408.00	6,233.70	33.81	29.32	71.32	-1,220.80	7.01	1,246.85	1,192.11	54.74	22.777	
7,600.00	6,594.87	6,392.15	6,219.44	35.63	29.31	70.60	-1,220.38	13.93	1,299.36	1,243.40	55.96	23.221	
7,700.00	6,595.27	6,376.00	6,204.75	37.53	29.30	69.86	-1,219.90	20.61	1,356.60	1,299.53	57.07	23.770	
7,800.00	6,595.67	6,356.30	6,186.62	39.50	29.29	68.96	-1,219.27	28.28	1,418.08	1,359.99	58.08	24.414	
7,900.00	6,596.07	6,344.00	6,175.19	41.54	29.29	68.40	-1,218.88	32.80	1,483.38	1,424.40	58.98	25.149	
8,000.00	6,596.47	6,328.89	6,161.03	43.63	29.28	67.70	-1,218.40	38.08	1,552.06	1,492.29	59.77	25.967	
8,100.00	6,596.87	6,313.00	6,146.04	45.77	29.27	66.98	-1,217.94	43.32	1,623.76	1,563.28	60.48	26.846	
8,200.00	6,597.27	6,313.00	6,146.04	47.95	29.27	66.98	-1,217.94	43.32	1,698.12	1,636.98	61.14	27.775	
8,300.00	6,597.67	6,295.89	6,129.78	50.16	29.26	66.20	-1,217.50	48.61	1,774.76	1,713.09	61.67	28.778	
8,400.00	6,598.07	6,282.00	6,116.50	52.40	29.26	65.57	-1,217.20	52.67	1,853.51	1,791.37	62.15	29.824	
8,500.00	6,598.47	6,282.00	6,116.50	54.68	29.26	65.57	-1,217.20	52.67	1,934.08	1,871.50	62.59	30.903	
8,600.00	6,598.87	6,282.00	6,116.50	56.97	29.26	65.57	-1,217.20	52.67	2,016.40	1,953.43	62.97	32.024	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 815H - Original Hole - rev1												Offset Site Error:	0.00 ft
Survey Program: 0-MWD												Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference 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
0.00	0.00	0.00	0.00	0.00	0.00	52.64	12.07	15.81	19.89				
100.00	100.00	100.00	100.00	0.13	0.13	52.64	12.07	15.81	19.89	19.63	0.27	73.999	
200.00	200.00	200.00	200.00	0.49	0.49	52.64	12.07	15.81	19.89	18.91	0.99	20.182	
300.00	300.00	300.00	300.00	0.85	0.85	52.64	12.07	15.81	19.89	18.19	1.70	11.684	
400.00	400.00	400.00	400.00	1.21	1.21	52.64	12.07	15.81	19.89	17.48	2.42	8.222	
500.00	500.00	500.00	500.00	1.57	1.57	52.64	12.07	15.81	19.89	16.76	3.14	6.343	
600.00	600.00	600.00	600.00	1.93	1.93	52.64	12.07	15.81	19.89	16.04	3.85	5.163	
700.00	700.00	700.00	700.00	2.29	2.29	52.64	12.07	15.81	19.89	15.32	4.57	4.353	
800.00	800.00	800.00	800.00	2.64	2.64	52.64	12.07	15.81	19.89	14.61	5.29	3.763	
900.00	900.00	900.00	900.00	3.00	3.00	52.64	12.07	15.81	19.89	13.89	6.00	3.313	
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	52.64	12.07	15.81	19.89	13.17	6.72	2.960	
1,100.00	1,100.00	1,100.13	1,100.08	3.72	3.72	45.08	13.77	13.81	19.51	12.07	7.44	2.623	
1,127.20	1,127.20	1,127.29	1,127.20	3.82	3.81	40.33	14.82	12.58	19.44	11.81	7.63	2.548	CC, ES
1,200.00	1,200.00	1,199.71	1,199.35	4.08	4.07	22.66	18.83	7.86	20.41	12.26	8.15	2.506	
1,300.00	1,299.95	1,298.62	1,297.43	4.42	4.43	112.07	27.03	-1.80	28.09	19.26	8.83	3.182	
1,400.00	1,399.63	1,397.83	1,395.64	4.77	4.81	106.43	36.13	-12.52	40.18	30.65	9.53	4.218	
1,500.00	1,498.88	1,496.90	1,493.72	5.12	5.19	108.04	45.21	-23.22	53.65	43.40	10.25	5.234	
1,600.00	1,598.07	1,595.95	1,591.77	5.48	5.57	109.51	54.30	-33.92	67.32	56.33	10.98	6.128	
1,700.00	1,697.25	1,695.00	1,689.82	5.85	5.96	110.48	63.38	-44.62	81.01	69.28	11.73	6.907	
1,800.00	1,796.44	1,794.05	1,787.87	6.22	6.36	111.17	72.46	-55.32	94.72	82.24	12.48	7.590	
1,900.00	1,895.63	1,893.10	1,885.92	6.60	6.75	111.69	81.55	-66.02	108.45	95.21	13.24	8.192	
2,000.00	1,994.81	1,992.15	1,983.97	6.98	7.15	112.09	90.63	-76.72	122.18	108.17	14.00	8.725	
2,100.00	2,094.00	2,091.20	2,082.02	7.37	7.55	112.41	99.71	-87.42	135.91	121.14	14.77	9.201	
2,200.00	2,193.19	2,190.25	2,180.07	7.76	7.96	112.67	108.80	-98.12	149.65	134.10	15.54	9.627	
2,300.00	2,292.37	2,289.30	2,278.12	8.15	8.36	112.89	117.88	-108.82	163.38	147.06	16.32	10.011	
2,400.00	2,391.56	2,388.35	2,376.17	8.55	8.77	113.07	126.96	-119.52	177.13	160.03	17.10	10.358	
2,500.00	2,490.75	2,487.40	2,474.22	8.95	9.18	113.23	136.05	-130.22	190.87	172.99	17.88	10.674	
2,600.00	2,589.93	2,586.45	2,572.27	9.34	9.59	113.37	145.13	-140.92	204.61	185.95	18.67	10.961	
2,700.00	2,689.12	2,685.50	2,670.32	9.75	10.00	113.48	154.21	-151.62	218.36	198.91	19.45	11.225	
2,800.00	2,788.31	2,784.55	2,768.37	10.15	10.41	113.59	163.30	-162.31	232.10	211.86	20.24	11.467	
2,900.00	2,887.49	2,883.60	2,866.42	10.55	10.82	113.68	172.38	-173.01	245.85	224.82	21.03	11.690	
3,000.00	2,986.68	2,982.65	2,964.47	10.95	11.24	113.77	181.46	-183.71	259.60	237.78	21.82	11.896	
3,100.00	3,085.87	3,081.70	3,062.52	11.36	11.65	113.84	190.55	-194.41	273.35	250.73	22.61	12.087	
3,200.00	3,185.05	3,180.75	3,160.57	11.76	12.06	113.91	199.63	-205.11	287.09	263.68	23.41	12.264	
3,300.00	3,284.24	3,279.80	3,258.62	12.17	12.48	113.97	208.72	-215.81	300.84	276.64	24.20	12.430	
3,400.00	3,383.43	3,378.85	3,356.67	12.58	12.89	114.03	217.80	-226.51	314.59	289.59	25.00	12.584	
3,500.00	3,482.61	3,477.90	3,454.72	12.99	13.31	114.08	226.88	-237.21	328.34	302.54	25.80	12.728	
3,600.00	3,581.80	3,576.95	3,552.78	13.39	13.72	114.12	235.97	-247.91	342.09	315.50	26.59	12.864	
3,700.00	3,680.99	3,676.00	3,650.83	13.80	14.14	114.17	245.05	-258.61	355.84	328.45	27.39	12.991	
3,800.00	3,780.17	3,775.05	3,748.88	14.21	14.56	114.21	254.13	-269.31	369.59	341.40	28.19	13.111	
3,900.00	3,879.36	3,874.10	3,846.93	14.62	14.97	114.25	263.22	-280.01	383.34	354.35	28.99	13.223	
4,000.00	3,978.55	3,973.15	3,944.98	15.03	15.39	114.28	272.30	-290.71	397.09	367.30	29.79	13.330	
4,100.00	4,077.73	4,072.20	4,043.03	15.44	15.81	114.31	281.38	-301.41	410.84	380.25	30.59	13.430	
4,200.00	4,176.92	4,171.25	4,141.08	15.85	16.22	114.34	290.47	-312.11	424.59	393.20	31.39	13.526	
4,300.00	4,276.11	4,270.30	4,239.13	16.26	16.64	114.37	299.55	-322.81	438.34	406.15	32.19	13.616	
4,400.00	4,375.29	4,369.35	4,337.18	16.68	17.06	114.40	308.63	-333.51	452.09	419.09	32.99	13.702	
4,500.00	4,474.48	4,468.40	4,435.23	17.09	17.47	114.42	317.72	-344.21	465.84	432.04	33.80	13.784	
4,600.00	4,573.67	4,567.45	4,533.28	17.50	17.89	114.45	326.80	-354.90	479.59	444.99	34.60	13.861	
4,700.00	4,672.85	4,666.50	4,631.33	17.91	18.31	114.47	335.88	-365.60	493.34	457.94	35.40	13.935	
4,800.00	4,772.04	4,765.55	4,729.38	18.32	18.73	114.49	344.97	-376.30	507.09	470.89	36.21	14.006	
4,900.00	4,871.23	4,864.60	4,827.43	18.74	19.15	114.51	354.05	-387.00	520.84	483.83	37.01	14.073	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 815H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,970.41	4,963.65	4,925.48	19.15	19.56	114.53	363.13	-397.70	534.59	496.78	37.81	14.138		
5,100.00	5,069.60	5,062.70	5,023.53	19.56	19.98	114.55	372.22	-408.40	548.34	509.73	38.62	14.200		
5,200.00	5,168.79	5,161.75	5,121.58	19.97	20.40	114.57	381.30	-419.10	562.09	522.67	39.42	14.259		
5,300.00	5,267.97	5,260.80	5,219.63	20.39	20.82	114.58	390.38	-429.80	575.84	535.62	40.23	14.315		
5,400.00	5,367.16	5,359.85	5,317.68	20.80	21.24	114.60	399.47	-440.50	589.60	548.57	41.03	14.370		
5,500.00	5,466.34	5,458.90	5,415.73	21.22	21.66	114.61	408.55	-451.20	603.35	561.51	41.84	14.422		
5,600.00	5,565.53	5,557.95	5,513.79	21.63	22.08	114.66	417.64	-461.90	617.09	574.45	42.64	14.472		
5,700.00	5,665.05	5,657.12	5,611.96	22.02	22.50	114.76	426.73	-472.61	629.57	586.14	43.43	14.498		
5,800.00	5,764.94	5,756.31	5,710.14	22.38	22.91	114.38	435.83	-483.33	639.92	595.75	44.17	14.486		
5,900.00	5,864.94	5,855.32	5,808.15	22.69	23.33	2.46	444.91	-494.02	648.71	603.83	44.88	14.453		
6,000.00	5,964.94	5,975.74	5,927.68	23.01	23.82	1.45	454.30	-505.09	656.29	610.56	45.73	14.351		
6,100.00	6,064.72	6,103.00	6,054.71	23.29	24.28	-88.91	459.00	-510.62	659.78	613.29	46.49	14.191		
6,200.00	6,162.21	6,210.50	6,162.21	23.50	24.62	-90.89	459.34	-511.03	660.05	613.03	47.02	14.038		
6,300.00	6,254.45	6,304.52	6,256.22	23.66	24.91	-93.82	459.35	-510.65	661.76	614.35	47.41	13.960		
6,400.00	6,338.63	6,407.54	6,358.29	23.79	25.16	-97.16	459.45	-497.69	666.29	618.62	47.67	13.978		
6,500.00	6,412.21	6,520.80	6,465.79	23.92	25.36	-100.46	459.72	-462.67	673.28	625.49	47.79	14.088		
6,600.00	6,472.94	6,646.76	6,574.65	24.13	25.50	-103.64	460.22	-399.80	681.95	634.19	47.76	14.280		
6,700.00	6,523.21	6,789.16	6,677.80	24.47	25.61	-106.58	460.98	-302.17	689.66	641.94	47.72	14.452		
6,800.00	6,562.96	6,921.69	6,750.59	25.00	25.79	-107.83	461.85	-191.65	694.62	646.46	48.16	14.424		
6,900.00	6,586.19	7,070.44	6,812.36	25.73	26.34	-109.53	462.90	-56.74	701.20	652.25	48.95	14.324		
7,000.00	6,592.47	7,243.04	6,838.36	26.64	27.61	-110.43	464.24	113.22	704.28	653.47	50.80	13.863		
7,046.76	6,592.66	7,289.23	6,838.52	27.16	28.06	-110.43	464.60	159.40	704.27	652.55	51.72	13.618		
7,100.00	6,592.87	7,342.47	6,838.70	27.75	28.65	-110.43	465.02	212.64	704.26	651.43	52.83	13.332		
7,200.00	6,593.27	7,442.47	6,839.05	29.05	29.87	-110.43	465.80	312.64	704.24	649.07	55.17	12.764		
7,300.00	6,593.67	7,542.47	6,839.40	30.51	31.26	-110.42	466.58	412.63	704.22	646.40	57.82	12.180		
7,400.00	6,594.07	7,642.47	6,839.75	32.10	32.79	-110.42	467.37	512.63	704.21	643.48	60.72	11.597		
7,500.00	6,594.47	7,742.47	6,840.10	33.81	34.44	-110.41	468.15	612.62	704.19	640.34	63.85	11.028		
7,600.00	6,594.87	7,842.47	6,840.44	35.63	36.20	-110.41	468.93	712.62	704.17	637.00	67.17	10.483		
7,700.00	6,595.27	7,942.47	6,840.79	37.53	38.05	-110.41	469.72	812.62	704.15	633.50	70.65	9.966		
7,800.00	6,595.67	8,042.47	6,841.14	39.50	39.97	-110.40	470.50	912.61	704.13	629.86	74.27	9.480		
7,900.00	6,596.07	8,142.47	6,841.49	41.54	41.96	-110.40	471.28	1,012.61	704.12	626.10	78.01	9.025		
8,000.00	6,596.47	8,242.47	6,841.84	43.63	44.01	-110.39	472.07	1,112.61	704.10	622.24	81.86	8.601		
8,100.00	6,596.87	8,342.47	6,842.18	45.77	46.11	-110.39	472.85	1,212.60	704.08	618.29	85.79	8.207		
8,200.00	6,597.27	8,442.47	6,842.53	47.95	48.25	-110.39	473.64	1,312.60	704.06	614.27	89.79	7.841		
8,300.00	6,597.67	8,542.47	6,842.88	50.16	50.43	-110.38	474.42	1,412.59	704.04	610.18	93.87	7.501		
8,400.00	6,598.07	8,642.47	6,843.23	52.40	52.64	-110.38	475.20	1,512.59	704.03	606.04	97.99	7.185		
8,500.00	6,598.47	8,742.47	6,843.57	54.68	54.88	-110.37	475.99	1,612.59	704.01	601.84	102.17	6.891		
8,600.00	6,598.87	8,842.47	6,843.92	56.97	57.15	-110.37	476.77	1,712.58	703.99	597.61	106.38	6.617		
8,700.00	6,599.27	8,942.47	6,844.27	59.29	59.44	-110.37	477.55	1,812.58	703.97	593.33	110.64	6.363		
8,800.00	6,599.67	9,042.47	6,844.62	61.62	61.75	-110.36	478.34	1,912.58	703.95	589.03	114.92	6.125		
8,900.00	6,600.07	9,142.47	6,844.97	63.97	64.08	-110.36	479.12	2,012.57	703.94	584.70	119.24	5.904		
9,000.00	6,600.47	9,242.47	6,845.31	66.34	66.43	-110.35	479.91	2,112.57	703.92	580.35	123.57	5.696		
9,100.00	6,600.87	9,342.47	6,845.66	68.72	68.79	-110.35	480.69	2,212.57	703.90	575.97	127.93	5.502		
9,200.00	6,601.27	9,442.47	6,846.01	71.11	71.16	-110.35	481.47	2,312.56	703.88	571.57	132.31	5.320		
9,300.00	6,601.67	9,542.47	6,846.36	73.51	73.55	-110.34	482.26	2,412.56	703.87	567.16	136.70	5.149		
9,400.00	6,602.07	9,642.47	6,846.71	75.93	75.95	-110.34	483.04	2,512.55	703.85	562.74	141.11	4.988		
9,500.00	6,602.47	9,742.47	6,847.05	78.35	78.35	-110.33	483.82	2,612.55	703.83	558.31	145.52	4.837		
9,600.00	6,602.87	9,842.47	6,847.40	80.78	80.77	-110.33	484.61	2,712.55	703.81	553.86	149.95	4.694		
9,700.00	6,603.27	9,942.47	6,847.75	83.21	83.19	-110.33	485.39	2,812.54	703.79	549.41	154.39	4.559		
9,800.00	6,603.67	10,042.47	6,848.10	85.66	85.62	-110.32	486.18	2,912.54	703.78	544.95	158.83	4.431		
9,900.00	6,604.07	10,142.47	6,848.44	88.10	88.06	-110.32	486.96	3,012.54	703.76	540.48	163.28	4.310		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 815H - Original Hole - rev1											Offset Site Error:		0.00 ft		
Survey Program:		0-MWD								Rule Assigned:				Offset Well Error:		0.00 ft	
Measured Depth (ft)	Vertical Reference Depth (ft)	Measured Depth (ft)	Vertical Offset Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning				
10,000.00	6,604.47	10,242.47	6,848.79	90.56	90.51	-110.31	487.74	3,112.53	703.74	536.01	167.73	4.196					
10,100.00	6,604.87	10,342.47	6,849.14	93.02	92.96	-110.31	488.53	3,212.53	703.72	531.54	172.19	4.087					
10,200.00	6,605.27	10,442.47	6,849.49	95.49	95.41	-110.31	489.31	3,312.52	703.70	527.06	176.65	3.984					
10,300.00	6,605.67	10,542.47	6,849.84	97.95	97.87	-110.30	490.09	3,412.52	703.69	522.58	181.11	3.885					
10,400.00	6,606.07	10,642.47	6,850.18	100.43	100.34	-110.30	490.88	3,512.52	703.67	518.10	185.57	3.792					
10,500.00	6,606.47	10,742.47	6,850.53	102.91	102.80	-110.29	491.66	3,612.51	703.65	513.62	190.03	3.703					
10,600.00	6,606.87	10,842.47	6,850.88	105.39	105.28	-110.29	492.44	3,712.51	703.63	509.14	194.49	3.618					
10,700.00	6,607.27	10,942.47	6,851.23	107.87	107.75	-110.29	493.23	3,812.51	703.62	504.66	198.95	3.537					
10,800.00	6,607.67	11,042.47	6,851.57	110.36	110.23	-110.28	494.01	3,912.50	703.60	500.19	203.41	3.459					
10,900.00	6,608.07	11,142.46	6,851.92	112.85	112.72	-110.28	494.80	4,012.50	703.58	495.71	207.87	3.385					
11,000.00	6,608.47	11,242.46	6,852.27	115.34	115.20	-110.28	495.58	4,112.50	703.56	491.24	212.32	3.314					
11,100.00	6,608.87	11,342.46	6,852.62	117.84	117.69	-110.27	496.36	4,212.49	703.54	486.77	216.77	3.246					
11,200.00	6,609.27	11,442.46	6,852.97	120.34	120.19	-110.27	497.15	4,312.49	703.53	482.31	221.22	3.180					
11,300.00	6,609.67	11,542.46	6,853.31	122.84	122.68	-110.26	497.93	4,412.48	703.51	477.85	225.66	3.118					
11,400.00	6,610.07	11,642.46	6,853.66	125.34	125.18	-110.26	498.71	4,512.48	703.49	473.39	230.10	3.057					
11,500.00	6,610.47	11,742.46	6,854.01	127.84	127.68	-110.26	499.50	4,612.48	703.47	468.94	234.53	2.999					
11,600.00	6,610.87	11,842.46	6,854.36	130.35	130.18	-110.25	500.28	4,712.47	703.46	464.50	238.96	2.944					
11,700.00	6,611.27	11,942.46	6,854.71	132.86	132.68	-110.25	501.07	4,812.47	703.44	460.06	243.38	2.890					
11,800.00	6,611.67	12,042.46	6,855.05	135.37	135.18	-110.24	501.85	4,912.47	703.42	455.63	247.79	2.839					
11,900.00	6,612.07	12,142.46	6,855.40	137.88	137.69	-110.24	502.63	5,012.46	703.40	451.20	252.20	2.789					
12,000.00	6,612.47	12,242.46	6,855.75	140.39	140.20	-110.24	503.42	5,112.46	703.38	446.79	256.60	2.741					
12,100.00	6,612.87	12,342.46	6,856.10	142.91	142.71	-110.23	504.20	5,212.45	703.37	442.38	260.99	2.695					
12,200.00	6,613.27	12,442.46	6,856.44	145.42	145.22	-110.23	504.98	5,312.45	703.35	437.98	265.37	2.650					
12,300.00	6,613.67	12,542.46	6,856.79	147.94	147.73	-110.22	505.77	5,412.45	703.33	433.58	269.75	2.607					
12,400.00	6,614.07	12,642.46	6,857.14	150.46	150.25	-110.22	506.55	5,512.44	703.31	429.20	274.11	2.566					
12,500.00	6,614.47	12,742.46	6,857.49	152.98	152.76	-110.22	507.34	5,612.44	703.30	424.83	278.47	2.526					
12,600.00	6,614.87	12,842.46	6,857.84	155.50	155.28	-110.21	508.12	5,712.44	703.28	420.46	282.82	2.487					
12,700.00	6,615.27	12,942.46	6,858.18	158.02	157.80	-110.21	508.90	5,812.43	703.26	416.10	287.16	2.449					
12,800.00	6,615.67	13,042.46	6,858.53	160.54	160.31	-110.20	509.69	5,912.43	703.24	411.76	291.48	2.413					
12,900.00	6,616.06	13,142.46	6,858.88	163.06	162.83	-110.20	510.47	6,012.43	703.22	407.43	295.80	2.377					
13,000.00	6,616.46	13,242.46	6,859.23	165.59	165.35	-110.20	511.25	6,112.42	703.21	403.10	300.10	2.343					
13,100.00	6,616.86	13,342.46	6,859.57	168.11	167.88	-110.19	512.04	6,212.42	703.19	398.79	304.40	2.310					
13,200.00	6,617.26	13,442.46	6,859.92	170.64	170.40	-110.19	512.82	6,312.41	703.17	394.49	308.68	2.278					
13,300.00	6,617.66	13,542.46	6,860.27	173.16	172.92	-110.18	513.61	6,412.41	703.15	390.20	312.95	2.247					
13,400.00	6,618.06	13,642.46	6,860.62	175.69	175.45	-110.18	514.39	6,512.41	703.14	385.93	317.21	2.217					
13,500.00	6,618.46	13,742.46	6,860.97	178.22	177.97	-110.18	515.17	6,612.40	703.12	381.67	321.45	2.187					
13,600.00	6,618.86	13,842.46	6,861.31	180.75	180.50	-110.17	515.96	6,712.40	703.10	377.42	325.68	2.159					
13,700.00	6,619.26	13,942.46	6,861.66	183.28	183.02	-110.17	516.74	6,812.40	703.08	373.18	329.90	2.131					
13,800.00	6,619.66	14,042.46	6,862.01	185.81	185.55	-110.16	517.52	6,912.39	703.07	368.96	334.10	2.104					
13,900.00	6,620.06	14,142.46	6,862.36	188.34	188.08	-110.16	518.31	7,012.39	703.05	364.76	338.29	2.078					
14,000.00	6,620.46	14,242.46	6,862.71	190.87	190.61	-110.16	519.09	7,112.38	703.03	360.56	342.47	2.053					
14,100.00	6,620.86	14,342.46	6,863.05	193.40	193.14	-110.15	519.87	7,212.38	703.01	356.39	346.63	2.028					
14,200.00	6,621.26	14,442.46	6,863.40	195.93	195.67	-110.15	520.66	7,312.38	702.99	352.23	350.77	2.004					
14,300.00	6,621.66	14,542.46	6,863.75	198.47	198.20	-110.14	521.44	7,412.37	702.98	348.08	354.90	1.981 Level 3<2.00					
14,400.00	6,622.06	14,642.46	6,864.10	201.00	200.73	-110.14	522.23	7,512.37	702.96	343.95	359.01	1.958 Level 3<2.00					
14,500.00	6,622.46	14,742.46	6,864.44	203.53	203.26	-110.14	523.01	7,612.37	702.94	339.84	363.10	1.936 Level 3<2.00					
14,600.00	6,622.86	14,842.46	6,864.79	206.07	205.79	-110.13	523.79	7,712.36	702.92	335.75	367.18	1.914 Level 3<2.00					
14,700.00	6,623.26	14,942.46	6,865.14	208.60	208.33	-110.13	524.58	7,812.36	702.91	331.67	371.23	1.893 Level 3<2.00					
14,800.00	6,623.66	15,042.46	6,865.49	211.14	210.86	-110.12	525.36	7,912.36	702.89	327.61	375.28	1.873 Level 3<2.00					
14,900.00	6,624.06	15,142.46	6,865.84	213.67	213.39	-110.12	526.14	8,012.35	702.87	323.57	379.30	1.853 Level 3<2.00					
15,000.00	6,624.46	15,242.46	6,866.18	216.21	215.93	-110.12	526.93	8,112.35	702.85	319.55	383.30	1.834 Level 3<2.00					

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 815H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,100.00	6,624.86	15,342.46	6,866.53	218.74	218.46	-110.11	527.71	8,212.34	702.84	315.55	387.28	1.815	Level 3<2.00	
15,200.00	6,625.26	15,442.46	6,866.88	221.28	220.99	-110.11	528.50	8,312.34	702.82	311.57	391.25	1.796	Level 3<2.00	
15,300.00	6,625.66	15,542.46	6,867.23	223.82	223.53	-110.10	529.28	8,412.34	702.80	307.61	395.19	1.778	Level 3<2.00	
15,400.00	6,626.06	15,642.46	6,867.57	226.35	226.07	-110.10	530.06	8,512.33	702.78	303.67	399.12	1.761	Level 3<2.00	
15,500.00	6,626.46	15,742.46	6,867.92	228.89	228.60	-110.10	530.85	8,612.33	702.76	299.75	403.02	1.744	Level 3<2.00	
15,600.00	6,626.86	15,842.46	6,868.27	231.43	231.14	-110.09	531.63	8,712.33	702.75	295.85	406.90	1.727	Level 3<2.00	
15,700.00	6,627.26	15,942.46	6,868.62	233.97	233.67	-110.09	532.41	8,812.32	702.73	291.97	410.76	1.711	Level 3<2.00	
15,800.00	6,627.66	16,042.46	6,868.97	236.51	236.21	-110.08	533.20	8,912.32	702.71	288.12	414.60	1.695	Level 3<2.00	
15,900.00	6,628.06	16,142.46	6,869.31	239.05	238.75	-110.08	533.98	9,012.31	702.69	284.28	418.41	1.679	Level 3<2.00	
16,000.00	6,628.46	16,242.46	6,869.66	241.59	241.29	-110.08	534.77	9,112.31	702.68	280.47	422.20	1.664	Level 3<2.00	
16,100.00	6,628.86	16,342.46	6,870.01	244.12	243.82	-110.07	535.55	9,212.31	702.66	276.69	425.97	1.650	Level 3<2.00	
16,200.00	6,629.26	16,442.46	6,870.36	246.66	246.36	-110.07	536.33	9,312.30	702.64	272.92	429.72	1.635	Level 3<2.00	
16,300.00	6,629.66	16,542.46	6,870.71	249.20	248.90	-110.06	537.12	9,412.30	702.62	269.19	433.44	1.621	Level 3<2.00	
16,400.00	6,630.06	16,642.46	6,871.05	251.74	251.44	-110.06	537.90	9,512.30	702.61	265.47	437.14	1.607	Level 3<2.00	
16,500.00	6,630.46	16,742.46	6,871.40	254.28	253.98	-110.06	538.68	9,612.29	702.59	261.78	440.81	1.594	Level 3<2.00	
16,600.00	6,630.86	16,842.46	6,871.75	256.83	256.52	-110.05	539.47	9,712.29	702.57	258.11	444.46	1.581	Level 3<2.00	
16,700.00	6,631.26	16,942.46	6,872.10	259.37	259.06	-110.05	540.25	9,812.29	702.55	254.48	448.08	1.568	Level 3<2.00	
16,800.00	6,631.66	17,042.46	6,872.44	261.91	261.60	-110.04	541.04	9,912.28	702.54	250.86	451.68	1.555	Level 3<2.00	
16,900.00	6,632.06	17,142.46	6,872.79	264.45	264.14	-110.04	541.82	10,012.28	702.52	247.27	455.25	1.543	Level 3<2.00	
17,000.00	6,632.46	17,242.46	6,873.14	266.99	266.68	-110.04	542.60	10,112.27	702.50	243.71	458.79	1.531	Level 3<2.00	
17,100.00	6,632.86	17,342.46	6,873.49	269.53	269.22	-110.03	543.39	10,212.27	702.48	240.17	462.31	1.520	Level 3<2.00	
17,200.00	6,633.26	17,442.46	6,873.84	272.07	271.76	-110.03	544.17	10,312.27	702.47	236.66	465.80	1.508	Level 3<2.00	
17,300.00	6,633.66	17,542.46	6,874.18	274.62	274.30	-110.02	544.95	10,412.26	702.45	233.18	469.27	1.497	Level 2<1.50	
17,400.00	6,634.06	17,642.46	6,874.53	277.16	276.84	-110.02	545.74	10,512.26	702.43	229.72	472.71	1.486	Level 2<1.50	
17,500.00	6,634.46	17,742.46	6,874.88	279.70	279.38	-110.02	546.52	10,612.26	702.41	226.29	476.12	1.475	Level 2<1.50	
17,600.00	6,634.86	17,842.46	6,875.23	282.24	281.92	-110.01	547.30	10,712.25	702.40	222.88	479.51	1.465	Level 2<1.50	
17,700.00	6,635.26	17,942.46	6,875.58	284.79	284.47	-110.01	548.09	10,812.25	702.38	219.51	482.87	1.455	Level 2<1.50	
17,800.00	6,635.66	18,042.46	6,875.92	287.33	287.01	-110.00	548.87	10,912.24	702.36	216.16	486.20	1.445	Level 2<1.50	
17,900.00	6,636.06	18,142.46	6,876.27	289.87	289.55	-110.00	549.66	11,012.24	702.34	212.83	489.51	1.435	Level 2<1.50	
18,000.00	6,636.46	18,242.46	6,876.62	292.42	292.09	-110.00	550.44	11,112.24	702.32	209.54	492.79	1.425	Level 2<1.50	
18,100.00	6,636.86	18,342.46	6,876.97	294.96	294.64	-109.99	551.22	11,212.23	702.31	206.27	496.04	1.416	Level 2<1.50	
18,200.00	6,637.26	18,442.46	6,877.31	297.50	297.18	-109.99	552.01	11,312.23	702.29	203.02	499.27	1.407	Level 2<1.50	
18,300.00	6,637.66	18,542.46	6,877.66	300.05	299.72	-109.98	552.79	11,412.23	702.27	199.81	502.47	1.398	Level 2<1.50	
18,386.05	6,638.00	18,628.52	6,877.96	302.24	301.91	-109.98	553.47	11,498.27	702.26	197.06	505.20	1.390	Level 2<1.50, SF	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 817H - Original Hole - rev1												Offset Site Error:		0.00 ft	
Survey Program:		0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:		0.00 ft	
Reference	Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance				Warning			
Depth	Depth	Depth	Depth	Depth	(ft)	(ft)	Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	Centres	Ellipses	Separation	Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)					
0.00	0.00	0.00	0.00	0.00	0.00	0.00	-126.02	-11.71	-16.11	19.91							
100.00	100.00	100.00	100.00	100.00	0.13	0.13	-126.02	-11.71	-16.11	19.91	19.65	0.27	74.073				
200.00	200.00	200.00	200.00	200.00	0.49	0.49	-126.02	-11.71	-16.11	19.91	18.93	0.99	20.202				
300.00	300.00	300.00	300.00	300.00	0.85	0.85	-126.02	-11.71	-16.11	19.91	18.21	1.70	11.696				
400.00	400.00	400.00	400.00	400.00	1.21	1.21	-126.02	-11.71	-16.11	19.91	17.50	2.42	8.230				
500.00	500.00	500.00	500.00	500.00	1.57	1.57	-126.02	-11.71	-16.11	19.91	16.78	3.14	6.349				
600.00	600.00	600.00	600.00	600.00	1.93	1.93	-126.02	-11.71	-16.11	19.91	16.06	3.85	5.168				
700.00	700.00	700.00	700.00	700.00	2.29	2.29	-126.02	-11.71	-16.11	19.91	15.34	4.57	4.357				
800.00	800.00	800.00	800.00	800.00	2.64	2.64	-126.02	-11.71	-16.11	19.91	14.63	5.29	3.766				
900.00	900.00	900.00	900.00	900.00	3.00	3.00	-126.02	-11.71	-16.11	19.91	13.91	6.00	3.317				
1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-126.02	-11.71	-16.11	19.91	13.19	6.72	2.963				
1,100.00	1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-126.02	-11.71	-16.11	19.91	12.48	7.44	2.677				
1,200.00	1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-126.02	-11.71	-16.11	19.91	11.76	8.16	2.442				
1,298.38	1,298.34	1,297.42	1,297.37	1,297.37	4.42	4.41	-19.61	-13.83	-17.40	19.85	11.03	8.82	2.251 CC				
1,300.00	1,299.95	1,299.02	1,298.97	1,298.97	4.42	4.42	-19.76	-13.90	-17.44	19.85	11.02	8.83	2.248 ES				
1,400.00	1,399.63	1,397.87	1,397.52	1,397.52	4.77	4.75	-33.81	-20.46	-21.44	20.48	11.04	9.45	2.168				
1,500.00	1,498.88	1,496.42	1,495.23	1,495.23	5.12	5.08	-51.80	-31.32	-28.05	24.44	14.38	10.06	2.429				
1,600.00	1,598.07	1,594.39	1,591.60	1,591.60	5.48	5.43	-60.89	-46.36	-37.22	34.51	23.82	10.70	3.226				
1,700.00	1,697.25	1,693.03	1,687.92	1,687.92	5.85	5.81	-63.81	-64.50	-48.27	48.24	36.83	11.41	4.229				
1,800.00	1,796.44	1,792.05	1,784.59	1,784.59	6.22	6.20	-65.39	-82.82	-59.43	62.16	50.02	12.14	5.119				
1,900.00	1,895.63	1,891.06	1,881.25	1,881.25	6.60	6.62	-66.39	-101.14	-70.59	76.11	63.22	12.89	5.905				
2,000.00	1,994.81	1,990.08	1,977.91	1,977.91	6.98	7.04	-67.08	-119.46	-81.74	90.07	76.43	13.64	6.602				
2,100.00	2,094.00	2,089.10	2,074.58	2,074.58	7.37	7.47	-67.58	-137.78	-92.90	104.04	89.64	14.40	7.223				
2,200.00	2,193.19	2,188.11	2,171.24	2,171.24	7.76	7.91	-67.97	-156.10	-104.06	118.02	102.85	15.17	7.778				
2,300.00	2,292.37	2,287.13	2,267.91	2,267.91	8.15	8.36	-68.27	-174.42	-115.22	132.00	116.06	15.95	8.278				
2,400.00	2,391.56	2,386.14	2,364.57	2,364.57	8.55	8.82	-68.52	-192.74	-126.38	145.99	129.26	16.73	8.728				
2,500.00	2,490.75	2,485.16	2,461.23	2,461.23	8.95	9.28	-68.72	-211.06	-137.54	159.97	142.46	17.51	9.136				
2,600.00	2,589.93	2,584.17	2,557.90	2,557.90	9.34	9.74	-68.89	-229.38	-148.70	173.96	155.66	18.30	9.506				
2,700.00	2,689.12	2,683.19	2,654.56	2,654.56	9.75	10.21	-69.03	-247.70	-159.86	187.95	168.86	19.09	9.845				
2,800.00	2,788.31	2,782.20	2,751.23	2,751.23	10.15	10.68	-69.16	-266.02	-171.02	201.95	182.06	19.89	10.155				
2,900.00	2,887.49	2,881.22	2,847.89	2,847.89	10.55	11.16	-69.27	-284.34	-182.18	215.94	195.25	20.68	10.439				
3,000.00	2,986.68	2,980.23	2,944.55	2,944.55	10.95	11.63	-69.36	-302.66	-193.34	229.93	208.45	21.49	10.702				
3,100.00	3,085.87	3,079.25	3,041.22	3,041.22	11.36	12.11	-69.45	-320.98	-204.50	243.92	221.64	22.29	10.944				
3,200.00	3,185.05	3,178.27	3,137.88	3,137.88	11.76	12.60	-69.52	-339.30	-215.66	257.92	234.82	23.09	11.169				
3,300.00	3,284.24	3,277.28	3,234.54	3,234.54	12.17	13.08	-69.59	-357.62	-226.82	271.91	248.01	23.90	11.377				
3,400.00	3,383.43	3,376.30	3,331.21	3,331.21	12.58	13.56	-69.65	-375.94	-237.98	285.91	261.20	24.71	11.572				
3,500.00	3,482.61	3,475.31	3,427.87	3,427.87	12.99	14.05	-69.70	-394.26	-249.14	299.90	274.38	25.52	11.753				
3,600.00	3,581.80	3,574.33	3,524.54	3,524.54	13.39	14.54	-69.75	-412.58	-260.30	313.90	287.57	26.33	11.923				
3,700.00	3,680.99	3,673.34	3,621.20	3,621.20	13.80	15.02	-69.80	-430.90	-271.46	327.89	300.75	27.14	12.082				
3,800.00	3,780.17	3,772.36	3,717.86	3,717.86	14.21	15.51	-69.84	-449.22	-282.62	341.89	313.93	27.95	12.231				
3,900.00	3,879.36	3,871.37	3,814.53	3,814.53	14.62	16.00	-69.88	-467.54	-293.78	355.88	327.11	28.77	12.371				
4,000.00	3,978.55	3,970.39	3,911.19	3,911.19	15.03	16.49	-69.92	-485.86	-304.94	369.88	340.30	29.58	12.503				
4,100.00	4,077.73	4,069.41	4,007.86	4,007.86	15.44	16.99	-69.95	-504.18	-316.10	383.87	353.47	30.40	12.628				
4,200.00	4,176.92	4,168.42	4,104.52	4,104.52	15.85	17.48	-69.98	-522.50	-327.26	397.87	366.65	31.22	12.746				
4,300.00	4,276.11	4,267.44	4,201.18	4,201.18	16.26	17.97	-70.01	-540.82	-338.42	411.87	379.83	32.03	12.857				
4,400.00	4,375.29	4,366.45	4,297.85	4,297.85	16.68	18.47	-70.04	-559.14	-349.58	425.86	393.01	32.85	12.963				
4,500.00	4,474.48	4,465.47	4,394.51	4,394.51	17.09	18.96	-70.06	-577.46	-360.74	439.86	406.19	33.67	13.063				
4,600.00	4,573.67	4,564.48	4,491.18	4,491.18	17.50	19.46	-70.09	-595.78	-371.90	453.86	419.36	34.49	13.158				
4,700.00	4,672.85	4,663.50	4,587.84	4,587.84	17.91	19.95	-70.11	-614.10	-383.06	467.85	432.54	35.31	13.249				
4,800.00	4,772.04	4,762.51	4,684.50	4,684.50	18.32	20.45	-70.13	-632.42	-394.21	481.85	445.72	36.13	13.335				
4,900.00	4,871.23	4,861.53	4,781.17	4,781.17	18.74	20.94	-70.15	-650.74	-405.37	495.84	458.89	36.95	13.418				

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 817H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,970.41	4,960.54	4,877.83	19.15	21.44	-70.17	-669.06	-416.53	509.84	472.07	37.78	13.496		
5,100.00	5,069.60	5,059.56	4,974.49	19.56	21.94	-70.19	-687.38	-427.69	523.84	485.24	38.60	13.571		
5,200.00	5,168.79	5,158.58	5,071.16	19.97	22.43	-70.20	-705.70	-438.85	537.83	498.41	39.42	13.643		
5,300.00	5,267.97	5,257.59	5,167.82	20.39	22.93	-70.22	-724.02	-450.01	551.83	511.59	40.24	13.712		
5,400.00	5,367.16	5,356.61	5,264.49	20.80	23.43	-70.23	-742.34	-461.17	565.83	524.76	41.07	13.778		
5,500.00	5,466.34	5,455.62	5,361.15	21.22	23.93	-70.25	-760.66	-472.33	579.83	537.93	41.89	13.841		
5,600.00	5,565.53	5,554.64	5,457.81	21.63	24.43	-70.29	-778.98	-483.49	593.83	551.11	42.72	13.902		
5,700.00	5,665.05	5,653.45	5,554.28	22.02	24.93	-70.46	-797.27	-494.63	608.85	565.36	43.49	13.998		
5,800.00	5,764.94	5,751.73	5,650.23	22.38	25.42	-70.24	-815.45	-505.71	625.65	581.46	44.20	14.156		
5,900.00	5,864.94	5,874.51	5,770.49	22.69	26.01	179.71	-836.50	-518.53	642.77	597.72	45.05	14.268		
6,000.00	5,964.94	6,014.33	5,908.99	23.01	26.61	-179.41	-852.71	-528.40	654.42	608.50	45.91	14.253		
6,100.00	6,064.72	6,155.82	6,050.17	23.29	27.09	91.68	-860.25	-533.00	659.93	613.40	46.53	14.182		
6,200.00	6,162.21	6,267.87	6,162.21	23.50	27.40	93.59	-860.78	-533.32	661.38	614.53	46.85	14.118		
6,300.00	6,254.45	6,364.90	6,259.22	23.66	27.65	96.38	-860.77	-532.32	664.89	617.91	46.97	14.155		
6,400.00	6,338.63	6,476.17	6,368.97	23.79	27.87	99.58	-860.64	-515.04	670.96	624.02	46.94	14.295		
6,500.00	6,412.21	6,598.98	6,483.66	23.92	28.03	102.66	-860.30	-471.81	678.72	631.97	46.75	14.517		
6,600.00	6,472.94	6,735.25	6,596.89	24.13	28.10	105.47	-859.71	-396.56	687.08	640.63	46.45	14.791		
6,700.00	6,523.21	6,886.64	6,697.92	24.47	28.08	107.71	-858.83	-284.40	693.12	646.76	46.36	14.951		
6,800.00	6,562.96	7,009.55	6,760.58	25.00	28.02	108.51	-858.00	-178.72	696.97	650.04	46.93	14.852		
6,900.00	6,586.19	7,175.83	6,816.80	25.73	27.95	109.60	-856.78	-22.86	700.66	652.57	48.09	14.571		
7,000.00	6,592.47	7,322.49	6,828.46	26.64	28.06	109.68	-855.64	123.02	700.87	650.68	50.19	13.964		
7,100.00	6,592.87	7,422.49	6,828.81	27.75	28.86	109.67	-854.86	223.01	700.86	648.61	52.25	13.414		
7,200.00	6,593.27	7,522.49	6,829.16	29.05	30.12	109.67	-854.07	323.01	700.84	646.19	54.65	12.824		
7,300.00	6,593.67	7,622.49	6,829.50	30.51	31.58	109.66	-853.29	423.01	700.82	643.47	57.35	12.220		
7,400.00	6,594.07	7,722.49	6,829.85	32.10	33.17	109.66	-852.51	523.00	700.80	640.49	60.31	11.619		
7,500.00	6,594.47	7,822.49	6,830.20	33.81	34.87	109.66	-851.72	623.00	700.79	637.29	63.50	11.036		
7,600.00	6,594.87	7,922.49	6,830.55	35.63	36.67	109.65	-850.94	723.00	700.77	633.90	66.87	10.479		
7,700.00	6,595.27	8,022.49	6,830.89	37.53	38.55	109.65	-850.16	822.99	700.75	630.34	70.41	9.953		
7,800.00	6,595.67	8,122.49	6,831.24	39.50	40.51	109.64	-849.37	922.99	700.74	626.65	74.08	9.459		
7,900.00	6,596.07	8,222.49	6,831.59	41.54	42.52	109.64	-848.59	1,022.99	700.72	622.84	77.88	8.998		
8,000.00	6,596.47	8,322.49	6,831.94	43.63	44.59	109.64	-847.81	1,122.98	700.70	618.93	81.77	8.569		
8,100.00	6,596.87	8,422.49	6,832.28	45.77	46.71	109.63	-847.02	1,222.98	700.68	614.93	85.75	8.171		
8,200.00	6,597.27	8,522.49	6,832.63	47.95	48.87	109.63	-846.24	1,322.97	700.67	610.86	89.80	7.802		
8,300.00	6,597.67	8,622.49	6,832.98	50.16	51.06	109.62	-845.46	1,422.97	700.65	606.73	93.92	7.460		
8,400.00	6,598.07	8,722.49	6,833.33	52.40	53.28	109.62	-844.67	1,522.97	700.63	602.54	98.09	7.142		
8,500.00	6,598.47	8,822.49	6,833.67	54.68	55.53	109.62	-843.89	1,622.96	700.61	598.30	102.31	6.848		
8,600.00	6,598.87	8,922.49	6,834.02	56.97	57.81	109.61	-843.11	1,722.96	700.60	594.02	106.58	6.574		
8,700.00	6,599.27	9,022.49	6,834.37	59.29	60.11	109.61	-842.32	1,822.96	700.58	589.71	110.88	6.319		
8,800.00	6,599.67	9,122.49	6,834.72	61.62	62.42	109.60	-841.54	1,922.95	700.56	585.36	115.20	6.081		
8,900.00	6,600.07	9,222.49	6,835.06	63.97	64.76	109.60	-840.76	2,022.95	700.55	580.99	119.56	5.859		
9,000.00	6,600.47	9,322.49	6,835.41	66.34	67.11	109.60	-839.97	2,122.95	700.53	576.59	123.94	5.652		
9,100.00	6,600.87	9,422.49	6,835.76	68.72	69.47	109.59	-839.19	2,222.94	700.51	572.17	128.34	5.458		
9,200.00	6,601.27	9,522.49	6,836.11	71.11	71.85	109.59	-838.41	2,322.94	700.49	567.74	132.76	5.276		
9,300.00	6,601.67	9,622.49	6,836.45	73.51	74.24	109.58	-837.63	2,422.93	700.48	563.28	137.19	5.106		
9,400.00	6,602.07	9,722.49	6,836.80	75.93	76.64	109.58	-836.84	2,522.93	700.46	558.82	141.64	4.945		
9,500.00	6,602.47	9,822.49	6,837.15	78.35	79.04	109.58	-836.06	2,622.93	700.44	554.34	146.10	4.794		
9,600.00	6,602.87	9,922.49	6,837.50	80.78	81.46	109.57	-835.28	2,722.92	700.43	549.86	150.57	4.652		
9,700.00	6,603.27	10,022.49	6,837.84	83.21	83.88	109.57	-834.49	2,822.92	700.41	545.36	155.05	4.517		
9,800.00	6,603.67	10,122.49	6,838.19	85.66	86.32	109.56	-833.71	2,922.92	700.39	540.86	159.53	4.390		
9,900.00	6,604.07	10,222.49	6,838.54	88.10	88.76	109.56	-832.93	3,022.91	700.37	536.35	164.02	4.270		
10,000.00	6,604.47	10,322.49	6,838.89	90.56	91.20	109.56	-832.14	3,122.91	700.36	531.84	168.51	4.156		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 817H - Original Hole - rev1											Offset Site Error:		0.00 ft
Survey Program:		0-MWD						Rule Assigned:				Offset Well Error:		0.00 ft	
Measured Depth (ft)	Vertical Reference Depth (ft)	Measured Depth (ft)	Vertical Offset Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
10,100.00	6,604.87	10,422.49	6,839.24	93.02	93.65	109.55	-831.36	3,222.90	700.34	527.33	173.01	4.048			
10,200.00	6,605.27	10,522.49	6,839.58	95.49	96.11	109.55	-830.58	3,322.90	700.32	522.81	177.51	3.945			
10,300.00	6,605.67	10,622.49	6,839.93	97.95	98.57	109.54	-829.79	3,422.90	700.30	518.29	182.02	3.847			
10,400.00	6,606.07	10,722.49	6,840.28	100.43	101.03	109.54	-829.01	3,522.89	700.29	513.76	186.52	3.754			
10,500.00	6,606.47	10,822.49	6,840.63	102.91	103.50	109.53	-828.23	3,622.89	700.27	509.24	191.03	3.666			
10,600.00	6,606.87	10,922.49	6,840.97	105.39	105.97	109.53	-827.44	3,722.89	700.25	504.72	195.53	3.581			
10,700.00	6,607.27	11,022.49	6,841.32	107.87	108.45	109.53	-826.66	3,822.88	700.24	500.20	200.04	3.501			
10,800.00	6,607.67	11,122.49	6,841.67	110.36	110.93	109.52	-825.88	3,922.88	700.22	495.68	204.54	3.423			
10,900.00	6,608.07	11,222.49	6,842.02	112.85	113.41	109.52	-825.09	4,022.88	700.20	491.16	209.04	3.350			
11,000.00	6,608.47	11,322.49	6,842.36	115.34	115.90	109.51	-824.31	4,122.87	700.18	486.65	213.54	3.279			
11,100.00	6,608.87	11,422.49	6,842.71	117.84	118.39	109.51	-823.53	4,222.87	700.17	482.13	218.03	3.211			
11,200.00	6,609.27	11,522.48	6,843.06	120.34	120.88	109.51	-822.75	4,322.86	700.15	477.62	222.53	3.146			
11,300.00	6,609.67	11,622.48	6,843.41	122.84	123.37	109.50	-821.96	4,422.86	700.13	473.12	227.01	3.084			
11,400.00	6,610.07	11,722.48	6,843.75	125.34	125.87	109.50	-821.18	4,522.86	700.12	468.62	231.50	3.024			
11,500.00	6,610.47	11,822.48	6,844.10	127.84	128.37	109.49	-820.40	4,622.85	700.10	464.12	235.98	2.967			
11,600.00	6,610.87	11,922.48	6,844.45	130.35	130.87	109.49	-819.61	4,722.85	700.08	459.63	240.45	2.912			
11,700.00	6,611.27	12,022.48	6,844.80	132.86	133.37	109.49	-818.83	4,822.85	700.06	455.15	244.92	2.858			
11,800.00	6,611.67	12,122.48	6,845.14	135.37	135.88	109.48	-818.05	4,922.84	700.05	450.67	249.38	2.807			
11,900.00	6,612.07	12,222.48	6,845.49	137.88	138.38	109.48	-817.26	5,022.84	700.03	446.19	253.84	2.758			
12,000.00	6,612.47	12,322.48	6,845.84	140.39	140.89	109.47	-816.48	5,122.83	700.01	441.73	258.28	2.710			
12,100.00	6,612.87	12,422.48	6,846.19	142.91	143.40	109.47	-815.70	5,222.83	700.00	437.27	262.73	2.664			
12,200.00	6,613.27	12,522.48	6,846.53	145.42	145.91	109.47	-814.91	5,322.83	699.98	432.82	267.16	2.620			
12,300.00	6,613.67	12,622.48	6,846.88	147.94	148.42	109.46	-814.13	5,422.82	699.96	428.38	271.58	2.577			
12,400.00	6,614.07	12,722.48	6,847.23	150.46	150.94	109.46	-813.35	5,522.82	699.94	423.94	276.00	2.536			
12,500.00	6,614.47	12,822.48	6,847.58	152.98	153.45	109.45	-812.56	5,622.82	699.93	419.52	280.41	2.496			
12,600.00	6,614.87	12,922.48	6,847.92	155.50	155.97	109.45	-811.78	5,722.81	699.91	415.10	284.81	2.457			
12,700.00	6,615.27	13,022.48	6,848.27	158.02	158.48	109.45	-811.00	5,822.81	699.89	410.69	289.20	2.420			
12,800.00	6,615.67	13,122.48	6,848.62	160.54	161.00	109.44	-810.21	5,922.81	699.88	406.29	293.58	2.384			
12,900.00	6,616.06	13,222.48	6,848.97	163.06	163.52	109.44	-809.43	6,022.80	699.86	401.91	297.95	2.349			
13,000.00	6,616.46	13,322.48	6,849.31	165.59	166.04	109.43	-808.65	6,122.80	699.84	397.53	302.31	2.315			
13,100.00	6,616.86	13,422.48	6,849.66	168.11	168.56	109.43	-807.87	6,222.79	699.82	393.16	306.66	2.282			
13,200.00	6,617.26	13,522.48	6,850.01	170.64	171.09	109.43	-807.08	6,322.79	699.81	388.81	311.00	2.250			
13,300.00	6,617.66	13,622.48	6,850.36	173.16	173.61	109.42	-806.30	6,422.79	699.79	384.46	315.33	2.219			
13,400.00	6,618.06	13,722.48	6,850.70	175.69	176.13	109.42	-805.52	6,522.78	699.77	380.13	319.64	2.189			
13,500.00	6,618.46	13,822.48	6,851.05	178.22	178.66	109.41	-804.73	6,622.78	699.76	375.81	323.95	2.160			
13,600.00	6,618.86	13,922.48	6,851.40	180.75	181.18	109.41	-803.95	6,722.78	699.74	371.50	328.24	2.132			
13,700.00	6,619.26	14,022.48	6,851.75	183.28	183.71	109.41	-803.17	6,822.77	699.72	367.21	332.51	2.104			
13,800.00	6,619.66	14,122.48	6,852.09	185.81	186.24	109.40	-802.38	6,922.77	699.71	362.93	336.78	2.078			
13,900.00	6,620.06	14,222.48	6,852.44	188.34	188.76	109.40	-801.60	7,022.76	699.69	358.66	341.03	2.052			
14,000.00	6,620.46	14,322.48	6,852.79	190.87	191.29	109.39	-800.82	7,122.76	699.67	354.41	345.26	2.027			
14,100.00	6,620.86	14,422.48	6,853.14	193.40	193.82	109.39	-800.03	7,222.76	699.65	350.17	349.48	2.002			
14,200.00	6,621.26	14,522.48	6,853.49	195.93	196.35	109.39	-799.25	7,322.75	699.64	345.95	353.69	1.978 Level 3<2.00			
14,300.00	6,621.66	14,622.48	6,853.83	198.47	198.88	109.38	-798.47	7,422.75	699.62	341.74	357.88	1.955 Level 3<2.00			
14,400.00	6,622.06	14,722.48	6,854.18	201.00	201.41	109.38	-797.68	7,522.75	699.60	337.55	362.05	1.932 Level 3<2.00			
14,500.00	6,622.46	14,822.48	6,854.53	203.53	203.94	109.37	-796.90	7,622.74	699.59	333.38	366.21	1.910 Level 3<2.00			
14,600.00	6,622.86	14,922.48	6,854.88	206.07	206.47	109.37	-796.12	7,722.74	699.57	329.22	370.35	1.889 Level 3<2.00			
14,700.00	6,623.26	15,022.48	6,855.22	208.60	209.01	109.37	-795.33	7,822.74	699.55	325.08	374.48	1.868 Level 3<2.00			
14,800.00	6,623.66	15,122.48	6,855.57	211.14	211.54	109.36	-794.55	7,922.73	699.53	320.95	378.58	1.848 Level 3<2.00			
14,900.00	6,624.06	15,222.48	6,855.92	213.67	214.07	109.36	-793.77	8,022.73	699.52	316.85	382.67	1.828 Level 3<2.00			
15,000.00	6,624.46	15,322.48	6,856.27	216.21	216.61	109.35	-792.99	8,122.72	699.50	312.76	386.74	1.809 Level 3<2.00			
15,100.00	6,624.86	15,422.48	6,856.61	218.74	219.14	109.35	-792.20	8,222.72	699.48	308.69	390.79	1.790 Level 3<2.00			

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design:		Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 817H - Original Hole - rev1											Offset Site Error:		0.00 ft
Survey Program:		0-MWD								Rule Assigned:			Offset Well Error:		0.00 ft
Measured Depth (ft)	Vertical Reference Depth (ft)	Measured Depth (ft)	Vertical Offset Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning		
15,200.00	6,625.26	15,522.48	6,856.96	221.28	221.67	109.34	-791.42	8,322.72	699.47	304.64	394.83	1.772	Level 3<2.00		
15,300.00	6,625.66	15,622.48	6,857.31	223.82	224.21	109.34	-790.64	8,422.71	699.45	300.61	398.84	1.754	Level 3<2.00		
15,400.00	6,626.06	15,722.48	6,857.66	226.35	226.75	109.34	-789.85	8,522.71	699.43	296.60	402.83	1.736	Level 3<2.00		
15,500.00	6,626.46	15,822.48	6,858.00	228.89	229.28	109.33	-789.07	8,622.71	699.42	292.61	406.81	1.719	Level 3<2.00		
15,600.00	6,626.86	15,922.48	6,858.35	231.43	231.82	109.33	-788.29	8,722.70	699.40	288.64	410.76	1.703	Level 3<2.00		
15,700.00	6,627.26	16,022.48	6,858.70	233.97	234.35	109.32	-787.50	8,822.70	699.38	284.69	414.69	1.687	Level 3<2.00		
15,800.00	6,627.66	16,122.48	6,859.05	236.51	236.89	109.32	-786.72	8,922.69	699.36	280.77	418.60	1.671	Level 3<2.00		
15,900.00	6,628.06	16,222.48	6,859.39	239.05	239.43	109.32	-785.94	9,022.69	699.35	276.86	422.48	1.655	Level 3<2.00		
16,000.00	6,628.46	16,322.48	6,859.74	241.59	241.96	109.31	-785.15	9,122.69	699.33	272.98	426.35	1.640	Level 3<2.00		
16,100.00	6,628.86	16,422.48	6,860.09	244.12	244.50	109.31	-784.37	9,222.68	699.31	269.12	430.19	1.626	Level 3<2.00		
16,200.00	6,629.26	16,522.48	6,860.44	246.66	247.04	109.30	-783.59	9,322.68	699.30	265.29	434.01	1.611	Level 3<2.00		
16,300.00	6,629.66	16,622.48	6,860.78	249.20	249.58	109.30	-782.80	9,422.68	699.28	261.48	437.80	1.597	Level 3<2.00		
16,400.00	6,630.06	16,722.48	6,861.13	251.74	252.12	109.30	-782.02	9,522.67	699.26	257.69	441.57	1.584	Level 3<2.00		
16,500.00	6,630.46	16,822.48	6,861.48	254.28	254.66	109.29	-781.24	9,622.67	699.25	253.93	445.32	1.570	Level 3<2.00		
16,600.00	6,630.86	16,922.48	6,861.83	256.83	257.19	109.29	-780.45	9,722.67	699.23	250.19	449.04	1.557	Level 3<2.00		
16,700.00	6,631.26	17,022.48	6,862.17	259.37	259.73	109.28	-779.67	9,822.66	699.21	246.48	452.73	1.544	Level 3<2.00		
16,800.00	6,631.66	17,122.48	6,862.52	261.91	262.27	109.28	-778.89	9,922.66	699.19	242.79	456.40	1.532	Level 3<2.00		
16,900.00	6,632.06	17,222.48	6,862.87	264.45	264.81	109.28	-778.11	10,022.65	699.18	239.13	460.05	1.520	Level 3<2.00		
17,000.00	6,632.46	17,322.48	6,863.22	266.99	267.35	109.27	-777.32	10,122.65	699.16	235.49	463.67	1.508	Level 3<2.00		
17,100.00	6,632.86	17,422.48	6,863.56	269.53	269.89	109.27	-776.54	10,222.65	699.14	231.89	467.26	1.496	Level 2<1.50		
17,200.00	6,633.26	17,522.48	6,863.91	272.07	272.43	109.26	-775.76	10,322.64	699.13	228.30	470.82	1.485	Level 2<1.50		
17,300.00	6,633.66	17,622.48	6,864.26	274.62	274.98	109.26	-774.97	10,422.64	699.11	224.75	474.36	1.474	Level 2<1.50		
17,400.00	6,634.06	17,722.48	6,864.61	277.16	277.52	109.26	-774.19	10,522.64	699.09	221.22	477.88	1.463	Level 2<1.50		
17,500.00	6,634.46	17,822.48	6,864.95	279.70	280.06	109.25	-773.41	10,622.63	699.08	217.72	481.36	1.452	Level 2<1.50		
17,600.00	6,634.86	17,922.48	6,865.30	282.24	282.60	109.25	-772.62	10,722.63	699.06	214.24	484.82	1.442	Level 2<1.50		
17,700.00	6,635.26	18,022.48	6,865.65	284.79	285.14	109.24	-771.84	10,822.62	699.04	210.79	488.25	1.432	Level 2<1.50		
17,800.00	6,635.66	18,122.48	6,866.00	287.33	287.68	109.24	-771.06	10,922.62	699.03	207.37	491.65	1.422	Level 2<1.50		
17,900.00	6,636.06	18,222.48	6,866.34	289.87	290.22	109.24	-770.27	11,022.62	699.01	203.98	495.03	1.412	Level 2<1.50		
18,000.00	6,636.46	18,322.48	6,866.69	292.42	292.77	109.23	-769.49	11,122.61	698.99	200.61	498.38	1.403	Level 2<1.50		
18,100.00	6,636.86	18,422.48	6,867.04	294.96	295.31	109.23	-768.71	11,222.61	698.97	197.28	501.70	1.393	Level 2<1.50		
18,200.00	6,637.26	18,522.48	6,867.39	297.50	297.85	109.22	-767.92	11,322.61	698.96	193.96	504.99	1.384	Level 2<1.50		
18,300.00	6,637.66	18,622.48	6,867.74	300.05	300.39	109.22	-767.14	11,422.60	698.94	190.68	508.26	1.375	Level 2<1.50		
18,374.94	6,637.96	18,697.43	6,868.00	301.95	302.30	109.22	-766.55	11,497.54	698.93	188.24	510.69	1.369	Level 2<1.50		
18,386.05	6,638.00	18,698.72	6,868.00	302.24	302.33	109.22	-766.54	11,498.83	699.00	188.10	510.89	1.368	Level 2<1.50, SF		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 917H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-126.44	-23.79	-32.21	40.04					
100.00	100.00	100.00	100.00	0.13	0.13	-126.44	-23.79	-32.21	40.04	39.77	0.27	148.942		
200.00	200.00	200.00	200.00	0.49	0.49	-126.44	-23.79	-32.21	40.04	39.06	0.99	40.620		
300.00	300.00	300.00	300.00	0.85	0.85	-126.44	-23.79	-32.21	40.04	38.34	1.70	23.517		
400.00	400.00	400.00	400.00	1.21	1.21	-126.44	-23.79	-32.21	40.04	37.62	2.42	16.549		
500.00	500.00	500.00	500.00	1.57	1.57	-126.44	-23.79	-32.21	40.04	36.91	3.14	12.766		
600.00	600.00	600.00	600.00	1.93	1.93	-126.44	-23.79	-32.21	40.04	36.19	3.85	10.391		
700.00	700.00	700.00	700.00	2.29	2.29	-126.44	-23.79	-32.21	40.04	35.47	4.57	8.761		
800.00	800.00	800.00	800.00	2.64	2.64	-126.44	-23.79	-32.21	40.04	34.76	5.29	7.573		
900.00	900.00	900.00	900.00	3.00	3.00	-126.44	-23.79	-32.21	40.04	34.04	6.00	6.669		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-126.44	-23.79	-32.21	40.04	33.32	6.72	5.958 CC, ES		
1,100.00	1,100.00	1,098.22	1,098.17	3.72	3.70	-128.39	-26.17	-33.03	42.18	34.77	7.41	5.693		
1,200.00	1,200.00	1,195.92	1,195.58	4.08	4.02	-133.18	-33.28	-35.47	48.84	40.77	8.07	6.052		
1,300.00	1,299.95	1,292.81	1,291.66	4.42	4.35	-28.73	-44.98	-39.47	58.13	49.44	8.70	6.685		
1,400.00	1,399.63	1,388.76	1,386.08	4.77	4.70	-36.82	-61.09	-44.99	68.64	59.36	9.28	7.393		
1,500.00	1,498.88	1,483.53	1,478.38	5.12	5.07	-45.07	-81.38	-51.94	82.04	72.18	9.86	8.323		
1,600.00	1,598.07	1,576.70	1,567.98	5.48	5.47	-51.11	-105.54	-60.21	101.28	90.85	10.43	9.714		
1,700.00	1,697.25	1,667.89	1,654.36	5.85	5.90	-54.96	-133.15	-69.66	125.99	115.01	10.99	11.466		
1,800.00	1,796.44	1,762.18	1,742.62	6.22	6.39	-57.48	-164.54	-80.41	154.31	142.63	11.67	13.220		
1,900.00	1,895.63	1,857.87	1,832.15	6.60	6.91	-59.24	-196.50	-91.35	182.94	170.53	12.41	14.742		
2,000.00	1,994.81	1,953.55	1,921.67	6.98	7.45	-60.53	-228.46	-102.29	211.68	198.53	13.16	16.089		
2,100.00	2,094.00	2,049.24	2,011.20	7.37	8.01	-61.51	-260.42	-113.24	240.51	226.59	13.92	17.283		
2,200.00	2,193.19	2,144.92	2,100.72	7.76	8.59	-62.28	-292.37	-124.18	269.38	254.70	14.68	18.346		
2,300.00	2,292.37	2,240.61	2,190.24	8.15	9.17	-62.90	-324.33	-135.12	298.29	282.83	15.46	19.296		
2,400.00	2,391.56	2,336.29	2,279.77	8.55	9.77	-63.41	-356.29	-146.07	327.22	310.98	16.24	20.148		
2,500.00	2,490.75	2,431.98	2,369.29	8.95	10.37	-63.84	-388.25	-157.01	356.18	339.15	17.03	20.917		
2,600.00	2,589.93	2,527.67	2,458.82	9.34	10.98	-64.20	-420.21	-167.95	385.15	367.33	17.82	21.612		
2,700.00	2,689.12	2,623.35	2,548.34	9.75	11.59	-64.51	-452.17	-178.89	414.13	395.51	18.62	22.242		
2,800.00	2,788.31	2,719.04	2,637.86	10.15	12.21	-64.78	-484.13	-189.84	443.12	423.70	19.42	22.817		
2,900.00	2,887.49	2,814.72	2,727.39	10.55	12.84	-65.02	-516.09	-200.78	472.12	451.90	20.23	23.343		
3,000.00	2,986.68	2,910.41	2,816.91	10.95	13.46	-65.23	-548.04	-211.72	501.13	480.10	21.03	23.825		
3,100.00	3,085.87	3,006.09	2,906.43	11.36	14.09	-65.42	-580.00	-222.66	530.14	508.30	21.84	24.269		
3,200.00	3,185.05	3,101.78	2,995.96	11.76	14.72	-65.59	-611.96	-233.61	559.16	536.50	22.66	24.679		
3,300.00	3,284.24	3,197.46	3,085.48	12.17	15.36	-65.74	-643.92	-244.55	588.18	564.71	23.47	25.058		
3,400.00	3,383.43	3,293.15	3,175.01	12.58	15.99	-65.88	-675.88	-255.49	617.21	592.92	24.29	25.409		
3,500.00	3,482.61	3,388.83	3,264.53	12.99	16.63	-66.00	-707.84	-266.44	646.24	621.13	25.11	25.736		
3,600.00	3,581.80	3,484.52	3,354.05	13.39	17.27	-66.12	-739.80	-277.38	675.27	649.34	25.93	26.041		
3,700.00	3,680.99	3,580.20	3,443.58	13.80	17.91	-66.22	-771.75	-288.32	704.30	677.55	26.75	26.326		
3,800.00	3,780.17	3,675.89	3,533.10	14.21	18.55	-66.32	-803.71	-299.26	733.33	705.76	27.58	26.592		
3,900.00	3,879.36	3,771.57	3,622.63	14.62	19.19	-66.41	-835.67	-310.21	762.37	733.97	28.40	26.842		
4,000.00	3,978.55	3,867.26	3,712.15	15.03	19.83	-66.49	-867.63	-321.15	791.41	762.18	29.23	27.077		
4,100.00	4,077.73	3,962.94	3,801.67	15.44	20.48	-66.57	-899.59	-332.09	820.45	790.39	30.06	27.297		
4,200.00	4,176.92	4,058.63	3,891.20	15.85	21.12	-66.64	-931.55	-343.04	849.49	818.60	30.88	27.505		
4,300.00	4,276.11	4,154.31	3,980.72	16.26	21.77	-66.71	-963.51	-353.98	878.53	846.82	31.71	27.702		
4,400.00	4,375.29	4,250.00	4,070.25	16.68	22.42	-66.77	-995.47	-364.92	907.57	875.03	32.54	27.888		
4,500.00	4,474.48	4,345.68	4,159.77	17.09	23.06	-66.83	-1,027.42	-375.86	936.62	903.24	33.38	28.063		
4,600.00	4,573.67	4,441.37	4,249.29	17.50	23.71	-66.88	-1,059.38	-386.81	965.66	931.45	34.21	28.230		
4,700.00	4,672.85	4,537.05	4,338.82	17.91	24.36	-66.94	-1,091.34	-397.75	994.71	959.67	35.04	28.388		
4,800.00	4,772.04	4,632.74	4,428.34	18.32	25.01	-66.98	-1,123.30	-408.69	1,023.75	987.88	35.87	28.539		
4,900.00	4,871.23	4,728.42	4,517.87	18.74	25.66	-67.03	-1,155.26	-419.64	1,052.80	1,016.09	36.71	28.682		
5,000.00	4,970.41	4,824.11	4,607.39	19.15	26.31	-67.07	-1,187.22	-430.58	1,081.85	1,044.31	37.54	28.818		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 917H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Reference Measured Depth (ft)	Vertical Depth (ft)	Offset Measured Depth (ft)	Vertical Depth (ft)	Semi Major Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,100.00	5,069.60	4,919.79	4,696.91	19.56	26.96	-67.12	-1,219.18	-441.52	1,110.89	1,072.52	38.38	28.948		
5,200.00	5,168.79	5,015.48	4,786.44	19.97	27.61	-67.16	-1,251.14	-452.46	1,139.94	1,100.73	39.21	29.072		
5,300.00	5,267.97	5,111.16	4,875.96	20.39	28.26	-67.19	-1,283.09	-463.41	1,168.99	1,128.94	40.05	29.190		
5,400.00	5,367.16	5,206.85	4,965.49	20.80	28.91	-67.23	-1,315.05	-474.35	1,198.04	1,157.16	40.88	29.303		
5,500.00	5,466.34	5,302.53	5,055.01	21.22	29.56	-67.26	-1,347.01	-485.29	1,227.09	1,185.37	41.72	29.412		
5,600.00	5,565.53	5,398.22	5,144.53	21.63	30.21	-67.37	-1,378.97	-496.23	1,256.15	1,213.59	42.56	29.516		
5,700.00	5,665.05	5,527.00	5,265.27	22.02	31.07	-68.08	-1,421.35	-510.75	1,286.07	1,242.40	43.67	29.447		
5,800.00	5,764.94	5,601.66	5,330.36	22.38	32.61	-68.23	-1,488.47	-533.73	1,309.11	1,263.50	45.61	28.702		
5,900.00	5,864.94	5,698.68	5,416.24	22.69	33.68	-179.02	-1,519.49	-544.35	1,319.86	1,273.22	46.64	28.298		
6,000.00	5,964.94	5,798.40	5,516.24	23.01	34.00	-179.00	-1,520.85	-544.81	1,320.33	1,273.14	47.18	27.983		
6,100.00	6,064.72	5,898.02	5,616.31	23.29	34.20	91.44	-1,520.80	-539.34	1,320.32	1,272.61	47.72	27.671		
6,200.00	6,162.21	5,997.07	5,712.40	23.50	34.34	91.39	-1,520.61	-515.11	1,320.29	1,272.18	48.11	27.444		
6,300.00	6,254.45	6,089.77	5,804.96	23.66	34.42	91.29	-1,520.28	-472.49	1,320.24	1,271.85	48.39	27.281		
6,400.00	6,338.63	6,174.92	5,890.64	23.79	34.43	91.16	-1,519.81	-413.23	1,320.17	1,271.53	48.64	27.142		
6,500.00	6,412.21	6,258.35	5,976.59	23.92	34.40	90.98	-1,519.24	-339.70	1,320.10	1,271.15	48.95	26.970		
6,600.00	6,472.94	6,339.79	6,058.51	24.13	34.33	90.78	-1,518.57	-254.85	1,320.03	1,270.59	49.44	26.701		
6,700.00	6,523.21	6,419.09	6,137.58	24.47	34.24	90.69	-1,517.88	-166.28	1,320.00	1,269.79	50.21	26.289		
6,800.00	6,562.96	6,457.30	6,175.09	25.00	34.15	90.46	-1,517.13	-70.58	1,319.95	1,268.58	51.37	25.695		
6,900.00	6,586.19	6,480.97	6,199.07	25.73	34.05	90.21	-1,516.35	28.89	1,319.91	1,267.01	52.91	24.947		
6,972.92	6,593.11	6,487.55	6,206.32	26.40	33.99	90.01	-1,515.78	101.87	1,319.91	1,265.64	54.26	24.324		
7,000.00	6,592.47	6,486.68	6,205.39	26.64	33.98	90.04	-1,515.57	129.00	1,319.91	1,265.13	54.78	24.096		
7,100.00	6,592.87	6,487.68	6,206.65	27.75	33.96	90.03	-1,514.78	229.00	1,319.91	1,262.91	57.00	23.157		
7,200.00	6,593.27	6,488.68	6,207.91	29.05	34.03	90.03	-1,514.00	328.99	1,319.91	1,260.34	59.57	22.159		
7,300.00	6,593.67	6,489.68	6,209.17	30.51	34.32	90.02	-1,513.22	428.99	1,319.91	1,257.46	62.45	21.136		
7,400.00	6,594.07	6,490.68	6,210.43	32.10	35.08	90.02	-1,512.44	528.99	1,319.91	1,254.31	65.60	20.121		
7,500.00	6,594.47	6,491.68	6,211.69	33.81	36.38	90.01	-1,511.65	628.98	1,319.91	1,250.92	68.98	19.134		
7,600.00	6,594.87	6,492.68	6,212.95	35.63	37.99	90.00	-1,510.87	728.98	1,319.91	1,247.34	72.57	18.188		
7,700.00	6,595.27	6,493.68	6,214.21	37.53	39.77	90.00	-1,510.09	828.98	1,319.91	1,243.58	76.33	17.292		
7,800.00	6,595.67	6,494.68	6,215.47	39.50	41.66	89.99	-1,509.30	928.97	1,319.91	1,239.67	80.24	16.450		
7,900.00	6,596.07	6,495.68	6,216.73	41.54	43.63	89.99	-1,508.52	1,028.97	1,319.91	1,235.64	84.27	15.662		
8,000.00	6,596.47	6,496.68	6,217.99	43.63	45.66	89.98	-1,507.74	1,128.97	1,319.91	1,231.49	88.42	14.927		
8,100.00	6,596.87	6,497.68	6,219.25	45.77	47.74	89.97	-1,506.96	1,228.96	1,319.91	1,227.25	92.66	14.244		
8,200.00	6,597.27	6,498.68	6,220.51	47.95	49.87	89.97	-1,506.17	1,328.96	1,319.91	1,222.92	96.99	13.609		
8,300.00	6,597.67	6,499.68	6,221.77	50.16	52.04	89.96	-1,505.39	1,428.96	1,319.91	1,218.53	101.39	13.019		
8,400.00	6,598.07	6,500.68	6,223.03	52.40	54.24	89.95	-1,504.61	1,528.95	1,319.91	1,214.07	105.85	12.470		
8,500.00	6,598.47	6,501.68	6,224.29	54.68	56.47	89.95	-1,503.82	1,628.95	1,319.91	1,209.55	110.36	11.960		
8,600.00	6,598.87	6,502.68	6,225.55	56.97	58.72	89.94	-1,503.04	1,728.95	1,319.92	1,204.98	114.93	11.484		
8,700.00	6,599.27	6,503.68	6,226.81	59.29	61.00	89.94	-1,502.26	1,828.94	1,319.92	1,200.38	119.54	11.042		
8,800.00	6,599.67	6,504.68	6,228.07	61.62	63.30	89.93	-1,501.47	1,928.94	1,319.92	1,195.73	124.19	10.628		
8,900.00	6,600.07	6,505.68	6,229.33	63.97	65.62	89.92	-1,500.69	2,028.93	1,319.92	1,191.05	128.87	10.242		
9,000.00	6,600.47	6,506.68	6,230.59	66.34	67.95	89.92	-1,499.91	2,128.93	1,319.92	1,186.33	133.59	9.881		
9,100.00	6,600.87	6,507.68	6,231.85	68.72	70.30	89.91	-1,499.13	2,228.93	1,319.92	1,181.59	138.33	9.542		
9,200.00	6,601.27	6,508.68	6,233.11	71.11	72.66	89.91	-1,498.34	2,328.92	1,319.92	1,176.83	143.09	9.224		
9,300.00	6,601.67	6,509.68	6,234.37	73.51	75.03	89.90	-1,497.56	2,428.92	1,319.92	1,172.04	147.88	8.925		
9,400.00	6,602.07	6,510.68	6,235.63	75.93	77.42	89.89	-1,496.78	2,528.92	1,319.92	1,167.23	152.69	8.644		
9,500.00	6,602.47	6,511.68	6,236.89	78.35	79.81	89.89	-1,495.99	2,628.91	1,319.92	1,162.40	157.52	8.379		
9,600.00	6,602.87	6,512.68	6,238.15	80.78	82.22	89.88	-1,495.21	2,728.91	1,319.92	1,157.56	162.37	8.129		
9,700.00	6,603.27	6,513.68	6,239.41	83.21	84.63	89.88	-1,494.43	2,828.91	1,319.92	1,152.70	167.23	7.893		
9,800.00	6,603.67	6,514.68	6,240.67	85.66	87.05	89.87	-1,493.65	2,928.90	1,319.93	1,147.82	172.10	7.669		
9,900.00	6,604.07	6,515.68	6,241.93	88.10	89.48	89.86	-1,492.86	3,028.90	1,319.93	1,142.94	176.99	7.458		
10,000.00	6,604.47	6,516.68	6,243.19	90.56	91.91	89.86	-1,492.08	3,128.90	1,319.93	1,138.04	181.89	7.257		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 917H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100.00	6,604.87	10,372.68	6,601.46	93.02	94.35	89.85	-1,491.30	3,228.89	1,319.93	1,133.13	186.80	7.066		
10,200.00	6,605.27	10,472.68	6,601.73	95.49	96.80	89.85	-1,490.51	3,328.89	1,319.93	1,128.21	191.72	6.885		
10,300.00	6,605.67	10,572.68	6,601.99	97.95	99.25	89.84	-1,489.73	3,428.89	1,319.93	1,123.28	196.65	6.712		
10,400.00	6,606.07	10,672.68	6,602.25	100.43	101.71	89.83	-1,488.95	3,528.88	1,319.93	1,118.34	201.59	6.548		
10,500.00	6,606.47	10,772.68	6,602.51	102.91	104.17	89.83	-1,488.17	3,628.88	1,319.93	1,113.40	206.54	6.391		
10,600.00	6,606.87	10,872.68	6,602.77	105.39	106.63	89.82	-1,487.38	3,728.88	1,319.93	1,108.44	211.49	6.241		
10,700.00	6,607.27	10,972.67	6,603.03	107.87	109.10	89.82	-1,486.60	3,828.87	1,319.93	1,103.48	216.45	6.098		
10,800.00	6,607.67	11,072.67	6,603.29	110.36	111.57	89.81	-1,485.82	3,928.87	1,319.94	1,098.52	221.42	5.961		
10,900.00	6,608.07	11,172.67	6,603.55	112.85	114.05	89.80	-1,485.03	4,028.86	1,319.94	1,093.54	226.39	5.830		
11,000.00	6,608.47	11,272.67	6,603.81	115.34	116.53	89.80	-1,484.25	4,128.86	1,319.94	1,088.56	231.37	5.705		
11,100.00	6,608.87	11,372.67	6,604.07	117.84	119.01	89.79	-1,483.47	4,228.86	1,319.94	1,083.58	236.36	5.584		
11,200.00	6,609.27	11,472.67	6,604.33	120.34	121.49	89.79	-1,482.69	4,328.85	1,319.94	1,078.59	241.35	5.469		
11,300.00	6,609.67	11,572.67	6,604.59	122.84	123.98	89.78	-1,481.90	4,428.85	1,319.94	1,073.60	246.34	5.358		
11,400.00	6,610.07	11,672.67	6,604.85	125.34	126.47	89.77	-1,481.12	4,528.85	1,319.94	1,068.60	251.34	5.252		
11,500.00	6,610.47	11,772.67	6,605.11	127.84	128.96	89.77	-1,480.34	4,628.84	1,319.94	1,063.60	256.34	5.149		
11,600.00	6,610.87	11,872.67	6,605.37	130.35	131.46	89.76	-1,479.55	4,728.84	1,319.94	1,058.59	261.35	5.050		
11,700.00	6,611.27	11,972.67	6,605.63	132.86	133.95	89.76	-1,478.77	4,828.84	1,319.95	1,053.58	266.36	4.955		
11,800.00	6,611.67	12,072.67	6,605.89	135.37	136.45	89.75	-1,477.99	4,928.83	1,319.95	1,048.57	271.38	4.864		
11,900.00	6,612.07	12,172.67	6,606.15	137.88	138.95	89.74	-1,477.21	5,028.83	1,319.95	1,043.55	276.39	4.776		
12,000.00	6,612.47	12,272.67	6,606.41	140.39	141.46	89.74	-1,476.42	5,128.83	1,319.95	1,038.54	281.41	4.690		
12,100.00	6,612.87	12,372.67	6,606.68	142.91	143.96	89.73	-1,475.64	5,228.82	1,319.95	1,033.51	286.44	4.608		
12,200.00	6,613.27	12,472.67	6,606.94	145.42	146.47	89.73	-1,474.86	5,328.82	1,319.95	1,028.49	291.46	4.529		
12,300.00	6,613.67	12,572.67	6,607.20	147.94	148.97	89.72	-1,474.07	5,428.82	1,319.95	1,023.46	296.49	4.452		
12,400.00	6,614.07	12,672.67	6,607.46	150.46	151.48	89.71	-1,473.29	5,528.81	1,319.95	1,018.43	301.52	4.378		
12,500.00	6,614.47	12,772.67	6,607.72	152.98	153.99	89.71	-1,472.51	5,628.81	1,319.96	1,013.40	306.56	4.306		
12,600.00	6,614.87	12,872.67	6,607.98	155.50	156.50	89.70	-1,471.73	5,728.81	1,319.96	1,008.36	311.59	4.236		
12,700.00	6,615.27	12,972.67	6,608.24	158.02	159.02	89.70	-1,470.94	5,828.80	1,319.96	1,003.33	316.63	4.169		
12,800.00	6,615.67	13,072.67	6,608.50	160.54	161.53	89.69	-1,470.16	5,928.80	1,319.96	998.29	321.67	4.103		
12,900.00	6,616.06	13,172.67	6,608.76	163.06	164.05	89.68	-1,469.38	6,028.79	1,319.96	993.25	326.72	4.040		
13,000.00	6,616.46	13,272.67	6,609.02	165.59	166.56	89.68	-1,468.59	6,128.79	1,319.96	988.20	331.76	3.979		
13,100.00	6,616.86	13,372.67	6,609.28	168.11	169.08	89.67	-1,467.81	6,228.79	1,319.96	983.16	336.81	3.919		
13,200.00	6,617.26	13,472.67	6,609.54	170.64	171.60	89.66	-1,467.03	6,328.78	1,319.97	978.11	341.85	3.861		
13,300.00	6,617.66	13,572.67	6,609.80	173.16	174.12	89.66	-1,466.25	6,428.78	1,319.97	973.06	346.90	3.805		
13,400.00	6,618.06	13,672.67	6,610.06	175.69	176.64	89.65	-1,465.46	6,528.78	1,319.97	968.01	351.96	3.750		
13,500.00	6,618.46	13,772.67	6,610.32	178.22	179.16	89.65	-1,464.68	6,628.77	1,319.97	962.96	357.01	3.697		
13,600.00	6,618.86	13,872.67	6,610.58	180.75	181.68	89.64	-1,463.90	6,728.77	1,319.97	957.91	362.06	3.646		
13,700.00	6,619.26	13,972.67	6,610.84	183.28	184.20	89.63	-1,463.11	6,828.77	1,319.97	952.85	367.12	3.596		
13,800.00	6,619.66	14,072.67	6,611.10	185.81	186.73	89.63	-1,462.33	6,928.76	1,319.97	947.80	372.17	3.547		
13,900.00	6,620.06	14,172.67	6,611.37	188.34	189.25	89.62	-1,461.55	7,028.76	1,319.98	942.74	377.23	3.499		
14,000.00	6,620.46	14,272.67	6,611.63	190.87	191.78	89.62	-1,460.77	7,128.76	1,319.98	937.69	382.29	3.453		
14,100.00	6,620.86	14,372.67	6,611.89	193.40	194.30	89.61	-1,459.98	7,228.75	1,319.98	932.63	387.35	3.408		
14,200.00	6,621.26	14,472.67	6,612.15	195.93	196.83	89.60	-1,459.20	7,328.75	1,319.98	927.57	392.41	3.364		
14,300.00	6,621.66	14,572.67	6,612.41	198.47	199.36	89.60	-1,458.42	7,428.75	1,319.98	922.51	397.48	3.321		
14,400.00	6,622.06	14,672.67	6,612.67	201.00	201.88	89.59	-1,457.63	7,528.74	1,319.98	917.44	402.54	3.279		
14,500.00	6,622.46	14,772.67	6,612.93	203.53	204.41	89.59	-1,456.85	7,628.74	1,319.98	912.38	407.61	3.238		
14,600.00	6,622.86	14,872.67	6,613.19	206.07	206.94	89.58	-1,456.07	7,728.74	1,319.99	907.32	412.67	3.199		
14,700.00	6,623.26	14,972.67	6,613.45	208.60	209.47	89.57	-1,455.29	7,828.73	1,319.99	902.25	417.74	3.160		
14,800.00	6,623.66	15,072.67	6,613.71	211.14	212.00	89.57	-1,454.50	7,928.73	1,319.99	897.19	422.80	3.122		
14,900.00	6,624.06	15,172.67	6,613.97	213.67	214.53	89.56	-1,453.72	8,028.72	1,319.99	892.12	427.87	3.085		
15,000.00	6,624.46	15,272.67	6,614.23	216.21	217.06	89.56	-1,452.94	8,128.72	1,319.99	887.05	432.94	3.049		
15,100.00	6,624.86	15,372.67	6,614.49	218.74	219.59	89.55	-1,452.15	8,228.72	1,319.99	881.98	438.01	3.014		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 917H - Original Hole - rev1													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
15,200.00	6,625.26	15,472.67	6,614.75	221.28	222.13	89.54	-1,451.37	8,328.71	1,320.00	876.91	443.08	2.979		
15,300.00	6,625.66	15,572.67	6,615.01	223.82	224.66	89.54	-1,450.59	8,428.71	1,320.00	871.85	448.15	2.945		
15,400.00	6,626.06	15,672.67	6,615.27	226.35	227.19	89.53	-1,449.81	8,528.71	1,320.00	866.78	453.22	2.912		
15,500.00	6,626.46	15,772.67	6,615.53	228.89	229.73	89.53	-1,449.02	8,628.70	1,320.00	861.70	458.30	2.880		
15,600.00	6,626.86	15,872.67	6,615.79	231.43	232.26	89.52	-1,448.24	8,728.70	1,320.00	856.63	463.37	2.849		
15,700.00	6,627.26	15,972.67	6,616.06	233.97	234.79	89.51	-1,447.46	8,828.70	1,320.01	851.56	468.44	2.818		
15,800.00	6,627.66	16,072.67	6,616.32	236.51	237.33	89.51	-1,446.67	8,928.69	1,320.01	846.49	473.52	2.788		
15,900.00	6,628.06	16,172.67	6,616.58	239.05	239.86	89.50	-1,445.89	9,028.69	1,320.01	841.41	478.59	2.758		
16,000.00	6,628.46	16,272.67	6,616.84	241.59	242.40	89.50	-1,445.11	9,128.69	1,320.01	836.34	483.67	2.729		
16,100.00	6,628.86	16,372.67	6,617.10	244.12	244.93	89.49	-1,444.33	9,228.68	1,320.01	831.27	488.75	2.701		
16,200.00	6,629.26	16,472.67	6,617.36	246.66	247.47	89.48	-1,443.54	9,328.68	1,320.01	826.19	493.82	2.673		
16,300.00	6,629.66	16,572.67	6,617.62	249.20	250.01	89.48	-1,442.76	9,428.68	1,320.02	821.12	498.90	2.646		
16,400.00	6,630.06	16,672.67	6,617.88	251.74	252.54	89.47	-1,441.98	9,528.67	1,320.02	816.04	503.98	2.619		
16,500.00	6,630.46	16,772.67	6,618.14	254.28	255.08	89.47	-1,441.19	9,628.67	1,320.02	810.96	509.06	2.593		
16,600.00	6,630.86	16,872.67	6,618.40	256.83	257.62	89.46	-1,440.41	9,728.67	1,320.02	805.89	514.13	2.567		
16,700.00	6,631.26	16,972.67	6,618.66	259.37	260.15	89.45	-1,439.63	9,828.66	1,320.02	800.81	519.21	2.542		
16,800.00	6,631.66	17,072.67	6,618.92	261.91	262.69	89.45	-1,438.85	9,928.66	1,320.03	795.73	524.29	2.518		
16,900.00	6,632.06	17,172.67	6,619.18	264.45	265.23	89.44	-1,438.06	10,028.65	1,320.03	790.65	529.37	2.494		
17,000.00	6,632.46	17,272.67	6,619.44	266.99	267.77	89.44	-1,437.28	10,128.65	1,320.03	785.57	534.45	2.470		
17,100.00	6,632.86	17,372.67	6,619.70	269.53	270.31	89.43	-1,436.50	10,228.65	1,320.03	780.50	539.54	2.447		
17,200.00	6,633.26	17,472.67	6,619.96	272.07	272.85	89.42	-1,435.71	10,328.64	1,320.03	775.42	544.62	2.424		
17,300.00	6,633.66	17,572.67	6,620.22	274.62	275.38	89.42	-1,434.93	10,428.64	1,320.04	770.34	549.70	2.401		
17,400.00	6,634.06	17,672.67	6,620.48	277.16	277.92	89.41	-1,434.15	10,528.64	1,320.04	765.26	554.78	2.379		
17,500.00	6,634.46	17,772.67	6,620.75	279.70	280.46	89.40	-1,433.36	10,628.63	1,320.04	760.18	559.86	2.358		
17,600.00	6,634.86	17,872.67	6,621.01	282.24	283.00	89.40	-1,432.58	10,728.63	1,320.04	755.10	564.95	2.337		
17,700.00	6,635.26	17,972.67	6,621.27	284.79	285.54	89.39	-1,431.80	10,828.63	1,320.04	750.02	570.03	2.316		
17,800.00	6,635.66	18,072.67	6,621.53	287.33	288.08	89.39	-1,431.02	10,928.62	1,320.05	744.94	575.11	2.295		
17,900.00	6,636.06	18,172.67	6,621.79	289.87	290.62	89.38	-1,430.23	11,028.62	1,320.05	739.85	580.19	2.275		
18,000.00	6,636.46	18,272.67	6,622.05	292.42	293.16	89.37	-1,429.45	11,128.62	1,320.05	734.77	585.28	2.255		
18,100.00	6,636.86	18,372.67	6,622.31	294.96	295.71	89.37	-1,428.67	11,228.61	1,320.05	729.69	590.36	2.236		
18,200.00	6,637.26	18,472.67	6,622.57	297.50	298.25	89.36	-1,427.88	11,328.61	1,320.05	724.61	595.45	2.217		
18,300.00	6,637.66	18,572.67	6,622.83	300.05	300.79	89.36	-1,427.10	11,428.61	1,320.06	719.53	600.53	2.198		
18,300.44	6,637.66	18,573.11	6,622.83	300.06	300.80	89.36	-1,427.10	11,429.05	1,320.06	719.50	600.55	2.198		
18,386.05	6,638.00	18,638.04	6,623.00	302.24	302.45	89.35	-1,426.59	11,493.97	1,320.22	715.63	604.59	2.184 SF		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Section 21-T27N-R06W - Rincon Unit 180 - Original Hole - Inc only surveys												Offset Site Error:	0.00 ft
Survey Program: 335-INC-ONLY												Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-137.26	-382.03	-353.02	520.18				
100.00	100.00	96.00	96.00	0.13	1.25	-137.26	-382.03	-353.02	520.17	518.78	1.39	375.037	
200.00	200.00	196.00	196.00	0.49	2.56	-137.26	-382.03	-353.02	520.17	517.12	3.05	170.536	
300.00	300.00	296.00	296.00	0.85	3.86	-137.26	-382.03	-353.02	520.17	515.45	4.71	110.359	
400.00	400.00	396.00	396.00	1.21	9.42	-137.26	-382.03	-353.02	520.17	509.53	10.63	48.916	
500.00	500.00	496.00	496.00	1.57	17.71	-137.26	-382.03	-353.02	520.17	500.89	19.28	26.986	
600.00	600.00	596.00	596.00	1.93	25.99	-137.26	-382.03	-353.02	520.17	492.25	27.92	18.632	
700.00	700.00	696.00	696.00	2.29	34.27	-137.26	-382.03	-353.02	520.17	483.61	36.56	14.228	
800.00	800.00	796.00	796.00	2.64	42.56	-137.26	-382.03	-353.02	520.17	474.97	45.20	11.508	
900.00	900.00	896.00	896.00	3.00	50.84	-137.26	-382.03	-353.02	520.17	466.32	53.84	9.661	
1,000.00	1,000.00	996.00	996.00	3.36	59.12	-137.26	-382.03	-353.02	520.17	457.68	62.48	8.325	
1,100.00	1,100.00	1,096.00	1,096.00	3.72	67.41	-137.26	-382.03	-353.02	520.17	449.04	71.13	7.313	
1,200.00	1,200.00	1,196.00	1,196.00	4.08	75.69	-137.26	-382.03	-353.02	520.17	440.40	79.77	6.521	
1,300.00	1,299.95	1,295.96	1,295.95	4.42	83.97	-26.38	-382.03	-353.02	517.82	429.43	88.39	5.858	
1,400.00	1,399.63	1,395.64	1,395.63	4.77	92.23	-26.86	-382.03	-353.02	510.80	413.81	96.99	5.266	
1,500.00	1,498.88	1,494.89	1,494.88	5.12	100.45	-27.56	-382.03	-353.02	499.91	394.35	105.56	4.736	
1,600.00	1,598.07	1,593.99	1,593.98	5.48	108.66	-28.04	-379.42	-353.02	486.67	372.56	114.11	4.265	
1,700.00	1,697.25	1,693.05	1,693.04	5.85	116.86	-28.77	-379.46	-353.02	475.48	352.82	122.67	3.876	
1,800.00	1,796.44	1,792.12	1,792.10	6.22	125.07	-29.53	-379.54	-353.02	464.40	333.18	131.23	3.539	
1,900.00	1,895.63	1,891.19	1,891.17	6.60	133.27	-30.32	-379.65	-353.02	453.44	313.65	139.79	3.244	
2,000.00	1,994.81	1,990.26	1,990.24	6.98	141.48	-31.17	-379.80	-353.02	442.59	294.23	148.36	2.983	
2,100.00	2,094.00	2,089.33	2,089.31	7.37	149.69	-32.05	-379.98	-353.02	431.87	274.94	156.93	2.752	
2,200.00	2,193.19	2,188.41	2,188.39	7.76	157.89	-32.98	-380.20	-353.02	421.29	255.79	165.50	2.546	
2,300.00	2,292.37	2,287.49	2,287.47	8.15	166.10	-33.97	-380.45	-353.02	410.85	236.77	174.08	2.360	
2,400.00	2,391.56	2,386.58	2,386.55	8.55	174.31	-35.01	-380.74	-353.02	400.57	217.91	182.66	2.193	
2,500.00	2,490.75	2,485.67	2,485.64	8.95	182.52	-36.10	-381.07	-353.02	390.46	199.22	191.24	2.042	
2,600.00	2,589.93	2,584.76	2,584.73	9.34	190.72	-37.25	-381.43	-353.02	380.53	180.70	199.83	1.904 Level 3<2.00	
2,700.00	2,689.12	2,683.86	2,683.83	9.75	198.93	-38.47	-381.83	-353.02	370.79	162.37	208.42	1.779 Level 3<2.00	
2,800.00	2,788.31	2,784.61	2,784.31	10.15	203.58	-39.76	-382.03	-353.02	361.06	147.61	213.44	1.692 Level 3<2.00	
2,900.00	2,887.49	2,883.79	2,883.49	10.55	204.81	-41.08	-382.03	-353.02	351.33	136.27	215.06	1.634 Level 3<2.00	
3,000.00	2,986.68	2,981.81	2,981.49	10.95	206.03	-42.39	-381.16	-353.02	341.02	124.35	216.68	1.574 Level 3<2.00	
3,100.00	3,085.87	3,079.32	3,078.99	11.36	207.24	-43.89	-381.82	-353.02	332.31	114.04	218.27	1.522 Level 3<2.00	
3,200.00	3,185.05	3,181.44	3,181.05	11.76	209.19	-45.51	-382.03	-353.02	323.41	102.78	220.63	1.466 Level 2<1.50	
3,300.00	3,284.24	3,280.63	3,280.24	12.17	211.25	-47.16	-382.03	-353.02	314.58	91.49	223.09	1.410 Level 2<1.50	
3,400.00	3,383.43	3,379.81	3,379.43	12.58	213.31	-48.90	-382.03	-353.02	306.03	80.47	225.56	1.357 Level 2<1.50	
3,500.00	3,482.61	3,479.00	3,478.61	12.99	215.37	-50.74	-382.03	-353.02	297.78	69.75	228.03	1.306 Level 2<1.50	
3,600.00	3,581.80	3,578.19	3,577.80	13.39	217.43	-52.67	-382.03	-353.02	289.85	59.35	230.50	1.257 Level 2<1.50	
3,700.00	3,680.99	3,677.37	3,676.99	13.80	219.49	-54.72	-382.03	-353.02	282.27	49.29	232.98	1.212 Level 2<1.50	
3,800.00	3,780.17	3,776.56	3,776.17	14.21	221.55	-56.87	-382.03	-353.02	275.08	39.61	235.47	1.168 Level 2<1.50	
3,900.00	3,879.36	3,875.75	3,875.36	14.62	223.61	-59.13	-382.03	-353.02	268.29	30.34	237.95	1.127 Level 2<1.50	
4,000.00	3,978.55	3,974.79	3,974.35	15.03	225.66	-61.37	-377.52	-353.02	257.48	17.03	240.45	1.071 Level 2<1.50	
4,100.00	4,077.73	4,073.68	4,073.23	15.44	227.72	-63.89	-377.64	-353.02	251.71	8.77	242.94	1.036 Level 2<1.50	
4,200.00	4,176.92	4,172.58	4,172.13	15.85	229.77	-66.53	-377.89	-353.02	246.59	1.17	245.42	1.005 Level 2<1.50	
4,300.00	4,276.11	4,271.50	4,271.04	16.26	231.82	-69.27	-378.27	-353.02	242.15	-5.65	247.80	0.977 Level 1<1.00	
4,400.00	4,375.29	4,370.43	4,369.96	16.68	233.88	-72.10	-378.78	-353.02	238.43	-11.59	250.02	0.954 Level 1<1.00	
4,500.00	4,474.48	4,469.38	4,468.90	17.09	235.93	-75.01	-379.42	-353.02	235.44	-16.41	251.85	0.935 Level 1<1.00	
4,600.00	4,573.67	4,568.34	4,567.85	17.50	237.99	-77.98	-380.18	-353.02	233.22	-20.33	253.55	0.920 Level 1<1.00	
4,700.00	4,672.85	4,667.32	4,666.81	17.91	240.04	-81.00	-381.08	-353.02	231.77	-23.49	255.26	0.908 Level 1<1.00	
4,800.00	4,772.04	4,768.63	4,768.04	18.32	242.03	-84.11	-382.03	-353.02	231.03	-29.30	260.33	0.887 Level 1<1.00	
4,900.00	4,871.23	4,867.75	4,867.15	18.74	242.84	-87.25	-381.81	-353.02	229.86	-31.70	261.55	0.879 Level 1<1.00	
4,952.98	4,923.78	4,919.81	4,919.21	18.95	243.26	-88.90	-381.89	-353.02	229.70	-32.41	262.11	0.876 Level 1<1.00	

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Section 21-T27N-R06W - Rincon Unit 180 - Original Hole - Inc only surveys													Offset Site Error:	0.00 ft
Survey Program: 335-INC-ONLY													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,970.41	4,967.01	4,966.41	19.15	243.64	-90.38	-382.03	-353.02	229.80	-32.97	262.77	0.875	Level 1<1.00	
5,100.00	5,069.60	5,065.85	5,065.25	19.56	244.37	-93.52	-382.00	-353.02	230.21	-33.65	263.86	0.872	Level 1<1.00	
5,200.00	5,168.79	5,165.39	5,164.79	19.97	245.14	-96.65	-382.03	-353.02	231.37	-33.70	265.08	0.873	Level 1<1.00	
5,300.00	5,267.97	5,264.57	5,263.97	20.39	245.91	-99.73	-382.03	-353.02	233.20	-33.04	266.24	0.876	Level 1<1.00	
5,400.00	5,367.16	5,363.14	5,362.53	20.80	246.68	-102.80	-381.56	-353.02	235.31	-31.56	266.87	0.882	Level 1<1.00	
5,500.00	5,466.34	5,462.96	5,462.34	21.22	247.52	-105.71	-382.03	-353.02	238.86	-29.75	268.61	0.889	Level 1<1.00	
5,600.00	5,565.53	5,562.15	5,561.53	21.63	250.56	-108.59	-382.03	-353.02	242.64	-29.37	272.01	0.892	Level 1<1.00	
5,700.00	5,665.05	5,661.67	5,661.05	22.02	253.60	-110.81	-382.03	-353.02	245.91	-29.46	275.37	0.893	Level 1<1.00	
5,800.00	5,764.94	5,761.56	5,760.94	22.38	256.66	-111.82	-382.03	-353.02	247.53	-31.20	278.74	0.888	Level 1<1.00	
5,900.00	5,864.94	5,861.56	5,860.94	22.69	259.72	137.06	-382.03	-353.02	247.65	-34.47	282.12	0.878	Level 1<1.00	
6,000.00	5,964.94	5,961.56	5,960.94	23.01	262.78	137.06	-382.03	-353.02	247.65	-37.86	285.51	0.867	Level 1<1.00	
6,100.00	6,064.72	6,061.34	6,060.72	23.29	265.84	48.62	-382.03	-353.02	244.33	-44.56	288.89	0.846	Level 1<1.00	
6,200.00	6,162.21	6,158.83	6,158.21	23.50	268.82	53.72	-382.03	-353.02	230.48	-61.68	292.16	0.789	Level 1<1.00	
6,300.00	6,254.45	6,251.07	6,250.45	23.66	271.64	63.59	-382.03	-353.02	209.33	-85.90	295.23	0.709	Level 1<1.00	
6,400.00	6,338.63	6,335.25	6,334.63	23.79	274.22	78.09	-382.03	-353.02	188.98	-108.98	297.95	0.634	Level 1<1.00	
6,473.74	6,394.05	6,390.67	6,390.05	23.89	275.92	90.00	-382.03	-353.02	182.63	-116.89	299.52	0.610	Level 1<1.00, CC, ES, SF	
6,500.00	6,412.21	6,408.83	6,408.21	23.92	276.47	94.01	-382.03	-353.02	183.61	-116.20	299.81	0.612	Level 1<1.00	
6,600.00	6,472.94	6,469.56	6,468.94	24.13	278.33	106.10	-382.03	-353.02	207.38	-93.39	300.77	0.689	Level 1<1.00	
6,700.00	6,523.21	6,519.83	6,519.21	24.47	279.87	115.72	-382.03	-353.02	259.74	-42.65	302.39	0.859	Level 1<1.00	
6,800.00	6,562.96	6,559.57	6,558.96	25.00	281.09	115.59	-382.03	-353.02	331.21	26.99	304.22	1.089	Level 2<1.50	
6,900.00	6,586.19	6,582.81	6,582.19	25.73	281.80	106.73	-382.03	-353.02	415.71	110.73	304.98	1.363	Level 2<1.50	
7,000.00	6,592.47	6,589.09	6,588.47	26.64	281.99	90.59	-382.03	-353.02	507.16	201.94	305.22	1.662	Level 3<2.00	
7,100.00	6,592.87	6,589.49	6,588.87	27.75	282.00	90.72	-382.03	-353.02	601.53	296.26	305.27	1.970	Level 3<2.00	
7,200.00	6,593.27	6,589.89	6,589.27	29.05	282.01	90.84	-382.03	-353.02	697.47	392.15	305.32	2.284		
7,300.00	6,593.67	6,590.29	6,589.67	30.51	282.03	90.97	-382.03	-353.02	794.41	489.05	305.36	2.602		
7,400.00	6,594.07	6,590.69	6,590.07	32.10	282.04	91.10	-382.03	-353.02	892.03	586.63	305.41	2.921		
7,500.00	6,594.47	6,591.09	6,590.47	33.81	282.05	91.22	-382.03	-353.02	990.12	684.68	305.45	3.242		
7,600.00	6,594.87	6,591.49	6,590.87	35.63	282.06	91.35	-382.03	-353.02	1,088.56	783.08	305.48	3.563		
7,700.00	6,595.27	6,591.89	6,591.27	37.53	282.07	91.47	-382.03	-353.02	1,187.26	881.75	305.52	3.886		
7,800.00	6,595.67	6,592.29	6,591.67	39.50	282.09	91.60	-382.03	-353.02	1,286.17	980.61	305.55	4.209		
7,900.00	6,596.07	6,592.69	6,592.07	41.54	282.10	91.72	-382.03	-353.02	1,385.22	1,079.64	305.58	4.533		
8,000.00	6,596.47	6,593.09	6,592.47	43.63	282.11	91.85	-382.03	-353.02	1,484.41	1,178.79	305.62	4.857		
8,100.00	6,596.87	6,593.49	6,592.87	45.77	282.12	91.97	-382.03	-353.02	1,583.70	1,278.05	305.65	5.181		
8,200.00	6,597.27	6,593.89	6,593.27	47.95	282.14	92.10	-382.03	-353.02	1,683.07	1,377.39	305.68	5.506		
8,300.00	6,597.67	6,594.29	6,593.67	50.16	282.15	92.22	-382.03	-353.02	1,782.51	1,476.80	305.71	5.831		
8,400.00	6,598.07	6,594.69	6,594.07	52.40	282.16	92.35	-382.03	-353.02	1,882.01	1,576.26	305.75	6.155		
8,500.00	6,598.47	6,595.09	6,594.47	54.68	282.17	92.47	-382.03	-353.02	1,981.56	1,675.78	305.78	6.480		

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 Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6538+25 @ 6563.00ft

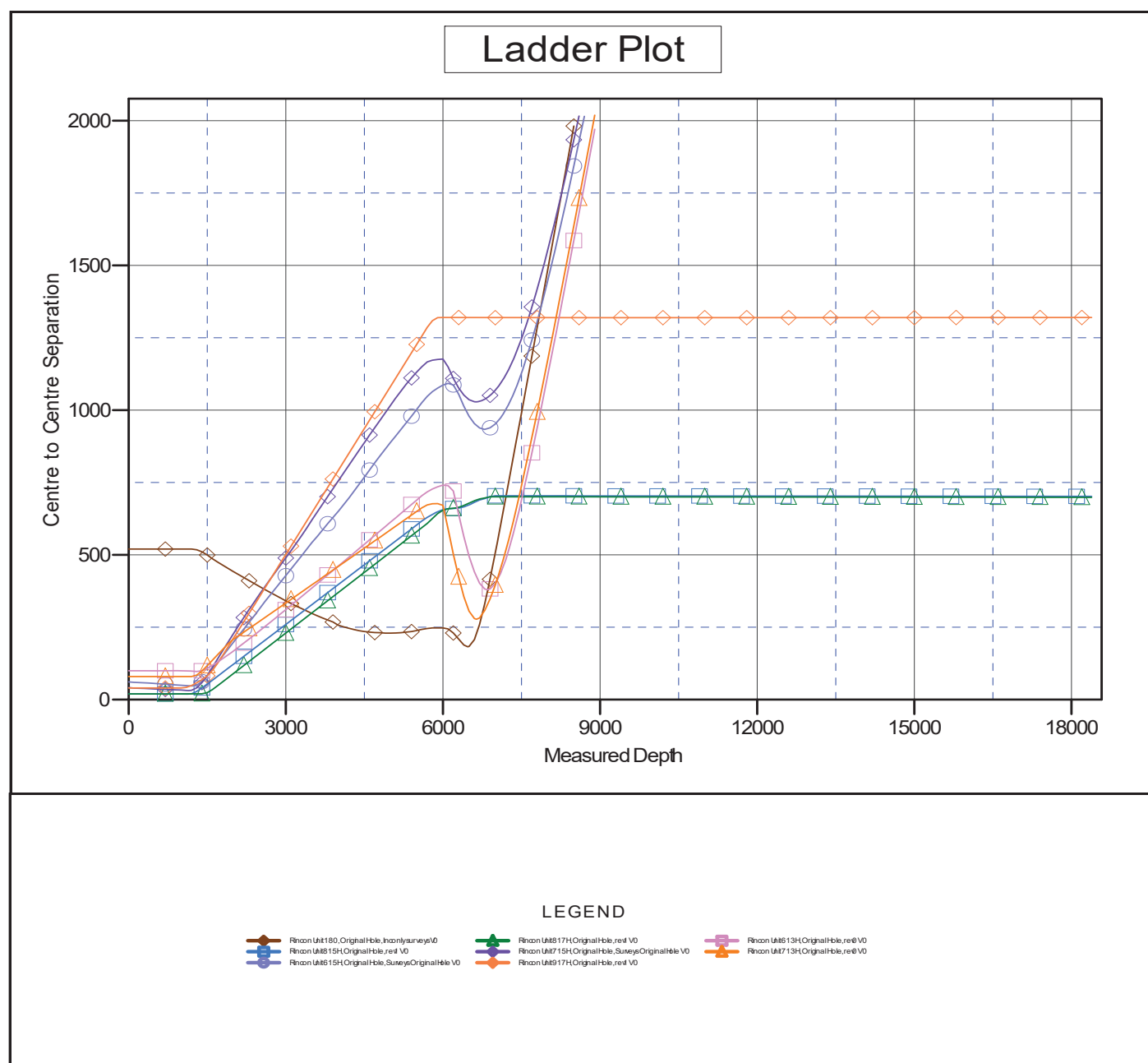
Offset Depths are relative to Offset Datum

Central Meridian is -107.833333333

Coordinates are relative to: Rincon Unit 915H

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

Grid Convergence at Surface is: 0.22°



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



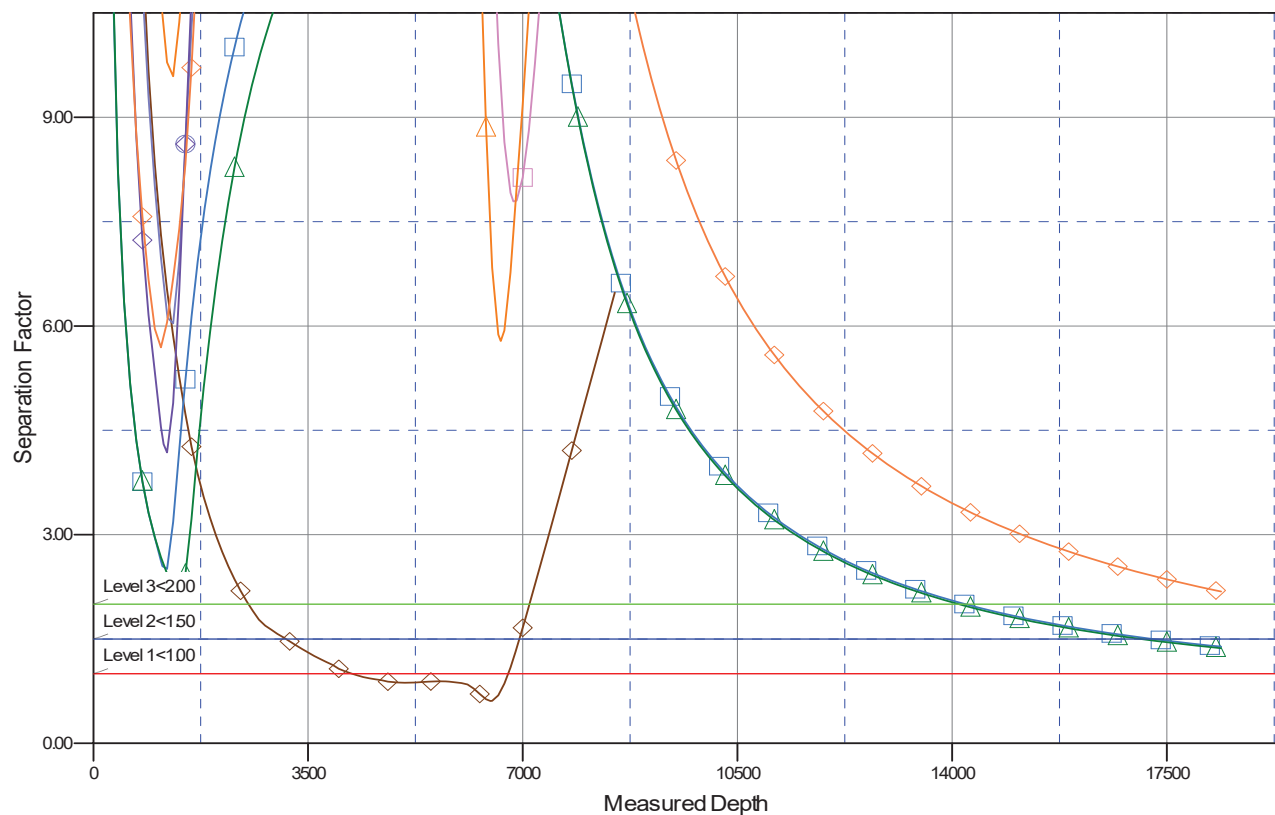
Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Rincon Unit 915H
Project:	Rio Arriba County, New Mexico NAD83 NM W	TVD Reference:	RKB=6538+25 @ 6563.00ft
Reference Site:	Rincon pad (613, 615, 713, 715,815,817,915 & 917)	MD Reference:	RKB=6538+25 @ 6563.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Rincon Unit 915H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DB_Decv0422v16
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB=6538+25 @ 6563.00ft
 Offset Depths are relative to Offset Datum
 Central Meridian is -107.833333333

Coordinates are relative to: Rincon Unit 915H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.22°

Separation Factor Plot



LEGEND



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



United States Department of the Interior

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



In Reply Refer To:
3162.3-1(NMF0110)

* Enduring Resources LLC

#915H RINCON UNIT

Lease: NMSF079366 / Agreement: NMNM078406X

SH: NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 21, T. 27N., R. 6W.

Rio Arriba County, New Mexico

BH: SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 23, T. 27N., R. 6W.

Rio Arriba County, New Mexico

***Above Data Required on Well Sign**

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

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

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

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

I. GENERAL

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

- K. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two-year extension may be granted if submitted prior to expiration.
- L. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all times, unless the well is secured with blowout preventers or cement plugs.
- M. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.
- N. **Commingling:** No production (oil, gas, and water) from the subject well should start until Sundry Notices (if necessary) granting variances from applicable regulations as related to commingling and off-lease measurement are approved by this office.

II. REPORTING REQUIREMENTS

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

by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

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

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days or 50 MMCF following its (completion)(recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the first gas to surface.

V. SAFETY

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

VI. CHANGE OF PLANS OR ABANDONMENT

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

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 357831

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID:
	372286
	Action Number:
	357831
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	7/24/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/24/2024
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	7/24/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	7/24/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	7/24/2024
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	7/24/2024