Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-039-31464 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Name (Printed/Typed) Date Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



*(Instructions on page 2)

District I 16**Received** by OCD 666/26/2024 12:14:53 PM State of New Mexico Phone: (575) 393-5161 Fax: (575) 393-0720 Energy, Minerals & Natural Resources Department

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

Form C-102 Revised August 1, 2011 Submit one copy to Appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	r	Pool Code	POOI Name				
30-039-3146	4	97232					
⁴Property Code		⁶ Well Number					
319957		RINCON UNIT					
'OGRID No.		⁹ Elevation					
372286		ENDURING	RESOURCES, LLC	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
В	21	27N	6W		1187	NORTH	1320	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

								. 400	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	23	27N	6W		2030	NORTH	330	EAST	RIO ARRIBA
Dedicated Acres	N, N,	/2 – Se	ction 2 ction 2	21 22	¹³ Joint or Infill	¹⁴ Consolidation Code	15 Order No.	87	
	N ₂	/2 – Se	ction 2	23					

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

> END-OF-LATERAL 2030' FNL 330' FEL SECTION 23, T27N, R6W

LAT 36.561631°N LONG -107.428853°W DATUM: NAD1983

17 OPERATOR CERTAGECA OF ON

"OPERATOR CERPLOAD AND INTERPRETATION CONTINUED TO THE MEDICAL TO THE MEDICAL THE MEDICAL

Heather Huntington

hhuntington@enduringresources.com

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 undim y 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

> SEON C. EDWARD MEXICO

> > APOFESSIONAL

EW

REGISTER

Certificate Number

10/23/23

DWARDS

SURFACE LOCATION 1187' FNL 1320' FEL SECTION 21, T27N, R6W

LAT 36.563831°N LONG -107.468052°W DATUM: NAD1983

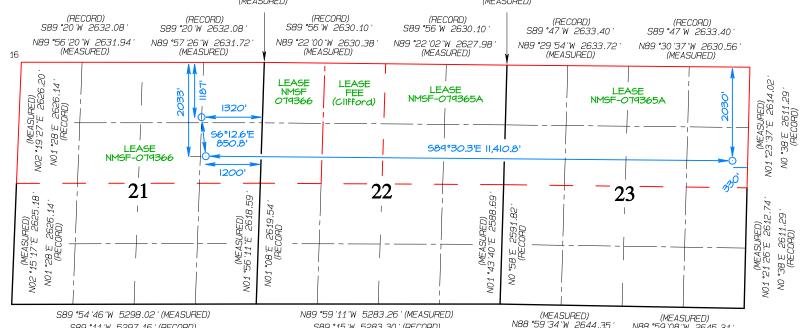
FIRST TAKE POINT 2033' FNL 1200' FEL SECTION 21, T27N, R6W

LAT 36.561511°N LONG -107.467703°W DATUM: NAD1983

(RECORD NO1 °08 E 2619.54 NO1 °54 '09 "E 2618.69"

(RFCORD NO °58 E 2591.82

NO1 °35 '45 "E 2590.97 (MEASURED)



S89 °11 W 5297.16 '(RECORD)

S89 °15 W 5283.30 ' (RECORD)

N88 °59 '34"W 2644.35 N89°44'W 2644.95' (RECORD

N88 °59 '08 "W 2645.31 N89 °44 W 2644.95 (RECORD

Released to Imaging: 7/24/2024 1:09:41 PM

I Operator

Enduring Resources LLC

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 06 / 26 / 2024

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

NATURAL GAS MANAGEMENT PLAN

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

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

OGRID: 372286

iv operatorsEnaming i		., 220	0 0 0112510 /2200_		2	
II. Type: ⊠ Original □ A	mendme	ent due to □ 19.15.2	7.9.D(6)(a) NMAC □ 19.	15.27.9.D(6)(b)	NMAC □ Othe	r.
If Other, please describe: _						
III. Well(s): Provide the fo be recompleted from a sing				or set of wells	proposed to be d	rilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated	Anticipated	Anticipated
				Oil BBL/D	Gas MCF/D	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.

Page 1 of 4

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 🗆 v	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

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

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I I	Affach (Inerator	's nian to	manage	nraduction	in rechange	to the incre	aced line nrec	cure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information process.	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 i	information
for which confidentiality is asserted and the basis for such assertion.	

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

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

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

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

Section 4 - Notices

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

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

Signature: Shaw-Maris Ford
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:



SEPARATION EQUIPMENT

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

Separation equipment will be set as follows:

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

Heater treaters will be set as follows:

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

Vapor Recovery Equipment will be set as follows:

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

Production storage tanks will be set as follows:

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

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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:

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

o Enduring shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

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

19.15.27.8 D. Venting and flaring during production operations

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

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

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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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- 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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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.

200 Energy Court Farmington, NM 87401



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

WELL INFORMATION:

Name: Rincon Unit 817H 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)

Surface Location: 21-27-6 Sec-Twn-Rng 1,187 ft FNL

1,320 ft FEL 36.563831 ° N latitude 107.468052 ° W longitude

(NAD 83) **BH Location:** 23-27-6 Sec-Twn-Rng 2,030 ft FNL 330 ft FEL

> 36.561631 ° N latitude 107.428853 ° W longitude (NAD 83)

6,563 ft ASL (KB)

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	2,574	W	normal
Kirtland	3,920	2,643	2,671	W	normal
Fruitland	3,641	2,922	2,958	G, W	sub
Pictured Cliffs	3,386	3,177	3,219	G, W	sub
Lewis	3,121	3,442	3,490	G, W	normal
Chacra_A	2,821	3,742	3,797	G, W	normal
Cliff House	1,716	4,847	4,929	G, W	sub
Menefee	1,591	4,972	5,057	G, W	sub
Point Lookout	1,157	5,406	5,502	G, W	sub
Mancos	747	5,816	5,921	O,G	sub
Gallup (MNCS_A)	192	6,371	6,479	O,G	sub (~.41)
MNCS_B	82	6,481	6,596	O,G	sub (~.41)
MNCS_C	11	6,552	6,678	O,G	sub (~.41)
MNCS_Cms	0	NA	0	0	0
MNCS_D	0	NA	0	0	0
MNCS_E	-67	6,630	6,780	O,G	sub (~.41)
MNCS_F	-139	6,702	6,894	O,G	sub (~.41)
MNCS_G	-199	6,762	7,013	O,G	sub (~.41)
MNCS_G_Ash	-230	6,793	7,088	O,G	sub (~.41)
MNCS_H	-245	6,808	7,137	O,G	sub (~.41)
G_Ash @ 0VS	-230	6,793	0	O,G	sub (~.41)
G_Ash @ BHL	-270	6,833	0	O,G	sub (~.41)
FTP Target	-245	6,808	7,137	O,G	sub (~.41)
PROJECTED TD (BHL)	-305	6,868	18,699	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/ftEvacuated hole gradient:0.22 psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:2,960 psiMaximum anticipated surface pressure, assuming partially evacuated hole:1,450 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 FEDERA	L NOTIFICATIONS	BLM	State
Construction and	BLM is to be notified minimum of 48 hours prior to start of construction or reclamation.		
Reclamation:	Grazing permittee is to be notified 10 days in advance.	(505) 564-7600	
Spud	BLM and state are to be notified minimum of 24 hours prior to spud.	(505) 564-7750	(505) 334-6178
ВОР	BLM is to be notified minimum of 24 hours prior to BOPE testing.	(505) 564-7750	see note
Casing / cementing	BLM and state are to be notified minimum of 24 hours prior to running casing and		
	cementing.	(505) 564-7750	(505) 334-6178
Plugging	BLM and state are to be notified minimum of 24 hours prior to plugging ops.	(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.		
	<u>Note</u> : Monica Keuhling with the OCD requests state notifications 24 hrs in advance for specementing and any plugging be given to her in both phone message and email: (505) 320 monica.keuhling@emnrd.nm.gov		casing &

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

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

2)

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

- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when the there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

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

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

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

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

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

DETAILED DRILLING PLAN:

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

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

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

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

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	13.375	54.5	J-55	BTC	1,130	2,730	853,000	909,000
Loading					153	1,520	116,634	116,634
Min. S.F.					7.39	1.80	7.31	7.79

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

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

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

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

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

			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	(cuft/ft)	% Excess	(ft MD)	(sx)	
	TYPE III	14.6	1.39	6.686	0.6946	100%	0	364	
r Capacity	0.6946	cuft/ft	13-3/8" casing	x 17-1/2" hole	annulus	Csg capacity	0.8680	ft3/ft	-

13-3/8" casing x 17-1/2" hole annulus Drake Energy Services: Calculated cement volumes assume gauge hole and the excess noted in table

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

Tail Blend Accelerator reducer Flake - seepage

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

Cu Ft Slurry 505.3

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

350 ft (MD)	to	6,021 ft (MD)	Hole Section Length:	5,671 ft
350 ft (TVD)	to	5,916 ft (TVD)	Casing Required:	6,021 ft

			FL		ΥP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (5% KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No OBM

Interm Hole Mud:

Annular Capacity

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 curred 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.

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,283	1,788	285,725	285,725
Min. S.F.					1.57	1.97	1.97	1.59

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

Casing Summary: Float shoe, 1 jt casing, float collar, casing to 4,852' 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.

				Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
	Cement:	Туре	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Stage 1	Spacer	IntegraGuard EZ II	11		32.2		3,956	50 bbls	
	Lead	ASTM type I/II	12.5	2.220	12.5	70%	4,852	160	356.2
	Tail	Type III	14.6	1.37	6.6	20%	5,521	151	207.0
	Displacement	462	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	1,142	2524.0
	Displacement	<i>37</i> 5	est bbls						
Anı	nular Capacity	0.3627	cuft/ft	9-5/8" casing	x 13-3/8" casin	g 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 cen		ssume gauge l	nole and the exc	cess (open hole	only) noted in	table	
Stage 1	Spacer	Fly Ash 187.355 lb/bbl	IntegraGuard GW86 viscosifier 0.9 lb/bbl	FP24 Defoamer .5 lb/bbl	ResCare CS2 Clay Inhibitor 0.1 gal/bbl	SS201 Surfactant 0.5 gal/bbl			
	Lead	ASTM Type I/II	BA90 Bonding Agent 5.0 lb/sx	IntegraSeal POLI LCM 0.13 lb/sx	FL66 Fluid Loss .2% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder .3% BWOB	FP24 Defoamer 0.3% BWOB	KCI Clay Inhibition 3.0% BWOW
Stage 2	Tail Spacer	ASTM Type I/II Fly Ash 187.355 Ib/bbl	Dipersant CD32A 0.0% BWOB IntegraGuard GW86 viscosifier 0.9 lb/bbl	FP24 Defoamer .5 lb/bbl	ResCare CS2 Clay Inhibitor 0.1 gal/bbl	SS201 Surfactant 0.5 gal/bbl			
	Tail	ASTM Type I/II	BA90 Bonding Agent 5.0 lb/sx	IntegraSeal POLI LCM 0.13 lb/sx	FL66 Fluid Loss .2% BWOB	IntegraGuard GW86 Viscosifier .1% BWOB	R3 Retarder .3% BWOB	FP24 Defoamer 0.3% BWOB	KCl Clay Inhibition 3.0% BWOW

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.

6,021 ft (MD)	to	18,699 ft (MD)	Hole Section Length:	12,678 ft
5,916 ft (TVD)	to	6,868 ft (TVD)	Casing Required:	18,699 ft

Estimated KOP:	6,350	ft (MD)	6,244	ft (TVD)
Estimated Landing Point (FTP):	7,137	ft (MD)	6,793	ft (TVD)
Estimated Lateral Length:	11,562	ft (MD)		

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

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.

							Tens. Body	Tens. Conn
Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	5.500	20.0	HCP-110	LTC	12,200	12,640	641,000	548,000
Loading					3,393	9,143	422,711	422,711
Min. S.F.					3.60	1.38	1.52	1.30

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

5-1/2" 20# ID

4.778

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

MU Torque (ft lbs): Minumum: 4,270 Optimum: 5,690 Maximum: 7,110

Casing Summary: Float shoe, 1 jt casing, float collar, 20' marker joint, toe-intitiation 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-

intitiation 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

			Yield	Water	Open hole %	Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	Excess	(ft MD)	(sx)	ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Lead	ASTM type I/II	12.4	2.370	13.40	0%	0	674	1,597
Tail	G:POZ blend	13.3	1.570	7.70	10%	5.921	2.056	3.228

Displacement

413 est bbls

cuft/ft

0.2291

Annular Capacity 0.2691 cuft/ft 5-1/2" casing x 9-5/8" casing annulus

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

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

IntegraGuard Star

S-8 Silica Flour Avis 616 viscosifier FP24 Defoamer .5 Plus 3K LCM 15 SS201 Surfactant 1

Spacer 163.7 lbs/bbl 11.6 lb/bbl lb/bbl lb/bbl gal/bbl gal/bbl

Rentonite IntegraGuard FP24 Defoamer BA90 Bonding Viscosifier 8% FL24 Fluid Loss .5% GW86 Viscosifier R7C Retarder .2% 0.3% BWOB, Anti-Lead ASTM Type I/II **BWOB BWOB** .1% BWOB Static .01 lb/sx Agent 5.0 lb/sx **BWOB** FP24 Defoamer Bentonite .3% BWOB. IntegraGuard Pozzolan Fly Ash **BA90 Bonding** Viscosifier 4% FL24 Fluid Loss .4% GW86 Viscosifier R3 Retarder .5% IntegraSeal 0.25 Tail Type G 50% Extender 50% Agent 3.0 lb/sx **BWOB BWOB** .1% BWOB **BWOB**

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

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

Note: This well will not be considered an unorthodox well location as definted by NMAC19.15.16.15.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: 18,599

Est Frac Inform: 77 Frac Stages 298,000 bbls slick water 24,180,000 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 Bridge12/20/2021Updated:Greg Olson2/20/2023

Greg Olson 3/27/2023 G Olson 8/25/2023 WELL NAME: Rincon Unit 817H

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

API Number: Not yet assigned AFE Number: Not yet assigned ER Well Number: Not yet assigned

State: New Mexico

County: Rio Arriba

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

Surface Location:21-27-6Sec-Twn- Rng1,187ft FNL1,320ft FELBH Location:23-27-6Sec-Twn- Rng2030ft FNL330ft FELDriving Directions:FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:

Sur TD (MD)	350 Ht
Int TD (MD)	6,021 ft
KOP (MD)	6,350 ft
KOP (TVD)	6,244 ft
Target (TVD)	
Curve BUR	10 °/100 ft
POE (MD)	7,137 ft
TD (MD)	18,699 ft

11,562 ft

Lat Len (ft)

QUICK REFERENCE

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 overlans existing roadway. There are 2 existing wells on this location. From South West to North East: Rincon Unit 917H

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	6,021	9.625	36.0	J-55	LTC	0	6,021
Production	8.500	18,699	5.500	20.0	HCP-110	LTC	0	18,699

CEMENT PROPERTIES SUMMARY:

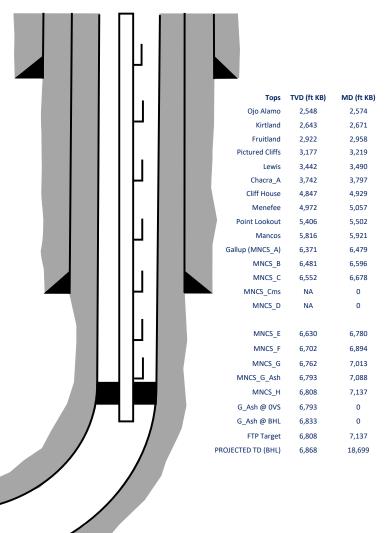
						тос		Slurry Vol
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	% Excess	(ft MD)	Total (sx)	Cu ft
Surface	TYPE III	14.6	1.39	6.686	100%	0	364	505
Inter. (Lead Stg 1)	ASTM type I/II	12.5	2.22	12.5	70%	4852	160	356
Inter. (Tail Stg 1)	Type III	14.6	1.37	6.6	20%	5521	151	207
Inter. (Tail Stg 2)	ASTM type I/II	12.5	2.21	12.4	70%	0	1142	2524
Prod. (Lead)	ASTM type I/II	12.4	2.370	13.4	0%	0	674	1597
Prod. (Tail)	G:POZ blend	13.3	1.570	7.7	10%	5921	2056	3228

COMPLETION / PRODUCTION SUMMARY:

Frac: 18599

Flowback: Flow back through production tubing as pressures allow

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





Site

Planning Report

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

Project: Rio Arriba County, New Mexico NAD83 NM W Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H Wellbore: Original Hole rev1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

89.551

RKB=6538+25 @ 6563.00ft Grid

Minimum Curvature

Rio Arriba County, New Mexico NAD83 NM W Project

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

New Mexico Western Zone

System Datum: Mean Sea Level

0.00

Rincon pad (613, 615, 713, 715,815,817,915 & 917)

Site Position: Northing: 2,024,818.244 usft 36.564026000 Latitude: Lat/Long 2,830,459.503 usft -107.467723000 From: Easting: Longitude:

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

0.00

Well Rincon Unit 817H, Surf loc: 1187 FNL 1320 FEL Section 21-T27N-R06W

2,024,746.889 usft 36.563831000 **Well Position** +N/-S 0.00 ft Northing: Latitude:

2,830,363.155 usft -107.468052000 +E/-W 0.00 ft Easting: Longitude: **Position Uncertainty** 0.00 ft Wellhead Elevation: ft **Ground Level:** 6.538.00 ft

Grid Convergence: 0.22°

Original Hole Wellbore

Model Name Sample Date Declination Dip Angle Field Strength Magnetics (°) (°) (nT) IGRF2020 7/21/2023 8.50 63.03 49.320.22663498

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

0.00

Plan Survey Tool Program Date 7/21/2023 **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 rev1 (Original Hole) 18,698.72 MWD OWSG MWD - Standard



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W
Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

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	
1,617.07	12.51	211.348	1,613.76	-38.74	-23.60	3.00	3.00	0.00	211.35	
5,787.36	12.51	211.348	5,685.01	-810.33	-493.61	0.00	0.00	0.00	0.00	
6,204.43	0.00	0.000	6,098.77	-849.07	-517.21	3.00	-3.00	0.00	180.00	
6,331.05	0.00	0.000	6,225.39	-849.07	-517.21	0.00	0.00	0.00	0.00	Rincon 817 vert r1
6,931.05	60.00	89.551	6,721.59	-846.83	-230.74	10.00	10.00	0.00	89.55	
6,991.05	60.00	89.551	6,751.59	-846.42	-178.78	0.00	0.00	0.00	0.00	
7,289.06	89.80	89.551	6,828.34	-844.19	105.70	10.00	10.00	0.00	0.00	
18,698.72	89.80	89.551	6,868.00	-754.83	11,514.94	0.00	0.00	0.00	0.00	Rincon 817 BHL 2030



Database: DB_Decv0422v16
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Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Planned	d Survey									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00 200.00	0.00 0.00	0.000 0.000	100.00 200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
	350.00	0.00	0.000	350.00	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	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 1,300.00	3.00	211.348	1,299.95	-2.24	-1.36	-1.38	3.00	3.00	0.00
	1,400.00	6.00	211.348	1,399.63	-8.94	-5.44	-5.51	3.00	3.00	0.00
	1,500.00	9.00	211.348	1,498.77	-20.08	-12.23	-12.39	3.00	3.00	0.00
	1,600.00	12.00	211.348	1,597.08	-35.64	-21.71	-21.99	3.00	3.00	0.00
	1,617.07	12.51	211.348	1,613.76	-38.74	-23.60	-23.90	3.00	3.00	0.00
	Begin 12.51°	tangent								
	1,700.00	12.51	211.348	1,694.72	-54.08	-32.94	-33.37	0.00	0.00	0.00
	1,800.00	12.51	211.348	1,792.35	-72.58	-44.21	-44.78	0.00	0.00	0.00
	1,900.00	12.51	211.348	1,889.97	-91.09	-55.48	-56.20	0.00	0.00	0.00
	2,000.00	12.51	211.348	1,987.60	-109.59	-66.76	-67.61	0.00	0.00	0.00
	2,100.00	12.51	211.348	2,085.22	-128.09	-78.03	-79.03	0.00	0.00	0.00
	2,200.00	12.51	211.348	2,182.85	-146.59	-89.30	-90.44	0.00	0.00	0.00
	2,300.00	12.51	211.348	2,280.47	-165.09	-100.57	-101.86	0.00	0.00	0.00
	2,400.00	12.51	211.348	2,378.10	-183.60	-111.84	-113.27	0.00	0.00	0.00
	2,500.00	12.51 12.51	211.348	2,475.72	-202.10	-123.11	-124.69	0.00	0.00	0.00 0.00
	2,573.56	12.51	211.348	2,547.54	-215.71	-131.40	-133.09	0.00	0.00	0.00
	Ojo Alamo 2,600.00	12.51	211.348	2,573.35	-220.60	-134.38	-136.10	0.00	0.00	0.00
	2,670.83	12.51	211.348	2,642.50	-233.71	-142.36	-144.19	0.00	0.00	0.00
	Kirtland	12.51	211.040	2,042.50	-200.71	-142.50	-144.13	0.00	0.00	0.00
	2,700.00	12.51	211.348	2,670.97	-239.10	-145.65	-147.52	0.00	0.00	0.00
	2,800.00	12.51	211.348	2,768.60	-257.61	-156.92	-158.93	0.00	0.00	0.00
	2,900.00	12.51	211.348	2,866.22	-276.11	-168.19	-170.35	0.00	0.00	0.00
	2,957.53	12.51	211.348	2,922.38	-286.75	-174.67	-176.92	0.00	0.00	0.00
	Fruitland									
	3,000.00	12.51	211.348	2,963.85	-294.61	-179.46	-181.76	0.00	0.00	0.00
	3,100.00	12.51	211.348	3,061.47	-313.11	-190.73	-193.18	0.00	0.00	0.00
	3,200.00	12.51	211.348	3,159.10	-331.61	-202.00	-204.59	0.00	0.00	0.00
	3,218.62	12.51	211.348	3,177.28	-335.06	-204.10	-206.72	0.00	0.00	0.00
	Pictured Clif									
	3,300.00	12.51	211.348	3,256.72	-350.12	-213.27	-216.01	0.00	0.00	0.00
	3,400.00	12.51	211.348	3,354.35	-368.62	-224.54	-227.43	0.00	0.00	0.00
	3,489.96	12.51	211.348	3,442.17	-385.26	-234.68	-237.69	0.00	0.00	0.00
	Lewis									
	3,500.00	12.51	211.348	3,451.97	-387.12	-235.81	-238.84	0.00	0.00	0.00
	3,600.00	12.51	211.348	3,549.60	-405.62	-247.08	-250.26	0.00	0.00	0.00



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,700.00	12.51	211.348	3,647.22	-424.13	-258.36	-261.67	0.00	0.00	0.00
3,797.13	12.51	211.348	3,742.05	-442.10	-269.30	-272.76	0.00	0.00	0.00
Chacra_A									
3,800.00	12.51	211.348	3,744.85	-442.63	-269.63	-273.09	0.00	0.00	0.00
3,900.00	12.51	211.348	3,842.47	-461.13	-280.90	-284.50	0.00	0.00	0.00
4,000.00	12.51	211.348	3,940.10	-479.63	-292.17	-295.92	0.00	0.00	0.00
4,100.00	12.51	211.348	4,037.72	-498.13	-303.44	-307.33	0.00	0.00	0.00
4,200.00	12.51	211.348	4,135.35	-516.64	-314.71	-318.75	0.00	0.00	0.00
4,300.00	12.51	211.348	4,232.97	-535.14	-325.98	-330.16	0.00	0.00	0.00
4,400.00 4,500.00	12.51 12.51	211.348 211.348	4,330.60 4,428.22	-553.64 -572.14	-337.25 -348.52	-341.58 -352.99	0.00 0.00	0.00 0.00	0.00 0.00
4,600.00	12.51	211.348	4,525.85	-590.65	-340.32	-364.41	0.00	0.00	0.00
4,700.00 4,800.00	12.51 12.51	211.348 211.348	4,623.47 4,721.10	-609.15 -627.65	-371.06 -382.33	-375.82 -387.24	0.00 0.00	0.00 0.00	0.00 0.00
4,800.00	12.51	211.348	4,721.10	-627.65 -646.15	-382.33 -393.60	-387.24 -398.65	0.00	0.00	0.00
4,928.55	12.51	211.348	4,846.60	-651.43	-396.82	-401.91	0.00	0.00	0.00
Cliff House			1,01010						
5,000.00	12.51	211.348	4,916.35	-664.65	-404.87	-410.07	0.00	0.00	0.00
5,056.54	12.51	211.348	4,971.55	-675.12	-411.25	-416.52	0.00	0.00	0.00
Menefee	12.51	211.540	4,971.33	-073.12	-411.23	-410.32	0.00	0.00	0.00
5,100.00	12.51	211.348	5,013.97	-683.16	-416.14	-421.48	0.00	0.00	0.00
5,200.00	12.51	211.348	5,111.60	-701.66	-427.41	-432.90	0.00	0.00	0.00
5,211.68	12.51	211.348	5,123.00	-703.82	-428.73	-434.23	0.00	0.00	0.00
9 5/8" Csg									
5,300.00	12.51	211.348	5,209.22	-720.16	-438.68	-444.32	0.00	0.00	0.00
5,400.00	12.51	211.348	5,306.85	-738.66	-449.96	-455.73	0.00	0.00	0.00
5,500.00	12.51	211.348	5,404.47	-757.16	-461.23	-467.15	0.00	0.00	0.00
5,501.94	12.51	211.348	5,406.37	-757.52	-461.45	-467.37	0.00	0.00	0.00
Point Look									
5,600.00	12.51	211.348	5,502.10	-775.67	-472.50	-478.56	0.00	0.00	0.00
5,700.00	12.51	211.348	5,599.72	-794.17	-483.77	-489.98	0.00	0.00	0.00
5,787.36	12.51	211.348	5,685.01	-810.33	-493.61	-499.95	0.00	0.00	0.00
Begin 3°/10									
5,800.00	12.13	211.348	5,697.36	-812.64	-495.02	-501.37	3.00	-3.00	0.00
5,900.00	9.13	211.348	5,795.63	-828.39	-504.61	-511.09	3.00	-3.00	0.00
5,920.83	8.51	211.348	5,816.21	-831.12	-506.28	-512.77	3.00	-3.00	0.00
Mancos 6.000.00	6.13	211.348	5,894.73	-839.74	-511.52	-518.09	3.00	-3.00	0.00
6 100 00			,			-522.34		-3.00	
6,100.00 6,204.43	3.13 0.00	211.348 0.000	5,994.39 6,098.77	-846.63 -849.07	-515.73 -517.21	-522.3 4 -523.85	3.00 3.00	-3.00 -3.00	0.00 0.00
Begin vertic		0.000	0,000.77	-043.07	-017.21	-020.00	0.00	-0.00	0.00
6,300.00	0.00	0.000	6,194.34	-849.07	-517.21	-523.85	0.00	0.00	0.00
6,331.05	0.00	0.000	6,225.39	-849.07	-517.21	-523.85	0.00	0.00	0.00
Begin 10°/1	00' build								
6,350.00	1.90	89.551	6,244.34	-849.07	-516.90	-523.53	10.00	10.00	0.00
6,400.00	6.90	89.551	6,294.18	-849.04	-513.07	-519.70	10.00	10.00	0.00
6,450.00	11.90	89.551	6,343.49	-848.97	-504.91	-511.54	10.00	10.00	0.00
6,478.52	14.75	89.551	6,371.24	-848.92	-498.34	-504.97	10.00	10.00	0.00
Gallup (MN	CS_A)								
6,500.00	16.90	89.551	6,391.90	-848.88	-492.48	-499.12	10.00	10.00	0.00
6,550.00	21.90	89.551	6,439.05	-848.75	-475.88	-482.52	10.00	10.00	0.00
6,596.43	26.54	89.551	6,481.38	-848.60	-456.84	-463.48	10.00	10.00	0.00



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Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
MNCS_B									
6,600.0 6,650.0 6,678.0	00 31.90	89.551 89.551 89.551	6,484.57 6,528.12 6,551.53	-848.58 -848.39 -848.27	-455.24 -430.71 -415.33	-461.87 -437.34 -421.97	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
MNCS_C 6,700.0		89.551	6,569.37	-848.17	-402.47	-409.10	10.00	10.00	0.00
6,750.0	00 41.90	89.551	6,607.99	-847.92	-370.75	-377.38	10.00	10.00	0.00
6,779.9 MNCS_E		89.551	6,629.76	-847.76	-350.17	-356.81	10.00	10.00	0.00
6,800.0 6,850.0 6,894.0	00 51.90	89.551 89.551 89.551	6,643.71 6,676.24 6,702.06	-847.65 -847.35 -847.07	-335.78 -297.83 -262.16	-342.41 -304.46 -268.79	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
MNCS_F									
6,900.0 6,931.0	05 60.00	89.551 89.551	6,705.34 6,721.59	-847.03 -846.83	-257.19 -230.74	-263.82 -237.37	10.00 10.00	10.00 10.00	0.00 0.00
6,991.0	.00° tangent 05 60.00 °/100' build	89.551	6,751.59	-846.42	-178.78	-185.41	0.00	0.00	0.00
7,000.0 7,013.4	00 60.90	89.551 89.551	6,756.00 6,762.42	-846.36 -846.26	-170.99 -159.13	-177.62 -165.76	10.00 10.00	10.00 10.00	0.00 0.00
MNCS_G									
7,050.0 7,087.7	69.67	89.551 89.551	6,778.39 6,792.66	-846.01 -845.73	-126.30 -91.36	-132.93 -97.98	10.00 10.00	10.00 10.00	0.00 0.00
	_ Ash - G_Ash @ 0\ 00 70.90		6 706 70	-845.64	-79.83	-86.46	10.00	10.00	0.00
7,100.0 7,137.2	23 74.62	89.551 89.551	6,796.79 6,807.82	-845.36	-79.65 -44.28	-50.91	10.00	10.00 10.00	0.00
MNCS_H 7,150.0		89.551	6,811.07	-845.27	-31.93	-38.56	10.00	10.00	0.00
7,200.0 7,250.0 7,289.0	00 85.90	89.551 89.551 89.551	6,821.13 6,826.88 6,828.34	-844.88 -844.49 -844.19	17.03 66.68 105.70	10.41 60.06 99.08	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
Begin 89.	.80° lateral								
7,300.0 7,400.0		89.551 89.551	6,828.38 6,828.73	-844.10 -843.32	116.64 216.64	110.02 210.02	0.00 0.00	0.00 0.00	0.00 0.00
7,500.0 7,600.0 7,700.0 7,800.0	89.80 00 89.80 00 89.80	89.551 89.551 89.551 89.551	6,829.08 6,829.43 6,829.77 6,830.12	-842.54 -841.75 -840.97 -840.19	316.63 416.63 516.63 616.62	310.02 410.02 510.02 610.02	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
7,900.0 8,000.0		89.551 89.551	6,830.47 6,830.82	-839.40 -838.62	716.62 816.62	710.02 810.02	0.00	0.00	0.00
8,100.0 8,200.0 8,300.0	89.80 00 89.80	89.551 89.551 89.551	6,831.16 6,831.51 6,831.86	-837.84 -837.06 -836.27	916.61 1,016.61 1,116.61	910.02 1,010.02 1,110.02	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,400.0	00 89.80	89.551	6,832.21	-835.49	1,216.60	1,210.02	0.00	0.00	0.00
8,500.0 8,600.0 8,700.0	00 89.80	89.551 89.551 89.551	6,832.55 6,832.90 6,833.25	-834.71 -833.92 -833.14	1,316.60 1,416.59 1,516.59	1,310.02 1,410.02 1,510.01	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
8,800.0 8,900.0	00 89.80	89.551 89.551	6,833.60 6,833.94	-832.36 -831.57	1,616.59 1,716.58	1,610.01 1,710.01	0.00 0.00	0.00 0.00	0.00 0.00
9,000.0 9,100.0 9,200.0	00 89.80	89.551 89.551 89.551	6,834.29 6,834.64 6,834.99	-830.79 -830.01 -829.22	1,816.58 1,916.58 2,016.57	1,810.01 1,910.01 2,010.01	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,300.00 9,400.00	89.80 89.80	89.551 89.551	6,835.33 6,835.68	-828.44 -827.66	2,116.57 2,216.56	2,110.01 2,210.01	0.00 0.00	0.00 0.00	0.00 0.00
9,500.00	89.80	89.551	6,836.03	-826.87	2,316.56	2,310.01	0.00	0.00	0.00
9,600.00	89.80	89.551	6,836.38	-826.09	2,416.56	2,410.01	0.00	0.00	0.00
9,700.00	89.80	89.551	6,836.72	-825.31	2,516.55	2,510.01	0.00	0.00	0.00
9,800.00	89.80	89.551	6,837.07	-824.52	2,616.55	2,610.01	0.00	0.00	0.00
9,900.00	89.80	89.551	6,837.42	-823.74	2,716.55	2,710.01	0.00	0.00	0.00
10,000.00	89.80	89.551	6,837.77	-822.96	2,816.54	2,810.01	0.00	0.00	0.00
10,100.00	89.80	89.551	6,838.11	-822.18	2,916.54	2,910.01	0.00	0.00	0.00
10,200.00	89.80	89.551	6,838.46	-821.39	3,016.54	3,010.01	0.00	0.00	0.00
10,300.00	89.80	89.551	6,838.81	-820.61	3,116.53	3,110.01	0.00	0.00	0.00
10,400.00	89.80	89.551	6,839.16	-819.83	3,216.53	3,210.00	0.00	0.00	0.00
10,500.00	89.80	89.551	6,839.50	-819.04	3,316.52	3,310.00	0.00	0.00	0.00
10,600.00	89.80	89.551	6,839.85	-818.26	3,416.52	3,410.00	0.00	0.00	0.00
10,700.00	89.80	89.551	6,840.20	-817.48	3,516.52	3,510.00	0.00	0.00	0.00
10,800.00	89.80	89.551	6,840.55	-816.69	3,616.51	3,610.00	0.00	0.00	0.00
10,900.00	89.80	89.551	6,840.89	-815.91	3,716.51	3,710.00	0.00	0.00	0.00
11,000.00	89.80	89.551	6,841.24	-815.13	3,816.51	3,810.00	0.00	0.00	0.00
11,100.00	89.80	89.551	6,841.59	-814.34	3,916.50	3,910.00	0.00	0.00	0.00
11,200.00	89.80	89.551	6,841.94	-813.56	4,016.50	4,010.00	0.00	0.00	0.00
11,300.00	89.80	89.551	6,842.29	-812.78	4,116.50	4,110.00	0.00	0.00	0.00
11,400.00	89.80	89.551	6,842.63	-811.99	4,216.49	4,210.00	0.00	0.00	0.00
11,500.00	89.80	89.551	6,842.98	-811.21	4,316.49	4,310.00	0.00	0.00	0.00
11,600.00	89.80	89.551	6,843.33	-810.43	4,416.48	4,410.00	0.00	0.00	0.00
11,700.00	89.80	89.551	6,843.68	-809.64	4,516.48	4,510.00	0.00	0.00	0.00
11,800.00	89.80	89.551	6,844.02	-808.86	4,616.48	4,610.00	0.00	0.00	0.00
11,900.00	89.80	89.551	6,844.37	-808.08	4,716.47	4,710.00	0.00	0.00	0.00
12,000.00	89.80	89.551	6,844.72	-807.29	4,816.47	4,810.00	0.00	0.00	0.00
12,100.00	89.80	89.551	6,845.07	-806.51	4,916.47	4,909.99	0.00	0.00	0.00
12,200.00	89.80	89.551	6,845.41	-805.73	5,016.46	5,009.99	0.00	0.00	0.00
12,300.00	89.80	89.551	6,845.76	-804.95	5,116.46	5,109.99	0.00	0.00	0.00
12,400.00	89.80	89.551	6,846.11	-804.16	5,216.45	5,209.99	0.00	0.00	0.00
12,500.00	89.80	89.551	6,846.46	-803.38	5,316.45	5,309.99	0.00	0.00	0.00
12,600.00	89.80	89.551	6,846.80	-802.60	5,416.45	5,409.99	0.00	0.00	0.00
12,700.00	89.80	89.551	6,847.15	-801.81	5,516.44	5,509.99	0.00	0.00	0.00
12,800.00	89.80	89.551 80.551	6,847.50	-801.03	5,616.44 5,716.44	5,609.99	0.00	0.00	0.00
12,900.00	89.80	89.551	6,847.85	-800.25	5,716.44	5,709.99	0.00	0.00	0.00
13,000.00	89.80	89.551	6,848.19	-799.46	5,816.43	5,809.99	0.00	0.00	0.00
13,100.00	89.80	89.551	6,848.54	-798.68	5,916.43	5,909.99	0.00	0.00	0.00
13,200.00	89.80	89.551	6,848.89	-797.90	6,016.43	6,009.99	0.00	0.00	0.00
13,300.00	89.80	89.551	6,849.24	-797.11	6,116.42	6,109.99	0.00	0.00	0.00
13,400.00	89.80	89.551	6,849.58	-796.33	6,216.42	6,209.99	0.00	0.00	0.00
13,500.00	89.80	89.551	6,849.93	-795.55	6,316.41	6,309.99	0.00	0.00	0.00
13,600.00	89.80	89.551	6,850.28	-794.76	6,416.41	6,409.99	0.00	0.00	0.00
13,700.00	89.80	89.551	6,850.63	-793.98	6,516.41	6,509.98	0.00	0.00	0.00
13,800.00 13,900.00	89.80 89.80	89.551 89.551	6,850.97 6,851.32	-793.20 -792.41	6,616.40 6,716.40	6,609.98 6,709.98	0.00 0.00	0.00 0.00	0.00 0.00
14,000.00	89.80	89.551	6,851.67	-791.63	6,816.40	6,809.98	0.00	0.00	0.00
14,100.00	89.80	89.551	6,852.02	-790.85	6,916.39	6,909.98	0.00	0.00	0.00
14,200.00	89.80	89.551 80.551	6,852.36 6,852.71	-790.07	7,016.39	7,009.98	0.00	0.00	0.00
14,300.00 14,400.00	89.80 89.80	89.551 89.551	6,852.71	-789.28 -788.50	7,116.38 7,216.38	7,109.98 7,209.98	0.00 0.00	0.00 0.00	0.00 0.00
14,500.00	89.80	89.551	6,853.41	-787.72	7,316.38	7,309.98	0.00	0.00	0.00



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
14,600.00	89.80	89.551	6,853.75	-786.93	7,416.37	7,409.98	0.00	0.00	0.00
14,700.00	89.80	89.551	6,854.10	-786.15	7,516.37	7,509.98	0.00	0.00	0.00
14,800.00	89.80	89.551	6,854.45	-785.37	7,616.37	7,609.98	0.00	0.00	0.00
14,900.00	89.80	89.551	6,854.80	-784.58	7,716.36	7,709.98	0.00	0.00	0.00
15,000.00	89.80	89.551	6,855.14	-783.80	7,816.36	7,809.98	0.00	0.00	0.00
15,100.00	89.80	89.551	6,855.49	-783.02	7,916.36	7,909.98	0.00	0.00	0.00
15,200.00	89.80	89.551	6,855.84	-782.23	8,016.35	8,009.98	0.00	0.00	0.00
15,300.00	89.80	89.551	6,856.19	-781.45	8,116.35	8,109.98	0.00	0.00	0.00
15,400.00	89.80	89.551	6,856.54	-780.67	8,216.34	8,209.97	0.00	0.00	0.00
15,500.00	89.80	89.551	6,856.88	-779.88	8,316.34	8,309.97	0.00	0.00	0.00
15,600.00	89.80	89.551	6,857.23	-779.10	8,416.34	8,409.97	0.00	0.00	0.00
15,700.00	89.80	89.551	6,857.58	-778.32	8,516.33	8,509.97	0.00	0.00	0.00
15,800.00	89.80	89.551	6,857.93	-777.53	8,616.33	8,609.97	0.00	0.00	0.00
15,900.00	89.80	89.551	6,858.27	-776.75	8,716.33	8,709.97	0.00	0.00	0.00
16,000.00	89.80	89.551	6,858.62	-775.97	8,816.32	8,809.97	0.00	0.00	0.00
16,100.00	89.80	89.551	6,858.97	-775.19	8,916.32	8,909.97	0.00	0.00	0.00
16,200.00	89.80	89.551	6,859.32	-774.40	9,016.32	9,009.97	0.00	0.00	0.00
16,300.00	89.80	89.551	6,859.66	-773.62	9,116.31	9,109.97	0.00	0.00	0.00
16,400.00	89.80	89.551	6,860.01	-772.84	9,216.31	9,209.97	0.00	0.00	0.00
16,500.00	89.80	89.551	6,860.36	-772.05	9,316.30	9,309.97	0.00	0.00	0.00
16,600.00	89.80	89.551	6,860.71	-771.27	9,416.30	9,409.97	0.00	0.00	0.00
16,700.00	89.80	89.551	6,861.05	-770.49	9,516.30	9,509.97	0.00	0.00	0.00
16,800.00	89.80	89.551	6,861.40	-769.70	9,616.29	9,609.97	0.00	0.00	0.00
16,900.00	89.80	89.551	6,861.75	-768.92	9,716.29	9,709.97	0.00	0.00	0.00
17,000.00	89.80	89.551	6,862.10	-768.14	9,816.29	9,809.97	0.00	0.00	0.00
17,100.00	89.80	89.551	6,862.44	-767.35	9,916.28	9,909.96	0.00	0.00	0.00
17,200.00	89.80	89.551	6,862.79	-766.57	10,016.28	10,009.96	0.00	0.00	0.00
17,300.00	89.80	89.551	6,863.14	-765.79	10,116.27	10,109.96	0.00	0.00	0.00
17,400.00	89.80	89.551	6,863.49	-765.00	10,216.27	10,209.96	0.00	0.00	0.00
17,500.00	89.80	89.551	6,863.83	-764.22	10,316.27	10,309.96	0.00	0.00	0.00
17,600.00	89.80	89.551	6,864.18	-763.44	10,416.26	10,409.96	0.00	0.00	0.00
17,700.00	89.80	89.551	6,864.53	-762.65	10,516.26	10,509.96	0.00	0.00	0.00
17,800.00	89.80	89.551	6,864.88	-761.87	10,616.26	10,609.96	0.00	0.00	0.00
17,900.00	89.80	89.551	6,865.22	-761.09	10,716.25	10,709.96	0.00	0.00	0.00
18,000.00	89.80	89.551	6,865.57	-760.31	10,816.25	10,809.96	0.00	0.00	0.00
18,100.00	89.80	89.551	6,865.92	-759.52	10,916.25	10,909.96	0.00	0.00	0.00
18,200.00	89.80	89.551	6,866.27	-758.74	11,016.24	11,009.96	0.00	0.00	0.00
18,300.00	89.80	89.551	6,866.61	-757.96	11,116.24	11,109.96	0.00	0.00	0.00
18,400.00	89.80	89.551	6,866.96	-757.17	11,216.23	11,209.96	0.00	0.00	0.00
18,500.00	89.80	89.551	6,867.31	-756.39	11,316.23	11,309.96	0.00	0.00	0.00
18,600.00	89.80	89.551	6,867.66	-755.61	11,416.23	11,409.96	0.00	0.00	0.00
18,698.72	89.80	89.551	6,868.00	-754.83	11,514.94	11,508.67	0.00	0.00	0.00



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

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 817 vert r1 - plan hits target cer - Point	0.00 nter	0.000	6,225.39	-849.07	-517.21	2,023,897.820	2,829,845.946	36.561504094	-107.469824098
Rincon 817 VS=0 r1 - plan misses target - Point	0.00 center by 8.51	0.000 Ift at 7191.18	6,828.00 Bft MD (6819	-844.97 .67 TVD, -844	6.62 I.95 N, 8.33 E	2,023,901.920	2,830,369.775	36.561509904	-107.468040386
Rincon 817 FTP 2033 FI - plan misses target - Point		0.000 Ift at 7289.00	6,828.34 6ft MD (6828	-844.19 .34 TVD, -844	105.70 I.19 N, 105.70	2,023,902.696) E)	2,830,468.856	36.561511000	-107.467703000
Rincon 817 BHL 2030 F - plan hits target cer - Point		0.000	6,868.00	-754.83	11,514.94	2,023,992.057	2,841,878.074	36.561631000	-107.428853000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 5,211.68		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	

ormations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,573.56	2,547.54	Ojo Alamo		0.20	89.580
	2,670.83	2,642.50	Kirtland		0.20	89.580
	2,957.53	2,922.38	Fruitland		0.20	89.580
	3,218.62	3,177.28	Pictured Cliffs		0.20	89.580
	3,489.96	3,442.17	Lewis		0.20	89.580
	3,797.13	3,742.05	Chacra_A		0.20	89.580
	4,928.55	4,846.60	Cliff House		0.20	89.580
	5,056.54	4,971.55	Menefee		0.20	89.580
	5,501.94	5,406.37	Point Lookout		0.20	89.580
	5,920.83	5,816.21	Mancos		0.20	89.580
	6,478.52	6,371.24	Gallup (MNCS_A)		0.20	89.580
	6,596.43	6,481.38	MNCS_B		0.20	89.580
	6,678.01	6,551.53	MNCS_C		0.20	89.580
	6,779.95	6,629.76	MNCS_E		0.20	89.580
	6,894.05	6,702.06	MNCS_F		0.20	89.580
	7,013.49	6,762.42	MNCS_G		0.20	89.580
	7,087.76	6,792.66	MNCS_G_Ash		0.20	89.580
	7,087.76	6,792.66	G_Ash @ 0VS		0.20	89.580
	7,137.23	6,807.82	MNCS_H		0.20	89.580



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Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build
1,617.07	1,613.76	-38.74	-23.60	Begin 12.51° tangent
5,787.36	5,685.01	-810.33	-493.61	Begin 3°/100' drop
6,204.43	6,098.77	-849.07	-517.21	Begin vertical hold
6,331.05	6,225.39	-849.07	-517.21	Begin 10°/100' build
6,931.05	6,721.59	-846.83	-230.74	Begin 60.00° tangent
6,991.05	6,751.59	-846.42	-178.78	Begin 10°/100' build
7,289.06	6,828.34	-844.19	105.70	Begin 89.80° lateral
18,698.72	6,868.00	-754.83	11,514.94	PBHL/TD @ 18698.72 MD 6868.00 TVD



Site

Planning Report - Geographic

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

Project: Rio Arriba County, New Mexico NAD83 NM W Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H Wellbore: Original Hole rev1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H

RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Minimum Curvature

Project Rio Arriba County, New Mexico NAD83 NM W

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

Map Zone: New Mexico Western Zone System Datum: Mean Sea Level

Rincon pad (613, 615, 713, 715,815,817,915 & 917)

2,024,818.244 usft Northing: 36.564026000 Site Position: Latitude: Lat/Long 2,830,459.503 usft -107.467723000 From: Easting: Longitude:

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

Rincon Unit 817H, Surf loc: 1187 FNL 1320 FEL Section 21-T27N-R06W Well

36.563831000 0.00 ft 2,024,746.889 usft **Well Position** +N/-S Northing: Latitude:

+E/-W 0.00 ft 2,830,363.155 usft -107.468052000 Easting: Longitude: 0.00 ft ft 6,538.00 ft **Position Uncertainty** Wellhead Elevation: Ground Level:

Grid Convergence: 0.22 °

Wellbore Original Hole Declination **Model Name** Field Strength Magnetics Sample Date Dip Angle (°) (°) (nT) IGRF2020 7/21/2023 8.50 63.03 49,320.22663498

Design rev1 Audit Notes: Version: Phase: **PLAN** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 89.551

Plan Survey Tool Program Date 7/21/2023 **Depth From** Depth To (ft) **Tool Name** (ft) Survey (Wellbore) Remarks 0.00 18,698.72 rev1 (Original Hole) MWD OWSG MWD - Standard

7/21/2023 7:20:37AM COMPASS 5000.16 Build 96 Page 1



Planning Report - Geographic

Database: DB_Decv0422v16

Company: Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

an 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	
1,617.07	12.51	211.348	1,613.76	-38.74	-23.60	3.00	3.00	0.00	211.35	
5,787.36	12.51	211.348	5,685.01	-810.33	-493.61	0.00	0.00	0.00	0.00	
6,204.43	0.00	0.000	6,098.77	-849.07	-517.21	3.00	-3.00	0.00	180.00	
6,331.05	0.00	0.000	6,225.39	-849.07	-517.21	0.00	0.00	0.00	0.00	Rincon 817 vert r1
6,931.05	60.00	89.551	6,721.59	-846.83	-230.74	10.00	10.00	0.00	89.55	
6,991.05	60.00	89.551	6,751.59	-846.42	-178.78	0.00	0.00	0.00	0.00	
7,289.06	89.80	89.551	6,828.34	-844.19	105.70	10.00	10.00	0.00	0.00	
18,698.72	89.80	89.551	6,868.00	-754.83	11,514.94	0.00	0.00	0.00	0.00	Rincon 817 BHL 2030



Planning Report - Geographic

Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

0.00 0.00 0.00 0.000 0.000 0.00 0.00 0	anned Survey									
100.00 0.00 0.00 100.00 100.00 0.00 0.0	Depth			Depth			Northing	Easting	Latitude	Longitude
200.00 0.00 0.00 0.00 200.00 0.00 0.00							2,024,746.889	2,830,363.155	36.563831000	-107.468052000
300.00 0.00 0.00 300.00 0.00 0.00 0.00										-107.468052000
350.00										-107.468052000
13 38" Csg										-107.468052000
400.00 0.00 0.00 400.00 0.00 0.00 0.00			0.000	350.00	0.00	0.00	2,024,746.889	2,830,363.155	36.563831000	-107.468052000
500.00 0.00 0.00 500.00 0.00 0.00 0.00		•	0.000	400.00	0.00	0.00	0.004.740.000	0.000.000.455	00 500004000	407 400050000
600.00 0.00 0.00 0.000 600.00 0.00 0.00										-107.468052000
700.00 0.00 0.00 700.00 700.00 0.00 0.0							, ,			
800.00 0.00 0.00 0.000 800.00 0.00 0.00										-107.468052000
900.00 0.00 0.00 0.00 1,000.00 0.00 0.00										-107.468052000
1,000.00 0.00 0.00 1,000.00 0.00 0.00 0.										-107.468052000
1,100.00 0.00 0.00 1,100.00 0.00 0.00 0.										-107.468052000
1,200.00										-107.468052000
1,300.00 3.00 211.348 1,299.95 -2.24 -1.36 2,024,744.653 2,830,361.794 36.563824874 -107.4681 1,400.00 6.00 211.348 1,399.63 -8.94 -5.44 2,024,737.954 2,830,357.712 36.563806513 -107.4681 1,500.00 9.00 211.348 1,498.77 -20.08 -12.23 2,024,726.808 2,830,350.923 36.563775967 -107.4681 1,600.00 12.00 211.348 1,597.08 -35.64 -21.71 2,024,711.246 2,830,341.443 36.563733320 -107.4681 1,617.07 12.51 211.348 1,613.76 -38.74 -23.60 2,024,708.151 2,830,339.558 36.563724838 -107.4681 1,700.00 12.51 211.348 1,694.72 -54.08 -32.94 2,024,692.807 2,830,330.212 36.563682789 -107.4681 1,900.00 12.51 211.348 1,899.77 -91.09 -55.48 2,024,658.803 2,830,318.941 36.563632083 -107.4681 1,900.00 12.51 211.348 1,899.79 -91.09 -55.48 2,024,658.803 2,830,318.941 36.563632083 -107.4681 2,000.00 12.51 211.348 1,897.60 -109.59 -66.76 2,024,637.301 2,830,296.400 36.563530672 -107.4681 2,100.00 12.51 211.348 2,085.22 -128.09 -78.03 2,024,618.799 2,830,285.129 36.56342966 -107.4681 2,200.00 12.51 211.348 2,285146.59 -89.30 2,024,618.799 2,830,285.129 36.56342966 -107.4681 2,300.00 12.51 211.348 2,280.47 -165.09 -100.57 2,024,581.794 2,830,265.803 36.563379966 -107.4681 2,400.00 12.51 211.348 2,280.47 -165.09 -100.57 2,024,581.794 2,830,265.803 36.563379966 -107.4681 2,500.00 12.51 211.348 2,280.47 -165.09 -100.57 2,024,581.794 2,830,265.1318 36.563378555 -107.4681 2,500.00 12.51 211.348 2,280.47 -165.09 -100.57 2,024,581.794 2,830,265.1318 36.563378555 -107.4681 2,573.56 12.51 211.348 2,275.75 -202.10 -123.11 2,024,541.790 2,830,231.757 36.563229844 -107.4681 2,573.56 12.51 211.348 2,573.35 -220.60 -134.38 2,024,531.180 2,830,231.757 36.563229844 -107.4681 2,573.56 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.4681 2,670.80 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563125026 -107.4681 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563125026 -107.4681 2,700.00 12.51 211.348 2,670.87 -220.60 -134.38 2,024,513.183 2,830,220.793 36.563125026 -107.										-107.468052000
1,400.00 6.00 211.348 1,399.63 -8.94 -5.44 2,024,737.954 2,830,357.712 36.563806513 -107.4688 1,500.00 9.00 211.348 1,498.77 -20.08 -12.23 2,024,726.808 2,830,350.923 36.563775967 -107.4688 1,600.00 12.00 211.348 1,597.08 -35.64 -21.71 2,024,711.246 2,830,341.443 36.563733320 -107.4688 1,617.07 12.51 211.348 1,691.76 -38.74 -23.60 2,024,708.151 2,830,339.558 36.563724838 -107.4688 1,600.00 12.51 211.348 1,694.72 -54.08 -32.94 2,024,692.807 2,830,330.212 36.563682789 -107.4688 1,800.00 12.51 211.348 1,792.35 -72.58 -44.21 2,024,674.305 2,830,318.941 36.563632083 -107.4688 1,900.00 12.51 211.348 1,889.97 -91.09 -55.48 2,024,655.803 2,830,307.671 36.563581378 -107.4688 2,000.00 12.51 211.348 1,987.60 -109.59 -66.76 2,024,637.301 2,830,296.400 36.563530672 -107.4688 2,100.00 12.51 211.348 2,085.22 -128.09 -78.03 2,024,618.799 2,830,285.129 36.563479966 -107.4688 2,200.00 12.51 211.348 2,182.85 -146.59 -89.30 2,024,600.297 2,830,273.859 36.563479966 -107.4688 2,300.00 12.51 211.348 2,280.47 -166.09 -100.57 2,024,581.794 2,830,262.588 36.56337849 -107.4688 2,400.00 12.51 211.348 2,280.47 -166.09 -100.57 2,024,581.794 2,830,262.588 36.56337849 -107.4688 2,500.00 12.51 211.348 2,475.72 -202.10 -123.11 2,024,544.790 2,830,231.757 36.563277443 -107.4688 2,573.56 12.51 211.348 2,475.72 -202.10 -123.11 2,024,544.790 2,830,220.793 36.563479946 -107.4688 2,670.83 12.51 211.348 2,573.35 -220.60 -134.38 2,024,561.3180 2,830,231.757 36.56329844 -107.4688 2,670.83 12.51 211.348 2,573.35 -220.60 -134.38 2,024,562.288 2,830,228.777 36.563229844 -107.4688 2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,567.88 2,830,220.793 36.563179522 -107.4688 2,600.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,220.793 36.563175532 -107.4688 2,600.00 12.51 211.348 2,670.87 -252.10 -123.11 2,024,567.786 2,830,220.793 36.563190522 -107.4688 2,600.00 12.51 211.348 2,670.87 -252.10 -123.11 2,024,567.786 2,830,220.793 36.563190522 -107.4688 2,600.00 12.51 211.348 2,670.87 -252.10 -126.50 2,024,507.786 2,830,200.235 36.563125026 -	KOP Beg	gin 3°/100' buil	ild							
1,500.00 9.00 211.348 1,498.77 -20.08 -12.23 2,024,726.808 2,830,350.923 36.563775967 -107.4688 1,600.00 12.00 211.348 1,597.08 -35.64 -21.71 2,024,711.246 2,830,341.443 36.563733320 -107.4688 1,617.07 12.51 211.348 1,613.76 -38.74 -23.60 2,024,708.151 2,830,339.558 36.563724838 -107.4688 1,617.07 12.51 211.348 1,613.76 -38.74 -23.60 2,024,692.807 2,830,339.558 36.563724838 -107.4688 1,800.00 12.51 211.348 1,694.72 -54.08 -32.94 2,024,692.807 2,830,330.212 36.563682789 -107.4688 1,800.00 12.51 211.348 1,792.35 -72.58 -44.21 2,024,674.305 2,830,318.941 36.563632083 -107.4688 1,900.00 12.51 211.348 1,889.97 -91.09 -55.48 2,024,655.803 2,830,307.671 36.5636581378 -107.4688 2,000.00 12.51 211.348 1,987.60 -109.59 -66.76 2,024,637.301 2,830,296.400 36.563530672 -107.4688 2,100.00 12.51 211.348 2,085.22 -128.09 -78.03 2,024,618.799 2,830,255.129 36.563479966 -107.4688 2,200.00 12.51 211.348 2,182.85 -146.59 -89.30 2,024,600.297 2,830,251.39 36.563429261 -107.4688 2,300.00 12.51 211.348 2,182.85 -146.59 -89.30 2,024,600.297 2,830,251.38 36.563327849 -107.4688 2,400.00 12.51 211.348 2,378.10 -183.60 -111.84 2,024,563.292 2,830,251.318 36.563327849 -107.4688 2,573.56 12.51 211.348 2,475.72 -202.10 -123.11 2,024,544.790 2,830,231.757 36.56327984 -107.4688 2,573.56 12.51 211.348 2,475.72 -202.10 -123.11 2,024,531.180 2,830,231.757 36.56329844 -107.4688 2,573.56 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.563229844 -107.4688 2,573.56 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.563226437 -107.4688 2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,531.180 2,830,220.793 36.563190522 -107.4688 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,531.813 2,830,200.235 36.563125026 -107.4688 2,600.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563175732 -107.4688 2,600.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.4688 2,600.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026	1,300.00	3.00	211.348	1,299.95	-2.24	-1.36	2,024,744.653	2,830,361.794	36.563824874	-107.468056666
1,600.00 12.00 211.348 1,597.08 -35.64 -21.71 2,024,711.246 2,830,341.443 36.563733320 -107.468 1,617.07 12.51 211.348 1,613.76 -38.74 -23.60 2,024,708.151 2,830,339.558 36.563724838 -107.468 1,617.07 12.51 211.348 1,694.72 -54.08 -32.94 2,024,692.807 2,830,330.212 36.563682789 -107.468 1,800.00 12.51 211.348 1,899.79 -91.09 -55.48 2,024,655.803 2,830,330.7671 36.563581378 -107.468 1,900.00 12.51 211.348 1,889.97 -91.09 -55.48 2,024,655.803 2,830,307.671 36.563581378 -107.468 1,900.00 12.51 211.348 1,987.60 -109.59 -66.76 2,024,637.301 2,830,292.400 36.563530672 -107.468 1,900.00 12.51 211.348 2,085.22 -128.09 -78.03 2,024,618.799 2,830,285.129 36.563479966 -107.468 1,900.00 12.51 211.348 2,280.47 -165.09 -78.03 2,024,618.799 2,830,285.129 36.563429261 -107.468 1,900.00 12.51 211.348 2,280.47 -165.09 -100.57 -2,024,581.794 2,830,262.588 36.563378555 -107.468 1,900.00 12.51 211.348 2,378.10 -183.60 -111.84 2,024,563.292 2,830,251.318 36.563327849 -107.468 1,900.00 12.51 211.348 2,475.72 -202.10 -123.11 2,024,541.790 2,830,240.047 36.563277143 -107.468 1,900.00 12.51 211.348 2,475.72 -202.10 -123.11 2,024,541.790 2,830,240.047 36.563277143 -107.468 1,900.00 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.563226437 -107.468 1,900.00 12.51 211.348 2,573.35 -220.60 -134.38 2,024,526.288 2,830,228.777 36.563226437 -107.468 1,900.00 12.51 211.348 2,670.97 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,513.183 2,830,220.733 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.468 1,900.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.468	1,400.00	6.00	211.348	1,399.63	-8.94	-5.44	2,024,737.954	2,830,357.712	36.563806513	-107.468070650
1,617.07 12.51 211.348	1,500.00	9.00	211.348	1,498.77	-20.08	-12.23	2,024,726.808	2,830,350.923	36.563775967	-107.468093913
Regin 12.51° tangent	1,600.00	12.00	211.348	1,597.08	-35.64	-21.71	2,024,711.246	2,830,341.443	36.563733320	-107.468126393
1,700.00 12.51 211.348 1,694.72 -54.08 -32.94 2,024,692.807 2,830,330.212 36.563682789 -107.468 1,800.00 12.51 211.348 1,792.35 -72.58 -44.21 2,024,674.305 2,830,318.941 36.563632083 -107.468 1,900.00 12.51 211.348 1,889.97 -91.09 -55.48 2,024,655.803 2,830,307.671 36.563581378 -107.468 2,000.00 12.51 211.348 1,987.60 -109.59 -66.76 2,024,637.301 2,830,296.400 36.563530672 -107.468 2,100.00 12.51 211.348 2,085.22 -128.09 -78.03 2,024,618.799 2,830,285.129 36.563479966 -107.468 2,200.00 12.51 211.348 2,182.85 -146.59 -89.30 2,024,600.297 2,830,273.859 36.563429261 -107.468 2,300.00 12.51 211.348 2,280.47 -165.09 -100.57 2,024,581.794 2,830,262.588 36.563327849 -107.468 2,400.00 12.51 211.348 2,378.10 -183.60 -111.84 2,024,563.292 2,830,251.318 36.563327849 -107.468 2,500.00 12.51 211.348 2,475.72 -202.10 -123.11 2,024,544.790 2,830,240.047 36.563277143 -107.468 2,573.56 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.56329844 -107.468 2,600.00 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.56329844 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.468 2,600.00 12.51 211.348 2,642.50 -233.71 -142.36 2,024,507.786 2,830,217.506 36.563175732 -107.468 2,800.00 12.51 211.348 2,642.50 -233.71 -145.65 2,024,507.786 2,830,217.506 36.563125026 -107.468 2,800.00 12.51 211.348 2,660.00 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.468 2,800.00 12.51 211.348 2,660.00 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.468 2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.468	1,617.07	12.51	211.348	1,613.76	-38.74	-23.60	2,024,708.151	2,830,339.558	36.563724838	-107.468132853
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2,573.56 12.51 211.348 2,547.54 -215.71 -131.40 2,024,531.180 2,830,231.757 36.563239844 -107.4683 Ojo Alamo 2,600.00 12.51 211.348 2,573.35 -220.60 -134.38 2,024,526.288 2,830,228.777 36.563226437 -107.4683 2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.4683 Kirtland 2,700.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563175732 -107.4683 2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.4683										-107.468473812
Ojo Alamo 2,600.00 12.51 211.348 2,573.35 -220.60 -134.38 2,024,526.288 2,830,228.777 36.563226437 -107.4688 2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.4688 Kirtland 2,700.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563175732 -107.4688 2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.4688										-107.468502218
2,600.00 12.51 211.348 2,573.35 -220.60 -134.38 2,024,526.288 2,830,228.777 36.563226437 -107.4688 2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.4688							, ,			
2,670.83 12.51 211.348 2,642.50 -233.71 -142.36 2,024,513.183 2,830,220.793 36.563190522 -107.4688 Kirtland 2,700.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563175732 -107.4688 2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.4688	-		211.348	2,573.35	-220.60	-134.38	2,024,526.288	2,830,228.777	36.563226437	-107.468512428
2,700.00 12.51 211.348 2,670.97 -239.10 -145.65 2,024,507.786 2,830,217.506 36.563175732 -107.4688 2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.4688	2,670.83	12.51	211.348	2,642.50	-233.71	-142.36	2,024,513.183		36.563190522	-107.468539781
2,800.00 12.51 211.348 2,768.60 -257.61 -156.92 2,024,489.284 2,830,206.235 36.563125026 -107.4688	Kirtland									
	2,700.00	12.51	211.348	2,670.97	-239.10	-145.65	2,024,507.786	2,830,217.506	36.563175732	-107.468551045
	2,800.00			2,768.60			2,024,489.284	2,830,206.235	36.563125026	-107.468589661
2,900.00 12.51 211.348 2,866.22 -276.11 -168.19 2,024,470.781 2,830,194.965 36.563074320 -107.4680	2,900.00	12.51	211.348	2,866.22	-276.11	-168.19	2,024,470.781	2,830,194.965	36.563074320	-107.468628278
2,957.53 12.51 211.348 2,922.38 -286.75 -174.67 2,024,460.138 2,830,188.481 36.563045151 -107.4680	2,957.53	12.51	211.348	2,922.38	-286.75	-174.67	2,024,460.138	2,830,188.481	36.563045151	-107.468650492
Fruitland										
										-107.468666894
										-107.468705510
										-107.468744127 -107.468751318
			Z11.340	5,177.20	-555.00	-204.10	2,024,411.029	2,000,109.004	30.302812700	-107.400731310
Pictured Cliffs 3,300.00 12.51 211.348 3,256.72 -350.12 -213.27 2,024,396.773 2,830,149.883 36.562871497 -107.468°			211 348	3 256 72	-350 12	-213 27	2 024 396 773	2 830 149 883	36 562871497	-107.468782743
										-107.468821359
	,									-107.468856098
Lewis							, , , , , , ,			
		12.51	211.348	3,451.97	-387.12	-235.81	2,024,359.768	2,830,127.341	36.562770085	-107.468859975
				,						-107.468898591
										-107.468937207



Planning Report - Geographic

Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

leasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
									_
3,797.13	12.51	211.348	3,742.05	-442.10	-269.30	2,024,304.793	2,830,093.853	36.562619421	-107.46897
Chacra_		244 240	2 744 05	440.60	260.62	2 024 204 262	2 920 002 520	26 562647067	107 46907
3,800.00	12.51	211.348	3,744.85	-442.63	-269.63	2,024,304.262	2,830,093.530	36.562617967	-107.46897
3,900.00	12.51	211.348	3,842.47	-461.13	-280.90	2,024,285.760	2,830,082.259	36.562567261	-107.46901
4,000.00	12.51	211.348	3,940.10	-479.63	-292.17	2,024,267.258	2,830,070.989	36.562516555	-107.46905
4,100.00	12.51	211.348	4,037.72	-498.13	-303.44	2,024,248.756	2,830,059.718	36.562465849	-107.46909
4,200.00	12.51	211.348	4,135.35	-516.64	-314.71	2,024,230.253	2,830,048.447	36.562415143	-107.46913
4,300.00	12.51	211.348	4,232.97	-535.14	-325.98	2,024,211.751	2,830,037.177	36.562364437	-107.46916
4,400.00	12.51	211.348	4,330.60	-553.64	-337.25	2,024,193.249	2,830,025.906	36.562313731	-107.46920
4,500.00	12.51	211.348	4,428.22	-572.14	-348.52	2,024,174.747	2,830,014.636	36.562263025	-107.46924
4,600.00	12.51	211.348	4,525.85	-590.65	-359.79	2,024,156.245	2,830,003.365	36.562212319	-107.46928
4,700.00	12.51	211.348	4,623.47	-609.15	-371.06	2,024,137.743	2,829,992.095	36.562161613	-107.46932
4,800.00	12.51	211.348	4,721.10	-627.65	-382.33	2,024,119.240	2,829,980.824	36.562110907	-107.46936
4,900.00	12.51	211.348	4,818.72	-646.15	-393.60	2,024,100.738	2,829,969.553	36.562060201	-107.46940
4,928.55	12.51	211.348	4,846.60	-651.43	-396.82	2,024,095.455	2,829,966.335	36.562045723	-107.46941
Cliff Hou	ise								
5,000.00	12.51	211.348	4,916.35	-664.65	-404.87	2,024,082.236	2,829,958.283	36.562009495	-107.46943
5,056.54	12.51	211.348	4,971.55	-675.12	-411.25	2,024,071.775	2,829,951.910	36.561980825	-107.46946
Menefee									
5,100.00	12.51	211.348	5,013.97	-683.16	-416.14	2,024,063.734	2,829,947.012	36.561958789	-107.46947
5,200.00	12.51	211.348	5,111.60	-701.66	-427.41	2,024,045.232	2,829,935.742	36.561908082	-107.46951
5,200.00	12.51	211.348	5,113.00	-701.80	-428.73	2,024,043.071	2,829,934.425	36.561902161	-107.46952
		211.040	3,123.00	-700.02	-420.73	2,024,045.071	2,020,004.420	30.301302101	-107.40932
9 5/8" Cs	•	044.040	5 000 00	700.40	400.00	0.004.000.700	0.000.004.474	00 504057070	407 40055
5,300.00	12.51	211.348	5,209.22	-720.16	-438.68	2,024,026.730	2,829,924.471	36.561857376	-107.46955
5,400.00	12.51	211.348	5,306.85	-738.66	-449.96	2,024,008.227	2,829,913.201	36.561806670	-107.46959
5,500.00	12.51	211.348	5,404.47	-757.16	-461.23	2,023,989.725	2,829,901.930	36.561755964	-107.46963
5,501.94	12.51	211.348	5,406.37	-757.52	-461.45	2,023,989.366	2,829,901.711	36.561754979	-107.46963
Point Lo									
5,600.00	12.51	211.348	5,502.10	-775.67	-472.50	2,023,971.223	2,829,890.659	36.561705258	-107.46967
5,700.00	12.51	211.348	5,599.72	-794.17	-483.77	2,023,952.721	2,829,879.389	36.561654552	-107.46970
5,787.36	12.51	211.348	5,685.01	-810.33	-493.61	2,023,936.558	2,829,869.543	36.561610257	-107.46974
Begin 3°	/100' drop								
5,800.00	12.13	211.348	5,697.36	-812.64	-495.02	2,023,934.254	2,829,868.140	36.561603941	-107.46974
5,900.00	9.13	211.348	5,795.63	-828.39	-504.61	2,023,918.497	2,829,858.542	36.561560760	-107.46978
5,920.83	8.51	211.348	5,816.21	-831.12	-506.28	2,023,915.770	2,829,856.880	36.561553285	-107.46978
Mancos									
6,000.00	6.13	211.348	5,894.73	-839.74	-511.52	2,023,907.155	2,829,851.633	36.561529676	-107.46980
6,100.00	3.13	211.348	5,994.39	-846.63	-515.73	2,023,900.258	2,829,847.431	36.561510774	-107.46981
6,204.43	0.00	0.000	6,098.77	-849.07	-517.21	2,023,897.820	2,829,845.946	36.561504094	-107.46982
	ertical hold		.,			, , , , , , , , , , , , , , , , , , , ,	,,		
6,300.00	0.00	0.000	6,194.34	-849.07	-517.21	2,023,897.820	2,829,845.946	36.561504094	-107.46982
6,331.05	0.00	0.000	6,225.39	-849.07	-517.21 -517.21	2,023,897.820	2,829,845.946	36.561504094	-107.46982
		0.000	0,220.09	-0+3.01	-517.21	2,020,031.020	2,020,040.040	30.301304034	-107.40302
_)°/100' build	00.554	0.044.04	040.07	F40.00	0.000.007.000	0.000.040.000	20 504504007	407 40000
6,350.00	1.90	89.551	6,244.34	-849.07	-516.90	2,023,897.823	2,829,846.260	36.561504097	-107.46982
6,400.00	6.90	89.551	6,294.18	-849.04	-513.07	2,023,897.853	2,829,850.090	36.561504140	-107.46980
6,450.00	11.90	89.551	6,343.49	-848.97	-504.91	2,023,897.917	2,829,858.249	36.561504231	-107.46978
6,478.52	14.75	89.551	6,371.24	-848.92	-498.34	2,023,897.968	2,829,864.820	36.561504304	-107.46975
Gallup (I	MNCS_A)								
6,500.00	16.90	89.551	6,391.90	-848.88	-492.48	2,023,898.014	2,829,870.675	36.561504369	-107.46973
6,550.00	21.90	89.551	6,439.05	-848.75	-475.88	2,023,898.144	2,829,887.274	36.561504554	-107.46968



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
6,600.00	26.90	89.551	6,484.57	-848.58	-455.24	2,023,898.306	2,829,907.918	36.561504784	-107.469613075
6,650.00	31.90	89.551	6,528.12	-848.39	-430.71	2,023,898.498	2,829,932.451	36.561505057	-107.469529537
6,678.01	34.70	89.551	6,551.53	-848.27	-415.33	2,023,898.619	2,829,947.823	36.561505229	-107.469477193
MNCS_0		00 EE1	6 560 27	040 47	402.47	2 022 000 720	2 920 060 696	26 564505272	107.460422202
6,700.00 6,750.00	36.90 41.90	89.551 89.551	6,569.37 6,607.99	-848.17 -847.92	-402.47 -370.75	2,023,898.720 2,023,898.968	2,829,960.686 2,829,992.408	36.561505372 36.561505725	-107.469433393 -107.469325374
6,779.95	44.89	89.551	6,629.76	-847.76	-350.17	2,023,899.129	2,830,012.981	36.561505954	-107.469255319
MNCS_E		03.331	0,023.70	-047.70	-550.17	2,023,033.123	2,000,012.901	30.301303334	-107.409255519
6,800.00	46.90	89.551	6,643.71	-847.65	-335.78	2,023,899.242	2,830,027.376	36.561506114	-107.469206304
6,850.00	51.90	89.551	6,676.24	-847.35	-297.83	2,023,899.540	2,830,065.324	36.561506536	-107.469077087
6,894.05	56.30	89.551	6,702.06	-847.07	-262.16	2,023,899.819	2,830,100.991	36.561506933	-107.468955634
MNCS F									
6,900.00	56.90	89.551	6,705.34	-847.03	-257.19	2,023,899.858	2,830,105.962	36.561506988	-107.468938708
6,931.05	60.00	89.551	6,721.59	-846.83	-230.74	2,023,900.065	2,830,132.416	36.561507282	-107.468848628
Begin 60	0.00° tangent								
6,991.05	60.00	89.551	6,751.59	-846.42	-178.78	2,023,900.473	2,830,184.376	36.561507860	-107.468671698
Begin 10)°/100' build								
7,000.00	60.90	89.551	6,756.00	-846.36	-170.99	2,023,900.534	2,830,192.163	36.561507946	-107.468645182
7,013.49	62.24	89.551	6,762.42	-846.26	-159.13	2,023,900.627	2,830,204.024	36.561508078	-107.468604793
MNCS_C	•								
7,050.00	65.90	89.551	6,778.39	-846.01	-126.30	2,023,900.884	2,830,236.853	36.561508443	-107.468493006
7,087.76	69.67	89.551	6,792.66	-845.73	-91.36	2,023,901.158	2,830,271.798	36.561508831	-107.468374011
	G_Ash - G_As								
7,100.00	70.90	89.551	6,796.79	-845.64	-79.83	2,023,901.248	2,830,283.324	36.561508959	-107.468334765
7,137.23	74.62	89.551	6,807.82	-845.36	-44.28	2,023,901.526	2,830,318.871	36.561509353	-107.468213721
MNCS_F							/		
7,150.00	75.90	89.551	6,811.07	-845.27	-31.93	2,023,901.623	2,830,331.222	36.561509490	-107.468171665
7,200.00	80.90	89.551	6,821.13	-844.88	17.03	2,023,902.007	2,830,380.183	36.561510033	-107.468004947
7,250.00 7,289.06	85.90 89.80	89.551 89.551	6,826.88 6,828.34	-844.49 -844.19	66.68 105.70	2,023,902.396 2,023,902.701	2,830,429.834 2,830,468.854	36.561510583 36.561511015	-107.467835879 -107.467703009
	09.00 0.80° lateral	09.551	0,020.54	-044.13	103.70	2,023,902.701	2,030,400.034	30.301311013	-107.407703009
7,300.00	89.80	89.551	6,828.38	-844.10	116.64	2,023,902.787	2,830,479.797	36.561511136	-107.467665747
7,400.00	89.80	89.551	6,828.73	-843.32	216.64	2,023,903.570	2,830,579.793	36.561512243	-107.467325246
7,500.00	89.80	89.551	6,829.08	-842.54	316.63	2,023,904.353	2,830,679.789	36.561513348	-107.466984745
7,600.00	89.80	89.551	6,829.43	-841.75	416.63	2,023,905.136	2,830,779.785	36.561514453	-107.466644244
7,700.00	89.80	89.551	6,829.77	-840.97	516.63	2,023,905.920	2,830,879.781	36.561515556	-107.466303743
7,800.00	89.80	89.551	6,830.12	-840.19	616.62	2,023,906.703	2,830,979.777	36.561516659	-107.465963243
7,900.00	89.80	89.551	6,830.47	-839.40	716.62	2,023,907.486	2,831,079.773	36.561517761	-107.465622742
8,000.00	89.80	89.551	6,830.82	-838.62	816.62	2,023,908.269	2,831,179.770	36.561518861	-107.465282241
8,100.00	89.80	89.551	6,831.16	-837.84	916.61	2,023,909.052	2,831,279.766	36.561519961	-107.464941740
8,200.00	89.80	89.551	6,831.51	-837.06	1,016.61	2,023,909.835	2,831,379.762	36.561521060	-107.464601239
8,300.00	89.80	89.551	6,831.86	-836.27	1,116.61	2,023,910.618	2,831,479.758	36.561522157	-107.464260738
8,400.00	89.80	89.551	6,832.21	-835.49 -834.71	1,216.60	2,023,911.402	2,831,579.754	36.561523254 36.561524350	-107.463920237
8,500.00 8,600.00	89.80 89.80	89.551 89.551	6,832.55 6,832.90	-833.92	1,316.60 1,416.59	2,023,912.185 2,023,912.968	2,831,679.750 2,831,779.747	36.561525445	-107.463579736 -107.463239235
8,700.00	89.80	89.551	6,833.25	-833.14	1,516.59	2,023,913.751	2,831,879.747	36.561526539	-107.462898734
8,800.00	89.80	89.551	6,833.60	-832.36	1,616.59	2,023,914.534	2,831,979.740	36.561527632	-107.462558233
8,900.00	89.80	89.551	6,833.94	-831.57	1,716.58	2,023,915.317	2,832,079.736	36.561528723	-107.462217732
9,000.00	89.80	89.551	6,834.29	-830.79	1,816.58	2,023,916.101	2,832,179.732	36.561529814	-107.461877231
9,100.00	89.80	89.551	6,834.64	-830.01	1,916.58	2,023,916.884	2,832,279.728	36.561530904	-107.461536730
9,200.00	89.80	89.551	6,834.99	-829.22	2,016.57	2,023,917.667	2,832,379.724	36.561531993	-107.461196229
9,300.00	89.80	89.551	6,835.33	-828.44	2,116.57	2,023,918.450	2,832,479.720	36.561533081	-107.460855728
9,400.00	89.80	89.551	6,835.68	-827.66	2,216.56	2,023,919.233	2,832,579.716	36.561534168	-107.460515227



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,500.00	89.80	89.551	6,836.03	-826.87	2,316.56	2,023,920.016	2,832,679.712	36.561535255	-107.460174726
9,600.00	89.80	89.551	6,836.38	-826.09	2,416.56	2,023,920.800	2,832,779.709	36.561536340	-107.459834225
9,700.00	89.80	89.551	6,836.72	-825.31	2,516.55	2,023,921.583	2,832,879.705	36.561537424	-107.459493724
9,800.00	89.80	89.551	6,837.07	-824.52	2,616.55	2,023,922.366	2,832,979.701	36.561538507	-107.459153223
9,900.00	89.80	89.551	6,837.42	-823.74	2,716.55	2,023,923.149	2,833,079.697	36.561539589	-107.458812722
10,000.00	89.80	89.551	6,837.77	-822.96	2,816.54	2,023,923.932	2,833,179.693	36.561540670	-107.458472221
10,100.00	89.80	89.551	6,838.11	-822.18	2,916.54	2,023,924.715	2,833,279.689	36.561541751	-107.458131721
10,200.00	89.80	89.551	6,838.46	-821.39	3,016.54	2,023,925.499	2,833,379.685	36.561542830	-107.457791220
10,300.00 10,400.00	89.80 89.80	89.551 89.551	6,838.81 6,839.16	-820.61 -819.83	3,116.53 3,216.53	2,023,926.282 2,023,927.065	2,833,479.681	36.561543908	-107.457450719 -107.457110218
10,500.00	89.80	89.551	6,839.50	-819.04	3,316.52	2,023,927.848	2,833,579.678 2,833,679.674	36.561544985 36.561546062	-107.456769717
10,600.00	89.80	89.551	6,839.85	-818.26	3,416.52	2,023,928.631	2,833,779.670	36.561547137	-107.456429216
10,700.00	89.80	89.551	6,840.20	-817.48	3,516.52	2,023,929.414	2,833,879.666	36.561548212	-107.456088715
10,800.00	89.80	89.551	6,840.55	-816.69	3,616.51	2,023,930.197	2,833,979.662	36.561549285	-107.455748214
10,900.00	89.80	89.551	6,840.89	-815.91	3,716.51	2,023,930.981	2,834,079.658	36.561550357	-107.455407713
11,000.00	89.80	89.551	6,841.24	-815.13	3,816.51	2,023,931.764	2,834,179.654	36.561551429	-107.455067212
11,100.00	89.80	89.551	6,841.59	-814.34	3,916.50	2,023,932.547	2,834,279.650	36.561552499	-107.454726711
11,200.00	89.80	89.551	6,841.94	-813.56	4,016.50	2,023,933.330	2,834,379.647	36.561553569	-107.454386210
11,300.00	89.80	89.551	6,842.29	-812.78	4,116.50	2,023,934.113	2,834,479.643	36.561554638	-107.454045709
11,400.00	89.80	89.551	6,842.63	-811.99	4,216.49	2,023,934.896	2,834,579.639	36.561555705	-107.453705208
11,500.00	89.80	89.551	6,842.98	-811.21	4,316.49	2,023,935.680	2,834,679.635	36.561556772	-107.453364707
11,600.00	89.80	89.551	6,843.33	-810.43	4,416.48	2,023,936.463	2,834,779.631	36.561557837	-107.453024206
11,700.00	89.80	89.551	6,843.68	-809.64	4,516.48	2,023,937.246	2,834,879.627	36.561558902	-107.452683705
11,800.00	89.80	89.551	6,844.02	-808.86	4,616.48	2,023,938.029	2,834,979.623	36.561559966	-107.452343204
11,900.00	89.80	89.551	6,844.37	-808.08	4,716.47	2,023,938.812	2,835,079.619	36.561561028	-107.452002703
12,000.00	89.80	89.551	6,844.72	-807.29	4,816.47	2,023,939.595	2,835,179.616	36.561562090	-107.451662202
12,100.00	89.80	89.551	6,845.07	-806.51	4,916.47	2,023,940.379	2,835,279.612	36.561563151	-107.451321701
12,200.00	89.80	89.551	6,845.41	-805.73	5,016.46	2,023,941.162	2,835,379.608	36.561564211	-107.450981200
12,300.00	89.80	89.551	6,845.76	-804.95	5,116.46	2,023,941.945	2,835,479.604	36.561565270	-107.450640699
12,400.00	89.80	89.551	6,846.11	-804.16	5,216.45	2,023,942.728	2,835,579.600	36.561566328	-107.450300198
12,500.00	89.80	89.551	6,846.46	-803.38	5,316.45	2,023,943.511	2,835,679.596	36.561567384	-107.449959697
12,600.00	89.80	89.551	6,846.80	-802.60	5,416.45	2,023,944.294	2,835,779.592	36.561568440	-107.449619196
12,700.00	89.80	89.551	6,847.15	-801.81	5,516.44	2,023,945.077	2,835,879.588	36.561569495	-107.449278695
12,800.00	89.80	89.551	6,847.50	-801.03	5,616.44	2,023,945.861	2,835,979.585	36.561570549	-107.448938194
12,900.00	89.80	89.551	6,847.85	-800.25	5,716.44	2,023,946.644	2,836,079.581	36.561571602	-107.448597693
13,000.00	89.80	89.551	6,848.19 6,848.54	-799.46	5,816.43	2,023,947.427	2,836,179.577	36.561572654	-107.448257192
13,100.00 13,200.00	89.80 89.80	89.551 89.551	6,848.89	-798.68 -797.90	5,916.43 6,016.43	2,023,948.210 2,023,948.993	2,836,279.573 2,836,379.569	36.561573705 36.561574756	-107.447916691 -107.447576190
13,300.00	89.80	89.551	6,849.24	-797.90 -797.11	6,116.42	2,023,949.776	2,836,479.565	36.561575805	-107.447235689
13,400.00	89.80	89.551	6,849.58	-796.33	6,216.42	2,023,950.560	2,836,579.561	36.561576853	-107.446895188
13,500.00	89.80	89.551	6,849.93	-795.55	6,316.41	2,023,951.343	2,836,679.557	36.561577900	-107.446554687
13,600.00	89.80	89.551	6,850.28	-794.76	6,416.41	2,023,952.126	2,836,779.554	36.561578946	-107.446214186
13,700.00	89.80	89.551	6,850.63	-793.98	6,516.41	2,023,952.909	2,836,879.550	36.561579991	-107.445873685
13,800.00	89.80	89.551	6,850.97	-793.20	6,616.40	2,023,953.692	2,836,979.546	36.561581036	-107.445533184
13,900.00	89.80	89.551	6,851.32	-792.41	6,716.40	2,023,954.475	2,837,079.542	36.561582079	-107.445192683
14,000.00	89.80	89.551	6,851.67	-791.63	6,816.40	2,023,955.259	2,837,179.538	36.561583121	-107.444852182
14,100.00	89.80	89.551	6,852.02	-790.85	6,916.39	2,023,956.042	2,837,279.534	36.561584163	-107.444511681
14,200.00	89.80	89.551	6,852.36	-790.07	7,016.39	2,023,956.825	2,837,379.530	36.561585203	-107.444171180
14,300.00	89.80	89.551	6,852.71	-789.28	7,116.38	2,023,957.608	2,837,479.526	36.561586242	-107.443830679
14,400.00	89.80	89.551	6,853.06	-788.50	7,216.38	2,023,958.391	2,837,579.523	36.561587281	-107.443490178
14,500.00	89.80	89.551	6,853.41	-787.72	7,316.38	2,023,959.174	2,837,679.519	36.561588318	-107.443149677
14,600.00	89.80	89.551	6,853.75	-786.93	7,416.37	2,023,959.957	2,837,779.515	36.561589355	-107.442809176
14,700.00	89.80	89.551	6,854.10	-786.15	7,516.37	2,023,960.741	2,837,879.511	36.561590390	-107.442468675
14,800.00	89.80	89.551	6,854.45	-785.37	7,616.37	2,023,961.524	2,837,979.507	36.561591425	-107.442128174



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Design.									
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
14,900.00	89.80	89.551	6,854.80	-784.58	7,716.36	2,023,962.307	2,838,079.503	36.561592458	-107.441787673
15,000.00	89.80	89.551	6,855.14	-783.80	7,816.36	2,023,963.090	2,838,179.499	36.561593491	-107.441447172
15,100.00	89.80	89.551	6,855.49	-783.02	7,916.36	2,023,963.873	2,838,279.495	36.561594522	-107.441106671
15,200.00	89.80	89.551	6,855.84	-782.23	8,016.35	2,023,964.656	2,838,379.492	36.561595553	-107.440766170
15,300.00	89.80	89.551	6,856.19	-781.45	8,116.35	2,023,965.440	2,838,479.488	36.561596583	-107.440425669
15,400.00	89.80	89.551	6,856.54	-780.67	8,216.34	2,023,966.223	2,838,579.484	36.561597611	-107.440085168
15,500.00	89.80	89.551	6,856.88	-779.88	8,316.34	2,023,967.006	2,838,679.480	36.561598639	-107.439744667
15,600.00	89.80	89.551	6,857.23	-779.10	8,416.34	2,023,967.789	2,838,779.476	36.561599666	-107.439404166
15,700.00	89.80	89.551	6,857.58	-778.32	8,516.33	2,023,968.572	2,838,879.472	36.561600692	-107.439063665
15,800.00	89.80	89.551	6,857.93	-777.53	8,616.33	2,023,969.355	2,838,979.468	36.561601716	-107.438723164
15,900.00	89.80	89.551	6,858.27	-776.75	8,716.33	2,023,970.139	2,839,079.464	36.561602740	-107.438382663
16,000.00	89.80	89.551	6,858.62	-775.97	8,816.32	2,023,970.922	2,839,179.461	36.561603763	-107.438042162
16,100.00	89.80	89.551	6,858.97	-775.19	8,916.32	2,023,971.705	2,839,279.457	36.561604785	-107.437701661
16,200.00	89.80	89.551	6,859.32	-774.40	9,016.32	2,023,972.488	2,839,379.453	36.561605806	-107.437361160
16,300.00	89.80	89.551	6,859.66	-773.62	9,116.31	2,023,973.271	2,839,479.449	36.561606826	-107.437020659
16,400.00	89.80	89.551	6,860.01	-772.84	9,216.31	2,023,974.054	2,839,579.445	36.561607845	-107.436680158
16,500.00	89.80	89.551	6,860.36	-772.05	9,316.30	2,023,974.837	2,839,679.441	36.561608863	-107.436339657
16,600.00	89.80	89.551	6,860.71	-771.27	9,416.30	2,023,975.621	2,839,779.437	36.561609880	-107.435999157
16,700.00	89.80	89.551	6,861.05	-770.49	9,516.30	2,023,976.404	2,839,879.433	36.561610896	-107.435658656
16,800.00	89.80	89.551	6,861.40	-769.70	9,616.29	2,023,977.187	2,839,979.430	36.561611911	-107.435318155
16,900.00	89.80	89.551	6,861.75	-768.92	9,716.29	2,023,977.970	2,840,079.426	36.561612925	-107.434977655
17,000.00	89.80	89.551	6,862.10	-768.14	9,816.29	2,023,978.753	2,840,179.422	36.561613938	-107.434637154
17,100.00	89.80	89.551	6,862.44	-767.35	9,916.28	2,023,979.536	2,840,279.418	36.561614950	-107.434296653
17,200.00	89.80	89.551	6,862.79	-766.57	10,016.28	2,023,980.320	2,840,379.414	36.561615962	-107.433956152
17,300.00	89.80	89.551	6,863.14	-765.79	10,116.27	2,023,981.103	2,840,479.410	36.561616972	-107.433615651
17,400.00	89.80	89.551	6,863.49	-765.00	10,216.27	2,023,981.886	2,840,579.406	36.561617981	-107.433275150
17,500.00	89.80	89.551	6,863.83	-764.22	10,316.27	2,023,982.669	2,840,679.402	36.561618989	-107.432934649
17,600.00	89.80	89.551	6,864.18	-763.44	10,416.26	2,023,983.452	2,840,779.399	36.561619997	-107.432594148
17,700.00	89.80	89.551	6,864.53	-762.65	10,516.26	2,023,984.235	2,840,879.395	36.561621003	-107.432253647
17,800.00	89.80	89.551	6,864.88	-761.87	10,616.26	2,023,985.019	2,840,979.391	36.561622008	-107.431913146
17,900.00	89.80	89.551	6,865.22	-761.09	10,716.25	2,023,985.802	2,841,079.387	36.561623013	-107.431572645
18,000.00	89.80	89.551	6,865.57	-760.31	10,816.25	2,023,986.585	2,841,179.383	36.561624016	-107.431232144
18,100.00	89.80	89.551	6,865.92	-759.52	10,916.25	2,023,987.368	2,841,279.379	36.561625019	-107.430891643
18,200.00	89.80	89.551	6,866.27	-758.74	11,016.24	2,023,988.151	2,841,379.375	36.561626020	-107.430551142
18,300.00	89.80	89.551	6,866.61	-757.96	11,116.24	2,023,988.934	2,841,479.371	36.561627021	-107.430210641
18,400.00	89.80	89.551	6,866.96	-757.17	11,216.23	2,023,989.718	2,841,579.368	36.561628020	-107.429870140
18,500.00	89.80	89.551	6,867.31	-756.39	11,316.23	2,023,990.501	2,841,679.364	36.561629019	-107.429529639
18,600.00	89.80	89.551	6,867.66	-755.61	11,416.23	2,023,991.284	2,841,779.360	36.561630016	-107.429189138
18,698.72	89.80	89.551	6,868.00	-754.83	11,514.94	2,023,992.057	2,841,878.074	36.561631000	-107.428853000
PBHL/TD	@ 18698.72	MD 6868.00 1	TVD						



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

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 817 vert r1 - plan hits target cei - Point	0.00 nter	0.000	6,225.39	-849.07	-517.21	2,023,897.820	2,829,845.946	36.561504094	-107.469824098
Rincon 817 VS=0 r1 - plan misses target - Point	0.00 center by 8.51	0.000 Ift at 7191.18	6,828.00 Bft MD (6819.	-844.97 .67 TVD, -844	6.62 I.95 N, 8.33 E	2,023,901.920	2,830,369.775	36.561509904	-107.468040386
Rincon 817 FTP 2033 F - plan misses target - Point		0.000 Ift at 7289.0	6,828.34 6ft MD (6828.	-844.19 .34 TVD, -844	105.70 I.19 N, 105.70	2,023,902.696) E)	2,830,468.856	36.561511000	-107.467703000
Rincon 817 BHL 2030 F - plan hits target cer - Point		0.000	6,868.00	-754.83	11,514.94	2,023,992.057	2,841,878.074	36.561631000	-107.428853000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 5,211.68	350.00 5,123.00	13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	

ormations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,573.56	2,547.54	Ojo Alamo		0.20	89.580
	2,670.83	2,642.50	Kirtland		0.20	89.580
	2,957.53	2,922.38	Fruitland		0.20	89.580
	3,218.62	3,177.28	Pictured Cliffs		0.20	89.580
	3,489.96	3,442.17	Lewis		0.20	89.580
	3,797.13	3,742.05	Chacra_A		0.20	89.580
	4,928.55	4,846.60	Cliff House		0.20	89.580
	5,056.54	4,971.55	Menefee		0.20	89.580
	5,501.94	5,406.37	Point Lookout		0.20	89.580
	5,920.83	5,816.21	Mancos		0.20	89.580
	6,478.52	6,371.24	Gallup (MNCS_A)		0.20	89.580
	6,596.43	6,481.38	MNCS_B		0.20	89.580
	6,678.01	6,551.53	MNCS_C		0.20	89.580
	6,779.95	6,629.76	MNCS_E		0.20	89.580
	6,894.05	6,702.06	MNCS_F		0.20	89.580
	7,013.49	6,762.42	MNCS_G		0.20	89.580
	7,087.76	6,792.66	MNCS_G_Ash		0.20	89.580
	7,087.76	6,792.66	G_Ash @ 0VS		0.20	89.580
	7,137.23	6,807.82	MNCS_H		0.20	89.580



Database: DB_Decv0422v16
Company: DB_Decv0422v16
Enduring Resources LLC

 Project:
 Rio Arriba County, New Mexico NAD83 NM W

 Site:
 Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Well: Rincon Unit 817H
Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build
1,617.07	1,613.76	-38.74	-23.60	Begin 12.51° tangent
5,787.36	5,685.01	-810.33	-493.61	Begin 3°/100' drop
6,204.43	6,098.77	-849.07	-517.21	Begin vertical hold
6,331.05	6,225.39	-849.07	-517.21	Begin 10°/100' build
6,931.05	6,721.59	-846.83	-230.74	Begin 60.00° tangent
6,991.05	6,751.59	-846.42	-178.78	Begin 10°/100' build
7,289.06	6,828.34	-844.19	105.70	Begin 89.80° lateral
18,698.72	6,868.00	-754.83	11,514.94	PBHL/TD @ 18698.72 MD 6868.00 TVD



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

Site Error: 0.00 ft

Rincon Unit 817H Reference Well: 0.00 ft Well Error: Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Well Rincon Unit 817H

North Reference: Grid

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Minimum Curvature

2.00 sigma DB Decv0422v16 Offset Datum

Reference rev1

Results Limited by:

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

18,698.72 rev1 (Original Hole)

Interpolation Method: MD Interval 100.00ft Depth Range:

Unlimited Maximum centre distance of 2,069.87ft

Warning Levels Evaluated at: 2.00 Sigma

ISCWSA Error Model:

Scan Method: Closest Approach 3D Error Surface: Ellipsoid Separation

Casing Method: Not applied

7/21/2023 Survey Tool Program Date

> From То

> > 0.00

(ft) Survey (Wellbore) (ft)

Tool Name

Description

MWD OWSG MWD - Standard

Gummary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Factor	Warning
Rincon pad (613, 615, 713, 715,815,817,915 & 917)						
Rincon Unit 613H - Original Hole - rev0 Rincon Unit 613H - Original Hole - rev0 Rincon Unit 615H - Original Hole - Surveys Original Hole Rincon Unit 615H - Original Hole - Surveys Original Hole Rincon Unit 615H - Original Hole - Surveys Original Hole Rincon Unit 713H - Original Hole - rev0 Rincon Unit 715H - Original Hole - Surveys Original Hole Rincon Unit 715H - Original Hole - Surveys Original Hole Rincon Unit 815H - Original Hole - rev1 Rincon Unit 815H - Original Hole - rev1 Rincon Unit 815H - Original Hole - rev1 Rincon Unit 915H - Original Hole - rev1	1,319.14 6,935.05 1,209.97 1,300.00 1,200.00 1,217.25 1,300.00 1,184.58 1,200.00 18,698.72 1,297.41 1,300.00 18,698.72	1,326.08 6,921.62 1,198.49 1,286.57 1,200.00 1,295.02 1,206.55 1,288.17 1,184.86 1,200.20 18,618.70 1,298.37 1,300.99 18,376.35	116.70 277.36 66.28 69.19 99.76 104.57 47.25 49.70 38.79 38.82 1,320.01 19.85 698.93	107.75 227.13 58.58 60.89 91.61 95.74 39.45 41.29 30.75 30.67 716.12 11.03 11.01 188.20	5.522 8.602 8.335 12.233 11.843 6.056 5.910 4.824 4.763 2.186 2.251 2.247	CC, ES SF CC, ES SF CC, ES SF CC ES SF
Rincon Unit 917H - Original Hole - rev1	1,000.00	1,000.00	20.13	13.41	2.995	CC, ES
Rincon Unit 917H - Original Hole - rev1	18,698.72	18,638.04	704.07	194.41	1.381	Level 2<1.50, SF
Section 21-T27N-R06W						
Rincon Unit 180 - Original Hole - Inc only surveys Rincon Unit 180 - Original Hole - Inc only surveys	3,676.55 3,700.00	3,620.72 3,643.61	95.08 95.22	-138.19 -138.66		Level 1<1.00, CC Level 1<1.00, ES, SF

Offset Des	sign: Rin	con pad (6	13, 615, 7	13, 715,81	5,817,915	& 917) - Rii	ncon Unit 613h	H - Original	Hole - rev)			Offset Site Error:	0.00 ft
Survey Progr		MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refer Measured Depth (ft)	ence Vertical Depth (ft)	Offs Measured Depth (ft)	vertical Depth (ft)	Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbo	+E/-W (ft)	Dis Between Centres (ft)	Minimum Separation (ft)	Separation Factor	Warning		
0.00	0.00	0.00	0.00	0.00	0.00	53.48	71.36	96.35	119.89	(ft)	(11)			
100.00	100.00	100.00	100.00	0.13	0.00	53.48	71.36	96.35	119.89	119.62	0.27	445.944		
200.00	200.00	200.00	200.00	0.49	0.49	53.48	71.36	96.35	119.89	118.91	0.99	121.621		
300.00	300.00	300.00	300.00	0.85	0.85	53.48	71.36	96.35	119.89	118.19	1.70	70.412		
400.00	400.00	400.00	400.00	1.21	1.21	53.48	71.36	96.35	119.89	117.47	2.42	49.549		
500.00	500.00	500.00	500.00	1.57	1.57	53.48	71.36	96.35	119.89	116.76	3.14	38.224		
600.00	600.00	600.00	600.00	1.93	1.93	53.48	71.36	96.35	119.89	116.04	3.85	31.112		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error:

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid North Reference: Minimum Curvature

Survey Calculation Method: Output errors are at Database:

2.00 sigma DB Decv0422v16

Offset TVD Reference:

fset Des	Jigii.		, , .	'13, 715,815	, ,	,							Offset Site Error:	0.00
rvey Progr Refer		MWD Offs	set	Semi M	ajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi tance	gned:		Offset Well Error:	0.00
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	00.000		
700.00	700.00	700.00	700.00	2.29	2.29	53.48	71.36	96.35	119.89	115.32	4.57	26.232		
800.00	800.00	800.00	800.00	2.64	2.64	53.48	71.36	96.35	119.89	114.61	5.29	22.675		
900.00	900.00	900.00	900.00	3.00	3.00	53.48	71.36	96.35	119.89	113.89	6.00	19.968		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	53.48	71.36	96.35	119.89	113.17	6.72	17.838		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	53.48	71.36	96.35	119.89	112.46	7.44	16.118		
1,200.00	1,200.00	1,203.41	1,203.36	4.08	4.07	54.62	68.56	96.53	118.45	110.30	8.15	14.541		
1,300.00	1,299.95	1,306.42	1,306.02	4.42	4.41	-153.78	60.24	97.08	116.75	107.93	8.82	13.239		
1,319.14	1,319.07	1,326.08	1,325.55	4.48	4.48	-153.07	58.02	97.23	116.70	107.75	8.95	13.045 CC, I	ES	
1,400.00	1,399.63	1,407.49	1,406.27	4.75	4.75	-149.98	47.43	97.92	117.92	108.44	9.49	12.430		
1,500.00	1,498.77	1,507.16	1,505.06	5.09	5.10	-147.33	34.20	98.80	123.75	113.57	10.17	12.162		
1,600.00	1,597.08	1,606.59	1,603.60	5.45	5.46	-146.11	21.01	99.66	134.11	123.23	10.88	12.328		
1,700.00	1,694.72	1,705.71	1,701.84	5.83	5.83	-145.94	7.86	100.53	147.32	135.72	11.60	12.703		
1,800.00	1,792.35	1,804.82	1,800.07	6.24	6.20	-145.85	-5.29	101.40	160.59	148.27	12.33	13.027		
1,900.00	1,889.97	1,903.94	1,898.31	6.65	6.58	-145.77	-18.45	102.26	173.87	160.80	13.07	13.301		
2,000.00	1,987.60	2,003.05	1,996.54	7.08	6.97	-145.71	-31.60	103.13	187.15	173.32	13.83	13.535		
2,100.00	2,085.22	2,102.17	2,094.78	7.52	7.36	-145.65	-44.75	104.00	200.42	185.83	14.59	13.735		
2,200.00	2,182.85	2,201.28	2,193.01	7.97	7.75	-145.60	-57.90	104.86	213.70	198.34	15.37	13.908		
2,300.00	2,280.47	2,300.40	2,291.24	8.42	8.14	-145.55	-71.05	105.73	226.98	210.83	16.15	14.058		
2,400.00	2,378.10	2,399.51	2,389.48	8.88	8.54	-145.51	-84.20	106.60	240.25	223.32	16.93	14.189		
2,500.00	2,475.72	2,498.63	2,487.71	9.35	8.93	-145.47	-97.36	107.46	253.53	235.81	17.72	14.305		
2,600.00	2,573.35	2,597.74	2,585.95	9.82	9.33	-145.44	-110.51	108.33	266.81	248.29	18.52	14.407		
2,700.00	2,670.97	2,696.86	2,684.18	10.29	9.74	-145.41	-123.66	109.20	280.09	260.77	19.32	14.497		
2,800.00	2,768.60	2,795.97	2,782.42	10.77	10.14	-145.39	-136.81	110.06	293.36	273.24	20.12	14.578		
2,900.00	2,866.22	2,895.08	2,880.65	11.25	10.54	-145.36	-149.96	110.93	306.64	285.71	20.93	14.651		
3,000.00	2,963.85	2,994.20	2,978.88	11.73	10.95	-145.34	-163.12	111.80	319.92	298.18	21.74	14.716		
3,100.00	3,061.47	3,093.31	3,077.12	12.21	11.35	-145.32	-176.27	112.66	333.20	310.65	22.55	14.775		
3,200.00	3,159.10	3,192.43	3,175.35	12.70	11.76	-145.30	-189.42	113.53	346.47	323.11	23.37	14.828		
3,300.00	3,256.72	3,291.54	3,273.59	13.19	12.17	-145.28	-202.57	114.40	359.75	335.57	24.18	14.877		
3,400.00	3,354.35	3,390.66	3,371.82	13.68	12.58	-145.27	-215.72	115.26	373.03	348.03	25.00	14.921		
3,500.00	3,451.97	3,489.77	3,470.06	14.17	12.99	-145.25	-228.87	116.13	386.31	360.49	25.82	14.962		
3,600.00	3,549.60	3,588.89	3,568.29	14.66	13.40	-145.24	-242.03	117.00	399.59	372.95	26.64	14.999		
3,700.00	3,647.22	3,688.00	3,666.52	15.16	13.81	-145.22	-255.18	117.86	412.86	385.40	27.46	15.034		
3,800.00	3,744.85	3,787.12	3,764.76	15.65	14.22	-145.21	-268.33	118.73	426.14	397.86	28.29	15.065		
3,900.00	3,842.47	3,886.23	3,862.99	16.15	14.63	-145.20	-281.48	119.60	439.42	410.31	29.11	15.094		
4,000.00	3,940.10	3,985.34	3,961.23	16.64	15.04	-145.19	-294.63	120.46	452.70	422.76	29.94	15.122		
4,100.00	4,037.72	4,084.46	4,059.46	17.14	15.45	-145.18	-307.79	121.33	465.98	435.21	30.76	15.147		
1 200 00	A 125 25	/ 192 57	1 157 60	176/	15 07	-1/5 17	-220.04	122.20	/70.2F	117 66	24 50	15 170		
1,200.00	4,135.35	4,183.57	4,157.69	17.64	15.87 16.28	-145.17 145.16	-320.94	122.20	479.25	447.66	31.59 32.42	15.170		
4,300.00 4,400.00	4,232.97 4,330.60	4,282.69 4,381.80	4,255.93 4,354.16	18.14 18.63	16.28	-145.16 145.15	-334.09 -347.24	123.06 123.93	492.53 505.81	460.11 472.56	32.42	15.192		
						-145.15 -145.14						15.213		
1,500.00 1,600.00	4,428.22 4,525.85	4,480.92 4,580.03	4,452.40 4,550.63	19.13 19.63	17.11 17.52	-145.14 -145.13	-360.39 -373.54	124.80 125.66	519.09 532.37	485.01 497.46	34.08 34.91	15.232 15.250		
	,		,			****				*****	* ***			
1,700.00	4,623.47	4,679.15	4,648.87	20.13	17.93	-145.12	-386.70	126.53	545.64	509.90	35.74	15.267		
4,800.00	4,721.10	4,778.26	4,747.10	20.64	18.35	-145.12	-399.85	127.40	558.92	522.35	36.57	15.282		
4,900.00	4,818.72	4,877.38	4,845.33	21.14	18.76	-145.11	-413.00	128.26	572.20	534.79	37.41	15.297		
5,000.00	4,916.35	4,976.49	4,943.57	21.64	19.18	-145.10	-426.15	129.13	585.48	547.24	38.24	15.311		
5,100.00	5,013.97	5,075.60	5,041.80	22.14	19.59	-145.10	-439.30	130.00	598.75	559.68	39.07	15.325		
5,200.00	5,111.60	5,174.72	5,140.04	22.64	20.01	-145.09	-452.46	130.86	612.03	572.13	39.91	15.337		
5,300.00	5,209.22	5,273.83	5,238.27	23.15	20.42	-145.09	-465.61	131.73	625.31	584.57	40.74	15.349		
5,400.00	5,306.85	5,372.95	5,336.51	23.65	20.42	-145.09	-478.76	131.73	638.59	597.02	41.57	15.360		
5,500.00	5,404.47	5,472.06	5,434.74	24.15	21.25	-145.08	-476.70	133.46	651.87	609.46	42.41	15.371		
5,600.00	5,502.10	5,571.18	5,532.97	24.13	21.20	1-10.00	-101.01	100.40	001.07	000.40	74.71	10.071		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Survey Calculation Method: Output errors are at

Database: DB De

Offset TVD Reference:

2.00 sigma
DB_Decv0422v16
Offset Datum

urvey Progr	ram: 0-N	MWD								Rule Assi	gned:		Offset Well Error:	0.00
Refe	rence Vertical	Offs Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbe	ore Centre	Dist Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S (ft)	+E/-W (ft)	Centres	Ellipses	Separation	Factor	warming	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)			(ft)	(ft)	(ft)			
5,700.00	5,599.72	5,670.29	5,631.21	25.16	22.08	-145.07	-518.21	135.20	678.42	634.34	44.08	15.391		
5,800.00	5,697.36	5,769.41	5,729.45	25.66	22.50	-145.09	-531.37	136.06	691.67	646.75	44.92	15.399		
5,900.00	5,795.63	5,868.82	5,827.97	26.13	22.92	-145.11	-544.56	136.93	702.28	656.52	45.75	15.350		
6,000.00	5,894.73	5,957.53	5,916.13	26.55	23.27	-145.03	-554.39	137.58	709.37	662.90	46.47	15.264		
6,100.00	5,994.39	6,046.14	6,004.54	26.92	23.60	-145.00	-560.13	137.96	713.78	666.66	47.13	15.146		
6,200.00	6,094.34	6,135.96	6,094.34	27.22	23.90	-145.02	-561.79	138.07	715.48	667.78	47.70	14.999		
6,300.00	6,194.34	7,225.82	6,786.99	27.48	28.86	-1.97	-575.63	-526.64	652.75	620.86	31.89	20.468		
6,400.00	6,294.18	7,221.05	6,787.02	27.73	28.80	-103.52	-575.53	-521.87	563.72	529.44	34.27	16.447		
6,500.00	6,391.90	7,199.85	6,787.15	27.91	28.54	-113.78	-575.09	-500.67	480.88	443.63	37.26	12.908		
6,600.00	6,484.57	7,131.42	6,784.64	28.03	27.77	-112.43	-573.67	-432.34	407.61	367.00	40.61	10.037		
6,700.00	6,569.37	7,061.17	6,773.71	28.10	27.10	-107.97	-572.22	-363.01	345.63	300.84	44.79	7.717		
6,800.00	6,643.71	6,999.05	6,757.03	28.11	26.61	-102.05	-570.98	-303.21	300.75	252.06	48.69	6.177		
6,900.00	6,705.34	6,940.88	6,735.63	28.08	26.26	-94.09	-569.85	-249.15	278.95	228.57	50.37	5.538		
6,935.05	6,724.12	6,921.62	6,727.35	28.06	26.17	-90.78	-569.49	-231.77	277.36	227.13	50.22	5.522 SF		
7,000.00	6,756.00	6,888.09	6,711.56	28.02	26.02	-84.92	-568.88	-202.20	282.74	233.72	49.02	5.768		
7,100.00	6,796.79	6,829.74	6,682.39	27.98	25.82	-72.96	-567.82	-151.68	308.92	263.10	45.82	6.742		
7,200.00	6,821.13	6,775.82	6,653.57	27.94	25.66	-62.32	-566.88	-106.14	347.18	303.35	43.84	7.920		
7,300.00	6,828.38	6,723.19	6,621.44	28.00	25.52	-53.57	-566.01	-64.49	391.11	347.76	43.35	9.022		
7,400.00	6,828.73	6,675.36	6,589.04	28.61	25.41	-49.53	-565.28	-29.34	441.89	398.15	43.74	10.103		
7,500.00	6,829.08	6,634.41	6,559.05	29.81	25.31	-46.19	-564.70	-1.47	501.30	456.80	44.50	11.265		
7,600.00	6,829.43	6,600.00	6,532.36	31.23	25.23	-43.50	-564.25	20.24	567.79	522.36	45.44	12.496		
7,700.00	6,829.77	6,569.07	6,507.30	32.79	25.15	-41.20	-563.87	38.35	639.94	593.65	46.29	13.824		
7,800.00	6,830.12	6,550.00	6,491.37	34.47	25.10	-39.84	-563.65	48.84	716.67	669.32	47.35	15.137		
7,900.00	6,830.47	6,520.15	6,465.76	36.25	25.02	-37.80	-563.33	64.17	796.82	748.98	47.84	16.657		
8,000.00	6,830.82	6,500.00	6,448.04	38.12	24.97	-36.50	-563.13	73.75	879.92	831.47	48.44	18.163		
8,100.00	6,831.16	6,482.65	6,432.52	40.06	24.92	-35.42	-562.97	81.51	965.33	916.36	48.97	19.712		
8,200.00	6,831.51	6,467.09	6,418.41	42.06	24.88	-34.48	-562.84	88.05	1,052.65	1,003.23	49.42	21.300		
8,300.00	6,831.86	6,450.00	6,402.71	44.12	24.83	-33.49	-562.69	94.80	1,141.53	1,091.79	49.74	22.948		
8,400.00	6,832.21	6,450.00	6,402.71	46.23	24.83	-33.49	-562.69	94.80	1,231.79	1,181.56	50.24	24.519		
8,500.00	6,832.55	6,429.64	6,383.75	48.37	24.77	-32.36	-562.54	102.23	1,322.95	1,272.56	50.39	26.253		
8,600.00	6,832.90	6,419.54	6,374.25	50.56	24.74	-31.81	-562.47	105.66	1,415.13	1,364.50	50.63	27.950		
8,700.00	6,833.25	6,400.00	6,355.71	52.78	24.69	-30.80	-562.34	111.82	1,508.23	1,457.49	50.74	29.727		
8,800.00	6,833.60	6,400.00	6,355.71	55.02	24.69	-30.80	-562.34	111.82	1,601.75	1,550.75	51.00	31.407		
8,900.00	6,833.94	6,400.00	6,355.71	57.29	24.69	-30.80	-562.34	111.82	1,696.01	1,644.79	51.22	33.112		
9,000.00	6,834.29	6,400.00	6,355.71	59.59	24.69	-30.80	-562.34	111.82	1,790.89	1,739.49	51.41	34.838		
9,100.00	6,834.64	6,380.87	6,337.37	61.90	24.63	-29.86	-562.23	117.24	1,885.89	1,834.45	51.44	36.659		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error:

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid North Reference: Minimum Curvature

Survey Calculation Method: Output errors are at Database:

2.00 sigma

Offset TVD Reference:

DB Decv0422v16 Offset Datum

	sign: R												Offset Site Error:	0.001
rvey Prog		85-MWD, 4923-			laiau Avia		Officet Wellh	ana Camtua	Die	Rule Assi	gned:		Offset Well Error:	0.00
Refe Measured Depth (ft)	rence Vertical Depth (ft)	Off Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	lajor Axis Offset (ft)	Highside Toolface (°)	Offset Wellber +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	tance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00		0.00	0.00	0.00	53.43	47.57	64.13	80.75	()	()			
100.00	100.00		88.26	0.13	0.15	53.52	47.39	64.09	79.71	79.42	0.29	276.770		
200.00	200.00		188.54	0.49	0.33	53.82	46.76	63.93	79.21	78.38	0.82	96.514		
300.00	300.00		288.81	0.85	0.50	54.35	45.66	63.65	78.34	76.99	1.35	57.890		
400.00	400.00		389.06	1.21	0.68	55.11	44.11	63.26	77.13	75.24	1.89	40.734		
500.00	500.00		489.11	1.57	1.05	56.24	42.09	62.97	75.75	73.14	2.61	29.000		
600.00	600.00	589.09	589.02	1.93	1.41	57.75	39.61	62.79	74.24	70.91	3.33	22.292		
700.00	700.00		688.87	2.29	1.77	59.31	37.26	62.78	73.01	68.96	4.05	18.031		
800.00	800.00		788.82	2.64	2.13	60.90	34.94	62.76	71.83	67.07	4.77	15.066		
900.00	900.00		888.95	3.00	2.49	62.46	32.65	62.60	70.61	65.13	5.49	12.867		
1,000.00	1,000.00		989.02	3.36	2.85	64.14	30.18	62.26	69.19	62.98	6.21	11.146		
1,100.00	1,100.00	1,089.25	1,089.03	3.72	3.21	65.92	27.62	61.81	67.70	60.78	6.93	9.773		
1,200.00	1,200.00		1,188.44	4.08	3.57	67.42	25.47	61.23	66.31	58.68	7.64	8.682		
1,200.00	1,200.00		1,198.25	4.11	3.60	-143.99	25.49	61.16	66.28	58.58	7.71	8.602 CC, ES	3	
1,300.00	1,299.95		1,286.24	4.42	3.89	-147.92	28.79	60.46	69.19	60.89	8.30	8.335 SF	-	
1,400.00	1,399.63		1,381.33	4.42	4.20	-157.58	39.25	59.63	81.22	72.29	8.92	9.101		
1,500.00	1,498.77	1,476.51	1,474.35	5.09	4.52	-167.25	54.43	59.00	103.83	94.29	9.54	10.881		
	1,597.08		1,567.17	5.45	4.85	-107.25	70.50	58.55	134.27	124.08	10.19	13.182		
1,600.00 1,700.00	1,694.72		1,659.29	5.45	5.19	-173.95	70.50 86.34	57.96	168.91	158.08	10.19	15.162		
												17.770		
1,800.00 1,900.00	1,792.35 1,889.97		1,751.47 1,844.37	6.24 6.65	5.55 5.91	178.76 176.74	102.05 117.61	57.34 56.71	204.06 239.31	192.58 227.16	11.48 12.15	19.696		
1,000.00	1,000.07	1,001.00	1,044.01	0.00	0.01	170.74	117.01	00.71	200.01	227.10	12.10	10.000		
2,000.00	1,987.60		1,938.11	7.08	6.28	175.26	132.76	56.01	274.24	261.41	12.83	21.372		
2,100.00	2,085.22	2,039.83	2,029.95	7.52	6.65	174.16	147.27	55.21	308.95	295.45	13.50	22.882		
2,200.00	2,182.85	2,131.59	2,120.48	7.97	7.02	173.28	162.18	54.67	344.39	330.22	14.17	24.310		
2,300.00	2,280.47	2,227.09	2,214.73	8.42	7.40	172.56	177.56	54.26	379.83	364.96	14.87	25.545		
2,400.00	2,378.10	2,320.08	2,306.62	8.88	7.78	172.04	191.85	53.92	414.70	399.15	15.55	26.662		
2,500.00	2,475.72	2,409.50	2,394.85	9.35	8.15	171.64	206.38	54.18	450.59	434.38	16.21	27.796		
2,600.00	2,573.35	2,504.51	2,488.59	9.82	8.54	171.29	221.87	54.59	486.60	469.68	16.92	28.759		
2,700.00	2,670.97	2,601.22	2,584.09	10.29	8.94	171.00	237.08	54.92	522.10	504.46	17.65	29.589		
2,800.00	2,768.60	2,698.21	2,679.98	10.77	9.34	170.79	251.64	55.39	557.02	538.65	18.37	30.317		
2,900.00	2,866.22	2,797.11	2,777.86	11.25	9.74	170.61	265.86	55.65	591.33	572.21	19.12	30.931		
3,000.00	2,963.85	2,890.28	2,870.15	11.73	10.12	170.47	278.58	55.73	624.93	605.11	19.82	31.535		
3,100.00	3,061.47	2,982.19	2,961.10	12.21	10.50	170.34	291.88	56.08	659.35	638.84	20.51	32.151		
3,200.00	3,159.10		3,051.93	12.70	10.88	170.22	304.80	56.30	693.40	672.20	21.20	32.708		
3,300.00	3,256.72		3,134.99	13.19	11.23	170.12	317.84	56.89	728.83	707.00	21.83	33.386		
3,400.00	3,354.35		3,230.37	13.68	11.64	170.02	332.96	57.79	764.50	741.93	22.57	33.878		
3,500.00	3,451.97	3,355.21	3,329.84	14.17	12.06	169.94	348.11	58.58	799.60	776.27	23.33	34.269		
3,600.00	3,549.60		3,436.40	14.66	12.50	169.86	363.03	58.96	833.51	809.35	24.15	34.512		
3,700.00	3,647.22		3,526.39	15.16	12.87	169.81	374.59	58.98	866.31	841.47	24.84	34.875		
3,800.00	3,744.85		3,610.96	15.65	13.22	169.73	386.87	59.04	900.52	875.03	25.49	35.327		
3,900.00	3,842.47		3,710.98	16.15	13.64	169.62	401.26	58.73	934.53	908.26	26.26	35.582		
4,000.00	3,940.10	3,844.97	3,814.91	16.64	14.07	169.49	415.50	57.78	967.75	940.68	27.06	35.757		
4,100.00	4,037.72		3,898.36	17.14	14.42	169.39	426.47	56.72	1,000.42	972.71	27.71	36.102		
4,200.00	4,135.35		3,974.54	17.64	14.74	169.32	438.02	56.49	1,035.04	1,006.74	28.30	36.574		
4,300.00	4,232.97		4,063.81	18.14	15.13	169.24	451.90	56.46	1,070.14	1,041.15	28.99	36.909		
4,400.00	4,330.60		4,140.12	18.63	15.46	169.18	464.58	56.83	1,106.31	1,076.72	29.58	37.396		
4,500.00	4,428.22	4,269.03	4,233.88	19.13	15.87	169.11	480.70	57.46	1,143.04	1,112.72	30.32	37.700		
4,600.00	4,525.85		4,332.87	19.63	16.31	169.04	497.09	58.03	1,179.19	1,148.09	31.10	37.919		
4,700.00	4,623.47		4,412.33	20.13	16.66	169.00	510.76	58.77	1,215.98	1,184.26	31.72	38.340		
4,800.00	4,721.10		4,503.93	20.13	17.07	168.96	526.95	59.86	1,253.28	1,220.85	32.44	38.638		
4,900.00	4,818.72		4,609.23	21.14	17.53	168.92	544.62	61.08	1,289.83	1,256.57	33.27	38.772		
.,	.,5.0.72	.,5.0.00	.,	2			311.02	300	.,_00.00	.,_50.07	30.2.			



Database:

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid

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

Offset TVD Reference:

DB_Decv0422v16
Offset Datum

ırvey Prog	ram: 38	5-MWD, 4923-	MWD, 16695	-MWD						Rule Assi	gned:		Offset Well Error:	0.00
Refe	rence	Off			Major Axis	III ab at da	Offset Wellb	ore Centre		tance		0	184 t	
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	
5,000.00	4,916.35	4,761.48	4,719.62	21.64	18.01	168.91	561.41	62.16	1,324.94	1,290.81	34.13	38.821		
5,100.00	5,013.97	4,854.22	4,811.37	22.14	18.35	168.92	574.92	63.33	1,359.77	1,324.97	34.80	39.079		
5,200.00	5,111.60	4,956.10	4,912.23	22.64	18.56	168.96	589.21	65.06	1,394.26	1,358.93	35.33	39.461		
5,300.00	5,209.22	5,052.71	5,007.94	23.15	18.65	169.00	602.24	66.80	1,428.31	1,392.58	35.73	39.973		
5,400.00	5,306.85	5,145.45	5,099.81	23.65	18.75	169.05	614.76	68.75	1,462.48	1,426.36	36.12	40.488		
5,500.00	5,404.47	5,236.48	5,190.00	24.15	18.85	169.10	626.91	70.76	1,496.56	1,460.04	36.51	40.989		
5,600.00	5,502.10	5,318.47	5,271.14	24.66	18.95	169.14	638.56	72.55	1,531.35	1,494.48	36.87	41.534		
5,700.00	5,599.72	5,413.47	5,365.14	25.16	19.08	169.17	652.20	74.43	1,566.24	1,528.95	37.29	41.999		
5,800.00	5,697.36	5,491.22	5,442.00	25.66	19.19	169.22	663.79	76.16	1,601.66	1,564.02	37.64	42.549		
5,900.00	5,795.63	5,596.99	5,546.52	26.13	19.36	169.42	679.75	78.71	1,634.31	1,596.19	38.12	42.875		
6,000.00	5,894.73	5,730.49	5,678.79	26.55	19.56	169.55	697.60	81.42	1,660.29	1,621.59	38.70	42.897		
6,100.00	5,994.39	5,848.83	5,796.29	26.92	19.73	169.61	711.61	83.54	1,679.84	1,640.63	39.21	42.839		
6,200.00	6,094.34	5,972.41	5,919.18	27.22	19.91	169.61	724.48	85.62	1,692.95	1,653.22	39.72	42.620		
6,300.00	6,194.34	6,688.95	6,590.12	27.48	20.84	14.73	747.29	-97.58	1,700.22	1,659.00	41.22	41.246		
6,400.00	6,294.18	6,893.35	6,715.30	27.73	21.49	-82.36	748.52	-257.61	1,674.83	1,632.16	42.67	39.248		
6,500.00	6,391.90	6,929.54	6,733.35	27.91	21.66	-86.27	748.62	-288.98	1,648.74	1,605.21	43.53	37.880		
6,600.00	6,484.57	6,951.82	6,744.33	28.03	21.79	-89.31	748.61	-308.37	1,626.79	1,582.62	44.17	36.833		
6,700.00	6,569.37	6,942.87	6,739.95	28.10	21.74	-90.65	748.62	-300.55	1,610.42	1,566.00	44.43	36.250		
6,800.00	6,643.71	6,915.97	6,726.58	28.11	21.60	-90.74	748.60	-277.22	1,600.14	1,555.70	44.44	36.008		
6,900.00	6,705.34	6,866.36	6,702.01	28.08	21.37	-89.56	748.33	-234.13	1,595.55	1,551.30	44.25	36.055		
6,947.55	6,730.65	6,839.30	6,688.09	28.05	21.26	-88.72	748.00	-210.92	1,595.02	1,550.83	44.19	36.096		
7,000.00	6,756.00	6,817.00	6,675.74	28.02	21.18	-88.01	747.69	-192.36	1,595.65	1,551.48	44.17	36.126		
7,100.00	6,796.79	6,778.54	6,652.51	27.98	21.06	-86.33	747.15	-161.72	1,600.37	1,556.05	44.33	36.105		
7,200.00	6,821.13	6,754.00	6,636.49	27.94	20.99	-84.72	746.89	-143.14	1,609.10	1,564.33	44.77	35.943		
7,300.00	6,828.38	6,723.00	6,615.05	28.00	20.91	-82.82	746.86	-120.75	1,621.13	1,575.77	45.36	35.739		
7,400.00	6,828.73	6,691.00	6,591.66	28.61	20.84	-82.00	747.26	-98.93	1,637.12	1,591.01	46.11	35.504		
7,500.00	6,829.08	6,660.00	6,567.85	29.81	20.79	-81.16	748.02	-79.10	1,657.89	1,610.90	47.00	35.277		
7,600.00	6,829.43	6,621.13	6,536.74	31.23	20.73	-80.07	749.18	-55.82	1,683.17	1,635.23	47.94	35.112		
7,700.00	6,829.77	6,586.81	6,508.20	32.79	20.68	-79.08	750.03	-36.78	1,712.71	1,663.75	48.96	34.981		
7,800.00	6,830.12	6,552.91	6,479.37	34.47	20.64	-78.09	750.76	-18.97	1,746.38	1,696.37	50.02	34.916		
7,900.00	6,830.47	6,534.00	6,463.04	36.25	20.62	-77.53	751.18	-9.46	1,784.23	1,733.10	51.13	34.896		
8,000.00	6,830.82	6,502.00	6,434.89	38.12	20.58	-76.57	751.86	5.75	1,826.07	1,773.89	52.17	34.999		
8,100.00	6,831.16	6,478.36	6,413.71	40.06	20.56	-75.86	752.24	16.23	1,871.75	1,818.54	53.21	35.175		
8,200.00	6,831.51	6,454.10	6,391.64	42.06	20.53	-75.12	752.45	26.30	1,921.02	1,866.82	54.20	35.444		
8,300.00	6,831.86	6,430.57	6,369.91	44.12	20.51	-74.39	752.34	35.33	1,973.65	1,918.52	55.12	35.804		
8,400.00	6,832.21	6,408.00	6,348.78	46.23	20.48	-73.68	751.81	43.24	2,029.42	1,973.43	55.98	36.250		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

North Reference: Grid

Survey Calculation Method: Output errors are at Database:

Minimum Curvature 2.00 sigma DB Decv0422v16

Offset TVD Reference:

	sign: Kir												Offset Site Error:	0.00
urvey Progr		MWD								Rule Assi	gned:		Offset Well Error:	0.00
Measured	Vertical	Off Measured	Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellb	+E/-W	Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	(ft)	(ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	53.54	59.28	80.24	99.76					
100.00	100.00	100.00	100.00	0.13	0.13	53.54	59.28	80.24	99.76	99.50	0.27	371.072		
200.00	200.00	200.00	200.00	0.49	0.49	53.54	59.28	80.24	99.76	98.78	0.99	101.202		
300.00	300.00	300.00	300.00	0.85	0.85	53.54	59.28	80.24	99.76	98.06	1.70	58.590		
400.00	400.00	400.00	400.00	1.21	1.21	53.54	59.28	80.24	99.76	97.34	2.42	41.230		
500.00	500.00	500.00	500.00	1.57	1.57	53.54	59.28	80.24	99.76	96.63	3.14	31.806		
600.00	600.00	600.00	600.00	1.93	1.93	53.54	59.28	80.24	99.76	95.91	3.85	25.889		
700.00	700.00	700.00	700.00	2.29	2.29	53.54	59.28	80.24	99.76	95.19	4.57	21.828		
800.00	800.00	800.00	800.00	2.64	2.64	53.54	59.28	80.24	99.76	94.48	5.29	18.868		
900.00	900.00	900.00	900.00	3.00	3.00	53.54	59.28	80.24	99.76	93.76	6.00	16.615		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	53.54	59.28	80.24	99.76	93.04	6.72	14.843		
1 100 00	1 100 00	1 100 00	1 100 00	2 72	2 72	E2 E4	50.29	90.24	00.76	02.22	7 11	12 412		
1,100.00 1,200.00	1,100.00 1,200.00	1,100.00 1,200.00	1,100.00 1,200.00	3.72 4.08	3.72 4.08	53.54 53.54	59.28 59.28	80.24 80.24	99.76 99.76	92.33 91.61	7.44 8.16	13.412 12.233 CC, E	S	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-158.66	59.28 61.20	80.24 81.62		95.74	8.83	12.233 CC, E 11.843 SF	0	
1,400.00	1,399.63	1,391.73	1,294.98	4.42	4.42	-160.80	66.43	85.39	104.57 118.31	108.81	9.50	11.843 SF 12.457		
1,500.00	1,498.77	1,489.68	1,489.18	5.09	5.11	-163.16	72.10	89.47	137.60	127.41	10.18	13.514		
1,500.00	1,490.77	1,409.00	1,409.10	5.09	5.11	-105.10	72.10	09.47	137.00	127.41	10.16	13.514		
1,600.00	1,597.08	1,586.45	1,585.70	5.45	5.46	-165.36	77.69	93.50	162.02	151.15	10.86	14.912		
1,700.00	1,694.72	1,682.31	1,681.31	5.83	5.81	-167.33	83.24	97.50	189.87	178.33	11.54	16.447		
1,800.00	1,792.35	1,778.15	1,776.91	6.24	6.16	-168.84	88.78	101.49	217.96	205.74	12.22	17.835		
1,900.00	1,889.97	1,875.26	1,873.77	6.65	6.51	-170.01	94.37	105.52	246.13	233.22	12.91	19.064		
2,000.00	1,987.60	1,987.13	1,985.55	7.08	6.91	-171.00	97.72	107.93	271.10	257.41	13.68	19.810		
2 100 00	2.005.22	2.006.00	2.005.22	7.52	7.07	474.60	07.76	107.06	202 50	270 40	14.20	20.226		
2,100.00	2,085.22	2,086.80	2,085.22		7.27	-171.68	97.76	107.96	292.58	278.18 298.94	14.39	20.326		
2,200.00	2,182.85	2,184.43	2,182.85	7.97	7.62	-172.25	97.76	107.96	314.04		15.10	20.800		
2,300.00	2,280.47	2,282.05	2,280.47	8.42	7.96	-172.75	97.76	107.96	335.53	319.72	15.80	21.229		
2,400.00 2,500.00	2,378.10 2,475.72	2,379.68 2,477.30	2,378.10 2,475.72	8.88 9.35	8.31 8.66	-173.19 -173.58	97.76 97.76	107.96 107.96	357.04 378.56	340.52 361.34	16.51 17.22	21.621 21.978		
2,500.00	2,475.72	2,477.30	2,410.12	9.00	0.00	-175.56	97.70	107.30	370.30	301.34	17.22	21.970		
2,600.00	2,573.35	2,574.93	2,573.35	9.82	9.01	-173.93	97.76	107.96	400.10	382.17	17.94	22.306		
2,700.00	2,670.97	2,672.55	2,670.97	10.29	9.36	-174.24	97.76	107.96	421.66	403.01	18.65	22.608		
2,800.00	2,768.60	2,770.18	2,768.60	10.77	9.71	-174.52	97.76	107.96	443.22	423.86	19.37	22.886		
2,900.00	2,866.22	2,867.80	2,866.22	11.25	10.06	-174.77	97.76	107.96	464.80	444.72	20.08	23.144		
3,000.00	2,963.85	2,965.43	2,963.85	11.73	10.40	-175.01	97.76	107.96	486.38	465.58	20.80	23.383		
3,100.00	3,061.47	3,063.05	3,061.47	12.21	10.75	-175.22	97.76	107.96	507.97	486.45	21.52	23.605		
3,200.00	3,159.10	3,160.68	3,159.10	12.70	11.10	-175.22	97.76	107.96	529.57	507.33	22.24	23.813		
3,300.00	3,256.72	3,258.30	3,256.72	13.19	11.45	-175.59	97.76	107.96	551.17	528.21	22.24	24.007		
3,400.00	3,354.35	3,355.93	3,354.35	13.19	11.43	-175.76	97.76	107.96	572.77	549.09	23.68	24.007		
3,500.00	3,451.97	3,453.55	3,451.97	14.17	12.15	-175.70	97.76	107.96	594.38	569.98	24.40	24.358		
-,	-, .5	-,.00.00	-,		.20	5.0 1	00	. 37.00	23	230.00		00		
3,600.00	3,549.60	3,551.18	3,549.60	14.66	12.50	-176.06	97.76	107.96	616.00	590.87	25.12	24.518		
3,700.00	3,647.22	3,648.80	3,647.22	15.16	12.85	-176.19	97.76	107.96	637.62	611.77	25.85	24.669		
3,800.00	3,744.85	3,746.43	3,744.85	15.65	13.20	-176.32	97.76	107.96	659.24	632.67	26.57	24.811		
3,900.00	3,842.47	3,844.05	3,842.47	16.15	13.55	-176.43	97.76	107.96	680.86	653.56	27.29	24.945		
4,000.00	3,940.10	3,941.68	3,940.10	16.64	13.90	-176.54	97.76	107.96	702.49	674.47	28.02	25.071		
4,100.00	4,037.72	4,039.30	4,037.72	17.14	14.25	-176.65	97.76	107.96	724.11	695.37	28.74	25.192		
4,200.00	4,135.35	4,136.93	4,135.35	17.14	14.60	-176.74	97.76	107.96	745.74	716.27	29.47	25.306		
4,300.00	4,232.97	4,234.55	4,232.97	18.14	14.94	-176.84	97.76	107.96	767.38	737.18	30.19	25.414		
4,400.00	4,330.60	4,332.18	4,330.60	18.63	15.29	-176.92	97.76	107.96	789.01	758.09	30.19	25.517		
4,500.00	4,428.22	4,429.80	4,428.22	19.13	15.64	-177.01	97.76	107.96	810.65	779.00	31.65	25.615		
.,000.00	., .20.22	., .20.00	.,0.22	10.10	.5.04		51.10	. 37.00	510.00		31.00	20.010		
4,600.00	4,525.85	4,527.43	4,525.85	19.63	15.99	-177.08	97.76	107.96	832.28	799.91	32.37	25.709		
4,700.00	4,623.47	4,625.05	4,623.47	20.13	16.34	-177.16	97.76	107.96	853.92	820.82	33.10	25.798		
4,800.00	4,721.10	4,722.68	4,721.10	20.64	16.69	-177.23	97.76	107.96	875.56	841.73	33.83	25.883		
4,900.00	4,818.72	4,820.30	4,818.72	21.14	17.04	-177.29	97.76	107.96	897.20	862.65	34.56	25.964		
5,000.00	4,916.35	4,917.93	4,916.35	21.64	17.39	-177.36	97.76	107.96	918.85	883.56	35.28	26.042		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error: Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

Well Rincon Unit 817H TVD Reference: RKB=6538+25 @ 6563.00ft MD Reference: RKB=6538+25 @ 6563.00ft

Grid North Reference:

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

Offset TVD Reference:

DB Decv0422v16 Offset Datum

urvey Progr		/WD		Carri M	lalan Avia		Office A Mr. III.	ava Camtua	P!	Rule Assi	gned:		Offset Site Error: Offset Well Error:	0.00
Refer Measured	Vertical	Off: Measured	Vertical	Reference	ajor Axis Offset	Highside	Offset Wellb	+E/-W	Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	(ft)	(ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
5,100.00	5,013.97	5,015.55	5,013.97	22.14	17.74	-177.42	97.76	107.96	940.49	904.48	36.01	26.117		
5,200.00	5,111.60	5,113.18	5,111.60	22.64	18.09	-177.48	97.76	107.96	962.13	925.39	36.74	26.188		
5,300.00	5,209.22	5,210.80	5,209.22	23.15	18.44	-177.53	97.76	107.96	983.78	946.31	37.47	26.257		
5,400.00	5,306.85	5,308.43	5,306.85	23.65	18.79	-177.59	97.76	107.96	1,005.42	967.23	38.20	26.323		
5,500.00	5,404.47	5,406.05	5,404.47	24.15	19.14	-177.64	97.76	107.96	1,027.07	988.15	38.92	26.386		
5,600.00	5,502.10	5,503.68	5,502.10	24.66	19.49	-177.69	97.76	107.96	1,048.72	1,009.06	39.65	26.447		
5,700.00	5,599.72	5,601.30	5,599.72	25.16	19.84	-177.73	97.76	107.96	1,070.37	1,029.98	40.38	26.505		
5,800.00	5,697.36	5,698.93	5,697.36	25.66	20.19	-177.78	97.76	107.96	1,091.97	1,050.86	41.11	26.561		
5,900.00	5,795.63	5,797.21	5,795.63	26.13	20.54	-177.84	97.76	107.96	1,110.41	1,068.57	41.84	26.541		
6,000.00	5,894.73	5,896.31	5,894.73	26.55	20.90	-177.88	97.76	107.96	1,123.68	1,081.13	42.56	26.404		
6,100.00	5,994.39	6,967.61	6,586.86	26.92	27.47	148.24	84.29	-538.82	1,103.71	1,058.36	45.35	24.339		
6,200.00	6,094.34	6,968.52	6,586.86	27.22	27.48	147.31	84.27	-539.73	1,055.55	1,008.29	47.26	22.333		
6,300.00 6,400.00	6,194.34 6,294.18	6,967.89 6,963.12	6,586.86 6,586.89	27.48 27.73	27.48 27.41	-1.34 -93.00	84.29 84.38	-539.10 -534.33	1,012.77 978.47	963.76 928.02	49.00 50.46	20.667 19.392		
6,500.00	6,391.90	6,938.17	6,586.94	27.73	27.41	-93.00 -94.03	84.90	-509.38	954.08	928.02	51.23	18.625		
6,600.00	6,484.57	6,894.42	6,584.70	28.03	26.55	-92.95	85.81	-465.72	939.81	888.53	51.27	18.330		
6,700.00	6,569.37	6,848.62	6,578.80	28.10	26.01	-90.86	86.76	-420.32	935.15	884.26	50.89	18.378		
6,701.47	6,570.54	6,847.94	6,578.68	28.10	26.01	-90.83	86.77	-419.65	935.15	884.27	50.88	18.380		
6,800.00	6,643.71	6,800.00	6,568.59	28.11	25.48	-87.88	87.75	-372.81	939.14	888.97	50.17	18.719		
6,900.00	6,705.34	6,750.00	6,553.92	28.08	24.98	-84.28	88.74	-325.03	950.37	901.05	49.33	19.267		
7,000.00	6,756.00	6,708.18	6,538.49	28.02	24.60	-81.64	89.55	-286.18	967.73	919.08	48.65	19.891		
7,100.00	6,796.79	6,664.85	6,519.57	27.98	24.24	-77.40	90.36	-247.23	990.44	942.37	48.08	20.601		
7,200.00	6,821.13	6,603.70	6,489.27	27.94	23.78	-72.52	91.47	-194.12	1,015.61	968.12	47.50	21.383		
7,300.00	6,828.38	6,550.00	6,461.48	28.00	23.43	-68.70	92.43	-148.20	1,040.12	992.71	47.41	21.939		
7,400.00	6,828.73	6,500.00	6,432.05	28.61	23.15	-67.16	93.27	-107.80	1,067.62	1,020.04	47.57	22.441		
7,500.00	6,829.08	6,465.19	6,409.54	29.81	22.97	-66.00	93.82	-81.26	1,100.50	1,052.45	48.05	22.904		
7,600.00	6,829.43	6,430.04	6,385.21	31.23	22.81	-64.78	94.35	-55.90	1,138.81	1,090.28	48.54	23.464		
7,700.00	6,829.77	6,400.00	6,363.23	32.79	22.68	-63.70	94.77	-35.44	1,182.40	1,133.30	49.10	24.084		
7,800.00	6,830.12	6,371.05	6,341.06	34.47	22.56	-62.62	95.16	-16.85	1,230.99	1,181.35	49.64	24.796		
7,900.00	6,830.47	6,350.00	6,324.35	36.25	22.47	-61.83	95.43	-4.04	1,284.29	1,234.03	50.26	25.552		
8,000.00	6,830.82	6,324.23	6,303.28	38.12	22.38	-60.84	95.74	10.80	1,341.89	1,291.13	50.75	26.439		
8,100.00	6,831.16	6,300.00	6,282.88	40.06	22.29	-59.91	96.01	23.87	1,403.45	1,352.24	51.21	27.404		
8,200.00	6,831.51	6,300.00	6,282.88	42.06	22.29	-59.91	96.01	23.87	1,468.72	1,416.83	51.89	28.303		
8,300.00	6,831.86	6,270.54	6,257.36	44.12	22.29	-58.76	96.32	38.57	1,536.85	1,484.68	52.18	29.456		
8,400.00	6,832.21	6,250.00	6,239.14	46.23	22.10	-57.96	96.51	48.05	1,608.07	1,555.56	52.50	30.629		
8,500.00	6,832.55	6,250.00	6,239.14	48.37	22.11	-57.96	96.51	48.05	1,681.82	1,628.84	52.98	31.745		
0.000.00	0.000.00	0.000.70	0.001.71	50.55	00.04	F7.00	22.22	50.05	4 757 00	4 70 1 5 7	F0 00	22.025		
8,600.00	6,832.90	6,230.70	6,221.71	50.56	22.04	-57.20	96.69	56.35	1,757.80	1,704.57	53.23	33.025		
8,700.00	6,833.25	6,219.66	6,211.63	52.78	22.01	-56.77	96.78	60.83	1,835.87	1,782.37	53.50	34.315		
8,800.00	6,833.60	6,200.00	6,193.46	55.02	21.94	-56.01	96.94	68.32	1,915.85	1,862.18	53.67	35.696		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid

Survey Calculation Method:
Output errors are at
Database:

Minimum Curvature 2.00 sigma

Offset TVD Reference:

DB_Decv0422v16
Offset Datum

Part	ffset Des	sign: 'N	ncon pad (6		.0, 7 10,010	2,0 ,0 10	~ · · · / · · · ·				,			Offset Site Error:	0.00
Name of Markey (1964) (laior Avie		Offeet Wellbr	oro Contro	Die		gned:		Offset Well Error:	0.00
1000	leasured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Separation		Warning	
											()	()			
10000 100000 100000 100000 100000 100000 100000 100000 100000 1000000 1000000 1000000 100000 10000											59.31	0.29	206.896		
Month Mont	200.00	200.00	188.34	188.33	0.49	0.33	54.31	34.53	48.07	59.19	58.36	0.82	72.094		
	300.00	300.00	288.50	288.49	0.85	0.50	55.37	33.23	48.12	58.48	57.13	1.35	43.198		
1.000.00	400.00	400.00	388.63	388.60	1.21	0.68	56.92	31.39	48.19	57.52	55.62	1.89	30.378		
1,000	500.00	500.00	488.57	488.52	1.57	1.05	58.87	29.29	48.48	56.65	54.03	2.61	21.686		
1,000.00 0,000 0	600.00	600.00	588.55	588.47	1.93	1.41	61.07	26.97	48.79	55.75	52.42	3.33	16.735		
1,000.00 1,000.00 1,088.87 888.47 888.48 3.00 2.49 66.36 67.99 195.3 48.32 52.17 47.49 48.92 62.17 8.389 1.100.00 1,000.00 1,089.76 1,089.48 3.72 3.22 72.88 14.63 47.49 48.72 42.78 6.93 7.170 7.	700.00	700.00	688.64	688.54	2.29	1.77	63.04	24.86	48.89	54.85	50.80	4.05	13.541		
1,000	800.00	800.00	788.65	788.53	2.64	2.13	64.77	22.96	48.73	53.87	49.10	4.77	11.295		
1,000.00	900.00	900.00	888.57	888.43	3.00	2.49	66.36	21.24	48.53	52.97	47.49	5.49	9.655		
1,200.00 1,200.00 1,188.46 1,188.56 4.08 3.80 85.43 3.77 47.20 47.36 39.68 7.68 6.170 1,1172 1,1215 1,2175 1,205.68 1,005.46 1,	1,000.00	1,000.00	988.88	988.73	3.36	2.85	67.99	19.53	48.32	52.12	45.92	6.21	8.398		
1,217.28 1,217.28 1,210.55 1,200.56 1,200.54 4.42 4.00 -100.10 -100.56 -12.65 4.71 4.71 4.72 4.75 4.90 4.12 8.48 5.910 SF															
1,000 1,399.56 1,385.78 1,385.89 4.42 4.00 -100.10 -12.655 47.19 48.70 41.29 8.41 5.910 \$F\$ 1,400.00 1,399.63 1,385.78 1,385.78 1,385.78 4.42 -85.61 -85.61 -83.316 47.43 58.72 49.61 -9.11 5.910 \$F\$ 1,500.00 1,498.77 1,482.04 1,474.02 5.09 4.42 -85.61 -83.316 -88.81 -80.70 -9.14 -80.889 10.53 8.684 -80.70 -9.14 -80.889 -10.53 -8.684 -80.70 -9.14 -80.889 -10.53 -8.684 -80.70 -9.14 -80.889 -10.53 -8.684 -80.70 -9.14 -80.889 -10.53 -8.684 -80.70 -9.14 -80.889 -10.53 -8.684 -80.70 -9.14 -80.889 -9.72 -9.14															
1,400.00														3	
1,500.00 1,498.77 1,482.04 1,474.02 5.09 4.87 487.04 -59.11 48.46 73.28 63.49 9.79 7.486 1,500.00 1,597.08 1,578.79 1,566.26 5.45 5.37 435.00 4.881.8 50.70 91.42 80.99 10.53 8.684 1,500.00 1,700.00 1,684.72 1,677.15 1,573.88 6.24 5.45 5.37 435.00 4.881.8 50.70 91.42 80.99 10.53 8.684 1,500.00 1,700.00 1,684.72 1,677.15 1,573.88 6.24 6.43 4.18.8 147.99 55.85 128.07 115.64 12.22 10.478 1,500.00 1,700.00 1,889.70 1,874.58 1,848.17 7.08 7.73 4.18.88 147.99 55.85 128.07 115.64 12.22 10.478 1,500.00 1,889.70 1,874.58 1,848.17 7.08 7.73 4.18.87 1,774.1 58.48 146.04 132.92 13.11 11.136 1,500.00 1,887.80 1,973.67 1,942.91 7.08 7.73 4.18.87 1,200.00 1,887.80 1,973.67 1,942.91 7.08 7.73 4.18.87 1,200.00 1,887.80 1,973.67 1,942.91 7.08 7.73 4.18.87 1,200.00 1,887.80 1,973.67 1,972.80 1,9															
1,600.00 1,597.08 1,578.79 1,566.28 5,45 5,37 438.00 4.88.18 50.70 91.42 80.99 10.53 8.884 1,700.00 1,684.72 1,877.15 1,753.86 6.24 6.43 4.188 -147.99 55.85 128.07 115.84 12.22 10.478 1,900.00 1,889.97 1,874.58 1,884.17 6.65 6.98 481.78 -147.741 58.48 146.04 132.92 13.11 11.136 1,900.00 1,987.60 1,947.91 7.08 7.52 8.08 42.17 4.17 4.18 4.18 4.14.99 1.63.62 4.9.99 1.4.03 11.664 1.204	1,400.00	1,399.63	1,385.78	1,381.20	4.75	4.42	-95.61	-33.64	47.43	58.72	49.61	9.11	6.446		
1,700															
1,800.00															
1,900,00 1,889,97 1,874,58 1,848,17 6,65 6,98 -81,78 -177,41 58,48 146,04 13,29 13,11 11,136 2,000,00 1,987,60 1,973,67 1,942,91 7,08 7,52 8,08 -82,11 -205,30 61,11 163,62 149,59 14,03 11,664 2,000,00 2,182,285 2,171,62 2,192,68 7,97 8,64 -82,44 -262,37 65,0 197,82 16,193 15,89 12,400 2,300,00 2,280,47 2,271,33 2,228,45 8,42 9,20 -82,77 -289,99 69,12 214,46 197,62 16,85 12,731 2,500,00 2,475,72 2,419,93 9,35 10,30 -83,63 -34,20 74,09 246,40 227,63 18,77 13,127 2,500,00 2,573,35 2,569,78 2,561,17 9,82 10,85 -84,19 -384,92 76,83 262,01 242,26 19,75 13,383 2,500,00 <															
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220000 2,182,85 2,171,62 2,132,88 7,97 8,64 -82,44 -282,37 66,50 197,82 181,93 15,89 12,450 2,300,00 2,280,47 2,271,33 2,228,45 8,42 9,20 -82,77 -289,99 69,12 214,46 197,62 16,85 12,731 2,400,00 2,373,35 2,470,12 2,449,93 9,35 10,30 -83,63 -343,20 74,09 246,40 227,63 18,77 13,127 2,600,00 2,673,35 2,569,78 2,516,17 9,82 10,85 -84,19 -368,92 76,83 262,01 242,26 19,75 13,269 2,700,00 2,670,97 2,666,35 2,612,46 10,29 11,39 -84,78 -394,12 79,56 2,768,60 2,765,54 2,799,47 10,77 11,93 -85,37 -419,01 82,20 29,23 2,066 12,171 13,464 2,900,00 2,686,22 2,869,54 2,906,11 11,23 13,00 -86,14											149.59		11.664		
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3,200.00 3,159.10 3,165.02 3,091.16 12.70 14.12 -86.03 -522.26 87.55 351.16 325.53 25.63 13.700 3,300.00 3,256.72 3,262.66 3,185.09 13.19 14.68 -85.93 -548.88 87.94 365.78 339.17 26.61 13.746 3,400.00 3,354.35 3,356.30 3,274.62 13.68 15.23 -85.61 -576.32 88.60 381.82 354.28 27.54 13.866 3,500.00 3,451.97 3,456.26 3,370.07 14.17 15.82 -85.27 -606.00 89.53 398.30 369.76 28.54 13.956 3,600.00 3,549.60 3,559.12 3,468.73 14.66 16.42 -85.13 -635.05 90.54 413.97 384.39 29.58 13.995 3,700.00 3,647.22 3,655.58 3,561.53 15.16 16.98 -85.12 -661.36 91.53 429.11 398.55 30.55 14.045 3,800.00 3,744.85 3,752.21 3,654.04 15.65 17.54 -84.95 -689.24 92.71 445.32 413.80 31.52 14.128 3,900.00 3,842.47 3,854.01 3,751.84 16.15 18.13 -84.94 -717.47 94.39 461.23 428.68 32.55 14.169 4,000.00 3,940.10 3,950.01 3,844.27 16.64 18.68 -85.03 -743.32 96.20 476.85 443.33 33.52 14.224 4,100.00 4,037.72 4,047.89 3,938.10 17.14 19.25 -84.95 -771.15 97.84 493.20 458.68 34.51 14.290 4,200.00 4,135.35 4,151.80 4,038.03 17.64 19.85 -85.00 -799.57 99.78 509.05 473.48 35.57 14.311 4,300.00 4,232.97 4,248.30 4,131.06 18.14 20.40 -85.11 -825.13 101.60 524.41 487.85 36.55 14.347 4,400.00 4,330.60 4,347.64 4,226.44 18.63 20.98 -85.06 -852.88 102.84 540.11 502.55 37.56 14.380 4,500.00 4,282.27 4,448.36 4,323.11 19.13 21.56 -84.97 -881.12 103.67 555.53 516.95 38.58 14.398 4,600.00 4,623.47 4,652.75 4,519.91 20.13 22.73 -84.95 -936.27 104.85 584.55 543.89 40.66 14.376	3,000.00	2,963.85	2,966.64	2,900.19	11.73	13.00	-86.14	-468.60	86.01	321.58	297.93	23.66	13.592		
3,300.00 3,256.72 3,262.66 3,185.09 13.19 14.68 -85.93 -548.88 87.94 365.78 339.17 26.61 13.746 3,400.00 3,354.35 3,356.30 3,274.62 13.68 15.23 -85.61 -576.32 88.60 381.82 354.28 27.54 13.866 3,500.00 3,451.97 3,456.26 3,370.07 14.17 15.82 -85.27 -606.00 89.53 398.30 369.76 28.54 13.956 3,600.00 3,549.60 3,559.12 3,468.73 14.66 16.42 -85.13 -635.05 90.54 413.97 384.39 29.58 13.995 3,700.00 3,647.22 3,655.58 3,561.53 15.16 16.98 -85.12 -661.36 91.53 429.11 398.55 30.55 14.045 3,800.00 3,744.85 3,752.21 3,654.04 15.65 17.54 -84.95 -689.24 92.71 445.32 413.80 31.52 14.128 3,900.00 3,842.47 3,854.01 3,751.84 16.15 18.13 -84.94 -717.47 94.39 461.23 428.68 32.55 14.169 4,000.00 3,940.10 3,950.01 3,844.27 16.64 18.68 -85.03 -743.32 96.20 476.85 443.33 33.52 14.224 4,100.00 4,037.72 4,047.89 3,938.10 17.14 19.25 -84.95 -771.15 97.84 493.20 458.68 34.51 14.290 4,200.00 4,135.35 4,151.80 4,038.03 17.64 19.85 -85.00 -799.57 99.78 509.05 473.48 35.57 14.311 4,300.00 4,330.60 4,347.64 4,226.44 18.63 20.98 -85.06 -852.88 102.84 540.11 502.55 37.56 14.380 4,500.00 4,282.22 4,448.36 4,323.11 19.13 21.56 -84.97 -881.12 103.67 555.53 516.95 38.58 14.398 4,600.00 4,623.47 4,652.75 4,519.91 20.13 22.73 -84.95 -936.27 104.65 584.55 543.89 40.66 14.376															
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4,900.00 4,818.72 4,848.16 4,707.72 21.14 23.86 -84.83 -990.22 105.61 614.33 571.68 42.65 14.405															



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error: Reference Well: Rincon Unit 817H

Well Error: 0.00 ft Reference Wellbore Reference Design: rev1

Original Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference:

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

Offset TVD Reference:

Grid

DB Decv0422v16 Offset Datum

urvey Prog Refe	ram: 38	5-MWD, 6028- Off s			ajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi	gned:		Offset Site Error: Offset Well Error:	0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,916.35	4,952.71	4,808.63	21.64	24.45	-84.88	-1,017.57	105.93	628.20	584.49	43.71	14.372		
5,100.00	5,013.97	5,052.35	4,904.67	22.14	25.01	-84.86	-1,044.13	105.75	641.99	597.27	44.72	14.356		
5,200.00	5,111.60	5,160.80	5,009.46	22.64	25.61	-84.89	-1,072.06	105.09	654.90	609.08	45.81	14.295		
5,300.00	5,209.22	5,266.79	5,112.49	23.15	26.17	-85.10	-1,096.89	104.44	666.40	619.52	46.88	14.216		
5,400.00	5,306.85	5,371.91	5,215.09	23.65	26.70	-85.43	-1,119.76	104.08	677.17	629.24	47.93	14.129		
5,500.00	5,404.47	5,480.88	5,321.85	24.15	27.24	-85.89	-1,141.59	103.55	686.84	637.83	49.00	14.016		
5,600.00	5,502.10	5,584.04	5,423.22	24.66	27.72	-86.42	-1,160.71	102.84	695.52	645.48	50.03	13.901		
5,700.00	5,599.72	5,713.06	5,550.59	25.16	28.28	-87.26	-1,181.12	101.34	702.47	651.30	51.17	13.729		
5,800.00	5,697.36	5,839.64	5,676.67	25.66	28.72	-88.67	-1,191.74	98.71	704.49	652.27	52.21	13.493		
5,900.00	5,795.63	5,944.19	5,781.06	26.13	29.05	-89.79	-1,196.98	96.30	704.96	651.83	53.13	13.268		
6,000.00	5,894.73	6,051.35	5,888.12	26.55	29.19	-90.56	-1,200.87	93.65	704.76	650.99	53.76	13.109		
6,100.00	5,994.39	6,748.11	6,477.85	26.92	29.75	-74.48	-1,215.43	-206.29	690.83	654.21	36.62	18.863		
6,200.00	6,094.34	7,026.47	6,563.24	27.22	30.76	-39.00	-1,222.20	-467.75	610.69	580.67	30.02	20.343		
6,300.00	6,194.34	7,047.90	6,564.53	27.48	30.88	175.70	-1,222.93	-489.12	535.38	502.19	33.19	16.132		
6,400.00	6,294.18	7,047.92	6,564.54	27.73	30.88	92.00	-1,222.93	-489.14	469.14	431.55	37.59	12.480		
6,500.00	6,391.90	7,025.62	6,563.36	27.91	30.75	94.84	-1,222.18	-466.89	416.73	374.16	42.57	9.789		
6,600.00	6,484.57	6,989.38	6,559.80	28.03	30.56	93.12	-1,220.90	-430.85	383.17	336.22	46.96	8.160		
6,700.00	6,569.37	6,949.78	6,553.39	28.10	30.38	88.68	-1,219.59	-391.81	371.60	322.42	49.17	7.557		
6,701.83	6,570.83	6,949.04	6,553.25	28.10	30.38	88.57	-1,219.57	-391.08	371.59	322.41	49.19	7.555		
6,800.00	6,643.71	6,907.06	6,543.62	28.11	30.21	81.95	-1,218.42	-350.24	381.37	332.47	48.90	7.799		
6,900.00	6,705.34	6,864.63	6,530.80	28.08	30.06	74.04	-1,217.53	-309.82	407.99	360.69	47.30	8.626		
7,000.00	6,756.00	6,824.01	6,515.01	28.02	29.93	68.00	-1,216.81	-272.41	447.17	401.41	45.75	9.773		
7,100.00	6,796.79	6,785.00	6,496.82	27.98	29.83	59.28	-1,216.08	-237.92	495.12	450.21	44.91	11.025		
7,200.00	6,821.13	6,724.50	6,465.58	27.94	29.70	50.25	-1,215.11	-186.13	544.39	499.90	44.49	12.235		
7,300.00	6,828.38	6,679.03	6,440.51	28.00	29.62	44.48	-1,214.36	-148.22	590.36	545.03	45.33	13.024		
7,400.00	6,828.73	6,639.76	6,415.98	28.61	29.55	42.60	-1,213.37	-117.58	639.72	593.03	46.69	13.702		
7,500.00	6,829.08	6,596.00	6,386.04	29.81	29.49	40.46	-1,212.15	-85.70	695.90	648.00	47.90	14.529		
7,600.00	6,829.43	6,565.00	6,363.34	31.23	29.45	38.97	-1,211.46	-64.61	757.93	708.57	49.37	15.353		
7,700.00	6,829.77	6,541.99	6,345.78	32.79	29.42	37.88	-1,211.09	-49.74	824.94	774.08	50.86	16.220		
7,800.00 7,900.00	6,830.12 6,830.47	6,514.01 6,490.80	6,323.79 6,304.98	34.47 36.25	29.40 29.38	36.60 35.55	-1,210.66 -1,210.33	-32.45 -18.88	896.05 970.68	844.03 917.57	52.02 53.10	17.224 18.279		
8,000.00	6,830.82	6,470.00	6,287.63	38.12	29.36	34.64	-1,210.10	-7.39	1,048.40	994.34	54.05	19.395		
8,100.00	6,831.16	6,451.27	6,271.67	40.06	29.35	33.84	-1,209.88	2.40	1,128.69	1,073.81	54.88	20.566		
8,200.00	6,831.51	6,439.00	6,261.05	42.06	29.34	33.32	-1,209.71	8.55	1,211.17	1,155.51	55.66	21.760		
8,300.00 8,400.00	6,831.86 6,832.21	6,408.00 6,408.00	6,233.70 6,233.70	44.12 46.23	29.32 29.32	32.03 32.03	-1,209.09 -1,209.09	23.12 23.12	1,295.49 1,381.29	1,239.39 1,324.50	56.10 56.80	23.093 24.320		
8,500.00	6,832.55	6,387.60	6,215.32	48.37	29.31	31.20	-1,208.54	31.95	1,468.46	1,411.26	57.20	25.673		
8,600.00	6,832.90	6,376.00	6,204.75	50.56	29.30	30.73	-1,208.19	36.72	1,556.84	1,499.23	57.62	27.020		
8,700.00	6,833.25	6,362.90	6,192.72	52.78	29.30	30.22	-1,207.77	41.88	1,646.26	1,588.28	57.97	28.397		
8,800.00	6,833.60	6,344.00	6,175.19	55.02	29.29	29.49	-1,207.17	48.91	1,736.64	1,678.41	58.23	29.823		
8,900.00	6,833.94	6,344.00	6,175.19	57.29	29.29	29.49	-1,207.17	48.91	1,827.70	1,769.12	58.58	31.201		
9,000.00	6,834.29	6,332.14	6,164.09	59.59	29.28	29.05	-1,206.79	53.08	1,919.52	1,860.70	58.81	32.637		
9,100.00	6,834.64	6,313.00	6,146.04	61.90	29.27	28.36	-1,206.23	59.42	2,012.05	1,953.05	59.00	34.102		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Well Rincon Unit 817H

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Survey Calculation Method:
Output errors are at
Database:

2.00 sigma DB_Decv0422v16

Offset TVD Reference:

													Offset Site Error:	0.00
urvey Progr		MWD Off		Comi M	laiau Avia		Office Mallh	ana Camtua	Die	Rule Assi	gned:		Offset Well Error:	0.00
Refer Measured Depth	Vertical Depth	Offs Measured Depth	Vertical Depth	Reference	ajor Axis Offset	Highside Toolface	Offset Wellb	+E/-W	Between Centres	tance Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.00	0.00	53.31	23.78	31.92	39.81	00.54	0.07	440.000		
100.00	100.00	100.00	100.00	0.13	0.13	53.31	23.78	31.92	39.81	39.54	0.27	148.062		
200.00	200.00	200.00	200.00	0.49	0.49	53.31	23.78	31.92	39.81	38.82	0.99	40.381		
300.00	300.00	300.00	300.00	0.85	0.85	53.31	23.78	31.92	39.81	38.10	1.70	23.378		
400.00	400.00	400.00	400.00	1.21	1.21	53.31	23.78	31.92	39.81	37.39	2.42	16.451		
500.00	500.00	500.00	500.00	1.57	1.57	53.31	23.78	31.92	39.81	36.67	3.14	12.691		
600.00	600.00	600.00	600.00	1.93	1.93	53.31	23.78	31.92	39.81	35.95	3.85	10.330		
700.00	700.00	700.00	700.00	2.29	2.29	53.31	23.78	31.92	39.81	35.24	4.57	8.710		
800.00	800.00	800.00	800.00	2.64	2.64	53.31	23.78	31.92	39.81	34.52	5.29	7.529		
900.00	900.00	900.00	900.00	3.00	3.00	53.31	23.78	31.92	39.81	33.80	6.00	6.630		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	53.31	23.78	31.92	39.81	33.09	6.72	5.922		
1,100.00	1,100.00	1,100.38	1,100.33	3.72	3.72	49.56	25.49	29.91	39.30	31.86	7.44	5.285		
1,184.58	1,184.58	1,184.86	1,184.58	4.02	4.02	40.33	29.57	25.10	38.79	30.75	8.04	4.824 CC		
1,200.00	1,200.00	1,200.20	1,199.84	4.02	4.08	38.05	30.57	23.93	38.82	30.67	8.15	4.763 ES		
1,300.00	1,299.95	1,299.05	1,199.84	4.42	4.44	169.46	38.78	14.26	43.94	35.09	8.85	4.765 E3		
1,400.00	1,399.63	1,397.55	1,395.37	4.42	4.44	157.44	47.81	3.62	57.62	48.09	9.54	6.042		
.,	.,000.00	.,007.00	.,000.01	4.73	7.00		77.01	0.02	51.02	70.03	0.04	5.57£		
1,500.00	1,498.77	1,495.40	1,492.22	5.09	5.18	151.93	56.79	-6.95	77.33	67.09	10.24	7.554		
1,600.00	1,597.08	1,592.31	1,588.16	5.45	5.56	150.01	65.67	-17.42	101.80	90.85	10.95	9.300		
1,700.00	1,694.72	1,688.49	1,683.37	5.83	5.94	149.79	74.49	-27.81	129.18	117.52	11.66	11.077		
1,800.00	1,792.35	1,784.65	1,778.56	6.24	6.32	149.71	83.31	-38.20	156.62	144.24	12.38	12.651		
1,900.00	1,889.97	1,880.81	1,873.75	6.65	6.70	149.65	92.13	-48.58	184.06	170.95	13.11	14.042		
2 000 00	1 007 60	1.076.00	1 060 04	7.00	7.00	140.61	100.05	E0.07	011 51	107.66	12.04	45 077		
2,000.00	1,987.60	1,976.98	1,968.94	7.08	7.09	149.61	100.95	-58.97	211.51	197.66	13.84	15.277		
2,100.00	2,085.22	2,073.14	2,064.13	7.52	7.48	149.58	109.77	-69.36	238.95	224.36	14.59	16.381		
2,200.00	2,182.85	2,169.30	2,159.32	7.97	7.87	149.56	118.59	-79.75	266.39	251.06	15.34	17.370		
2,300.00 2,400.00	2,280.47 2,378.10	2,265.46 2,361.62	2,254.51 2,349.70	8.42 8.88	8.27 8.66	149.54 149.52	127.40 136.22	-90.13 -100.52	293.83 321.28	277.74 304.43	16.09 16.85	18.262 19.070		
2,400.00	2,376.10	2,301.02	2,349.70	0.00	0.00	149.52	130.22	-100.52	321.20	304.43	10.05	19.070		
2,500.00	2,475.72	2,457.78	2,444.90	9.35	9.06	149.50	145.04	-110.91	348.72	331.11	17.61	19.803		
2,600.00	2,573.35	2,553.94	2,540.09	9.82	9.46	149.49	153.86	-121.30	376.16	357.79	18.37	20.473		
2,700.00	2,670.97	2,650.10	2,635.28	10.29	9.85	149.48	162.68	-131.68	403.61	384.46	19.14	21.085		
2,800.00	2,768.60	2,746.26	2,730.47	10.77	10.25	149.47	171.50	-142.07	431.05	411.14	19.91	21.647		
2,900.00	2,866.22	2,842.42	2,825.66	11.25	10.65	149.46	180.32	-152.46	458.49	437.81	20.69	22.165		
0.000.00	0.000.05	0.000.50	0.000.05	44.70	44.05	110.10	100.10	100.05	105.01	101.10	04.40	00.044		
3,000.00	2,963.85	2,938.58	2,920.85	11.73	11.05	149.46	189.13	-162.85	485.94	464.48	21.46	22.644		
3,100.00	3,061.47	3,034.74	3,016.04	12.21	11.45	149.45	197.95	-173.23	513.38	491.14	22.24	23.087		
3,200.00	3,159.10	3,130.90	3,111.23	12.70	11.86	149.44	206.77	-183.62	540.82	517.81	23.01	23.499		
3,300.00	3,256.72	3,227.06	3,206.42	13.19	12.26	149.44	215.59	-194.01 -204.40	568.27 505.71	544.47 571.13	23.79	23.882		
3,400.00	3,354.35	3,323.22	3,301.61	13.68	12.66	149.43	224.41	-204.40	595.71	571.13	24.58	24.240		
3,500.00	3,451.97	3,419.39	3,396.80	14.17	13.06	149.43	233.23	-214.78	623.15	597.79	25.36	24.574		
3,600.00	3,549.60	3,515.55	3,491.99	14.66	13.47	149.43	242.05	-225.17	650.59	624.45	26.14	24.888		
3,700.00	3,647.22	3,611.71	3,587.18	15.16	13.87	149.42	250.86	-235.56	678.04	651.11	26.93	25.182		
3,800.00	3,744.85	3,707.87	3,682.37	15.65	14.27	149.42	259.68	-245.94	705.48	677.77	27.71	25.458		
3,900.00	3,842.47	3,804.03	3,777.56	16.15	14.68	149.42	268.50	-256.33	732.92	704.43	28.50	25.719		
4,000.00	3,940.10	3,900.19	3,872.75	16.64	15.08	149.41	277.32	-266.72	760.37	731.08	29.28	25.965		
4,100.00	4,037.72	3,996.35	3,967.94	17.14	15.49	149.41	286.14	-277.11	787.81	757.74	30.07	26.197		
4,200.00	4,135.35	4,092.51	4,063.13	17.64	15.89	149.41	294.96	-287.49	815.25	784.39	30.86	26.417		
4,300.00	4,232.97	4,188.67	4,158.32	18.14	16.30	149.41	303.77	-297.88	842.70	811.05	31.65	26.625		
4,400.00	4,330.60	4,284.83	4,253.51	18.63	16.70	149.40	312.59	-308.27	870.14	837.70	32.44	26.823		
4,500.00	4,428.22	4,380.99	4,348.70	19.13	17.11	149.40	321.41	-318.66	897.58	864.35	33.23	27.011		
4,600.00	4,525.85	4,477.15	4,443.89	19.63	17.51	149.40	330.23	-329.04	925.03	891.00	34.02	27.189		
4,700.00	4,623.47	4,573.31	4,539.08	20.13	17.92	149.40	339.05	-339.43	952.47	917.66	34.81	27.169		
4,800.00	4,721.10	4,669.47	4,634.27	20.13	18.32	149.40	347.87	-349.82	979.91	944.31	35.61	27.522		
1,000.00	7,121.10	7,000.77	7,004.27	20.04	10.02	1-0.40	J-11.01	040.02	010.01	U-1-1.U I	33.01	21.022		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error:

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

													Offset Site Error:	0.00
urvey Progi Refe	ram: 0-l rence	MWD Offs	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dis	Rule Assi tance	gned:		Offset Well Error:	0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,000.00	4,916.35	4,861.79	4,824.65	21.64	19.13	149.39	365.50	-370.59	1,034.80	997.61	37.19	27.824		
5,100.00	5,013.97	4,957.96	4,919.85	22.14	19.54	149.39	374.32	-380.98	1,062.24	1,024.26	37.98	27.966		
5,200.00	5,111.60	5,054.12	5,015.04	22.64	19.95	149.39	383.14	-391.37	1,089.69	1,050.91	38.78	28.101		
5,300.00	5,209.22	5,150.28	5,110.23	23.15	20.35	149.39	391.96	-401.75	1,117.13	1,077.56	39.57	28.231		
5,400.00	5,306.85	5,246.44	5,205.42	23.65	20.76	149.39	400.78	-412.14	1,144.57	1,104.21	40.37	28.355		
5,500.00	5,404.47	5,342.60	5,300.61	24.15	21.17	149.39	409.60	-422.53	1,172.02	1,130.86	41.16	28.475		
5,600.00	5,502.10	5,438.76	5,395.80	24.66	21.57	149.38	418.42	-432.92	1,199.46	1,157.50	41.95	28.589		
5,700.00	5,599.72	5,534.92	5,490.99	25.16	21.98	149.38	427.23	-443.30	1,226.90	1,184.15	42.75	28.700		
5,800.00	5,697.36	5,631.09	5,586.19	25.66	22.39	149.44	436.05	-453.69	1,254.31	1,210.76	43.55	28.805		
5,900.00	5,795.63	5,727.96	5,682.08	26.13	22.79	149.75	444.94	-464.16	1,279.02	1,234.69	44.33	28.850		
6,000.00	5,894.73	5,825.77	5,778.90	26.55	23.21	149.86	453.91	-474.72	1,299.34	1,254.23	45.11	28.804		
6,100.00	5,994.39	5,960.91	5,912.92	26.92	23.76	149.73	465.11	-487.92	1,314.56	1,268.43	46.13	28.495		
6,200.00	6,094.34	6,138.22	6,089.92	27.22	24.39	149.62	471.04	-494.90	1,320.30	1,273.05	47.25	27.941		
6,300.00	6,194.34	6,242.64	6,194.34	27.48	24.72	0.97	471.05	-494.92	1,320.31	1,272.41	47.90	27.564		
6,400.00	6,294.18	6,339.51	6,291.13	27.73	25.01	-88.64	471.08	-492.20	1,320.28	1,271.81	48.47	27.238		
6,500.00	6,391.90	6,434.49	6,384.46	27.91	25.22	-88.76	471.21	-475.19	1,320.22	1,271.32	48.90	26.997		
6,600.00	6,484.57	6,529.94	6,474.14	28.03	25.37	-88.91	471.46	-442.81	1,320.15	1,270.92	49.23	26.818		
6,700.00	6,569.37	6,626.00	6,557.71	28.10	25.48	-89.10	471.83	-395.67	1,320.07	1,270.58	49.49	26.673		
6,800.00	6,643.71	6,722.79	6,632.76	28.11	25.56	-89.32	472.31	-334.75	1,320.00	1,270.23	49.78	26.518		
6,900.00	6,705.34	6,820.41	6,696.99	28.08	25.64	-89.55	472.88	-261.40	1,319.95	1,269.76	50.19	26.297		
7,000.00	6,756.00	6,919.38	6,749.44	28.02	25.79	-89.67	473.54	-177.55	1,319.93	1,269.08	50.86	25.955		
7,100.00	6,796.79	7,018.65	6,794.73	27.98	26.09	-89.90	474.23	-89.32	1,319.91	1,268.06	51.85	25.457		
7,136.59	6,807.65	7,055.09	6,807.60	27.96	26.26	-90.00	474.50	-55.23	1,319.91	1,267.59	52.32	25.227		
7,200.00	6,821.13	7,118.60	6,824.76	27.94	26.63	-90.16	474.98	5.88	1,319.91	1,266.71	53.21	24.807		
7,300.00	6,828.38	7,219.61	6,837.85	28.00	27.41	-90.41	475.76	105.90	1,319.94	1,265.03	54.92	24.035		
7,400.00	6,828.73	7,319.98	6,838.63	28.61	28.40	-90.43	476.55	206.26	1,319.95	1,262.97	56.98	23.166		
7,500.00	6,829.08	7,419.98	6,838.97	29.81	29.58	-90.43	477.33	306.26	1,319.95	1,260.56	59.39	22.225		
7,600.00	6,829.43	7,519.98	6,839.32	31.23	30.93	-90.43	478.12	406.25	1,319.95	1,257.82	62.13	21.245		
7,700.00	6,829.77	7,619.98	6,839.67	32.79	32.43	-90.43	478.90	506.25	1,319.95	1,254.79	65.16	20.258		
7,800.00	6,830.12	7,719.98	6,840.02	34.47	34.06	-90.43	479.68	606.24	1,319.95	1,251.52	68.43	19.289		
7,900.00	6,830.47	7,819.98	6,840.37	36.25	35.79	-90.43	480.47	706.24	1,319.95	1,248.04	71.92	18.354		
8,000.00	6,830.82	7,919.98	6,840.71	38.12	37.62	-90.43	481.25	806.24	1,319.95	1,244.37	75.59	17.463		
8,100.00	6,831.16	8,019.98	6,841.06	40.06	39.53	-90.43	482.04	906.23	1,319.95	1,240.54	79.42	16.621		
8,200.00	6,831.51	8,119.98	6,841.41	42.06	41.50	-90.43	482.82	1,006.23	1,319.95	1,236.57	83.38	15.830		
8,300.00	6,831.86	8,219.98	6,841.76	44.12	43.54	-90.43	483.60	1,106.23	1,319.95	1,232.49	87.47	15.091		
8,400.00	6,832.21	8,319.98	6,842.11	46.23	45.63	-90.43	484.39	1,206.22	1,319.95	1,228.30	91.65	14.402		
8,500.00	6,832.55	8,419.98	6,842.45	48.37	47.76	-90.43	485.17	1,306.22	1,319.95	1,224.03	95.93	13.760		
8,600.00	6,832.90	8,519.98	6,842.80	50.56	49.93	-90.43	485.95	1,406.22	1,319.95	1,219.67	100.28	13.162		
8,700.00	6,833.25	8,619.98	6,843.15	52.78	52.14	-90.43	486.74	1,506.21	1,319.96	1,215.25	104.70	12.607		
8,800.00	6,833.60	8,719.98	6,843.50	55.02	54.38	-90.43	487.52	1,606.21	1,319.96	1,210.77	109.18	12.089		
8,900.00	6,833.94	8,819.98	6,843.84	57.29	56.64	-90.43	488.31	1,706.20	1,319.96	1,206.24	113.72	11.607		
9,000.00	6,834.29	8,919.98	6,844.19	59.59	58.92	-90.43	489.09	1,806.20	1,319.96	1,201.66	118.30	11.158		
9,100.00	6,834.64	9,019.98	6,844.54	61.90	61.23	-90.43	489.87	1,906.20	1,319.96	1,197.04	122.92	10.738		
9,200.00	6,834.99	9,119.98	6,844.89	64.23	63.56	-90.43	490.66	2,006.19	1,319.96	1,192.38	127.58	10.346		
9,300.00	6,835.33	9,219.98	6,845.24	66.58	65.90	-90.43	491.44	2,106.19	1,319.96	1,187.69	132.27	9.979		
9,400.00	6,835.68	9,319.98	6,845.58	68.94	68.26	-90.43	492.22	2,206.19	1,319.96	1,182.97	136.99	9.635		
9,500.00	6,836.03	9,419.98	6,845.93	71.31	70.63	-90.43	493.01	2,306.18	1,319.96	1,178.22	141.74	9.313		
9,600.00	6,836.38	9,519.98	6,846.28	73.70	73.01	-90.43	493.79	2,406.18	1,319.96	1,173.45	146.51	9.009		
9,700.00	6,836.72	9,619.98	6,846.63	76.09	75.41	-90.43	494.57	2,506.17	1,319.96	1,168.66	151.30	8.724		
9,800.00	6,837.07	9,719.98	6,846.97	78.50	77.81	-90.43	495.36	2,606.17	1,319.96	1,163.85	156.11	8.455		
9,900.00	6,837.42	9,819.98	6,847.32	80.92	80.22	-90.43	496.14	2,706.17	1,319.96	1,159.02	160.95	8.201		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

Site Error: 0.00 ft Reference Well: Rincon Unit 817H

Well Error: 0.00 ft Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

													Offset Site Error:	0.00
urvey Progr	ram: 0-l	MWD O ff	not.	Comi I	lajor Axis		Offset Wellb	oro Contro	Die	Rule Assi tance	gned:		Offset Well Error:	0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	i actor		
10,000.00	6,837.77	9,919.98	6,847.67	83.34	82.65	-90.43	496.93	2,806.16	1,319.96	1,154.17	165.79	7.962		
10,100.00	6,838.11	10,019.98	6,848.02	85.77	85.08	-90.43	497.71	2,906.16	1,319.96	1,149.31	170.66	7.735		
10,200.00	6,838.46	10,119.98	6,848.37	88.21	87.51	-90.43	498.49	3,006.16	1,319.96	1,144.43	175.53	7.520		
10,300.00	6,838.81	10,219.98	6,848.71	90.65	89.96	-90.43	499.28	3,106.15	1,319.96	1,139.54	180.42	7.316		
10,400.00	6,839.16	10,319.98	6,849.06	93.10	92.40	-90.43	500.06	3,206.15	1,319.96	1,134.64	185.32	7.123		
10,500.00	6,839.50	10,419.98	6,849.41	95.55	94.86	-90.43	500.84	3,306.15	1,319.97	1,129.73	190.23	6.939		
10,600.00	6,839.85	10.519.98	6,849.76	98.01	97.32	-90.43	501.63	3,406.14	1,319.97	1,124.81	195.15	6.764		
10,700.00	6.840.20	10,619.98	6,850.11	100.48	99.78	-90.43	502.41	3,506.14	1,319.97	1,119.88	200.08	6.597		
10,800.00	6,840.55	10,719.98	6,850.45	102.94	102.25	-90.43	503.20	3,606.13	1,319.97	1,114.95	205.02	6.438		
10,900.00	6,840.89	10,819.98	6,850.80	105.42	104.72	-90.43	503.98	3,706.13	1,319.97	1,110.00	209.97	6.287		
11,000.00	6,841.24	10,919.98	6,851.15	107.89	107.20	-90.43	504.76	3,806.13	1,319.97	1,105.05	214.92	6.142		
	-,-	.,.						-,	,	,				
11,100.00	6,841.59	11,019.98	6,851.50	110.37	109.68	-90.43	505.55	3,906.12	1,319.97	1,100.09	219.88	6.003		
11,200.00	6,841.94	11,119.98	6,851.84	112.85	112.16	-90.43	506.33	4,006.12	1,319.97	1,095.12	224.85	5.870		
11,300.00	6,842.29	11,219.98	6,852.19	115.34	114.64	-90.43	507.11	4,106.12	1,319.97	1,090.15	229.82	5.743		
11,400.00	6,842.63	11,319.98	6,852.54	117.83	117.13	-90.43	507.90	4,206.11	1,319.97	1,085.17	234.80	5.622		
11,500.00	6,842.98	11,419.98	6,852.89	120.32	119.62	-90.43	508.68	4,306.11	1,319.97	1,080.18	239.79	5.505		
11,600.00	6,843.33	11,519.98	6,853.24	122.81	122.12	-90.43	509.47	4,406.11	1,319.97	1,075.19	244.78	5.393		
					124.61							5.285		
11,700.00	6,843.68 6,844.02	11,619.98 11,719.98	6,853.58 6,853.93	125.31 127.81	124.61	-90.43 -90.43	510.25 511.03	4,506.10 4,606.10	1,319.97 1,319.97	1,070.20 1,065.20	249.77 254.77	5.265		
11,800.00	6,844.37			130.31	129.61						259.77	5.081		
11,900.00		11,819.98 11,919.98	6,854.28			-90.43	511.82	4,706.09	1,319.97	1,060.20				
12,000.00	6,844.72	11,919.98	6,854.63	132.81	132.12	-90.43	512.60	4,806.09	1,319.97	1,055.20	264.78	4.985		
12,100.00	6,845.07	12,019.98	6,854.97	135.31	134.62	-90.43	513.38	4,906.09	1,319.97	1,050.19	269.79	4.893		
12,200.00	6,845.41	12,119.98	6,855.32	137.82	137.13	-90.43	514.17	5,006.08	1,319.97	1,045.17	274.80	4.803		
12,300.00	6,845.76	12,219.98	6,855.67	140.33	139.63	-90.43	514.95	5,106.08	1,319.97	1,040.16	279.82	4.717		
12,400.00	6,846.11	12,319.98	6,856.02	142.84	142.14	-90.43	515.74	5,206.08	1,319.98	1,035.14	284.84	4.634		
12,500.00	6,846.46	12,419.98	6,856.37	145.35	144.65	-90.43	516.52	5,306.07	1,319.98	1,030.12	289.86	4.554		
12,600.00	6,846.80	12,519.98	6,856.71	147.86	147.17	-90.43	517.30	5,406.07	1,319.98	1,025.09	294.89	4.476		
12,700.00	6,847.15	12,619.98	6,857.06	150.37	149.68	-90.43	518.09	5,506.06	1,319.98	1,020.06	299.91	4.401		
12,800.00	6,847.50	12,719.98	6,857.41	152.89	152.20	-90.43	518.87	5,606.06	1,319.98	1,015.03	304.94	4.329		
12,900.00	6,847.85	12,819.98	6,857.76	155.40	154.71	-90.43	519.65	5,706.06	1,319.98	1,010.00	309.98	4.258		
13,000.00	6,848.19	12,919.98	6,858.11	157.92	157.23	-90.43	520.44	5,806.05	1,319.98	1,004.97	315.01	4.190		
13,100.00	6,848.54	13,019.98	6,858.45	160.44	159.75	-90.43	521.22	5,906.05	1,319.98	999.93	320.05	4.124		
13,200.00	6,848.89	13,119.98	6,858.80	160.44	162.27	-90.43 -90.43	521.22	6,006.05	1,319.98	999.93	325.09	4.124		
13,300.00	6,849.24	13,119.98	6,859.15	165.48	164.79	-90.43 -90.43	522.00	6,106.04	1,319.98	989.85	330.13	3.998		
13,400.00	6,849.58	13,319.98	6,859.50	168.00	167.31	-90.43	523.57	6,206.04	1,319.98	984.80	335.18	3.938		
13,500.00	6,849.93	13,419.98	6,859.84	170.52	169.83	-90.43	524.36	6,306.04	1,319.98	979.76	340.22	3.880		
. 5,555.00	0,040.00	10,710.00	0,000.04	110.02	100.00	-55.45	324.00	0,000.04	1,010.00	515.10	0-10.22	0.000		
13,600.00	6,850.28	13,519.98	6,860.19	173.04	172.35	-90.43	525.14	6,406.03	1,319.98	974.71	345.27	3.823		
13,700.00	6,850.63	13,619.98	6,860.54	175.57	174.88	-90.43	525.92	6,506.03	1,319.98	969.66	350.32	3.768		
13,800.00	6,850.97	13,719.98	6,860.89	178.09	177.40	-90.43	526.71	6,606.02	1,319.98	964.61	355.37	3.714		
13,900.00	6,851.32	13,819.98	6,861.24	180.62	179.93	-90.43	527.49	6,706.02	1,319.98	959.56	360.42	3.662		
14,000.00	6,851.67	13,919.98	6,861.58	183.14	182.46	-90.43	528.27	6,806.02	1,319.98	954.51	365.47	3.612		
14,100.00	6,852.02	14,019.98	6,861.93	185.67	184.98	-90.43	529.06	6,906.01	1,319.98	949.46	370.53	3.562		
14,200.00	6,852.36	14,119.98	6,862.28	188.20	187.51	-90.43	529.84	7,006.01	1,319.99	944.40	375.58	3.514		
14,300.00	6,852.71	14,219.98	6,862.63	190.72	190.04	-90.43	530.63	7,106.01	1,319.99	939.34	380.64	3.468		
14,400.00	6,853.06	14,319.98	6,862.97	193.25	192.57	-90.43	531.41	7,206.00	1,319.99	934.29	385.70	3.422		
14,500.00	6,853.41	14,419.98	6,863.32	195.78	195.10	-90.43	532.19	7,306.00	1,319.99	929.23	390.76	3.378		
14,600.00	6,853.75	14,519.98	6,863.67	198.31	197.63	-90.43	532.98	7,405.99	1,319.99	924.17	395.82	3.335		
14,700.00	6,853.75	14,519.98	6,864.02	200.84	200.16	-90.43 -90.43	532.98	7,405.99	1,319.99	924.17	400.88	3.335		
14,700.00	6,854.10	14,619.98	6,864.02	200.84	200.16	-90.43 -90.43	533.76	7,505.99	1,319.99	919.10	400.88	3.293		
14,900.00	6,854.80	14,719.98	6,864.71	205.91	202.69	-90.43 -90.43	535.33	7,005.99	1,319.99	908.98	411.01	3.252		
15,000.00	6,855.14	14,919.98	0,004.71	208.44	200.22	-50.43	333.33	1,100.00	1,515.55	200.20	- 11.01	J.Z 1Z		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft
Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Survey Calculation Method:
Output errors are at
Database:

e: 2.00 sigma
DB_Decv04

Offset TVD Reference:

DB_Decv0422v16
Offset Datum

urvey Progr	ram: 0-N	ИWD								Rule Assi	gned:		Offset Well Error:	0.00
Refe	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Dist Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
15,100.00	6,855.49	15,019.98	6,865.41	210.97	210.29	-90.43	536.90	7,905.98	1,319.99	898.85	421.14	3.134		
15,200.00	6,855.84	15,119.98	6,865.76	213.50	212.82	-90.43	537.68	8,005.97	1,319.99	893.78	426.21	3.097		
15,300.00	6,856.19	15,219.98	6,866.11	216.04	215.36	-90.43	538.46	8,105.97	1,319.99	888.71	431.28	3.061		
15,400.00	6,856.54	15,319.98	6,866.45	218.57	217.89	-90.43	539.25	8,205.97	1,319.99	883.65	436.35	3.025		
15,500.00	6,856.88	15,419.98	6,866.80	221.11	220.42	-90.43	540.03	8,305.96	1,319.99	878.58	441.42	2.990		
15,600.00	6,857.23	15,519.98	6,867.15	223.64	222.96	-90.43	540.81	8,405.96	1,319.99	873.51	446.49	2.956		
15,700.00	6,857.58	15,619.98	6,867.50	226.18	225.50	-90.43	541.60	8,505.95	1,319.99	868.44	451.56	2.923		
15,800.00	6,857.93	15,719.98	6,867.84	228.71	228.03	-90.43	542.38	8,605.95	1,319.99	863.36	456.63	2.891		
15,900.00	6,858.27	15,819.98	6,868.19	231.25	230.57	-90.43	543.17	8,705.95	1,319.99	858.29	461.70	2.859		
16,000.00	6,858.62	15,919.98	6,868.54	233.78	233.10	-90.43	543.95	8,805.94	1,320.00	853.22	466.78	2.828		
16,100.00	6,858.97	16,019.98	6,868.89	236.32	235.64	-90.43	544.73	8,905.94	1,320.00	848.15	471.85	2.797		
16,200.00	6,859.32	16,119.98	6,869.24	238.86	238.18	-90.43	545.52	9,005.94	1,320.00	843.07	476.92	2.768		
16,300.00	6,859.66	16,219.98	6,869.58	241.39	240.72	-90.43	546.30	9,105.93	1,320.00	838.00	482.00	2.739		
16,400.00	6,860.01	16,319.98	6,869.93	243.93	243.25	-90.43	547.08	9,205.93	1,320.00	832.92	487.08	2.710		
16,500.00	6,860.36	16,419.98	6,870.28	246.47	245.79	-90.43	547.87	9,305.93	1,320.00	827.85	492.15	2.682		
16,600.00	6,860.71	16,519.98	6,870.63	249.01	248.33	-90.43	548.65	9,405.92	1,320.00	822.77	497.23	2.655		
16,700.00	6,861.05	16,619.98	6,870.98	251.55	250.87	-90.43	549.43	9,505.92	1,320.00	817.69	502.31	2.628		
16,800.00	6,861.40	16,719.98	6,871.32	254.08	253.41	-90.43	550.22	9,605.91	1,320.00	812.61	507.39	2.602		
16,900.00	6,861.75	16,819.98	6,871.67	256.62	255.95	-90.43	551.00	9,705.91	1,320.00	807.54	512.46	2.576		
17,000.00	6,862.10	16,919.98	6,872.02	259.16	258.49	-90.43	551.79	9,805.91	1,320.00	802.46	517.54	2.551		
17,100.00	6,862.44	17,019.98	6,872.37	261.70	261.03	-90.43	552.57	9,905.90	1,320.00	797.38	522.62	2.526		
17,200.00	6,862.79	17,119.98	6,872.71	264.24	263.57	-90.43	553.35	10,005.90	1,320.00	792.30	527.70	2.501		
17,300.00	6,863.14	17,219.98	6,873.06	266.78	266.11	-90.43	554.14	10,105.90	1,320.00	787.22	532.78	2.478		
17,400.00	6,863.49	17,319.98	6,873.41	269.32	268.65	-90.43	554.92	10,205.89	1,320.00	782.14	537.86	2.454		
17,500.00	6,863.83	17,419.98	6,873.76	271.86	271.19	-90.43	555.70	10,305.89	1,320.00	777.06	542.95	2.431		
17,600.00	6,864.18	17,519.98	6,874.11	274.40	273.73	-90.43	556.49	10,405.88	1,320.00	771.98	548.03	2.409		
17,700.00	6,864.53	17,619.98	6,874.45	276.94	276.27	-90.43	557.27	10,505.88	1,320.00	766.90	553.11	2.387		
17,800.00	6,864.88	17,719.98	6,874.80	279.49	278.81	-90.43	558.06	10,605.88	1,320.01	761.81	558.19	2.365		
17,900.00	6,865.22	17,819.98	6,875.15	282.03	281.35	-90.43	558.84	10,705.87	1,320.01	756.73	563.27	2.343		
18,000.00	6,865.57	17,919.98	6,875.50	284.57	283.90	-90.43	559.62	10,805.87	1,320.01	751.65	568.36	2.322		
18,100.00	6,865.92	18,019.98	6,875.84	287.11	286.44	-90.43	560.41	10,905.87	1,320.01	746.57	573.44	2.302		
18,200.00	6,866.27	18,119.98	6,876.19	289.65	288.98	-90.43	561.19	11,005.86	1,320.01	741.48	578.53	2.282		
18,300.00	6,866.61	18,219.98	6,876.54	292.19	291.52	-90.43	561.97	11,105.86	1,320.01	736.40	583.61	2.262		
18,400.00	6,866.96	18,319.98	6,876.89	294.74	294.06	-90.43	562.76	11,205.86	1,320.01	731.31	588.69	2.242		
18,500.00	6,867.31	18,419.98	6,877.24	297.28	296.61	-90.43	563.54	11,305.85	1,320.01	726.23	593.78	2.223		
18,600.00	6,867.66	18,519.98	6,877.58	299.82	299.15	-90.43	564.33	11,405.85	1,320.01	721.14	598.87	2.204		



Company: **Enduring Resources LLC**

Rio Arriba County, New Mexico NAD83 NM W Project: Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

0.00 ftWell Error: Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

Offset Datum

Rincon pad (613, 615, 713, 715,815,817,915 & 917) - Rincon Unit 915H - Original Hole - rev1 Offset Design: Offset Site Error: 0.00 ft Survey Program: Reference Rule Assigned: Offset Well Error: 0.00 ft Semi Major Axis rence Offset Offset Offset Wellbore Centre Distance Measured Vertical Measured Vertical Reference Highside Between Between Minimum Separation Warning +N/-S +E/-W Depth Depth Toolface Depth Depth Centres Ellipses Separation Factor (ft) (ft) (ft) (ft) (°) (ft) (ft) 0.00 0.00 53.98 11.71 16.11 0.00 0.00 0.00 0.00 19.91 100.00 100.00 100.00 100.00 0.13 0.13 53.98 11.71 16.11 19.91 19.65 0.27 74.073 200.00 53.98 11.71 18.93 0.99 20.202 200.00 200.00 200.00 0.49 0.49 16.11 19.91 300.00 300.00 300.00 300.00 0.85 0.85 53.98 11.71 16.11 19.91 18.21 1.70 11.696 400.00 400.00 400.00 1.21 1.21 53.98 11.71 19.91 17.50 2.42 8.230 400.00 16.11 500.00 500.00 500.00 500.00 1.57 1.57 53.98 11.71 16.11 19.91 16.78 3.14 6.349 600.00 600.00 1.93 1.93 11.71 16.11 19.91 3.85 600.00 600.00 53.98 16.06 5.168 700.00 700.00 700.00 700.00 2.29 2.29 53.98 11.71 16.11 19.91 15.34 4.57 4.357 800.00 800.00 800.00 800.00 2.64 2.64 53.98 11.71 16.11 19.91 14 63 5.29 3 766 900.00 900.00 900.00 900.00 3.00 3.00 11.71 16.11 19.91 13.91 6.00 3.317 1,000.00 1,000.00 1,000.00 1,000.00 3.36 3.36 53.98 11.71 16.11 19.91 13.19 6.72 2.963 1,100.00 1,100.00 1,100.00 1,100.00 3.72 3.72 53.98 11.71 16.11 19.91 12.48 7.44 2.677 1,200.00 1.200.00 1.200.00 1.200.00 4.08 4.08 53.98 11.71 16.11 19.91 11.76 8.16 2.442 2.251 CC 1,297.41 1,297.37 1,298.37 1,298.33 4.41 4.42 -162.05 10.80 13.74 19.85 11.03 8.82 1.300.00 1.299.95 1.300.99 1 300 94 4 42 4 43 -162 30 10.75 13 62 19.85 11 01 8 84 2 247 FS 1,400.00 1,399.63 1,401.80 1,401.42 4.75 4.77 -176.75 7.89 6.17 20.52 11.04 9.48 2.165 1.500.00 1,498.77 1.501.82 1.500.69 5.09 5.12 165.08 3.48 -5.29 24.64 14.47 10.17 2.423 1,600.00 1,597.08 1,601.17 1,599.23 5.45 5.48 156.10 -1.06 -17.09 34.95 24.07 10.89 3.210 1,700.00 1,694.72 1,700.19 1,697.45 5.83 5.85 153.24 -5.59 -28.86 48.74 37.13 11.61 4.199 1,792.35 1,799.21 1,795.66 6.22 151.69 12.34 5.079 1,800.00 6.24 -10.11 -40.62 62.66 50.32 1.900.00 1.889.97 1.898.23 1.893.87 6.65 6.59 150.70 -14.64 -52.38 76.61 63.53 13.08 5.859 2,000.00 1.987.60 1.997.24 1.992.08 7.08 6.97 150.02 -19.16 -64.14 90.57 76.75 13.83 6.551 2.100.00 2.085.22 2.096.26 2.090.29 7.52 7.36 149.52 -23.69 -75.91 104.54 89.96 14.59 7.168 2,200.00 2.182.85 2.195.27 2.188.50 7 97 7.74 149.14 -28.22 -87.67 118.52 103.17 15.35 7 721 2,300.00 2,280.47 2,294.29 2,286.71 8.42 8.13 148.84 -32.74 -99.43 132.51 116.38 16.12 8.218 2,378.10 2,393.30 2,384.92 8.52 148.60 -37.27 -111.20 146.49 129.59 16.90 8.667 2,400.00 8.88 2,500.00 2,475.72 2,492.32 2,483.13 9.35 8.92 148.40 -41.79 -122.96 160.48 142.79 17.68 9.074 2.600.00 2.573.35 2.591.33 2.581.34 9.82 9.31 148.23 -46.32 -134.72 174.47 156.00 18.47 9.445 2,670.97 2,690.35 2,679.55 2,700.00 10.29 9.71 148.08 -50.84 -146.48 188.46 169.20 19.26 9.784 2 800 00 2 768 60 2 789 37 2 777 76 10 77 10 10 147 96 -55.37 -158 25 202 45 182 39 20.06 10 094 2,888.38 2,875.97 2,900.00 2,866.22 11.25 10.50 147.85 -59.89 -170.01 216.44 195.59 20.85 10.379 3.000.00 2.963.85 2.987.40 2.974.18 11.73 10.90 147.76 -64.42 -181.77 230.43 208.78 21.65 10.642 3,100.00 3.061.47 3.086.41 3.072.39 12.21 11.30 147 67 -68.94 -193.54 244.43 221.97 22.45 10.885 3,200.00 3,159.10 3,185.43 3,170.60 12.70 11.71 147.60 -73.47 -205.30 258.42 235.16 23.26 11.111 3,300.00 3,256.72 3,284.44 3,268.81 13.19 12.11 147.53 -78.00 -217.06 272.42 248.35 24.06 11.320 3,400.00 3.354.35 3.383.46 3.367.02 13.68 12.51 147.47 -82.52 -228.82 286.41 261.54 24.87 11.515 3,500.00 3.451.97 3.482.47 3,465,23 14.17 12.91 147.42 -87.05 -240.59 300.40 274.72 25.68 11.697 3.549.60 3.581.49 3.563.44 -252.35 287.91 3.600.00 14.66 13.32 147.37 -91.57 314.40 26.49 11.868 3,700.00 3 647 22 3.680.50 3 661 65 15.16 13.72 147 32 -96.10 -264 11 328.39 301 09 27.30 12 028 3,800.00 3,744.85 3,779.52 3,759.86 15.65 14.13 147.28 -100.62 -275.88 342.39 314.27 28.12 12.178 3,900.00 3,842.47 3,878.54 3,858.07 16.15 147.24 -105.15 -287.64 356.39 28.93 12.319 14.53 4,000.00 3,940.10 3,977.55 3,956.28 16.64 14.94 147.20 -109.67 -299.40 370.38 340.64 29.75 12.452 4.100.00 4.037.72 4.076.57 4.054.49 17.14 15.35 147.17 -114.20 -311.17 384.38 353.82 30.56 12.577 4,200.00 4,135.35 4,175.58 4,152.70 17.64 -118.73 -322.93 398.37 367.00 12.696 15.75 147.14 31.38 4 300 00 4 232 97 4 274 60 4 250 91 18 14 16 16 147 11 -123 25 -334 69 412 37 380 17 32 20 12 808 147.08 4,400.00 4,373.61 4,349.12 -127.78 12.915 4,330.60 18.63 16.57 -346.45 426.37 393.35 33.01 4.500.00 4.428.22 4.472.63 4.447.33 19.13 16.97 147.06 -132.30 -358.22 440.36 406.53 33.83 13.016 4.600.00 4.525.85 4.571.64 4.545.54 19.63 17.38 147.04 -136.83 -369.98 454.36 419.71 34.65 13.112 4,643.75 4,700.00 4,623.47 4,670.66 20.13 17.79 147.01 -141.35 -381.74 468.36 432.88 35.47 13.204 4.741.96 4,800.00 4.721.10 4.769.68 20.64 18.20 146.99 -145.88 -393.51 482.35 446.06 36.29 13.291 4.900.00 4.818.72 4.868.69 4.840.17 21.14 18.61 146.97 -150.40-405.27496.35 459.24 37.11 13.374



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error:

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

set Des													Offset Site Error:	0.0
ey Progr Refer		MWD Offs	sat	Sami M	ajor Axis		Offset Wellb	ore Centre	Die	Rule Assi tance	gned:		Offset Well Error:	0.0
asured epth	Vertical Depth (ft)	Measured Depth	Vertical Depth (ft)	Reference (ft)	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation	Separation Factor	Warning	
(ft) 000.00	4,916.35	(ft) 4,967.71	4,938.38	21.64	(ft) 19.02	(°) 146.95	-154.93	-417.03	510.35	472.41	(ft) 37.93	13.453		
100.00	5,013.97	5,066.72	5,036.59	22.14	19.42	146.94	-159.46	-428.79	524.34	485.59	38.76	13.529		
200.00	5,111.60	5,165.74	5,134.80	22.14	19.42	146.92	-163.98	-440.56	538.34	498.76	39.58	13.602		
300.00	5,209.22	5,163.74	5,233.01	23.15	20.24	146.90	-168.51	-452.32	552.34	511.93	40.40	13.671		
400.00	5,306.85	5,363.77	5,331.22	23.65	20.65	146.89	-173.03	-464.08	566.33	525.11	41.22	13.738		
500.00	5,404.47	5,462.78	5,429.43	24.15	21.06	146.87	-173.03	-475.85	580.33	538.28	42.05	13.736		
300.00	3,404.47	5,402.76	5,429.45	24.13	21.00	140.07	-177.50	-475.65	360.33	336.26	42.05	13.002		
600.00	5,502.10	5,561.80	5,527.64	24.66	21.47	146.86	-182.08	-487.61	594.33	551.45	42.87	13.863		
700.00	5,599.72	5,654.05	5,619.26	25.16	21.84	146.94	-185.93	-497.61	608.71	565.08	43.62	13.953		
800.00	5,697.36	5,742.83	5,707.81	25.66	22.17	147.40	-188.21	-503.53	624.57	580.28	44.29	14.102		
900.00	5,795.63	5,831.16	5,796.10	26.13	22.48	148.24	-189.01	-505.61	639.39	594.50	44.88	14.245		
000.00	5,894.73	5,929.79	5,894.73	26.55	22.79	149.03	-189.01	-505.61	650.75	605.24	45.51	14.299		
100.00	5,994.39	6,029.32	5,994.27	26.92	23.10	149.50	-189.01	-505.59	657.70	611.56	46.15	14.253		
200.00	6,094.34	6,125.36	6,089.79	27.22	23.35	150.43	-188.94	-496.76	660.46	613.85	46.61	14.171		
300.00	6,194.34	6,216.10	6,177.49	27.48	23.53	3.75	-188.76	-473.88	661.94	615.12	46.83	14.136		
400.00	6,294.18	6,300.00	6,254.45	27.73	23.66	-82.93	-188.50	-440.65	665.68	618.86	46.83	14.216		
500.00	6,391.90	6,379.14	6,321.86	27.91	23.76	-80.16	-188.18	-399.33	670.90	624.22	46.68	14.372		
600.00	6,484.57	6,456.24	6,381.47	28.03	23.86	-77.64	-187.79	-350.51	676.94	630.49	46.45	14.574		
700.00	6,569.37	6,531.32	6,432.71	28.10	23.98	-75.43	-187.36	-295.71	683.18	637.00	46.19	14.791		
800.00	6,643.71	6,604.85	6,475.52	28.11	24.14	-73.58	-186.90	-236.00	689.08	643.09	46.00	14.981		
900.00	6,705.34	6,693.57	6,520.11	28.08	24.44	-73.33	-186.30	-159.30	693.16	646.93	46.23	14.995		
000.00	6,756.00	6,765.93	6,551.22	28.02	24.80	-71.65	-185.78	-94.02	695.86	649.23	46.63	14.923		
	-,	-,	-,											
100.00	6,796.79	6,837.26	6,573.59	27.98	25.25	-70.78	-185.25	-26.34	699.14	651.88	47.26	14.794		
200.00	6,821.13	6,908.18	6,587.33	27.94	25.80	-70.34	-184.71	43.19	700.84	652.53	48.31	14.508		
300.00	6,828.38	6,982.22	6,592.40	28.00	26.47	-70.32	-184.13	117.00	700.89	651.10	49.79	14.077		
336.39	6,828.51	7,014.02	6,592.53	28.13	26.80	-70.32	-183.88	148.80	700.87	650.40	50.47	13.886		
400.00	6,828.73	7,077.64	6,592.78	28.61	27.50	-70.33	-183.38	212.41	700.86	649.11	51.76	13.542		
500.00	6,829.08	7,177.64	6,593.18	29.81	28.76	-70.33	-182.60	312.41	700.84	646.76	54.08	12.959		
600.00	6,829.43	7,277.64	6,593.58	31.23	30.18	-70.33	-181.82	412.40	700.83	644.10	56.72	12.356		
700.00	6,829.77	7,377.64	6,593.98	32.79	31.74	-70.34	-181.03	512.40	700.81	641.18	59.63	11.753		
800.00	6,830.12	7,477.64	6,594.38	34.47	33.43	-70.34	-180.25	612.40	700.79	638.03	62.77	11.165		
900.00	6,830.47	7,577.64	6,594.78	36.25	35.22	-70.35	-179.47	712.39	700.77	634.67	66.10	10.602		
000 00	6 930 93	7 677 64	6 F0F 10	20.12	27.10	70.25	170.60	010.20	700.76	621.15	60.60	10.000		
100.00	6,830.82	7,677.64	6,595.18	38.12	37.10 39.06	-70.35 -70.36	-178.68 -177.90	812.39	700.76	631.15	69.60 73.25	10.068		
100.00	6,831.16	7,777.64	6,595.58	40.06	39.06	-70.36 70.36	-177.90	912.38	700.74	627.49	73.25	9.567		
200.00 300.00	6,831.51 6,831.86	7,877.64 7,977.64	6,595.98 6,596.38	42.06 44.12	41.08	-70.36 70.36	-177.11 176.22	1,012.38	700.72 700.71	623.71	77.02 80.89	9.098 8.663		
400.00	6,832.21	8,077.64	6,596.78	46.23	43.16 45.29	-70.36 -70.37	-176.33 -175.55	1,112.38 1,212.37	700.71	619.82 615.84	84.85	8.258		
500.00	6,832.55	8,177.64	6,597.18	48.37	47.46	-70.37	-174.76	1,312.37	700.67	611.78	88.89	7.883		
600.00	6,832.90	8,277.64	6,597.58	50.56	49.66	-70.38	-173.98	1,412.36	700.65	607.66	92.99	7.535		
700.00	6,833.25	8,377.64	6,597.98	52.78	51.90	-70.38	-173.20	1,512.36	700.64	603.48	97.15	7.212		
00.008	6,833.60	8,477.64	6,598.38	55.02	54.17	-70.38	-172.41	1,612.36	700.62	599.26	101.36	6.912		
900.00	6,833.94	8,577.64	6,598.78	57.29	56.46	-70.39	-171.63	1,712.35	700.60	594.98	105.62	6.633		
000.00	6,834.29	8,677.64	6,599.18	59.59	58.77	-70.39	-170.85	1,812.35	700.58	590.68	109.91	6.374		
100.00	6,834.64	8,777.64	6,599.58	61.90	61.10	-70.40	-170.06	1,912.34	700.57	586.34	114.23	6.133		
200.00	6,834.99	8,877.64	6,599.98	64.23	63.44	-70.40	-169.28	2,012.34	700.55	581.97	118.58	5.908		
300.00	6,835.33	8,977.64	6,600.38	66.58	65.81	-70.40	-168.50	2,112.34	700.53	577.58	122.95	5.698		
400.00	6,835.68	9,077.64	6,600.78	68.94	68.18	-70.41	-167.71	2,212.33	700.52	573.16	127.35	5.501		
500.00	6,836.03	9,177.64	6,601.18	71.31	70.57	-70.41	-166.93	2,312.33	700.50	568.73	131.77	5.316		
600.00	6,836.38	9,277.64	6,601.58	73.70	72.97	-70.41	-166.15	2,412.33	700.30	564.29	136.20	5.143		
700.00	6,836.72	9,377.64	6,601.98	76.09	75.38	-70.42	-165.36	2,512.32	700.46	559.82	140.64	4.981		
800.00	6,837.07	9,477.64	6,602.38	78.50	77.80	-70.42	-164.58	2,612.32	700.45	555.35	145.10	4.827		
900.00	6,837.42	9,577.64	6,602.78	80.92	80.23	-70.43	-163.80	,						



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

	sign: Kir												Offset Site Error:	0.00
rvey Prog		MWD	4	0	Anton Anto		06	Ot	Di-	Rule Assi	gned:		Offset Well Error:	0.00
Refe Neasured	rence Vertical	Offs Measured	Set Vertical	Reference	Major Axis Offset	Highside	Offset Wellb		Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
10,000.00	6,837.77	9,677.64	6,603.18	83.34	82.66	-70.43	-163.01	2,812.31	700.41	546.37	154.04	4.547		
10,100.00	6,838.11	9,777.64	6,603.58	85.77	85.11	-70.44	-162.23	2,912.31	700.39	541.87	158.52	4.418		
10,200.00	6,838.46	9,877.64	6,603.98	88.21	87.55	-70.44	-161.45	3,012.30	700.38	537.37	163.01	4.297		
10,300.00	6,838.81	9,977.64	6,604.38	90.65	90.01	-70.44	-160.66	3,112.30	700.36	532.86	167.50	4.181		
10,400.00	6,839.16	10,077.64	6,604.78	93.10	92.47	-70.45	-159.88	3,212.29	700.34	528.34	172.00	4.072		
10,500.00	6,839.50	10,177.64	6,605.18	95.55	94.93	-70.45	-159.10	3,312.29	700.33	523.82	176.50	3.968		
10,600.00	6,839.85	10,277.64	6,605.58	98.01	97.40	-70.46	-158.31	3,412.29	700.31	519.30	181.01	3.869		
10,700.00	6,840.20	10,377.64	6,605.98	100.48	99.87	-70.46	-157.53	3,512.28	700.29	514.78	185.51	3.775		
10,800.00	6,840.55	10,477.64	6,606.38	102.94	102.35	-70.46	-156.74	3,612.28	700.27	510.26	190.02	3.685		
10,900.00	6,840.89	10,577.64	6,606.78	105.42	104.83	-70.47	-155.96	3,712.28	700.26	505.74	194.52	3.600		
11,000.00	6,841.24	10,677.64	6,607.18	107.89	107.31	-70.47	-155.18	3,812.27	700.24	501.21	199.03	3.518		
				· · ·	-	-								
11,100.00	6,841.59	10,777.64	6,607.58	110.37	109.80	-70.48	-154.39	3,912.27	700.22	496.69	203.53	3.440		
11,200.00	6,841.94	10,877.64	6,607.98	112.85	112.29	-70.48	-153.61	4,012.26	700.21	492.18	208.03	3.366		
11,300.00	6,842.29	10,977.64	6,608.38	115.34	114.78	-70.48	-152.83	4,112.26	700.19	487.66	212.53	3.295		
11,400.00	6,842.63	11,077.64	6,608.78	117.83	117.28	-70.49	-152.04	4,212.26	700.17	483.15	217.02	3.226		
11,500.00	6,842.98	11,177.64	6,609.18	120.32	119.77	-70.49	-151.26	4,312.25	700.15	478.64	221.52	3.161		
11,600.00	6,843.33	11,277.64	6,609.58	122.81	122.27	-70.50	-150.48	4,412.25	700.14	474.13	226.01	3.098		
11,700.00	6,843.68	11,377.64	6,609.98	125.31	124.78	-70.50	-149.69	4,512.24	700.12	469.63	230.49	3.038		
11,800.00	6,844.02	11,477.64	6,610.38	127.81	127.28	-70.50	-148.91	4,612.24	700.10	465.13	234.97	2.980		
11,900.00	6,844.37	11,577.64	6,610.78	130.31	129.78	-70.51	-148.13	4,712.24	700.09	460.64	239.44	2.924		
12,000.00	6,844.72	11,677.64	6,611.18	132.81	132.29	-70.51	-147.34	4,812.23	700.07	456.15	243.91	2.870		
12,100.00	6,845.07	11,777.64	6,611.58	135.31	134.80	-70.52	-146.56	4,912.23	700.05	451.67	248.38	2.819		
12,100.00	6,845.41	11,877.64	6,611.98	137.82	137.31	-70.52	-145.78	5,012.22	700.03	447.20	252.83	2.769		
12,300.00	6,845.76	11,977.64	6,612.38	140.33	139.82	-70.52	-144.99	5,112.22	700.02	442.73	257.28	2.721		
12,400.00	6,846.11	12,077.64	6,612.78	140.33	142.34	-70.53	-144.21	5,212.22	700.02	438.27	261.73	2.675		
12,500.00	6,846.46	12,177.64	6,613.18	145.35	144.85	-70.53	-143.43	5,312.21	699.98	433.82	266.16	2.630		
,000.00	0,010.10	12,111.01	0,010.10			7 0.00	110.10	0,012.21	000.00	100.02	200.10	2.000		
12,600.00	6,846.80	12,277.64	6,613.58	147.86	147.37	-70.54	-142.64	5,412.21	699.97	429.38	270.59	2.587		
12,700.00	6,847.15	12,377.64	6,613.98	150.37	149.89	-70.54	-141.86	5,512.21	699.95	424.94	275.01	2.545		
12,800.00	6,847.50	12,477.64	6,614.38	152.89	152.41	-70.54	-141.08	5,612.20	699.93	420.51	279.42	2.505		
12,900.00	6,847.85	12,577.64	6,614.78	155.40	154.93	-70.55	-140.29	5,712.20	699.91	416.09	283.82	2.466		
13,000.00	6,848.19	12,677.64	6,615.18	157.92	157.45	-70.55	-139.51	5,812.19	699.90	411.68	288.21	2.428		
13,100.00	6,848.54	12,777.64	6,615.58	160.44	159.97	-70.56	-138.72	5,912.19	699.88	407.28	292.60	2.392		
13,200.00	6,848.89	12,877.64	6,615.98	162.96	162.49	-70.56	-137.94	6,012.19	699.86	402.89	296.97	2.357		
13,300.00	6,849.24	12,977.64	6,616.38	165.48	165.02	-70.57	-137.16	6,112.18	699.85	398.51	301.33	2.322		
13,400.00	6,849.58	13,077.64	6,616.78	168.00	167.54	-70.57	-136.37	6,212.18	699.83	394.14	305.68	2.289		
13,500.00	6,849.93	13,177.64	6,617.17	170.52	170.07	-70.57	-135.59	6,312.17	699.81	389.79	310.03	2.257		
13,600.00	6,850.28	13,277.64	6,617.57	173.04	172.59	-70.58	-134.81	6,412.17	699.79	385.44	314.36	2.226		
13,700.00	6,850.63	13,377.64	6.617.97	175.04	172.59	-70.58	-134.01	6,512.17	699.78	381.10	318.67	2.226		
13,800.00	6,850.97	13,477.64	6.618.37	178.09	175.12	-70.56 -70.59	-134.02	6,612.16	699.76	376.78	322.98	2.190		
13,900.00	6,851.32	13,577.64	6,618.77	180.62	180.17	-70.59 -70.59	-133.24	6,712.16	699.74	370.76	327.27	2.138		
14,000.00	6,851.67	13,677.64	6,619.17	183.14	182.70	-70.59 -70.59	-132.46	6,812.15	699.73	368.18	331.55	2.130		
,000.00	0,001.07	10,077.04	0,010.11	100.14	102.10	-10.00	-131.07	0,012.10	000.10	550.10	551.55	2.110		
4,100.00	6,852.02	13,777.64	6,619.57	185.67	185.23	-70.60	-130.89	6,912.15	699.71	363.89	335.82	2.084		
14,200.00	6,852.36	13,877.64	6,619.97	188.20	187.76	-70.60	-130.11	7,012.15	699.69	359.62	340.07	2.057		
14,300.00	6,852.71	13,977.64	6,620.37	190.72	190.29	-70.61	-129.32	7,112.14	699.68	355.37	344.31	2.032		
4,400.00	6,853.06	14,077.64	6,620.77	193.25	192.83	-70.61	-128.54	7,212.14	699.66	351.13	348.53	2.007		
4,500.00	6,853.41	14,177.64	6,621.17	195.78	195.36	-70.61	-127.76	7,312.14	699.64	346.90	352.74	1.983 Leve	1 3<2.00	
,	.,	,						, -				,5,,		
4,600.00	6,853.75	14,277.64	6,621.57	198.31	197.89	-70.62	-126.97	7,412.13	699.62	342.69	356.93	1.960 Leve	1 3<2.00	
4,700.00	6,854.10	14,377.64	6,621.97	200.84	200.42	-70.62	-126.19	7,512.13	699.61	338.49	361.11	1.937 Leve	1 3<2.00	
4,800.00	6,854.45	14,477.64	6,622.37	203.37	202.96	-70.63	-125.41	7,612.12	699.59	334.32	365.27	1.915 Leve	1 3<2.00	
4,900.00	6,854.80	14,577.64	6,622.77	205.91	205.49	-70.63	-124.62	7,712.12	699.57	330.15	369.42	1.894 Leve	1 3<2.00	
5,000.00	6,855.14	14,677.64	6,623.17	208.44	208.03	-70.63	-123.84	7,812.12	699.56	326.01	373.55	1.873 Leve	13~3 00	



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error: Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Rincon Unit 817H

RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

													Offset Site Error:	0.00
urvey Progr	ram: 0-l rence	MWD Off	ent	Somi I	Major Axis		Offset Wellb	oro Contro	Die	Rule Assi tance	gned:		Offset Well Error:	0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	1 dotoi		
15,100.00	6,855.49	14,777.64	6,623.57	210.97	210.56	-70.64	-123.06	7,912.11	699.54	321.88	377.66	1.852 Leve	I 3<2.00	
15,200.00	6,855.84	14,877.64	6,623.97	213.50	213.10	-70.64	-122.27	8,012.11	699.52	317.77	381.75	1.832 Leve	I 3<2.00	
5,300.00	6,856.19	14,977.64	6,624.37	216.04	215.63	-70.65	-121.49	8,112.10	699.50	313.68	385.83	1.813 Leve	I 3<2.00	
5,400.00	6,856.54	15,077.64	6,624.77	218.57	218.17	-70.65	-120.70	8,212.10	699.49	309.60	389.88	1.794 Leve	I 3<2.00	
5,500.00	6,856.88	15,177.64	6,625.17	221.11	220.70	-70.65	-119.92	8,312.10	699.47	305.55	393.92	1.776 Leve	I 3<2.00	
15,600.00	6,857.23	15,277.64	6,625.57	223.64	223.24	-70.66	-119.14	8,412.09	699.45	301.52	397.94	1.758 Leve	I 3<2.00	
5,700.00	6,857.58	15,377.64	6,625.97	226.18	225.78	-70.66	-118.35	8,512.09	699.44	297.50	401.93	1.740 Leve	I 3<2.00	
5,800.00	6,857.93	15,477.64	6,626.37	228.71	228.32	-70.67	-117.57	8,612.08	699.42	293.51	405.91	1.723 Leve	I 3<2.00	
15,900.00	6,858.27	15,577.64	6,626.77	231.25	230.85	-70.67	-116.79	8,712.08	699.40	289.53	409.87	1.706 Leve	I 3<2.00	
16,000.00	6,858.62	15,677.64	6,627.17	233.78	233.39	-70.67	-116.00	8,812.08	699.39	285.58	413.80	1.690 Leve	I 3<2.00	
16,100.00	6,858.97	15,777.64	6,627.57	236.32	235.93	-70.68	-115.22	8,912.07	699.37	281.65	417.72	1.674 Leve	I 3<2.00	
6,200.00	6,859.32	15,877.64	6,627.97	238.86	238.47	-70.68	-114.44	9,012.07	699.35	277.74	421.61	1.659 Leve	I 3<2.00	
6,300.00	6,859.66	15,977.64	6,628.37	241.39	241.01	-70.69	-113.65	9,112.07	699.33	273.86	425.48	1.644 Leve	I 3<2.00	
6,400.00	6,860.01	16,077.64	6,628.77	243.93	243.55	-70.69	-112.87	9,212.06	699.32	269.99	429.32	1.629 Leve	I 3<2.00	
6,500.00	6,860.36	16,177.64	6,629.17	246.47	246.09	-70.69	-112.09	9,312.06	699.30	266.15	433.15	1.614 Leve	I 3<2.00	
6,600.00	6,860.71	16,277.64	6,629.57	249.01	248.63	-70.70	-111.30	9,412.05	699.28	262.34	436.95	1.600 Leve	I 3<2.00	
6,700.00	6,861.05	16,377.64	6,629.97	251.55	251.17	-70.70	-110.52	9,512.05	699.27	258.54	440.72	1.587 Leve	I 3<2.00	
6,800.00	6,861.40	16,477.64	6,630.37	254.08	253.71	-70.71	-109.74	9,612.05	699.25	254.78	444.47	1.573 Leve	I 3<2.00	
16,900.00	6,861.75	16,577.64	6,630.77	256.62	256.25	-70.71	-108.95	9,712.04	699.23	251.03	448.20	1.560 Leve	I 3<2.00	
17,000.00	6,862.10	16,677.64	6,631.17	259.16	258.79	-70.71	-108.17	9,812.04	699.22	247.31	451.90	1.547 Leve	I 3<2.00	
17,100.00	6,862.44	16,777.64	6,631.57	261.70	261.33	-70.72	-107.39	9,912.03	699.20	243.62	455.58	1.535 Leve	I 3<2.00	
7,200.00	6,862.79	16,877.64	6,631.97	264.24	263.87	-70.72	-106.60	10,012.03	699.18	239.95	459.23	1.523 Leve	I 3<2.00	
7,300.00	6,863.14	16,977.64	6,632.37	266.78	266.41	-70.73	-105.82	10,112.03	699.16	236.31	462.85	1.511 Leve	I 3<2.00	
7,400.00	6,863.49	17,077.63	6,632.77	269.32	268.95	-70.73	-105.04	10,212.02	699.15	232.70	466.45	1.499 Leve	I 2<1.50	
7,500.00	6,863.83	17,177.63	6,633.17	271.86	271.50	-70.74	-104.25	10,312.02	699.13	229.11	470.02	1.487 Leve	I 2<1.50	
7,600.00	6,864.18	17,277.63	6,633.57	274.40	274.04	-70.74	-103.47	10,412.02	699.11	225.55	473.57	1.476 Leve	I 2<1.50	
7,700.00	6,864.53	17,377.63	6,633.97	276.94	276.58	-70.74	-102.69	10,512.01	699.10	222.01	477.09	1.465 Leve	I 2<1.50	
7,800.00	6,864.88	17,477.63	6,634.37	279.49	279.12	-70.75	-101.90	10,612.01	699.08	218.50	480.58	1.455 Leve	I 2<1.50	
7,900.00	6,865.22	17,577.63	6,634.77	282.03	281.66	-70.75	-101.12	10,712.00	699.06	215.02	484.04	1.444 Leve	I 2<1.50	
18,000.00	6,865.57	17,677.63	6,635.17	284.57	284.21	-70.76	-100.33	10,812.00	699.05	211.57	487.48	1.434 Leve	I 2<1.50	
8,100.00	6,865.92	17,777.63	6,635.57	287.11	286.75	-70.76	-99.55	10,912.00	699.03	208.14	490.89	1.424 Leve	I 2<1.50	
8,200.00	6,866.27	17,877.63	6,635.97	289.65	289.29	-70.76	-98.77	11,011.99	699.01	204.74	494.27	1.414 Leve	I 2<1.50	
8,300.00	6,866.61	17,977.63	6,636.37	292.19	291.84	-70.77	-97.98	11,111.99	699.00	201.37	497.63	1.405 Leve	I 2<1.50	
8,400.00	6,866.96	18,077.63	6,636.77	294.74	294.38	-70.77	-97.20	11,211.98	698.98	198.03	500.95	1.395 Leve	I 2<1.50	
8,500.00	6,867.31	18,177.63	6,637.17	297.28	296.92	-70.78	-96.42	11,311.98	698.96	194.71	504.25	1.386 Leve	I 2<1.50	
8,600.00	6,867.66	18,277.63	6,637.57	299.82	299.47	-70.78	-95.63	11,411.98	698.94	191.42	507.53	1.377 Leve	I 2<1.50	
8,698.72	6,868.00	18,376.35	6,637.96	302.33	301.98	-70.78	-94.86	11,510.69	698.93	188.20	510.73	4 200 1	I 2<1.50, SF	



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

§ 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

Well Error: 0.00 ft
Reference Wellbore
Reference Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid

Survey Calculation Method:
Output errors are at
Database:

Minimum Curvature 2.00 sigma

Offset TVD Reference:

DB_Decv0422v16 Offset Datum

ffset Des	sign: "	(-	, , .	'13, 715,815	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a. o ,							Offset Site Error:	0.00
rvey Progr		MWD	4	0			064-14-111-	Ot	Di-	Rule Assi	gned:		Offset Well Error:	0.00 ft
Refe	rence Vertical	Off Measured	set Vertical	Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Between	ance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.00	0.00	-126.86	-12.07	-16.11	20.13					
100.00	100.00	100.00	100.00	0.13	0.13	-126.86	-12.07	-16.11	20.13	19.86	0.27	74.873		
200.00	200.00	200.00	200.00	0.49	0.49	-126.86	-12.07	-16.11	20.13	19.14	0.99	20.420		
300.00	300.00	300.00	300.00	0.85	0.85	-126.86	-12.07	-16.11	20.13	18.43	1.70	11.822		
400.00	400.00	400.00	400.00	1.21	1.21	-126.86	-12.07	-16.11	20.13	17.71	2.42	8.319		
500.00	500.00	500.00	500.00	1.57	1.57	-126.86	-12.07	-16.11	20.13	16.99	3.14	6.418		
000.00	000.00	222.22	000.00	4.00	4.00	400.00	40.07	10.11	00.40	40.00	0.05	5.004		
600.00	600.00	600.00	600.00	1.93	1.93	-126.86	-12.07	-16.11	20.13	16.28	3.85	5.224		
700.00	700.00	700.00	700.00	2.29	2.29	-126.86	-12.07	-16.11	20.13	15.56	4.57	4.404		
800.00	800.00	800.00	800.00	2.64	2.64	-126.86	-12.07	-16.11	20.13	14.84	5.29	3.807		
900.00	900.00	900.00	900.00	3.00	3.00	-126.86	-12.07	-16.11	20.13	14.13	6.00	3.353		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-126.86	-12.07	-16.11	20.13	13.41	6.72	2.995 CC, E	5	
1,100.00	1,100.00	1,099.05	1,099.00	3.72	3.70	-130.57	-14.50	-16.94	22.32	14.91	7.41	3.012		
1,200.00	1,200.00	1,197.56	1,197.21	4.08	4.03	-130.37	-21.73	-10.94	29.27	21.20	8.07	3.627		
1,300.00	1,299.95	1,197.30	1,294.20	4.42	4.03	3.80	-33.64	-19.41	38.85	30.16	8.69	4.471		
1,400.00	1,399.63	1,392.67	1,389.91	4.42	4.71	-1.42	-50.13	-23.49	48.51	39.24	9.27	5.233		
1,500.00	1,498.77	1,489.42	1,484.08	5.09	5.09	-5.91	-71.08	-36.31	58.28	48.44	9.83	5.926		
1,500.00	1,700.11	1,405.42	1,404.00	5.08	3.08	-5.81	-7 1.00	-30.31	30.20	70.44	5.00	5.520		
1,600.00	1,597.08	1,585.64	1,576.51	5.45	5.51	-9.95	-96.36	-44.97	68.20	57.81	10.38	6.569		
1,700.00	1,694.72	1,681.13	1,666.79	5.83	5.96	-13.45	-125.77	-55.04	80.05	69.12	10.93	7.326		
1,800.00	1,792.35	1,779.61	1,758.93	6.24	6.48	-16.03	-158.65	-66.29	94.93	83.29	11.64	8.155		
1,900.00	1,889.97	1,878.42	1,851.37	6.65	7.02	-17.91	-191.65	-77.59	109.96	97.58	12.39	8.878		
2,000.00	1,987.60	1,977.22	1,943.82	7.08	7.59	-19.34	-224.65	-88.89	125.09	111.94	13.15	9.515		
2,100.00	2,085.22	2,076.03	2,036.26	7.52	8.17	-20.46	-257.65	-100.19	140.27	126.35	13.92	10.079		
2,200.00	2,182.85	2,174.84	2,128.71	7.97	8.77	-21.37	-290.65	-111.49	155.49	140.79	14.70	10.577		
2,300.00	2,280.47	2,273.65	2,221.15	8.42	9.38	-22.11	-323.66	-122.79	170.75	155.26	15.49	11.022		
2,400.00	2,378.10	2,372.45	2,313.60	8.88	10.00	-22.73	-356.66	-134.09	186.03	169.73	16.29	11.418		
2,500.00	2,475.72	2,471.26	2,406.04	9.35	10.62	-23.25	-389.66	-145.39	201.32	184.22	17.10	11.774		
2,600.00	2,573.35	2,570.07	2,498.49	9.82	11.25	-23.70	-422.66	-156.69	216.63	198.72	17.91	12.094		
2,700.00	2,670.97	2,668.88	2,590.93	10.29	11.89	-24.10	-455.66	-167.99	231.96	213.23	18.73	12.384		
2,800.00	2,768.60	2,767.68	2,683.38	10.77	12.53	-24.44	-488.66	-179.29	247.29	227.73	19.55	12.647		
2,900.00	2,866.22	2,866.49	2,775.82	11.25	13.17	-24.74	-521.67	-190.59	262.63	242.25	20.38	12.886		
3,000.00	2,963.85	2,965.30	2,868.27	11.73	13.82	-25.01	-554.67	-201.89	277.97	256.76	21.21	13.105		
0.400.00	0.004.47	0.004.44	0.000.70	10.01	44.47	05.05	507.07	040.40	000.00	074.00	00.05	40.000		
3,100.00	3,061.47	3,064.11	2,960.72	12.21	14.47	-25.25	-587.67	-213.19	293.32	271.28	22.05	13.306		
3,200.00	3,159.10	3,162.91	3,053.16	12.70	15.13	-25.47	-620.67	-224.49	308.68	285.80	22.88	13.490		
3,300.00	3,256.72	3,261.72	3,145.61	13.19	15.78	-25.67	-653.67	-235.79	324.04	300.32	23.72	13.660		
3,400.00	3,354.35	3,360.53	3,238.05	13.68	16.44	-25.85	-686.67	-247.09	339.40	314.84	24.56	13.817		
3,500.00	3,451.97	3,459.34	3,330.50	14.17	17.10	-26.01	-719.68	-258.39	354.77	329.36	25.41	13.963		
3,600.00	3,549.60	3,558.14	3,422.94	14.66	17.76	-26.16	-752.68	-269.69	370.13	343.88	26.25	14.098		
3,700.00	3,647.22	3,656.95	3,515.39	15.16	18.42	-26.30	-785.68	-280.99	385.50	358.40	27.10	14.225		
3.800.00	3,744.85	3,755.76	3,607.83	15.65	19.08	-26.42	-818.68	-292.29	400.88	372.93	27.10	14.342		
3,900.00	3,842.47	3,854.57	3,700.28	16.15	19.75	-26.54	-851.68	-303.59	416.25	387.45	28.80	14.452		
4,000.00	3,940.10	3,953.38	3,792.72	16.64	20.41	-26.65	-884.68	-314.89	431.63	401.97	29.65	14.556		
.,000.00	0,0 70.10	0,000.00	0,. 02.12	10.04	23.71	25.00	304.00	5 74.00	.51.00	.01.07	20.00			
4,100.00	4,037.72	4,052.18	3,885.17	17.14	21.08	-26.75	-917.69	-326.19	447.01	416.50	30.51	14.653		
4,200.00	4,135.35	4,150.99	3,977.61	17.64	21.75	-26.85	-950.69	-337.49	462.38	431.02	31.36	14.744		
4,300.00	4,232.97	4,249.80	4,070.06	18.14	22.42	-26.94	-983.69	-348.79	477.76	445.55	32.22	14.830		
4,400.00	4,330.60	4,348.61	4,162.51	18.63	23.08	-27.02	-1,016.69	-360.09	493.14	460.07	33.07	14.910		
4,500.00	4,428.22	4,447.41	4,254.95	19.13	23.75	-27.10	-1,049.69	-371.39	508.53	474.60	33.93	14.987		
4,600.00	4,525.85	4,546.22	4,347.40	19.63	24.42	-27.17	-1,082.69	-382.69	523.91	489.12	34.79	15.059		
4,700.00	4,623.47	4,645.03	4,439.84	20.13	25.09	-27.24	-1,115.69	-393.99	539.29	503.64	35.65	15.128		
4,800.00	4,721.10	4,743.84	4,532.29	20.64	25.76	-27.31	-1,148.70	-405.29	554.68	518.17	36.51	15.193		
4,900.00	4,818.72	4,842.64	4,624.73	21.14	26.43	-27.37	-1,181.70	-416.59	570.06	532.69	37.37	15.255		
5,000.00	4,916.35	4,941.45	4,717.18	21.64	27.10	-27.43	-1,214.70	-427.89	585.45	547.22	38.23	15.314		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error:

Reference Well: Rincon Unit 817H

Well Error: 0.00 ft Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Grid

Minimum Curvature 2.00 sigma

DB_Decv0422v16 Offset Datum

Offset Des	sign: Ri	ncon pad (6	613, 615, 7	713, 715,81	5,817,915	5 & 917) - F	Rincon Unit 917I	H - Original	Hole - rev	1			Offset Site Error:	0.00 ft
Survey Progr		-MWD								Rule Assi	igned:		Offset Well Error:	0.00 ft
Refer Measured	rence Vertical	Off Measured	set Vertical	Semi M Reference	Major Axis Offset	Highside	Offset Wellbe	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	, and the second se	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
5,100.00	5,013.97	5,040.26	4,809.62	22.14	27.78	-27.49	-1,247.70	-439.19	600.83	561.74	39.09	15.370		
5,200.00	5,111.60	5,139.07	4,902.07	22.64	28.45	-27.54	-1,280.70	-450.49	616.22	576.27	39.95	15.423		
5,300.00	5,209.22	5,237.87	4,994.51	23.15	29.12	-27.59	-1,313.70	-461.79	631.61	590.79	40.82	15.474		
5,400.00	5,306.85	5,336.68	5,086.96	23.65	29.79	-27.64	-1,346.71	-473.09	647.00	605.32	41.68	15.523		
5,500.00 5,600.00	5,404.47 5,502.10	5,435.49 5,565.16	5,179.40 5,301.45	24.15 24.66	30.47 31.32	-27.68 -27.79	-1,379.71 -1,421.11	-484.39 -498.57	662.38 676.41	619.84 632.69	42.54 43.73	15.569 15.469		
5,000.00	5,502.10	5,505.10	3,301.43	24.00	31.32	-21.19	-1,421.11	-490.37	070.41	032.09	43.73	15.409		
5,700.00	5,599.72	5,716.80	5,447.41	25.16	32.20	-28.16	-1,459.88	-511.84	683.49	638.54	44.95	15.205		
5,800.00	5,697.36	5,868.96	5,596.66	25.66	32.91	-28.79	-1,487.65	-521.35	682.99	637.06	45.93	14.871		
5,900.00	5,795.63	6,020.31	5,746.98	26.13	33.48	-29.44	-1,504.04	-526.96	677.76	631.13	46.63	14.534		
6,000.00	5,894.73	6,170.42	5,896.96	26.55	33.87	-30.03	-1,509.12	-528.70	669.61	622.59	47.02	14.240		
6,100.00	5,994.39	6,267.99	5,994.53	26.92	34.06	-30.26	-1,509.13	-528.69	662.63	614.89	47.74	13.880		
6,200.00	6,094.34	6,369.70	6,095.63	27.22	34.24	-31.20	-1,509.06	-518.94	660.00	611.52	48.48	13.615		
6,244.24	6,138.58	6,413.01	6,137.86	27.33	34.30	-32.03	-1,508.98	-509.38	659.90	611.02	48.88	13.500		
6,300.00	6,194.34	6,465.19	6,187.60	27.48	34.35	177.96	-1,508.86	-493.66	660.24	610.77	49.48	13.345		
6,400.00	6,294.18	6,550.00	6,264.78	27.73	34.42	85.46	-1,508.59	-458.68	662.44	611.81	50.63	13.083		
6,500.00	6,391.90	6,634.48	6,335.69	27.91	34.43	82.44	-1,508.23	-412.90	666.51	614.98	51.53	12.934		
6,600.00	6,484.57	6,713.74	6,395.43	28.03	34.42	79.71	-1,507.82	-360.91	671.89	619.79	52.10	12.896		
6,700.00	6,569.37	6,790.50	6,445.92	28.10	34.39	77.24	-1,507.37	-303.17	677.97	625.59	52.10	12.944		
6,800.00	6,643.71	6,865.83	6,487.53	28.11	34.33	75.10	-1,506.88	-240.44	684.15	631.66	52.49	13.035		
6,900.00	6,705.34	6,950.00	6,529.09	28.08	34.26	73.62	-1,506.30	-167.26	688.32	635.57	52.76	13.047		
7,000.00	6,756.00	7,027.72	6,560.05	28.02	34.19	72.73	-1,505.74	-96.03	691.96	638.82	53.14	13.022		
7,000.00	0,700.00	1,021.12	0,000.00	20.02	04.10	12.10	-1,000.74	-50.00	001.00	000.02	00.14	10.022		
7,100.00	6,796.79	7,100.00	6,579.94	27.98	34.12	71.51	-1,505.20	-26.60	696.33	642.62	53.71	12.964		
7,200.00	6,821.13	7,170.97	6,590.83	27.94	34.05	70.73	-1,504.65	43.48	699.31	644.66	54.64	12.797		
7,300.00	6,828.38	7,249.99	6,593.33	28.00	33.99	70.40	-1,504.03	122.42	700.57	644.49	56.08	12.493		
7,400.00	6,828.73	7,349.99	6,593.59	28.61	33.96	70.39	-1,503.25	222.42	700.59	642.48	58.12	12.055		
7,500.00	6,829.08	7,449.99	6,593.85	29.81	34.00	70.38	-1,502.47	322.41	700.62	640.16	60.46	11.588		
7,600.00	6,829.43	7,549.99	6,594.11	31.23	34.22	70.38	-1,501.68	422.41	700.65	637.57	63.08	11.107		
7,700.00	6,829.77	7,649.99	6,594.37	32.79	34.86	70.37	-1,500.90	522.41	700.68	634.73	65.95	10.624		
7,800.00	6,830.12	7,749.99	6,594.63	34.47	36.05	70.36	-1,500.12	622.40	700.71	631.68	69.03	10.151		
7,900.00	6,830.47	7,849.99	6,594.89	36.25	37.61	70.36	-1,499.34	722.40	700.74	628.45	72.30	9.693		
8,000.00	6,830.82	7,949.99	6,595.15	38.12	39.36	70.35	-1,498.55	822.40	700.77	625.05	75.72	9.255		
8,100.00	6,831.16	8,049.99	6,595.41	40.06	41.23	70.34	-1,497.77	922.39	700.80	621.51	79.29	8.839		
8,200.00	6,831.51	8,149.99	6,595.67	42.06	43.18	70.34	-1,496.99	1,022.39	700.83	617.86	82.97	8.447		
8,300.00	6,831.86	8,249.99	6,595.93	44.12	45.20	70.33	-1,496.20	1,122.39	700.86	614.10	86.76	8.078		
8,400.00	6,832.21	8,349.99	6,596.19	46.23	47.27	70.32	-1,495.42	1,222.38	700.89	610.25	90.64	7.732		
8,500.00	6,832.55	8,449.99	6,596.45	48.37	49.39	70.32	-1,494.64	1,322.38	700.92	606.32	94.60	7.409		
8,600.00	6,832.90	8,549.99	6,596.72	50.56	51.55	70.31	-1,493.86	1,422.38	700.95	602.32	98.63	7.107		
8,700.00	6,833.25	8,649.99	6,596.98	52.78	53.74	70.30	-1,493.07	1,522.37	700.98	598.26	102.72	6.824		
8,800.00	6,833.60	8,749.99	6,597.24	55.02	55.96	70.30	-1,492.29	1,622.37	701.01	594.15	106.86	6.560		
8,900.00	6,833.94	8,849.99	6,597.50	57.29	58.21	70.29	-1,491.51	1,722.37	701.04	589.99	111.04	6.313		
9,000.00	6,834.29	8,949.99	6,597.76	59.59	60.48	70.28	-1,490.72	1,822.36	701.07	585.80	115.27	6.082		
9,100.00	6,834.64	9,049.99	6,598.02	61.90	62.78	70.28	-1,489.94	1,922.36	701.10	581.57	119.53	5.865		
9,200.00	6,834.99	9,049.99	6,598.28	64.23	65.09	70.28	-1,489.16	2,022.36	701.10	577.31	123.82	5.662		
9,300.00	6,835.33	9,149.99	6,598.54	66.58	67.42	70.27	-1,488.38	2,022.36	701.13	577.31	123.62	5.472		
9,300.00	6,835.68	9,249.99	6,598.54	68.94	69.76	70.26	-1,488.38 -1,487.59	2,122.35	701.16	568.71	128.14	5.472		
9,500.00	6,836.03	9,349.99	6,599.06	71.31	72.12	70.26	-1,486.81	2,322.35	701.19	564.38	136.84	5.293		
3,500.00	0,030.03	o, +4 0.08	0,000.00	11.31	12.12	10.23	-1,400.01	۷,۵۷۷.۵۵	101.22	504.50	130.04	J. 124		
9,600.00	6,836.38	9,549.99	6,599.32	73.70	74.49	70.24	-1,486.03	2,422.34	701.25	560.03	141.22	4.966		
9,700.00	6,836.72	9,649.99	6,599.58	76.09	76.88	70.24	-1,485.24	2,522.34	701.28	555.66	145.61	4.816		
9,800.00	6,837.07	9,749.99	6,599.84	78.50	79.27	70.23	-1,484.46	2,622.33	701.30	551.28	150.02	4.675		
9,900.00	6,837.42	9,849.99	6,600.10	80.92	81.67	70.22	-1,483.68	2,722.33	701.33	546.89	154.44	4.541		
10,000.00	6,837.77	9,949.99	6,600.36	83.34	84.08	70.22	-1,482.90	2,822.33	701.36	542.49	158.87	4.415		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft
Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: G

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Grid

Minimum Curvature 2.00 sigma DB Decv0422v16

urvey Prog	ram: 0-	MWD								Rule Assi	aned:		Offset Well Error:	0.00
Refe	rence	Offs			ajor Axis		Offset Wellbe	ore Centre		tance	_			0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0,100.00	6,838.11	10,049.99	6,600.62	85.77	86.50	70.21	-1,482.11	2,922.32	701.39	538.08	163.31	4.295		
0,200.00	6,838.46	10,149.99	6,600.88	88.21	88.93	70.20	-1,481.33	3,022.32	701.42	533.67	167.76	4.181		
0,300.00	6,838.81	10,249.99	6,601.14	90.65	91.36	70.20	-1,480.55	3,122.32	701.45	529.24	172.21	4.073		
0,400.00	6,839.16	10,349.99	6,601.41	93.10	93.80	70.19	-1,479.76	3,222.31	701.48	524.82	176.67	3.971		
0,500.00	6,839.50	10,449.99	6,601.67	95.55	96.24	70.18	-1,478.98	3,322.31	701.51	520.39	181.13	3.873		
0,600.00	6,839.85	10,549.99	6,601.93	98.01	98.69	70.18	-1,478.20	3,422.31	701.54	515.95	185.59	3.780		
10,700.00	6,840.20	10,649.99	6,602.19	100.48	101.15	70.17	-1,477.42	3,522.30	701.57	511.52	190.06	3.691		
10,800.00	6,840.55	10,749.99	6,602.45	102.94	103.61	70.16	-1,476.63	3,622.30	701.60	507.08	194.52	3.607		
10,900.00	6,840.89	10,849.99	6,602.71	105.42	106.07	70.16	-1,475.85	3,722.30	701.63	502.65	198.99	3.526		
11,000.00	6,841.24	10,949.99	6,602.97	107.89	108.54	70.15	-1,475.07	3,822.29	701.66	498.21	203.45	3.449		
11,100.00	6,841.59	11,049.99	6,603.23	110.37	111.01	70.14	-1,474.28	3,922.29	701.69	493.77	207.92	3.375		
11,200.00	6,841.94	11,149.99	6,603.49	112.85	113.49	70.14	-1,473.50	4,022.29	701.72	489.34	212.38	3.304		
11,300.00	6,842.29	11,249.99	6,603.75	115.34	115.96	70.13	-1,472.72	4,122.28	701.75	484.91	216.84	3.236		
11,400.00	6,842.63	11,349.99	6,604.01	117.83	118.44	70.12	-1,471.94	4,222.28	701.78	480.48	221.30	3.171		
11,500.00	6,842.98	11,449.99	6,604.27	120.32	120.93	70.12	-1,471.15	4,322.28	701.81	476.06	225.75	3.109		
11,600.00	6,843.33	11,549.99	6,604.53	122.81	123.42	70.11	-1,470.37	4,422.27	701.84	471.64	230.20	3.049		
11,700.00	6,843.68	11,649.99	6,604.79	125.31	125.91	70.10	-1,469.59	4,522.27	701.87	467.23	234.65	2.991		
11,800.00	6,844.02	11,749.99	6,605.05	127.81	128.40	70.09	-1,468.80	4,622.27	701.90	462.82	239.09	2.936		
11,900.00	6,844.37	11,849.99	6,605.31	130.31	130.89	70.09	-1,468.02	4,722.26	701.93	458.41	243.52	2.882		
12,000.00	6,844.72	11,949.99	6,605.57	132.81	133.39	70.08	-1,467.24	4,822.26	701.96	454.01	247.95	2.831		
12,100.00	6,845.07	12,049.99	6,605.83	135.31	135.89	70.07	-1,466.46	4,922.26	701.99	449.62	252.37	2.782		
12,200.00	6,845.41	12,149.99	6,606.10	137.82	138.39	70.07	-1,465.67	5,022.25	702.02	445.24	256.79	2.734		
12,300.00	6,845.76	12,249.99	6,606.36	140.33	140.89	70.06	-1,464.89	5,122.25	702.05	440.86	261.19	2.688		
12,400.00	6,846.11	12,349.99	6,606.62	142.84	143.39	70.05	-1,464.11	5,222.25	702.08	436.49	265.59	2.643		
12,500.00	6,846.46	12,449.99	6,606.88	145.35	145.90	70.05	-1,463.32	5,322.24	702.11	432.13	269.98	2.601		
12,600.00	6,846.80	12,549.99	6,607.14	147.86	148.40	70.04	-1,462.54	5,422.24	702.14	427.77	274.37	2.559		
12,700.00	6,847.15	12,649.99	6,607.40	150.37	150.91	70.03	-1,461.76	5,522.24	702.17	423.43	278.74	2.519		
12,800.00	6,847.50	12,749.99	6,607.66	152.89	153.42	70.03	-1,460.98	5,622.23	702.20	419.10	283.10	2.480		
12,900.00	6,847.85	12,849.99	6,607.92	155.40	155.93	70.02	-1,460.19	5,722.23	702.23	414.77	287.46	2.443		
13,000.00	6,848.19	12,949.99	6,608.18	157.92	158.45	70.01	-1,459.41	5,822.22	702.26	410.46	291.80	2.407		
13,100.00	6,848.54	13,049.99	6,608.44	160.44	160.96	70.01	-1,458.63	5,922.22	702.29	406.15	296.14	2.372		
13,200.00	6,848.89	13,149.99	6,608.70	162.96	163.48	70.00	-1,457.84	6,022.22	702.32	401.86	300.46	2.337		
13,300.00	6,849.24	13,249.99	6,608.96	165.48	165.99	69.99	-1,457.06	6,122.21	702.35	397.58	304.77	2.305		
13,400.00	6,849.58	13,349.99	6,609.22	168.00	168.51	69.99	-1,456.28	6,222.21	702.38	393.31	309.07	2.273		
13,500.00	6,849.93	13,449.99	6,609.48	170.52	171.03	69.98	-1,455.50	6,322.21	702.41	389.05	313.36	2.242		
13,600.00	6,850.28	13,549.99	6,609.74	173.04	173.55	69.98	-1,454.71	6,422.20	702.44	384.81	317.63	2.211		
13,700.00	6,850.63	13,649.99	6,610.00	175.57	176.07	69.97	-1,453.93	6,522.20	702.47	380.58	321.89	2.182		
13,800.00	6,850.97	13,749.99	6,610.26	178.09	178.59	69.96	-1,453.15	6,622.20	702.50	376.36	326.14	2.154		
13,900.00	6,851.32	13,849.99	6,610.52	180.62	181.11	69.96	-1,452.36	6,722.19	702.53	372.16	330.37	2.126		
14,000.00	6,851.67	13,949.99	6,610.79	183.14	183.63	69.95	-1,451.58	6,822.19	702.56	367.97	334.59	2.100		
14,100.00	6,852.02	14,049.99	6,611.05	185.67	186.16	69.94	-1,450.80	6,922.19	702.59	363.79	338.80	2.074		
14,200.00	6,852.36	14,149.99	6,611.31	188.20	188.68	69.94	-1,450.02	7,022.18	702.62	359.63	342.99	2.049		
14,300.00	6,852.71	14,249.99	6,611.57	190.72	191.20	69.93	-1,449.23	7,122.18	702.65	355.49	347.16	2.024		
14,400.00	6,853.06	14,349.99	6,611.83	193.25	193.73	69.92	-1,448.45	7,222.18	702.68	351.36	351.32	2.000		
14,500.00	6,853.41	14,449.99	6,612.09	195.78	196.26	69.92	-1,447.67	7,322.17	702.71	347.25	355.46	1.977 Leve	el 3<2.00	
14,600.00	6,853.75	14,549.99	6,612.35	198.31	198.78	69.91	-1,446.88	7,422.17	702.74	343.16	359.59	1.954 Leve	el 3<2.00	
14,700.00	6,854.10	14,649.99	6,612.61	200.84	201.31	69.90	-1,446.10	7,522.17	702.77	339.08	363.69	1.932 Leve	el 3<2.00	
14,800.00	6,854.45	14,749.99	6,612.87	203.37	203.84	69.90	-1,445.32	7,622.16	702.80	335.02	367.78	1.911 Leve		
14,900.00	6,854.80	14,849.99	6,613.13	205.91	206.37	69.89	-1,444.54	7,722.16	702.83	330.98	371.85	1.890 Leve		
15,000.00	6,855.14	14,949.99	6,613.39	208.44	208.90	69.88	-1,443.75	7,822.16	702.86	326.96	375.91	1.870 Leve		
15,100.00	6,855.49	15,049.99	6,613.65	210.97	211.43	69.88	-1,442.97	7,922.15	702.89	322.95	379.94	1.850 Leve		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft
Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

North Reference: Grid
Survey Calculation Method: Minimum Curvature

Survey Calculation Method:
Output errors are at
Database:

2.00 sigma

Offset TVD Reference:

DB_Decv0422v16 Offset Datum

ffset De													Offset Site Error:	0.00
rvey Prog		MWD Off	4	Com: B	Anian Avia		Offset Wellb	ana Camtua	Die	Rule Assi tance	gned:		Offset Well Error:	0.00
leasured Depth	rence Vertical Depth	Measured Depth	Vertical Depth	Reference	Major Axis Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
5,200.00	6,855.84	15,149.99	6,613.91	213.50	213.96	69.87	-1,442.19	8,022.15	702.92	318.97	383.95	1.831 Level 3		
5,300.00	6,856.19	15,249.99	6,614.17	216.04	216.49	69.86	-1,441.40	8,122.15	702.95	315.00	387.95	1.812 Level 3	<2.00	
5,400.00	6,856.54	15,349.99	6,614.43	218.57	219.02	69.86	-1,440.62	8,222.14	702.98	311.06	391.92	1.794 Level 3	<2.00	
5,500.00	6,856.88	15,449.99	6,614.69	221.11	221.55	69.85	-1,439.84	8,322.14	703.01	307.14	395.88	1.776 Level 3	<2.00	
5,600.00	6,857.23	15,549.99	6,614.95	223.64	224.08	69.84	-1,439.06	8,422.14	703.04	303.24	399.81	1.758 Level 3	<2.00	
5,700.00	6,857.58	15,649.99	6,615.21	226.18	226.62	69.84	-1,438.27	8,522.13	703.07	299.36	403.72	1.742 Level 3	<2.00	
5,800.00	6,857.93	15,749.99	6,615.48	228.71	229.15	69.83	-1,437.49	8,622.13	703.10	295.50	407.60	1.725 Level 3	<2.00	
5,900.00	6,858.27	15,849.99	6,615.74	231.25	231.68	69.82	-1,436.71	8,722.13	703.13	291.67	411.47	1.709 Level 3	<2.00	
6,000.00	6,858.62	15,949.99	6,616.00	233.78	234.22	69.82	-1,435.92	8,822.12	703.16	287.85	415.31	1.693 Level 3	<2.00	
6,100.00	6,858.97	16,049.99	6,616.26	236.32	236.75	69.81	-1,435.14	8,922.12	703.19	284.07	419.13	1.678 Level 3	<2.00	
6,200.00	6,859.32	16,149.99	6,616.52	238.86	239.29	69.80	-1,434.36	9,022.11	703.23	280.30	422.92	1.663 Level 3	<2.00	
6,300.00	6,859.66	16,249.99	6,616.78	241.39	241.82	69.80	-1,433.57	9,122.11	703.26	276.56	426.69	1.648 Level 3	<2.00	
6,400.00	6,860.01	16,349.99	6,617.04	243.93	244.36	69.79	-1,432.79	9,222.11	703.29	272.85	430.44	1.634 Level 3	<2.00	
3,500.00	6,860.36	16,449.99	6,617.30	246.47	246.89	69.78	-1,432.01	9,322.10	703.32	269.15	434.16	1.620 Level 3	<2.00	
3,600.00	6,860.71	16,549.99	6,617.56	249.01	249.43	69.78	-1,431.23	9,422.10	703.35	265.49	437.86	1.606 Level 3		
6,700.00	6,861.05	16,649.99	6,617.82	251.55	251.97	69.77	-1,430.44	9,522.10	703.38	261.85	441.53	1.593 Level 3		
6,800.00	6,861.40	16,749.99	6,618.08	254.08	254.50	69.76	-1,429.66	9,622.09	703.41	258.24	445.17	1.580 Level 3	<2.00	
6,900.00	6,861.75	16,849.99	6,618.34	256.62	257.04	69.76	-1,428.88	9,722.09	703.44	254.65	448.79	1.567 Level 3	<2.00	
7,000.00	6,862.10	16,949.99	6,618.60	259.16	259.58	69.75	-1,428.09	9,822.09	703.47	251.09	452.38	1.555 Level 3	<2.00	
7,100.00	6,862.44	17,049.99	6,618.86	261.70	262.12	69.74	-1,427.31	9,922.08	703.50	247.56	455.94	1.543 Level 3	<2.00	
7,200.00	6,862.79	17,149.99	6,619.12	264.24	264.65	69.74	-1,426.53	10,022.08	703.53	244.05	459.48	1.531 Level 3	<2.00	
7,300.00	6,863.14	17,249.99	6,619.38	266.78	267.19	69.73	-1,425.75	10,122.08	703.56	240.57	462.98	1.520 Level 3	i<2.00	
7,400.00	6,863.49	17,349.99	6,619.64	269.32	269.73	69.72	-1,424.96	10,222.07	703.59	237.12	466.47	1.508 Level 3		
7,500.00	6,863.83	17,449.99	6,619.90	271.86	272.27	69.72	-1,424.18	10,322.07	703.62	233.70	469.92	1.497 Level 2		
7,600.00	6,864.18	17,549.99	6,620.17	274.40	274.81	69.71	-1,423.40	10,422.07	703.65	230.31	473.34	1.487 Level 2		
7,700.00	6,864.53	17,649.99	6,620.43	276.94	277.35	69.70	-1,422.61	10,522.06	703.68	226.94	476.74	1.476 Level 2		
7,800.00	6,864.88	17,749.99	6,620.69	279.49	279.89	69.70	-1,421.83	10,622.06	703.71	223.60	480.11	1.466 Level 2	<1.50	
7,900.00	6,865.22	17,849.99	6,620.95	282.03	282.43	69.69	-1,421.05	10,722.06	703.74	220.30	483.45	1.456 Level 2		
8,000.00	6,865.57	17,949.99	6,621.21	284.57	284.97	69.68	-1,420.27	10,822.05	703.74	217.01	486.76	1.446 Level 2		
8,100.00	6,865.92	18,049.99	6,621.47	287.11	287.51	69.68	-1,419.48	10,922.05	703.77	213.76	490.04	1.436 Level 2		
8,200.00	6,866.27	18,149.99	6,621.73	289.65	290.05	69.67	-1,418.70	11,022.05	703.83	210.54	493.29	1.427 Level 2		
8,300.00	6,866.61	18,249.99	6,621.99	292.19	292.59	69.66	-1,417.92	11,122.04	703.86	207.34	496.52	1.418 Level 2	×1 50	
8,400.00	6.866.96	18,349,99	6.622.25	292.19	292.59	69.66	-1,417.92	11,122.04	703.89	207.34	490.52	1.418 Level 2		
8,500.00	6,867.31	18,349.99	6,622.51	294.74	295.13	69.65	-1,417.13	11,322.04	703.89	204.18	502.88	1.409 Level 2		
8,600.00	6,867.66	18,549.99	6,622.77	299.82	300.21	69.64	-1,415.57	11,422.03	703.96	197.93	506.02	1.391 Level 2		
3,605.83	6,867.68	18,555.81	6,622.79	299.97	300.36	69.64	-1,415.52	11,427.86	703.96	197.75	506.21	1.391 Level 2	1.00	
3,698.72	6,868.00	18,638.04	6,623.00	302.33	302.45	69.64	-1,414.88	11,510.08	704.07	194.41	509.65	1.381 Level 2	-1 FO OF	



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Rincon pad (613, 615, 713, 715,815,817,915 Reference Site:

0.00 ft Site Error: Reference Well: Rincon Unit 817H

Well Error: 0.00 ft Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma

DB Decv0422v16 Offset Datum

													Offset Site Error:	0.001
rvey Prog	ram: 33	5-INC-ONLY Offs	not.	Sami N	lajor Axis		Offset Wellbe	ara Cantra	Die	Rule Assi tance	gned:		Offset Well Error:	0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	-137.70	-370.32	-336.92	500.66		. ,			
100.00	100.00	96.00	96.00	0.13	1.25	-137.70	-370.32	-336.92	500.65	499.26	1.39	360.965		
200.00	200.00	196.00	196.00	0.49	2.56	-137.70	-370.32	-336.92	500.65	497.60	3.05	164.137		
300.00	300.00	296.00	296.00	0.85	3.86	-137.70	-370.32	-336.92	500.65	495.94	4.71	106.218		
400.00	400.00	396.00	396.00	1.21	9.42	-137.70	-370.32	-336.92	500.65	490.01	10.63	47.081		
500.00	500.00	496.00	496.00	1.57	17.71	-137.70	-370.32	-336.92	500.65	481.37	19.28	25.973		
600.00	600.00	596.00	596.00	1.93	25.99	-137.70	-370.32	-336.92	500.65	472.73	27.92	17.933		
700.00	700.00	696.00	696.00	2.29	34.27	-137.70	-370.32	-336.92	500.65	464.09	36.56	13.694		
800.00	800.00	796.00	796.00	2.64	42.56	-137.70	-370.32	-336.92	500.65	455.45	45.20	11.076		
900.00	900.00	896.00	896.00	3.00	50.84	-137.70	-370.32	-336.92	500.65	446.81	53.84	9.298		
1,000.00	1,000.00	996.00	996.00	3.36	59.12	-137.70	-370.32	-336.92	500.65	438.16	62.48	8.012		
1,100.00	1,100.00	1,096.00	1,096.00	3.72	67.41	-137.70	-370.32	-336.92	500.65	429.52	71.13	7.039		
1,200.00	1,200.00	1,196.00	1,196.00	4.08	75.69	-137.70	-370.32	-336.92	500.65	420.88	79.77	6.276		
1,300.00	1,299.95	1,295.96	1,295.95	4.42	83.97	11.02	-370.32	-336.92	498.08	409.69	88.39	5.635		
1,400.00	1,399.63	1,395.64	1,395.63	4.75	92.23	11.24	-370.32	-336.92	490.38	393.40	96.98	5.057		
1,500.00	1,498.77	1,494.77	1,494.77	5.09	100.44	11.62	-370.32	-336.92	477.58	372.06	105.53	4.526		
1,600.00	1,597.08	1,593.02	1,593.00	5.45	108.58	12.42	-367.71	-336.92	457.85	343.84	114.00	4.016		
1,700.00	1,694.72	1,690.55	1,690.54	5.83	116.66	13.05	-367.75	-336.92	436.79	314.37	122.42	3.568		
1,800.00	1,792.35	1,788.09	1,788.07	6.24	124.73	13.72	-367.82	-336.92	415.74	284.90	130.84	3.177		
1,900.00	1,889.97	1,885.64	1,885.62	6.65	132.81	14.45	-367.93	-336.92	394.77	255.50	139.27	2.835		
2,000.00	1,987.60	1,983.20	1,983.18	7.08	140.90	15.26	-368.07	-336.92	373.90	226.19	147.71	2.531		
2,100.00	2,085.22	2,080.77	2,080.75	7.52	148.98	16.16	-368.25	-336.92	353.13	196.98	156.15	2.261		
2,200.00	2,182.85	2,178.36	2,178.34	7.97	157.06	17.17	-368.46	-336.92	332.48	167.88	164.60	2.020		
2,300.00	2,280.47	2,275.96	2,275.94	8.42	165.15	18.31	-368.71	-336.92	311.96	138.91	173.06	1.803 Leve	3<2.00	
2,400.00	2,378.10	2,373.58	2,373.55	8.88	173.23	19.60	-368.99	-336.92	291.60	110.08	181.52	1.606 Leve		
2,500.00	2,475.72	2,471.21	2,471.18	9.35	181.32	21.07	-369.31	-336.92	271.43	81.43	189.99	1.429 Leve		
2,600.00	2,573.35	2,568.85	2,568.82	9.82	189.41	22.78	-369.66	-336.92	251.47	53.00	198.47	1.267 Leve	2<1.50	
2,700.00	2,670.97	2,666.51	2,666.47	10.29	197.50	24.77	-370.04	-336.92	231.79	24.82	206.97	1.120 Leve		
2,800.00	2,768.60	2,764.90	2,764.60	10.77	203.33	27.15	-370.32	-336.92	212.37	-0.70	213.08	0.997 Leve		
2,900.00	2,866.22	2,862.52	2,862.22	11.25	204.55	30.07	-370.32	-336.92	193.25	-20.99	214.24	0.902 Leve		
3,000.00	2,963.85	2,959.96	2,959.65	11.73	205.76	33.88	-369.37	-336.92	174.30	-41.81	216.12	0.807 Leve		
3,100.00	3,061.47	3,057.35	3,057.02	12.21	206.97	38.06	-369.91	-336.92	156.83	-61.44	218.27	0.719 Leve	1-1.00	
3,200.00	3,159.10	3,155.49	3,155.10	12.70	208.65	43.33	-370.32	-336.92	140.36	-78.14	218.50	0.642 Leve		
3,300.00	3,159.10	3,253.11	3,252.72	13.19	210.68	50.05	-370.32	-336.92	125.28	-76.14 -95.60	220.88	0.542 Leve		
3,400.00	3,354.35	3,350.74	3,350.35	13.68	212.71	58.40	-370.32	-336.92	112.39	-112.43	224.82	0.507 Leve		
3,500.00	3,451.97	3,448.36	3,447.97	14.17	214.73	68.56	-370.32	-336.92	102.49	-125.81	228.30	0.449 Leve		
3,600.00	3,549.60	3,545.99	3,545.60	14.66	216.76	80.34	-370.32	-336.92	96.52	-134.85	231.36	0.417 Leve	1<1.00	
3,676.55	3,624.33	3,620.72	3,620.33		218.31	90.00	-370.32	-336.92	95.08	-134.65	233.28		1<1.00 1<1.00, CC	
3,700.00		3,643.61	3,643.22	15.04 15.16	218.31	90.00	-370.32 -370.32	-336.92	95.08	-138.19	233.28			
3,800.00	3,647.22			15.16 15.65									1<1.00, ES, SF	
3,800.00	3,744.85 3,842.47	3,741.24 3,838.86	3,740.85 3,838.47	15.65 16.15	220.81 222.84	105.36 116.43	-370.32 -370.32	-336.92 -336.92	98.77 106.70	-137.43 -130.36	236.20 237.06	0.418 Leve 0.450 Leve		
4,000.00	3,940.10	3,936.50	3,936.06	16.64	224.87	126.53	-365.79	-336.92	122.32	-115.17	237.49	0.515 Leve	1<1.00	
4,100.00	4,037.72	4,034.31	4,033.87	17.14	226.90	133.77	-365.87	-336.92	136.44	-103.98	240.42	0.513 Leve		
4,200.00	4,135.35	4,132.18 4,230.10	4,131.73	17.64	228.93	139.60	-366.06 -366.30	-336.92 -336.92	152.20	-91.64 -77.90	243.84	0.624 Leve		
4,300.00 4,400.00	4,232.97 4,330.60	4,230.10	4,229.65 4,327.61	18.14 18.63	230.96 233.00	144.32 148.18	-366.39 -366.84	-336.92 -336.92	169.11 186.81	-77.90 -62.66	247.00 249.47	0.685 Leve 0.749 Leve		
4,500.00	4,428.22	4,426.10	4,425.62	19.13	235.03	151.36	-367.41	-336.92	205.07	-46.70	251.77	0.815 Leve		
4,600.00	4,525.85	4,524.17	4,523.68	19.63	237.07	154.03	-368.11	-336.92	223.71	-30.37	254.08	0.880 Leve		
4,700.00	4,623.47	4,622.30	4,621.80	20.13	239.11	156.29	-368.94	-336.92	242.63	-13.78	256.41	0.946 Leve		
4,800.00	4,721.10	4,720.47	4,719.96	20.64	241.14	158.23	-369.90	-336.92	261.74	2.98	258.75	1.012 Leve		
4,900.00	4,818.72	4,815.32	4,814.72	21.14	242.41	159.82	-370.32	-336.92	281.60	21.33	260.26	1.082 Leve	Z<1.5U	



Company: **Enduring Resources LLC**

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

Site Error: 0.00 ft Reference Well: Rincon Unit 817H

0.00 ftWell Error: Reference Wellbore Original Hole

Reference Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature

2.00 sigma DB Decv0422v16 Offset Datum

Section 21-T27N-R06W - Rincon Unit 180 - Original Hole - Inc only surveys Offset Design: 0.00 ft Offset Site Error: 335-INC-ONLY Offset Survey Program: Reference Rule Assigned: Offset Well Error: 0.00 ft Distance Semi Major Axis Offset Wellbore Centre Measured Vertical Measured Vertical Reference Offset Highside Between Between Minimum Separation Warning +N/-S +E/-W Depth Depth Depth Toolface Depth Centres Ellipses Separation Factor (ft) (ft) (ft) (ft) (ft) (ft) (°) (ft) (ft) (ft) -370.16 1.156 Level 2<1.50 5.000.00 4.916.35 4.913.63 4.913.04 21.64 243.21 161.24 -336.92 261.47 302.23 40.76 5,100.00 5,013.97 5.010.57 5,009.97 22.14 243.96 162.47 -370.32 -336.92 322.71 60.17 262.54 1.229 Level 2<1.50 5,200.00 5,111.60 5,108.20 5,107.60 244.69 163.56 -370.32 -336.92 343.48 263.62 1.303 Level 2<1.50 22.64 79.85 5,300.00 5,209.22 5,205.83 5,205.22 23.15 245.45 164.52 -370.32 -336.92 364.34 99.60 264.74 1.376 Level 2<1.50 5,303.89 246.21 -369.72 5,400.00 5,306.85 5,303.28 23.65 165.36 -336.92 385.87 120.00 265.87 1.451 Level 2<1.50 5.500.00 5.404.47 5.402.86 5.402.25 24.15 246.99 166.15 -370.00 -336.92 406.63 139.61 267.02 1.523 Level 3<2.00 5.502.10 5,498.72 5.498.10 248.62 166.84 -370.32 -336.92 427.42 158.43 268.99 1.589 Level 3<2.00 5,600.00 24.66 5.700.00 5.599.72 5.596.34 5.595.72 25.16 251.60 167.47 -370.32-336.92 448.57 176.23 272.34 1.647 Level 3<2.00 5,800.00 5.697.36 5.693.98 5.693.36 25.66 254.59 168.06 -370.32 -336.92 469.72 194.03 275.70 1.704 Level 3<2.00 5,900.00 5,795.63 5,792.25 5,791.63 26.13 257.60 168.62 -370.32 -336.92 487.81 208.74 279.07 1.748 Level 3<2.00 6,000.00 5,894.73 5,891.35 5,890.73 26.55 260.63 168.99 -370.32 -336.92 500.84 218.38 282.46 1.773 Level 3<2.00 6,100.00 5,994.39 5,991.01 5,990.39 26.92 263.68 169.21 -370.32 -336.92 508.77 222.91 285.86 1.780 Level 3<2.00 6,200.00 6.094.34 6.090.96 6.090.34 27.22 266.74 169.29 -370.32 -336.92 511.57 222.33 289.24 1.769 Level 3<2.00 -370.32 1.748 Level 3<2.00 6,300.00 6,194.34 6,190.96 6,190.34 27.48 269.80 20.64 -336.92 511.57 218.96 292.62 6.400.00 6 294 18 6.290.79 6 290 18 27 73 272 86 -69 49 -370.32 -336 92 510 10 214 11 295 99 1 723 Level 3<2 00 6,500.00 6,391.90 6,388.52 6,387.90 27.91 275.85 -72.29 -370.32 -336.92 503.21 203.89 299.31 1.681 Level 3<2.00 6.600.00 6.484.57 6.481.19 6.480.57 28.03 278.69 -77.15 -370.32-336.92 492.68 190.17 302.52 1.629 Level 3<2.00 6,700.00 6.569.37 6,565.99 6,565.37 28.10 281.28 -83.38 -370.32 -336.92 482.33 176.76 305.57 1.578 Level 3<2.00 6,800.00 6,643.71 6,640.33 6,639.71 28.11 283.56 -89.79 -370.32 -336.92 477.33 168.89 308.44 1.548 Level 3<2.00 6,646.13 6,642.75 6,642.13 283.63 -370.32 -336.92 477.32 308.54 1.547 Level 3<2.00 6,803.56 28.10 -90.00 168.78 6.900.00 6.705.34 6.701.96 6.701.34 28.08 285.44 -94.97 -370.32 -336.92 483.33 172.25 311.08 1.554 Level 3<2.00 7,000.00 6.756.00 6.752.62 6.752.00 28.02 286.99 -99.38 -370.32 -336.92 504.13 190.69 313.44 1.608 Level 3<2.00 540.39 1.713 Level 3<2.00 7.100.00 6.796.79 6.793.41 6.792.79 27.98 288.24 -99.86 -370.32 -336.92 224.99 315.40 7,200.00 6.821.13 6.817.75 6.817.13 27.94 288 99 -96 62 -370.32 -336 92 592.02 275.35 316.67 1.870 Level 3<2.00 7,300.00 6,828.38 6,825.00 6,824.38 28.00 289.21 -90.19 -370.32 -336.92 655.89 338.68 317.20 2.068 6,828.73 6,825.35 6,824.73 28.61 289.22 -90.23 -370.32 -336.92 728.12 410.74 317.38 2.294 7,400.00 7,500.00 6,829.08 6,825.70 6,825.08 29.81 289.23 -90.27 -370.32 -336.92 806.30 488.82 317.48 2.540 7.600.00 6.829.43 6.826.04 6.825.43 31.23 289.24 -90.31 -370.32 -336.92 888.87 571.34 317.53 2.799 6,829.77 6,826.39 6,825.77 289.25 -370.32 -336.92 974.70 7,700.00 32.79 -90.35 657.15 317.55 3.069 7 800 00 6 830 12 6 826 74 6 826 12 34 47 289 26 -90 40 -370.32 -336 92 1 063 02 745 47 317 56 3 348 6,827.09 -370.32 7,900.00 6,830.47 6,826.47 36.25 289.27 -90.44 -336.92 1,153.25 835.70 317.55 3.632 8.000.00 6.830.82 6.827.43 6.826.82 38.12 289.28 -90.48 -370.32-336.92 1.244.97 927.43 317.54 3.921 8,100.00 6.831.16 6,827.78 6.827.16 40.06 289.29 -90.52 -370.32 -336.92 1.337.87 1,020.34 317.53 4.213 6,827.51 8,200.00 6,831.51 6,828.13 42.06 289.31 -90.56 -370.32 -336.92 1,431.74 1,114.22 317.52 4.509 8,300.00 6,831.86 6,828.48 6,827.86 44.12 289.32 -90.60 -370.32 -336.92 1,526.38 1,208.87 317.51 4.807 8.400.00 6.832.21 6.828.82 6.828.21 46.23 289.33 -90.65 -370.32-336.92 1.621.67 1.304.16 317.51 5.108

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6,829.60

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289 36

289.37

-90.69

-90.73

-90 77

-90.81



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

G

Survey Calculation Method:
Output errors are at
Database:

Offset TVD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

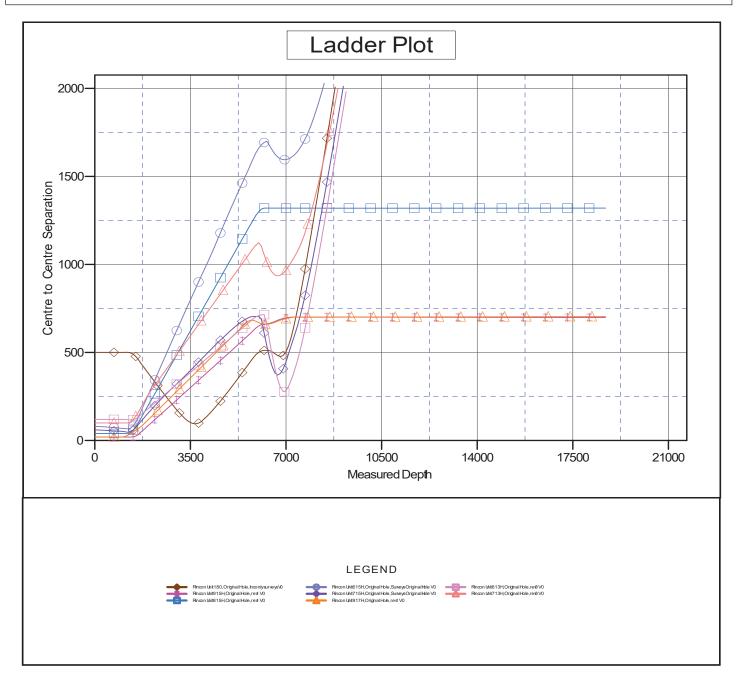
Reference Depths are relative to RKB=6538+25 @ 6563.00ft

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

Coordinates are relative to: Rincon Unit 817H

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

Grid Convergence at Surface is: 0.22°





Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM W Reference Site: Rincon pad (613, 615, 713, 715,815,817,915

& 917)

Site Error: 0.00 ft

Reference Well: Rincon Unit 817H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:
Output errors are at
Database:

Offset TVD Reference:

Well Rincon Unit 817H RKB=6538+25 @ 6563.00ft

RKB=6538+25 @ 6563.00ft RKB=6538+25 @ 6563.00ft

Grid

Minimum Curvature 2.00 sigma DB_Decv0422v16 Offset Datum

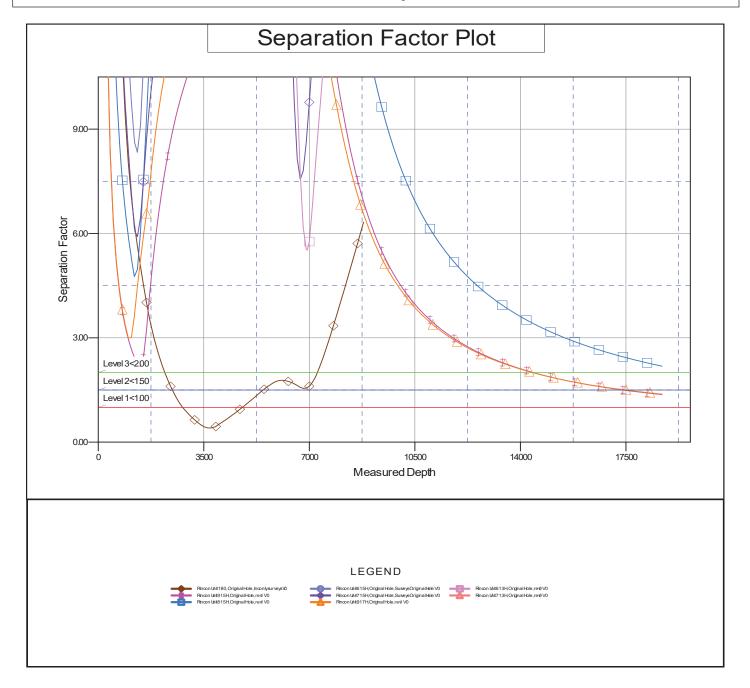
Reference Depths are relative to RKB=6538+25 @ 6563.00ft

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

Coordinates are relative to: Rincon Unit 817H

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

Grid Convergence at Surface is: 0.22°





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 #817H RINCON UNIT

Lease: NMSF079366 / Agreement: NMNM078406X SH: NW¼NE¼ Section 21, T. 27N., R. 6W. Rio Arriba County, New Mexico BH: SE¼NE¼ 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

Released to Imaging: 7/24/2024 1:09:41 PM Approval Date: 06/07/2024

I. GENERAL

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

- K. Unless drilling operations are commenced within 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

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 357817

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	357817
	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