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. 30-039-31488 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

APPROVED WITH CONDITIONS Released to Imaging: 2/10/2025 12:38:40 PM Approval Date: 12/19/2024

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NESE / 1784 FSL / 462 FEL / TWSP: 23N / RANGE: 6W / SECTION: 5 / LAT: 36.251116 / LONG: -107.485255 (TVD: 0 feet, MD: 0 feet) PPP: SWNW / 2283 FNL / 232 FWL / TWSP: 23N / RANGE: 6W / SECTION: 4 / LAT: 36.254336 / LONG: -107.482924 (TVD: 5473 feet, MD: 5939 feet) PPP: NWSW / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 4 / LAT: 36.246302 / LONG: -107.472751 (TVD: 5545 feet, MD: 20583 feet) PPP: NENE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 15 / LAT: 36.228639 / LONG: -107.450395 (TVD: 5545 feet, MD: 20583 feet) PPP: SENE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 15 / LAT: 36.228639 / LONG: -107.450395 (TVD: 5545 feet, MD: 20583 feet) PPP: NWNE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 9 / LAT: 36.240832 / LONG: -107.465826 (TVD: 5545 feet, MD: 20583 feet) PPP: SWNW / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 10 / LAT: 36.229895 / LONG: -107.451985 (TVD: 5545 feet, MD: 20583 feet) PPP: NWNE / 0 FNL / 0 FEL / TWSP: 23N / RANGE: 6W / SECTION: 15 / LAT: 36.229895 / LONG: -107.451985 (TVD: 5545 feet, MD: 20583 feet) BHL: SENE / 1996 FNL / 240 FEL / TWSP: 23N / RANGE: 6W / SECTION: 15 / LAT: 36.226816 / LONG: -107.44809 (TVD: 5545 feet, MD: 20583 feet)

BLM Point of Contact

Name: CHRISTOPHER P WENMAN Title: Natural Resource Specialist

Phone: (505) 564-7727 Email: cwenman@blm.gov C-102 Submit Electronically Via OCD Permitting

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

	Revised July 9, 2024
0 1 11 1	☑ Initial Submittal
Submittal Type	☐ Amended Report
. , po	☐ As Drilled

					WELL	LOCATION INFORM	ATION			
API Number			Code 13379 Pool Name			COUNSELORS GALLUP - DAKOTA				
Proper	ty Code	335063		Prop	erty Name	HAYNES CANYON UNIT	Γ		Well Number 426H	
OGRID	No.	372286		0per	ator Name E	NDURING RESOURCES, I	LLC		Ground Level Elevation	765 '
Surface	e Owner:	☐ State	☐ Fee ☐	Tribal	⊠ Federal	Mineral Own	ner: □ State □ Fee		Tribal ⊠ Federal	
						Surface Location				
UL	Section 5	Township 23N	Range 6W	Lot	Feet from N/S Line 1784' SOUTH	Feet from E/W Line 462' EAST	Latitude 36.251116°	°N	Longitude -107.485255 °W	County RIO ARRIBA
		ı				Bottom Hole Location	n			
UL H	Section 15	Township 23N	Range 6W	Lot	Feet from N/S Line 1996' NORTH	Feet from E/W Line 240' EAST	Latitude 36.226816°	°N	Longitude -107.448090°W	County RIO ARRIBA
Penetrated Spacing Unit:										
Dedicated Acres SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SW/4 SE/4 - Section 4 N/2 NE/4, SE/4 NE/4 - Section 9 SW/4 NW/4, N/2 SW/4 SE/4 SW/4, SW/4 SE/4 - Section 10			Infill or Defining Well	Defining Well API		Plapping Spacing Unit Consol	idation Code UNIT			
		SE/4 S	W/4, SW, NE/4	- Sec	tion 15 Order Numbers R-23096 R-22369				Well setbacks are under Common Ownership:	🛚 Yes 🗌 No
						Kick Off Point (KOF	?)			
UL I	Section 5	Township 23N	Range 6W	Lot	Feet from N/S Line 1784' SOUTH	Feet from E/W Line 462' EAST	Latitude 36.251116°	°N	Longitude -107.485255 °W	County RIO ARRIBA
					F	irst Take Point (F1	ΓP)			
UL E	Section 4	Township 23N	Range 6W	Lot	Feet from N/S Line 2283' NORTH	Feet from E/W Line 232' WEST	Latitude 36.254336	°N	Longitude -107.482924 °W	County RIO ARRIBA
					ı	Last Take Point (LT	P)			
UL H	Section 15	Township 23N	Range 6W	Lot	Feet from N/S Line 1996' NORTH	Feet from E/W Line 240' EAST	Latitude Longitude County 36.226816 °N -107.448090 °W RIO			County RIO ARRIBA
	Unitized Area or Area of Uniform Interest HAYNES CANYON UNIT Spacing Unit Type HOriz			rizontal 🗌 Vertical	☐ Directional	l	Ground Floor Elevation			
OPERATOR CERTIFICATION					Parts to the heat . I have		YOF	R CERTIFICATION	alabbad form	

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

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Shaw-Marix Ford	1/21/2025	
Signature	Date	
Shaw-Marie Ford		
Printed Name		

sford@enduringresources.com

E-mail Address

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



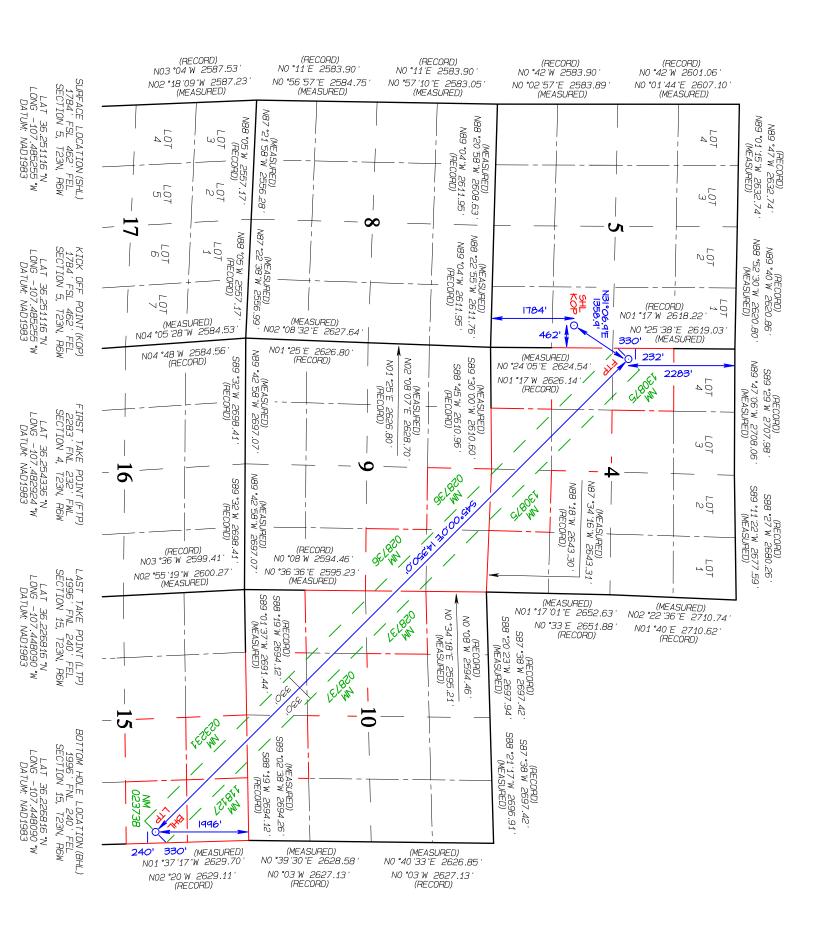
JASON LDWARDS

Signature and Seal of Professional Surveyor

Certificate Number

15269

Date of Survey OCTOBER 25, 2018



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: __Enduring Resources, LLC______**OGRID:** __372286______**Date:** __09_/_16_/_2024__

II. Type: \boxtimes Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.

TBD I-05-23N-06W

If Other, please describe:						
III. Well(s): Provide the follobe recompleted from a single				l or set of wells pr	oposed to be dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Haynes Canyon Unit 420H	TBD	I-05-23N-06W	1769 FSL x 521 FEL	617	1233	247
Haynes Canyon Unit 422H	TBD	I-05-23N-06W	1774 FSL x 501 FEL	714	1429	286
Haynes Canyon Unit 424H	TBD	I-05-23N-06W	1779 FSL x 482 FEL	744	1488	298
Haynes Canyon Unit 426H	TBD	I-05-23N-06W	1784 FSL x 462 FEL	748	1497	299
				3-year Decline	3-year Decline	3-year Decline
Haynes Canyon Unit 420H	TBD	I-05-23N-06W	1769 FSL x 521 FEL	139	279	56
Haynes Canyon Unit 422H	TBD	I-05-23N-06W	1774 FSL x 501 FEL	161	323	65
Haynes Canyon Unit 424H	TBD	I-05-23N-06W	1779 FSL x 482 FEL	168	336	67

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

1784 FSL x 462 FEL

169

38

68

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
Haynes Canyon Unit 420H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Haynes Canyon Unit 422H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Haynes Canyon Unit 424H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025
Haynes Canyon Unit 426H	TBD	Q3 2025	Q3 2025	Q3 2025	Q3 2025	Q3 2025

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

 ☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.
- 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

Haynes Canyon Unit 426H

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. \square 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 \square will \square will not have capacity to gather 100% of the anticipation.	ated natural gas
production volume from the well prior to the date of first production.	

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

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ш	Allach	perator	s bian t	o manage	broduction	in response	to the n	ncreased n	ne bressure

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

Section 3 - Certifications <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;
- reinjection for underground storage; (e)
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- fuel cell production; and (h)
- other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- 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
- 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: 9/16/2024
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.
- o 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:

- 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:

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



VENTING and FLARING

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

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

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

Enduring will only flare gas during the following times:

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



OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

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

19.15.27.8 B. Venting and flaring during drilling operations

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

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, Enduring utilizes the following:

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



19.15.27.8 D. Venting and flaring during production operations

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

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

19.15.27.8 E. Performance standards

- 1. Enduring has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
- 2. Enduring will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
- 3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.
 - a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.



- b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts ENDURING of flare malfunction within 18 months after May 25, 2021.
- c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
- d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
- 4. Enduring will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
- 5. Enduring will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
- 6. Enduring may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
- 7. Facilities will be designed to minimize waste.
- 8. Enduring will resolve emergencies as promptly as possible.

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

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



BEST MANAGEMENT PRACTICES

Enduring utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

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

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

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

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

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

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

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



ENDURING RESOURCES IV, LLC 1050 SEVENTEENTH STREET, SUITE 2500 DENVER, COLORADO 80265

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

WELL INFORMATION:

Name: HAYNES CANYON UNIT 426H

State: New Mexico
County: Rio Arriba

Surface Elevation: 6,765 ft ASL (GL) 6,790 ft ASL (KB)

36.226816 $^{\circ}$ N latitude

Surface Location: 5-23N-06W Sec-Twn-Rng 1,784 ft FSL 462 ft FEL

36.251116 ° N latitude 107.485255 ° W longitude (NAD 83)

107.44809 $^{\circ}$ W longitude

BH Location: 15-23N-06W Sec-Twn-Rng 1,996 ft FNL 240 ft FEL

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

South on US Hwy 550 for 51.0 miles to MM 101, left (north) on existing road (next to landing strip and Escrito Canyon Rd) for 0.4 miles to fork, right (northeast) for 1.0 miles to fork, right (north) for 0.6 miles to fork at Elm Ridge Marcus #2 well, right (east) for 0.4 miles to fork, right (southeast) for 0.2 miles to fork, left on upgraded access road for .9

(NAD 83)

miles to the Haynes Canyon Unit 420H Pad (Wells from West to East: 420H, 422H, 424H, 426H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

: Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	5,383	1,407	1,443	W	normal
Kirtland	5,309	1,481	1,524	W	normal
Fruitland	5,069	1,721	1,789	G, W	sub
Pictured Cliffs	4,800	1,990	2,084	G, W	sub
Lewis	4,663	2,127	2,235	G, W	normal
Chacra	4,376	2,414	2,552	G, W	normal
Cliff House	3,271	3,519	3,768	G, W	sub
Menefee	3,256	3,534	3,784	G, W	normal
Point Lookout	2,540	4,250	4,567	G, W	normal
Mancos	2,243	4,547	4,873	O,G	sub (~0.38)
Gallup (MNCS_A)	1,895	4,895	5,222	O,G	sub (~0.38)
MNCS_B	1,815	4,975	5,302	O,G	sub (~0.38)
MNCS_C	1,665	5,125	5,455	O,G	sub (~0.38)
MNCS_Cms	1,605	5,185	5,520	O,G	sub (~0.38)
MNCS_D	1,535	5,255	5,600	O,G	sub (~0.38)
MNCS_E	1,456	5,334	5,701	O,G	sub (~0.38)
MNCS_F	1,406	5,384	5,774	O,G	sub (~0.38)
MNCS_G	1,317	5,473	5,939	O,G	sub (~0.38)
MNCS_H	1,277	5,513	6,036	O,G	sub (~0.38)
P.O.E. TARGET	1,317	5,473	5,939	O,G	sub (~0.38)
PROJECTED TD	1,323	5,467	20,583	O,G	sub (~0.38)

Surface: Nacimiento

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

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

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

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,360 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,160 psi

Temperature: Maximum anticipated BHT is 140° F or less

H₂S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

to TD.

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

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

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

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

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

Choke Cameron (4", 10,000 psi)

KB-GL (ft): 25

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 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.
- 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.
- 5) 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.

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

FLUIDS AND SOLIDS CONTROL PROGRAM:

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

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

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

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

Fluid Program: See "Detailed Drilling Plan" section for specifics.

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

Hole Size: 17-1/2"

Bit / Motor: Mill Tooth or PDC, no motor MWD / Survey: No MWD, deviation survey

Logging: None

							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	794	116,634	116,634
Min. S.F.					7.39	3.44	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

Minumum: N/A Optimum: Maximum: N/A

Make-up as per API Buttress Connection running procedure.

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

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

MU Torque (ft lbs):

			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	1.38	6.65	0.6946	100%	0	366
		•						

Annular Capacity

0.6946 cuft/ft

13-3/8" casing x 17-1/2" hole annulus

Csg capacity

0.8680 ft3/ft

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

Cu Ft Slurry 505.3

Calcium Chloride D-CD2 .2% BWOC

ASTM Type III 1% BWOC **Tail** Blend Accelerato

Dispersant/Friction .25 lbs/sx Cello

lend Accelerator reducer Flake - seepage

ssive strongth

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

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

350 ft (MD)	to	3,939 ft (MD)	Hole Section Length:	3,589 ft
350 ft (TVD)	to	3,684 ft (TVD)	Casing Required:	3,939 ft

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

Hole Size: 12-1/4"

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

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (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.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	J-55	LTC	2,020	3,520	564,000	453,000
Loading					1,609	1,371	223,660	223,660
Min. S.F.					1.26	2.57	2.52	2.03

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

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

hole and 8.4 ppg equivalent external pressure gradient

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

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

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface (FLOAT EQUIPMENT FROM WEATHERFORD)

Centralizers: 1 per joint in non-vertical hole; 1 per 2-joints in vertical hole

				Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu	
	Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)	
Stage 1	Spacer	D-Mud Breaker	8.5				0	10 bbls		
		90:10 Type								ì
	Lead	III:POZ	12.5	2.140	12.05	70%	0	828	1,772	
	Tail	Type III	14.6	1.380	6.61	20%	3,439	150	207	
	Displacement	301	est bbls							

Annular Capacity

0.3627 cuft/ft

9-5/8" casing x 13-3/8" casing annulus

0.3132 cuft/ft

9-5/8" casing x 12-1/4" hole annulus

9-5/8" 36# ID 8.921

0.4341 cuft/ft

9-5/8" casing vol

est shoe it ft 44

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

Spacer D-Mud Breaker SAPP

D-R1 .2% Retarder

D-MPA-1 .4%

Control

D-CSE 1 5.0%

BWOC Fluid Loss &

ASTM Type III **BWOC Strength Lead** 90/10 Poz Enhancer

ASTM Type III

Gas Migration

D-SA 1 1.4% BWOC D-CD 2 .4% BWOC Cello Flace LCM Na Metasilicate Dispersant

.25 lb/sx

D-FP1 0.5% BWOC Defoamer D-R1 .5% Retarder

D-MPA-1.2%

BWOC Fluid Loss &

Gas Migration

D-CD 2 .5% BWOC Cello Flace LCM

.25 lb/sx Tail Blend Control Dispersant

Drake Intermediate Cementing Program

Cement must achieve 500 psi compressive strength before drilling out.

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

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

3,939 ft (MD)	to	20,583 ft (MD)	Hole Section Length:	16,644 ft
3,684 ft (TVD)	to	5,467 ft (TVD)	Casing Required:	20,583 ft

Estimated KOP:	5,302	ft (MD)	4,975	ft (TVD)
Estimated Landing Point (P.O.E.):	5,939	ft (MD)	5,473	ft (TVD)
Estimated Lateral Length:	14,644	ft (MD)		

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

Hole Size: 8-1/2"

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

MWD / Survey: MWD surveys with inclination and azimuth in 100' stations (minimum) before KOP, every joint from KOP to POE,

every 100' (minimum) from POE to TD; Gamma Ray from drill out of 9-5/8" shoe to TD Logging: MWD Gamma Ray for entire section, no mud-log or cuttings sampling, no OH WL logs

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

							Tens. Body	Tens. Conn
Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	5.500	17.0	P-110	LTC	7,460	10,640	546,000	445,000
Loading					2,701	9,012	401,941	401,941
Min. S.F.					2.76	1.18	1.36	1.11

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

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

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

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

Casing Summary: Float shoe, float collar, 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 (lasttake-point) cannot be placed closer than 330' to the unit boundary when measured perpendicular to the well path.

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Spacer	IntegraGuard EZ	11		31.6		0	60 bbls	
Lead	ASTM type I/II	12.4	2.370	13.40	50%	0	583	1,381
Tail	G:POZ blend	13.3	1.570	7.70	10%	4,873	2,522	3,959

Displacement 454 est bbls

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

0.2291 cuft/ft 5-1/2" casing x 8-1/2" hole annulus

0.1245 cuft/ft 5-1/2" casing vol est shoe jt ft 100

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

American Cementing Liner & Production Blend

IntegraSeal Hold,

 S-8 Silica Flour
 Avis 616 viscosifier
 XCem-308
 ALOC-1212 LCM 15
 SS201 Surfactant

 Spacer
 163.7 lbs/bbl
 Defoamer .5 lb/bbl
 lb/bbl
 1 gal/bbl

Sodium

Metasilicate A-2 IntegraGuard

Accelerator .2% FL-66 Fluid Loss GW86 Viscosifier R3 Retarder .5% R7C Retarder .1% Xcem-1009 XCem-308 Static Free - Anti-Lead ASTM Type IL BWOB .2% BWOB BWOB BWOB Extender 10.0#/sx Defoamer .3 lb/bbl static .01 lb/sx

Bentonite IntegraGuard

HegraGuard Scenario Reposition Fly Ash Viscosifier/Extende FL24 Fluid Loss .4% GW86 Viscosifier IntegraSeal Poli, R3 Retarder .25% XCem-1009 .3% BWOB Static Free
Tail Type G 50% Extender 50% r 4% BWOB BWOB .1% BWOB LCM .25 lb/sx BWOB Extender 3.0 lb/sx Anti-static .01 lb/sx

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, NU WH, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 14,544

Est Frac Inform: 61 Frac Stages 233,000 bbls slick water 18,910,000 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: 2/1/2024 **Completion:** 3/17/2024 **Production:** 4/16/2024

Prepared by: Alec Bridge 2/8/2019 Updated: G Olson 11/10/2023

G Olson 11/24/2023

WELL NAME: HAYNES CANYON UNIT 426H

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

API Number: 30-039-

AFE Number: **ER Well Number:**

> State: New Mexico County: Rio Arriba

6,765

Surface Elev.: ft ASL (GL) 6,790 ft ASL (KB)

Surface Location: 5-23N-06W Sec-Twn- Rng ft FSL 462 ft FEL 1,784 BH Location: 15-23N-06W Sec-Twn- Rng 240 ft FEL 1996 ft FNL

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

South on US Hwy 550 for 51.0 miles to MM 101, left (north) on existing road (next to landing strip and Escrito Canyon Rd) for

0.4 miles to fork, right (northeast) for 1.0 miles to fork, right (north) for 0.6 miles to fork at Elm Ridge Marcus #2 well, right (east) for 0.4 miles to fork, right (southeast) for 0.2 miles to fork, left on upgraded access road for .9 miles to the Haynes

Canyon Unit 420H Pad (Wells from West to East: 420H, 422H, 424H, 426H).

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	13.375	54.5	J-55	BTC	0	350
Intermediate	12.250	3,939	9.625	36.0	J-55	LTC	0	3,939
Production	8.500	20,583	5.500	17.0	P-110	LTC	0	20,583

CEMENT PROPERTIES SUMMARY:

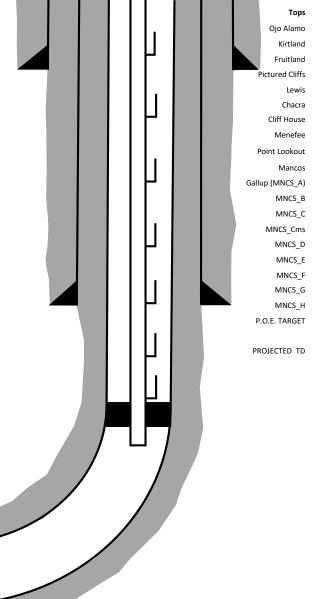
					Hole Cap.		TOC		Cu Ft
	Туре	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(ft MD)	Total (sx)	Slurry
Surface	TYPE III	14.6	1.38	6.65	0.6946	100%	0	366	2,435
Inter. (Lead)	90:10 Type III:POZ	12.5	2.14	12.05	0.3627	70%	0	828	9,976
Inter. (Tail)	Type III	14.6	1.38	6.61	0.3132	20%	3,439	150	992
Prod. (Lead)	ASTM type I/II	12.4	2.370	13.40	0.2691	50%	0	583	7,808
Prod. (Tail)	G:POZ blend	13.3	1.570	7.70	0.2291	10%	4,873	2,522	19,417

COMPLETION / PRODUCTION SUMMARY:

18910000 lbs proppant Frac: 61 Frac Stages 233000 bbls slick water

Flowback: Flow back through production tubing as pressures allow

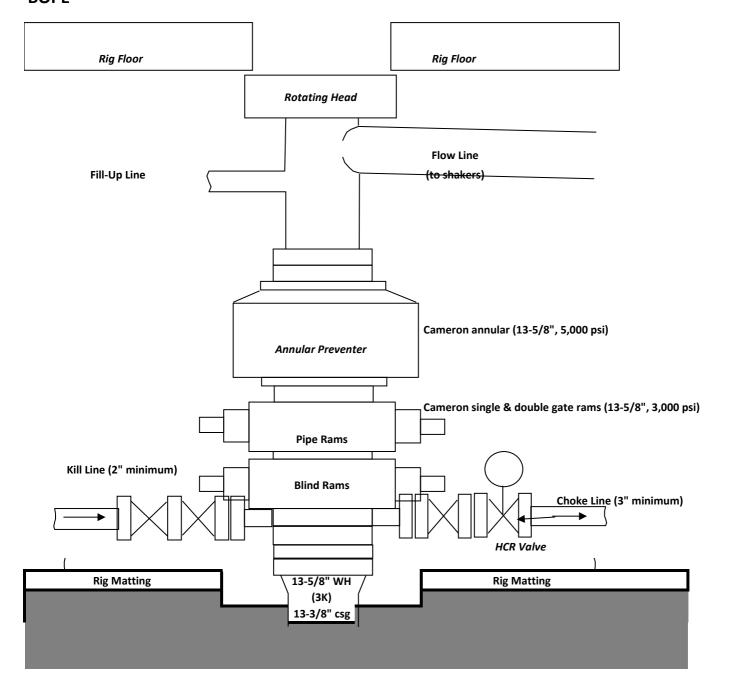
Production: Produce through production tubing via gas-lift into permanent production and storage facilities



Haynes Canyon Unit 426H

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

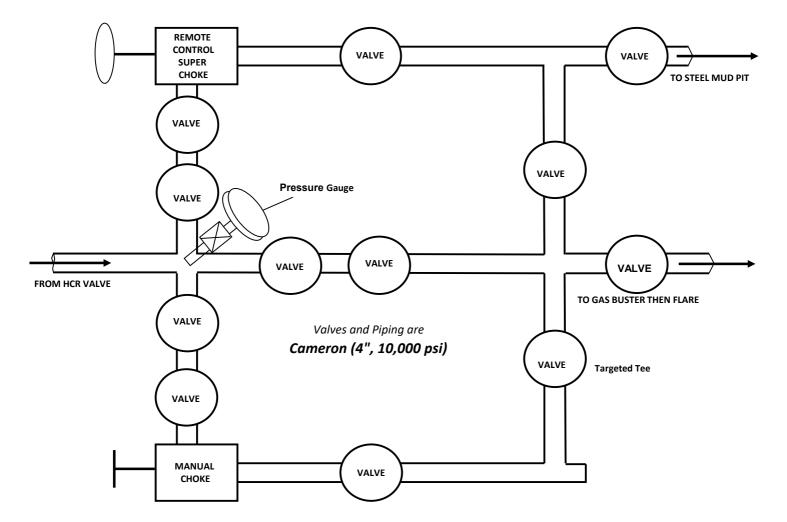
BOPE



Haynes Canyon Unit 426H

NOTE: EXACT BOPE AND CHOKE CONFIRGURATION AND COMPONENTS MAY DIFFER FROM WHAT IS DEPICTED IN THE DIGRAMS BELOW DEPENDING ON THE RIG AND ITS ASSOCIATED EQUIPMENT. RAM PREVENTERS, ANNULAR PREVENTERS, AND CHOKE MANIFOLD AND COMPONENTS WILL BE RATED TO 3,000 PSI MINIMUM.

CHOKE MANIFOLD





Wellbore:

Design

Planning Report

DT_Aug2923v16 Database: Company: **Enduring Resources LLC**

Project: Rio Arriba County, New Mexico NAD83 NM C

Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Minimum Curvature

Project Rio Arriba County, New Mexico NAD83 NM C

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

New Mexico Central Zone

System Datum: Mean Sea Level

Haynes Canyon Unit (420, 422, 424 & 426) Site

Northing: 1,912,981.994 usft 36.251079000 Site Position: Latitude: From: Lat/Long Easting: 1,276,144.638 usft Longitude: -107.485453000

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

Well Haynes Canyon Unit 426 H, Surf loc: 1784 FSL 462 FEL Section 05-T23N-R06W

0.00 ft 1,913,010.736 usft 36.251160000 **Well Position** +N/-S Northing: Latitude: -107.485255000 +E/-W 0.00 ft Easting: 1,276,203.396 usft Longitude:

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,765.00 ft

Grid Convergence: -0.73 °

rev0

Wellbore Original Hole Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) IGRF2020 49,110.83347463 11/1/2023 8.44 62.76

Audit Notes: PLAN Tie On Depth: 0.00 Version: Phase:

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 135.001 0.00 0.00 0.00

Plan Survey Tool Program Date 11/1/2023 **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 20,582.58 rev0 (Original Hole) MWD

OWSG MWD - Standard



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

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	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,323.25	24.70	9.207	1,297.99	172.45	27.95	3.00	3.00	0.00	9.21	
4,345.80	24.70	9.207	4,044.06	1,419.09	230.01	0.00	0.00	0.00	0.00	
5,169.05	0.00	360.000	4,842.05	1,591.54	257.96	3.00	-3.00	0.00	180.00	
5,269.05	0.00	360.000	4,942.05	1,591.54	257.96	0.00	0.00	0.00	0.00	Haynes 426 vert
5,869.05	60.00	135.001	5,438.25	1,388.97	460.53	10.00	10.00	0.00	135.00	
5,929.05	60.00	135.001	5,468.25	1,352.22	497.27	0.00	0.00	0.00	0.00	
6,232.17	90.31	135.001	5,545.00	1,147.45	702.04	10.00	10.00	0.00	0.00	
20,582.58	90.31	135.001	5,467.00	-8,999.84	10,849.00	0.00	0.00	0.00	0.00	Haynes 426 LTP 199



DT_Aug2923v16 Database: Company:

Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Site:

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft

RKB=6765+25 @ 6790.00ft Grid

esigii.									
Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	3.00	9.207	599.95	2.58	0.42	-1.53	3.00	3.00	0.00
700.00	6.00	9.207	699.63	10.33	1.67	-6.12	3.00	3.00	0.00
800.00	9.00	9.207	798.77	23.21	3.76	-13.75	3.00	3.00	0.00
900.00	12.00	9.207	897.08	41.20	6.68	-24.41	3.00	3.00	0.00
4 000 00	45.00	0.007	00101	04.04	40.44	00.00	0.00	0.00	0.00
1,000.00	15.00	9.207	994.31	64.24	10.41	-38.06	3.00	3.00	0.00
1,100.00	18.00	9.207	1,090.18	92.27	14.96	-54.67	3.00	3.00	0.00
1,200.00	21.00	9.207	1,184.43	125.22	20.30	-74.19	3.00	3.00	0.00
1,300.00	24.00	9.207	1,276.81	162.99	26.42	-96.57	3.00	3.00	0.00
1,323.25	24.70	9.207	1,297.99	172.45	27.95	-102.18	3.00	3.00	0.00
1,020.20	24.10	3.201	1,201.00		21.00	-102.10		3.00	
1,400.00	24.70	9.207	1,367.72	204.11	33.08	-120.94	0.00	0.00	0.00
1,500.00	24.70	9.207	1,458.57	245.35	39.77	-145.37	0.00	0.00	0.00
	24.70	9.207	1,549.43	286.60	46.45	-169.81	0.00	0.00	
1,600.00									0.00
1,700.00	24.70	9.207	1,640.28	327.84	53.14	-194.25	0.00	0.00	0.00
1,800.00	24.70	9.207	1,731.13	369.08	59.82	-218.69	0.00	0.00	0.00
4 000 00	04.70	0.007	4 004 00	440.00	00.54	040.40	0.00	0.00	0.00
1,900.00	24.70	9.207	1,821.98	410.33	66.51	-243.12	0.00	0.00	0.00
2,000.00	24.70	9.207	1,912.84	451.57	73.19	-267.56	0.00	0.00	0.00
2,100.00	24.70	9.207	2,003.69	492.82	79.88	-292.00	0.00	0.00	0.00
2,200.00	24.70	9.207	2,094.54	534.06	86.56	-316.44	0.00	0.00	0.00
2,300.00	24.70	9.207	2,185.39	575.31	93.25	-340.88	0.00	0.00	0.00
2,000.00	24.70	0.201	2,100.00	070.01	30.20	-040.00	0.00	0.00	0.00
2,400.00	24.70	9.207	2,276.25	616.55	99.93	-365.31	0.00	0.00	0.00
2,500.00	24.70	9.207	2,367.10	657.80	106.62	-389.75	0.00	0.00	0.00
2,600.00	24.70	9.207	2,457.95	699.04	113.30	-414.19	0.00	0.00	0.00
2,700.00	24.70	9.207	2,548.81	740.29	119.99	-438.63	0.00	0.00	0.00
2,800.00	24.70	9.207	2,639.66	781.53	126.67	-463.07	0.00	0.00	0.00
2,900.00	24.70	9.207	2,730.51	822.77	133.36	-487.50	0.00	0.00	0.00
,									
3,000.00	24.70	9.207	2,821.36	864.02	140.04	-511.94	0.00	0.00	0.00
3,100.00	24.70	9.207	2,912.22	905.26	146.73	-536.38	0.00	0.00	0.00
3,200.00	24.70	9.207	3,003.07	946.51	153.41	-560.82	0.00	0.00	0.00
3,300.00	24.70	9.207	3,093.92	987.75	160.10	-585.26	0.00	0.00	0.00
3,400.00	24.70	9.207	3,184.77	1,029.00	166.78	-609.69	0.00	0.00	0.00
3,500.00	24.70	9.207	3,275.63	1,070.24	173.47	-634.13	0.00	0.00	0.00
3,600.00	24.70	9.207	3,366.48	1,111.49	180.15	-658.57	0.00	0.00	0.00
3.700.00	24.70	9.207	3,457.33	1,152.73	186.84	-683.01	0.00	0.00	0.00
3,800.00	24.70	9.207	,	1,193.98	193.52	-707.44	0.00	0.00	0.00
3,000.00	24.70	9.207	3,548.18	1,133.30	183.52	-101.44	0.00	0.00	0.00
3,900.00	24.70	9.207	3,639.04	1,235.22	200.21	-731.88	0.00	0.00	0.00
4,000.00	24.70	9.207	3,729.89	1,276.46	206.89	-756.32	0.00	0.00	0.00
4,100.00	24.70	9.207	3,820.74	1,317.71	213.58	-780.76	0.00	0.00	0.00
4,200.00	24.70	9.207	3,911.59	1,358.95	220.26	-805.20	0.00	0.00	0.00
4,300.00	24.70	9.207	4,002.45	1,400.20	226.95	-829.63	0.00	0.00	0.00
4 0 4 5 0 0	04.70	0.007	4 0 4 4 0 0	1 440 00	000.04	040.00	0.00	0.00	0.00
4,345.80	24.70	9.207	4,044.06	1,419.09	230.01	-840.83	0.00	0.00	0.00
4,400.00	23.07	9.207	4,093.61	1,440.75	233.52	-853.66	3.00	-3.00	0.00
4,500.00	20.07	9.207	4,186.60	1,477.04	239.40	-875.16	3.00	-3.00	0.00
4,600.00	17.07	9.207	4,281.38	1,508.47	244.50	-893.79	3.00	-3.00	0.00
4,700.00	14.07	9.207	4,377.70	1,534.97	248.79	-909.49	3.00	-3.00	0.00
4,700.00	14.07	9.207	4,511.10	1,554.87	240.19	-303.43	3.00	-3.00	0.00
4,800.00	11.07	9.207	4,475.29	1,556.45	252.27	-922.22	3.00	-3.00	0.00
4,900.00	8.07	9.207	4,573.89	1,572.86	254.93	-931.94	3.00	-3.00	0.00
5,000.00	5.07	9.207	4,673.22	1,584.16	256.76	-938.63 -942.28	3.00 3.00	-3.00 -3.00	0.00 0.00
5,100.00	2.07	9.207	4,773.01	1,590.31	257.76				



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,169.05	0.00	360.000	4,842.05	1,591.54	257.96	-943.01	3.00	-3.00	0.00
5,200.00	0.00	0.000	4,873.00	1,591.54	257.96	-943.01	0.00	0.00	0.00
5,269.05	0.00	360.000	4,942.05	1,591.54	257.96	-943.01	0.00	0.00	0.00
5,300.00	3.09	135.001	4,972.98	1,590.95	258.55	-942.17	10.00	10.00	0.00
5,350.00	8.09	135.001	5,022.73	1,587.50	262.00	-937.30	10.00	10.00	0.00
5,400.00	13.09	135.001	5,071.86	1,581.00	268.50	-928.11	10.00	10.00	0.00
5,450.00	18.09	135.001	5,120.01	1,571.50	278.00	-914.67	10.00	10.00	0.00
5,500.00	23.09	135.001	5,166.80	1,559.07	290.43	-897.09	10.00	10.00	0.00
5,550.00	28.09	135.001	5,211.87	1,543.80	305.70	-875.49	10.00	10.00	0.00
5,600.00	33.09	135.001	5,254.90	1,525.81	323.69	-850.05	10.00	10.00	0.00
5,650.00	38.09	135.001	5,295.55	1,505.24	344.26	-820.96	10.00	10.00	0.00
5,700.00	43.09	135.001	5,333.50	1,482.24	367.26	-788.44	10.00	10.00	0.00
5,750.00	48.09	135.001	5,368.48	1,456.99	392.51	-752.73	10.00	10.00	0.00
5,800.00	53.09	135.001	5,400.20	1,429.68	419.81	-732.73 -714.10	10.00	10.00	0.00
5,850.00			5,400.20 5,428.45		448.98	-714.10 -672.86		10.00	0.00
	58.09	135.001		1,400.52			10.00		
5,869.05	60.00	135.001	5,438.25	1,388.97	460.53	-656.53	10.00	10.00	0.00
5,900.00	60.00	135.001	5,453.72	1,370.01	479.48	-629.72	0.00	0.00	0.00
5,929.05	60.00	135.001	5,468.25	1,352.22	497.27	-604.57	0.00	0.00	0.00
5,950.00	62.09	135.001	5,478.39	1,339.26	510.23	-586.24	10.00	10.00	0.00
6,000.00	67.09	135.001	5,499.83	1,307.33	542.16	-541.09	10.00	10.00	0.00
6,050.00	72.09	135.001	5,517.26	1,274.21	575.28	-494.24	10.00	10.00	0.00
0,030.00	12.09	133.001	5,517.20	1,274.21	373.20	-494.24	10.00	10.00	0.00
6,100.00	77.09	135.001	5,530.54	1,240.13	609.36	-446.05	10.00	10.00	0.00
6,150.00	82.09	135.001	5,539.56	1,205.37	644.12	-396.89	10.00	10.00	0.00
6,200.00	87.09	135.001	5,544.27	1,170.18	679.30	-347.13	10.00	10.00	0.00
6,232.17	90.31	135.001	5,545.00	1,147.45	702.04	-314.97	10.00	10.00	0.00
6,300.00	90.31	135.001	5,544.63	1,099.48	750.00	-247.14	0.00	0.00	0.00
6,400.00	90.31	135.001	5,544.09	1,028.77	820.71	-147.14	0.00	0.00	0.00
6,500.00	90.31	135.001	5,543.54	958.06	891.42	-47.14	0.00	0.00	0.00
6,600.00	90.31	135.001	5,543.00	887.35	962.13	52.86	0.00	0.00	0.00
6,700.00	90.31	135.001	5,542.46	816.64	1,032.84	152.85	0.00	0.00	0.00
6,800.00	90.31	135.001	5,541.91	745.93	1,103.55	252.85	0.00	0.00	0.00
6,900.00	90.31	135.001	5,541.37	675.21	1,174.26	352.85	0.00	0.00	0.00
7,000.00	90.31	135.001	5,540.83	604.50	1,244.96	452.85	0.00	0.00	0.00
7,100.00	90.31	135.001	5,540.28	533.79	1,315.67	552.85	0.00	0.00	0.00
7,100.00	90.31	135.001	5,539.74	463.08	1,386.38	652.85	0.00	0.00	0.00
				392.37		752.85			
7,300.00	90.31	135.001	5,539.20	392.37	1,457.09	7 32.83	0.00	0.00	0.00
7,400.00	90.31	135.001	5,538.65	321.66	1,527.80	852.84	0.00	0.00	0.00
7,500.00	90.31	135.001	5,538.11	250.95	1,598.51	952.84	0.00	0.00	0.00
7,600.00	90.31	135.001	5,537.56	180.24	1,669.21	1,052.84	0.00	0.00	0.00
7,700.00	90.31	135.001	5,537.02	109.53	1,739.92	1,152.84	0.00	0.00	0.00
7,800.00	90.31	135.001	5,536.48	38.82	1,810.63	1,252.84	0.00	0.00	0.00
7,900.00	90.31	135.001	5,535.93	-31.89	1,881.34	1,352.84	0.00	0.00	0.00
8,000.00	90.31	135.001	5,535.39	-102.60	1,952.05	1,452.84	0.00	0.00	0.00
8,100.00	90.31	135.001	5,534.85	-173.31	2,022.76	1,552.83	0.00	0.00	0.00
8,200.00	90.31	135.001	5,534.30	-244.03	2,093.47	1,652.83	0.00	0.00	0.00
8,300.00	90.31	135.001	5,533.76	-314.74	2,164.17	1,752.83	0.00	0.00	0.00
8,400.00	90.31	135.001	5,533.22	-385.45	2,234.88	1,852.83	0.00	0.00	0.00
			5,532.67						
8,500.00	90.31	135.001		-456.16	2,305.59	1,952.83	0.00	0.00	0.00
8,600.00	90.31	135.001	5,532.13	-526.87	2,376.30	2,052.83	0.00	0.00	0.00
8,700.00	90.31	135.001	5,531.59	-597.58	2,447.01	2,152.83	0.00	0.00	0.00
8,800.00	90.31	135.001	5,531.04	-668.29	2,517.72	2,252.82	0.00	0.00	0.00
8,900.00	90.31	135.001	5,530.50	-739.00	2,588.42	2,352.82	0.00	0.00	0.00
9,000.00	90.31	135.001	5,529.96	-809.71	2,659.13	2,452.82	0.00	0.00	0.00
3,000.00	00.01	135.001	5,529.41	-880.42	2,729.84	2,552.82	0.00	0.00	0.00



Database: DT_Aug2923v16
Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Jesigii.	1640								
Planned Survey									
Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	(°)	(°)	(1.)	(11)	(11)	(11)	(/ 10011)	(/ 10011)	(/ 10011)
9,200.00	90.31	135.001	5,528.87	-951.13	2,800.55	2,652.82	0.00	0.00	0.00
9,300.00	90.31	135.001	5,528.32	-1,021.84	2,871.26	2,752.82	0.00	0.00	0.00
9,400.00	90.31	135.001	5,527.78	-1,092.55	2,941.97	2,852.82	0.00	0.00	0.00
9,500.00	90.31	135.001	5,527.24	-1,163.27	3,012.68	2,952.81	0.00	0.00	0.00
9,600.00	90.31	135.001	5,526.69	-1,233.98	3,083.38	3,052.81	0.00	0.00	0.00
9,700.00	90.31	135.001	5,526.15	-1,304.69	3,154.09	3,152.81	0.00	0.00	0.00
9,800.00	90.31	135.001	5,525.61	-1,375.40	3,224.80	3,252.81	0.00	0.00	0.00
9,900.00	90.31	135.001	5,525.06	-1,446.11	3,295.51	3,352.81	0.00	0.00	0.00
10,000.00	90.31	135.001	5,524.52	-1,516.82	3,366.22	3,452.81	0.00	0.00	0.00
10,100.00	90.31	135.001	5,523.98	-1,587.53	3,436.93	3,552.80	0.00	0.00	0.00
10,200.00	90.31	135.001	5,523.43	-1,658.24	3,507.64	3,652.80	0.00	0.00	0.00
10,300.00	90.31	135.001	5,522.89	-1,728.95	3,578.34	3,752.80	0.00	0.00	0.00
10,400.00	90.31	135.001	5,522.35	-1,799.66	3,649.05	3,852.80	0.00	0.00	0.00
10,500.00	90.31	135.001	5,521.80	-1,870.37	3,719.76	3,952.80	0.00	0.00	0.00
10,600.00	90.31	135.001	5,521.26	-1,941.08	3,790.47	4,052.80	0.00	0.00	0.00
10,700.00	90.31	135.001	5,520.72	-2,011.79	3,861.18	4,152.80	0.00	0.00	0.00
10,800.00	90.31	135.001	5,520.17	-2,082.51	3,931.89	4,252.79	0.00	0.00	0.00
10,900.00	90.31	135.001	5,519.63	-2,153.22	4,002.59	4,352.79	0.00	0.00	0.00
11,000.00	90.31	135.001	5,519.08	-2,223.93	4,073.30	4,452.79	0.00	0.00	0.00
11,100.00	90.31	135.001	5,518.54	-2,294.64	4,144.01	4,552.79	0.00	0.00	0.00
11,200.00	90.31	135.001	5,518.00	-2,365.35	4,214.72	4,652.79	0.00	0.00	0.00
11,300.00	90.31	135.001	5,517.45	-2,436.06	4,285.43	4,752.79	0.00	0.00	0.00
11,400.00	90.31	135.001	5,516.91	-2,506.77	4,356.14	4,852.79	0.00	0.00	0.00
11,500.00	90.31	135.001	5,516.37	-2,577.48	4,426.85	4,952.78	0.00	0.00	0.00
11,600.00	90.31	135.001	5,515.82	-2,648.19	4,497.55	5,052.78	0.00	0.00	0.00
11,700.00	90.31	135.001	5,515.28	-2,718.90	4,568.26	5,152.78	0.00	0.00	0.00
11,800.00	90.31	135.001	5,514.74	-2,789.61	4,638.97	5,252.78	0.00	0.00	0.00
11,900.00	90.31	135.001	5,514.19	-2,860.32	4,709.68	5,352.78	0.00	0.00	0.00
12,000.00	90.31	135.001	5,513.65	-2,931.03	4,780.39	5,452.78	0.00	0.00	0.00
12,100.00	90.31	135.001	5,513.11	-3,001.75	4,851.10	5,552.78	0.00	0.00	0.00
12,200.00	90.31	135.001	5,512.56	-3,072.46	4,921.81	5,652.77	0.00	0.00	0.00
12,300.00	90.31	135.001	5,512.02	-3,143.17	4,992.51	5,752.77	0.00	0.00	0.00
12,400.00	90.31	135.001	5,511.48	-3,213.88	5,063.22	5,852.77	0.00	0.00	0.00
12,500.00	90.31	135.001	5,510.93	-3,284.59	5,133.93	5,952.77	0.00	0.00	0.00
12,600.00	90.31	135.001	5,510.39	-3,355.30	5,204.64	6,052.77	0.00	0.00	0.00
12,700.00	90.31	135.001	5,509.84	-3,426.01	5,275.35	6,152.77	0.00	0.00	0.00
12,800.00	90.31	135.001	5,509.30	-3,496.72	5,346.06	6,252.76	0.00	0.00	0.00
12,900.00	90.31	135.001	5.508.76	-3,567.43	5,416.76	6,352.76	0.00	0.00	0.00
13,000.00	90.31	135.001	5,508.76 5,508.21	-3,567.43 -3,638.14	5,416.76 5,487.47	6,352.76 6,452.76	0.00	0.00	0.00
13,100.00	90.31	135.001	5,507.67	-3,708.85	5,558.18	6,552.76	0.00	0.00	0.00
13,200.00	90.31	135.001	5,507.13	-3,779.56	5,628.89	6,652.76	0.00	0.00	0.00
13,300.00	90.31	135.001	5,506.58	-3,850.27	5,699.60	6,752.76	0.00	0.00	0.00
12 400 00	90.31			-3,920.99	5 770 24				0.00
13,400.00 13,500.00	90.31	135.001 135.001	5,506.04 5,505.50	-3,920.99 -3,991.70	5,770.31 5,841.02	6,852.76 6,952.75	0.00 0.00	0.00 0.00	0.00
13,600.00	90.31	135.001	5,503.50	-4,062.41	5,911.72	7,052.75	0.00	0.00	0.00
13,700.00	90.31	135.001	5,504.41	-4,133.12	5,982.43	7,152.75	0.00	0.00	0.00
13,800.00	90.31	135.001	5,503.87	-4,203.83	6,053.14	7,252.75	0.00	0.00	0.00
13,900.00 14,000.00	90.31 90.31	135.001 135.001	5,503.32 5,502.78	-4,274.54 -4,345.25	6,123.85 6,194.56	7,352.75 7,452.75	0.00 0.00	0.00 0.00	0.00 0.00
14,100.00	90.31	135.001	5,502.76	-4,345.25 -4,415.96	6,265.27	7,452.75 7,552.75	0.00	0.00	0.00
14,200.00	90.31	135.001	5,502.24	-4,486.67	6,335.98	7,652.74	0.00	0.00	0.00
14,300.00	90.31	135.001	5,501.15	-4,557.38	6,406.68	7,752.74	0.00	0.00	0.00
						,			
14,400.00	90.31	135.001	5,500.60	-4,628.09	6,477.39	7,852.74	0.00	0.00	0.00
14,500.00	90.31	135.001	5,500.06	-4,698.80	6,548.10	7,952.74	0.00	0.00	0.00



DT_Aug2923v16 Database:

Company: Enduring Resources LLC Project:

Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Original Hole Wellbore: Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

14,700.00 90. 14,800.00 90. 14,900.00 90. 15,000.00 90. 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,500.00 90. 15,600.00 90. 15,700.00 90. 15,700.00 90. 15,800.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,700.00 90. 16,800.00 90. 17,000.00 90. 17,300.00 90. 17,300.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,900.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,600.00 90. 18,600.00 90. <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								
Depth (ft) Inclination (°) 14,600.00 90. 14,700.00 90. 14,800.00 90. 14,800.00 90. 15,000.00 90. 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,500.00 90. 15,600.00 90. 15,700.00 90. 15,700.00 90. 15,800.00 90. 16,000.00 90. 16,000.00 90. 16,300.00 90. 16,300.00 90. 16,500.00 90. 16,500.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,900.00 90.								
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14,800.00 90. 14,900.00 90. 15,000.00 90. 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,500.00 90. 15,600.00 90. 15,600.00 90. 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. <td< td=""><td>0.31 135.001</td><td>5,499.52</td><td>-4,769.51</td><td>6,618.81</td><td>8,052.74</td><td>0.00</td><td>0.00</td><td>0.00</td></td<>	0.31 135.001	5,499.52	-4,769.51	6,618.81	8,052.74	0.00	0.00	0.00
14,900.00 15,000.00 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,400.00 90. 15,500.00 90. 15,600.00 90. 15,700.00 90. 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,200.00 90. 16,200.00 90. 16,500.00 90. 16,500.00 90. 16,500.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90.	0.31 135.001	5,498.97	-4,840.23	6,689.52	8,152.74	0.00	0.00	0.00
15,000.00 90. 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,400.00 90. 15,500.00 90. 15,500.00 90. 15,700.00 90. 15,800.00 90. 15,800.00 90. 16,000.00 90. 16,000.00 90. 16,100.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,700.00 90. 17,700.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,900.00 90. 17,900.00 90. 17,900.00 90. 17,900.00 90. 18,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.	0.31 135.001	5,498.43	-4,910.94	6,760.23	8,252.74	0.00	0.00	0.00
15,000.00 15,100.00 90. 15,100.00 90. 15,200.00 90. 15,300.00 90. 15,400.00 90. 15,500.00 90. 15,600.00 90. 15,800.00 90. 15,800.00 90. 16,000.00 90. 16,000.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 17,900.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90.	0.31 135.001	5,497.89	-4,981.65	6,830.93	8,352.73	0.00	0.00	0.00
15,100.00 15,200.00 15,200.00 90. 15,300.00 90. 15,400.00 90. 15,500.00 90. 15,600.00 90. 15,600.00 90. 15,800.00 90. 15,800.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,500.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,900.00 90. 17,900.00 90. 17,900.00 90. 17,900.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90.	0.31 135.001	5,497.34	-5,052.36	6,901.64	8,452.73	0.00	0.00	0.00
15,200.00 15,300.00 90. 15,400.00 90. 15,500.00 90. 15,600.00 90. 15,700.00 90. 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 19,000.00 90.	0.31 135.001	5,496.80	-5,123.07	6,972.35	8,552.73	0.00	0.00	0.00
15,300.00 90. 15,400.00 90. 15,500.00 90. 15,500.00 90. 15,700.00 90. 15,800.00 90. 15,800.00 90. 16,000.00 90. 16,000.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,700.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.	0.31 135.001	5,496.26	-5,193.78	7,043.06	8,652.73	0.00	0.00	0.00
15,500.00 90. 15,600.00 90. 15,600.00 90. 15,700.00 90. 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,100.00 90. 18,100.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,495.71	-5,264.49	7,113.77	8,752.73	0.00	0.00	0.00
15,500.00 90. 15,600.00 90. 15,600.00 90. 15,700.00 90. 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,100.00 90. 18,100.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,495.17	-5,335.20	7,184.48	8,852.73	0.00	0.00	0.00
15,600.00 90. 15,700.00 90. 15,800.00 90. 15,800.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 17,000.00 90. 17,100.00 90. 17,100.00 90. 17,200.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,800.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.	0.31 135.001	5,494.63	-5,405.91	7,255.19	8,952.73	0.00	0.00	0.00
15,700.00 15,800.00 90. 15,900.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,800.00 90. 17,000.00 90. 17,100.00 90. 17,100.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90.	0.31 135.001	5,494.08	-5,476.62	7,325.89	9,052.72	0.00	0.00	0.00
15,800.00 90. 15,900.00 90. 16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.		5,493.54	-5,547.33	7,396.60	9,152.72	0.00	0.00	0.00
16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,400.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,800.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,300.00 90.	0.31 135.001	5,493.00	-5,618.04	7,467.31	9,252.72	0.00	0.00	0.00
16,000.00 90. 16,100.00 90. 16,200.00 90. 16,300.00 90. 16,400.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,800.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,492.45	-5,688.75	7,538.02	9,352.72	0.00	0.00	0.00
16,100.00 90. 16,200.00 90. 16,300.00 90. 16,400.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90.	0.31 135.001	5,491.91	-5,759.47	7,608.73	9,452.72	0.00	0.00	0.00
16,200.00 90. 16,300.00 90. 16,400.00 90. 16,500.00 90. 16,600.00 90. 16,700.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,100.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90.		5,491.36	-5,830.18	7,679.44	9,552.72	0.00	0.00	0.00
16,300.00 90. 16,400.00 90. 16,500.00 90. 16,600.00 90. 16,700.00 90. 16,800.00 90. 16,800.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.		5,490.82	-5,900.89	7,079.44	9,652.72	0.00	0.00	0.00
16,400.00 90. 16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,900.00 90. 18,000.00 90. 18,000.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90.	0.31 135.001 0.31 135.001	5,490.82	-5,900.69 -5,971.60	7,750.15	9,052.71	0.00	0.00	0.00
16,500.00 90. 16,600.00 90. 16,600.00 90. 16,700.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,300.00 90. 19,300.00 90.		5,489.73	-6,042.31	7,891.56	9,852.71	0.00	0.00	0.00
16,600.00 90. 16,700.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,600.00 90. 17,600.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.		5,489.19	,	7,962.27		0.00	0.00	0.00
16,700.00 90. 16,800.00 90. 16,900.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,000.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90.			-6,113.02		9,952.71			
16,800.00 90. 16,900.00 90. 17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.		5,488.65	-6,183.73	8,032.98	10,052.71	0.00	0.00	0.00
16,900.00 90. 17,000.00 90. 17,100.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,300.00 90. 19,300.00 90.		5,488.10	-6,254.44	8,103.69	10,152.71	0.00	0.00	0.00
17,000.00 90. 17,100.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,700.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.		5,487.56	-6,325.15	8,174.40	10,252.71	0.00	0.00	0.00
17,100.00 90. 17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,500.00 90. 17,600.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,500.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,000.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,487.02	-6,395.86	8,245.10	10,352.70	0.00	0.00	0.00
17,200.00 90. 17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,300.00 90. 19,400.00 90. 19,400.00 90.		5,486.47	-6,466.57	8,315.81	10,452.70	0.00	0.00	0.00
17,300.00 90. 17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,900.00 90. 19,000.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.		5,485.93	-6,537.28	8,386.52	10,552.70	0.00	0.00	0.00
17,400.00 90. 17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,800.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,700.00 90. 18,900.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.		5,485.39	-6,607.99	8,457.23	10,652.70	0.00	0.00	0.00
17,500.00 90. 17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.		5,484.84	-6,678.71	8,527.94	10,752.70	0.00	0.00	0.00
17,600.00 90. 17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,484.30	-6,749.42	8,598.65	10,852.70	0.00	0.00	0.00
17,700.00 90. 17,800.00 90. 17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,483.75	-6,820.13	8,669.36	10,952.70	0.00	0.00	0.00
17,800.00 90. 17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,483.21	-6,890.84	8,740.06	11,052.69	0.00	0.00	0.00
17,900.00 90. 18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,482.67	-6,961.55	8,810.77	11,152.69	0.00	0.00	0.00
18,000.00 90. 18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,482.12	-7,032.26	8,881.48	11,252.69	0.00	0.00	0.00
18,100.00 90. 18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,481.58	-7,102.97	8,952.19	11,352.69	0.00	0.00	0.00
18,200.00 90. 18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,481.04	-7,173.68	9,022.90	11,452.69	0.00	0.00	0.00
18,300.00 90. 18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,480.49	-7,244.39	9,093.61	11,552.69	0.00	0.00	0.00
18,400.00 90. 18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,479.95	-7,315.10	9,164.32	11,652.69	0.00	0.00	0.00
18,500.00 90. 18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,479.41	-7,385.81	9,235.02	11,752.68	0.00	0.00	0.00
18,600.00 90. 18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,478.86	-7,456.52	9,305.73	11,852.68	0.00	0.00	0.00
18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,478.32	-7,527.24	9,376.44	11,952.68	0.00	0.00	0.00
18,700.00 90. 18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90.	0.31 135.001	5,477.78	-7,597.95	9,447.15	12,052.68	0.00	0.00	0.00
18,800.00 90. 18,900.00 90. 19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,477.23	-7,668.66	9,517.86	12,152.68	0.00	0.00	0.00
19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,476.69	-7,739.37	9,588.57	12,252.68	0.00	0.00	0.00
19,000.00 90. 19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,476.15	-7,810.08	9,659.27	12,352.68	0.00	0.00	0.00
19,100.00 90. 19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,475.60	-7,880.79	9,729.98	12,452.67	0.00	0.00	0.00
19,200.00 90. 19,300.00 90. 19,400.00 90.	0.31 135.001	5,475.06	-7,951.50	9,800.69	12,552.67	0.00	0.00	0.00
19,300.00 90. 19,400.00 90.	0.31 135.001	5,474.51	-8,022.21	9,871.40	12,652.67	0.00	0.00	0.00
	0.31 135.001	5,473.97	-8,092.92	9,942.11	12,752.67	0.00	0.00	0.00
	0.31 135.001	5,473.43	-8,163.63	10,012.82	12,852.67	0.00	0.00	0.00
	0.31 135.001	5,472.88	-8,234.34	10,083.53	12,952.67	0.00	0.00	0.00
	0.31 135.001	5,472.34	-8,305.05	10,154.23	13,052.66	0.00	0.00	0.00
	0.31 135.001	5,471.80	-8,375.76	10,134.23	13,152.66	0.00	0.00	0.00
	0.31 135.001	5,471.25	-8,446.48	10,224.94	13,252.66	0.00	0.00	0.00
	0.31 135.001	5,470.71	-8,517.19	10,366.36	13,352.66	0.00	0.00	0.00



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Planned Survey														
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)					
20,000.00	90.31	135.001	5,470.17	-8,587.90	10,437.07	13,452.66	0.00	0.00	0.00					
20,100.00	90.31	135.001	5,469.62	-8,658.61	10,507.78	13,552.66	0.00	0.00	0.00					
20,200.00	90.31	135.001	5,469.08	-8,729.32	10,578.49	13,652.66	0.00	0.00	0.00					
20,300.00	90.31	135.001	5,468.54	-8,800.03	10,649.19	13,752.65	0.00	0.00	0.00					
20,400.00	90.31	135.001	5,467.99	-8,870.74	10,719.90	13,852.65	0.00	0.00	0.00					
20,500.00	90.31	135.001	5,467.45	-8,941.45	10,790.61	13,952.65	0.00	0.00	0.00					
20,582.58	90.31	135.001	5,467.00	-8,999.84	10,849.00	14,035.23	0.00	0.00	0.00					

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Haynes 426 vert - plan hits target cer - Point	0.00 nter	360.000	4,942.05	1,591.54	257.96	1,914,602.273	1,276,461.356	36.255540163	-107.484449065
Haynes 426 LTP 1996 F - plan hits target cer - Point		0.000	5,467.00	-8,999.84	10,849.00	1,904,010.914	1,287,052.373	36.226816000	-107.448090000
Haynes 426 FTP 2283 F - plan hits target cer - Point		0.000	5,545.00	1,147.45	702.04	1,914,158.180	1,276,905.436	36.254336000	-107.482924000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 3,945.09		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	



Database: DT_Aug2923v16
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Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

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Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft

RKB=6765+25 @ 6790.00ft Grid

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,442.92	1,406.71	Ojo Alamo		-0.31	135.001	
	1,524.49	1,480.82	Kirtland		-0.31	135.001	
	1,789.03	1,721.17	Fruitland		-0.31	135.001	
	2,084.45	1,989.56	Pictured Cliffs		-0.31	135.001	
	2,235.46	2,126.76	Lewis		-0.31	135.001	
	2,551.82	2,414.18	Chacra_A		-0.31	135.001	
	3,767.64	3,518.78			-0.31	135.001	
	3,784.18	3,533.81	Menefee		-0.31	135.001	
	4,566.88	4,249.80	Point Lookout		-0.31	135.001	
	4,872.84	4,547.03	Mancos		-0.31	135.001	
	5,222.10	4,895.10	Gallup (MNCS_A)		-0.31	135.001	
	5,302.12	4,975.10	MNCS_B		-0.31	135.001	
	5,455.20	5,124.94	MNCS_C		-0.31	135.001	
	5,519.73	5,184.81	MNCS_Cms		-0.31	135.001	
	5,599.64	5,254.60	MNCS_D		-0.31	135.001	
ı	5,701.05	5,334.26	MNCS_E		-0.31	135.001	
	5,773.76	5,383.98	MNCS_F		-0.31	135.001	
ı	5,939.16	5,473.22	MNCS_G		-0.31	135.001	
ı	6,035.87	5,512.75	MNCS_H @ 0VS		-0.31	135.001	

Plan Annotations				
Measured Depth	Vertical Local C Depth +N/-S		dinates +E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
500.00	500.00	0.00	0.00	KOP Begin 3°/100' build
1,323.25	1,297.99	172.45	27.95	Begin 24.70° tangent
4,345.80	4,044.06	1,419.09	230.01	Begin 3°/100' drop
5,169.05	4,842.05	1,591.54	257.96	Begin vertical hold
5,269.05	4,942.05	1,591.54	257.96	Begin 10°/100' build
5,869.05	5,438.25	1,388.97	460.53	Begin 60.00° tangent
5,929.05	5,468.25	1,352.22	497.27	Begin 10°/100' build
6,232.17	5,545.00	1,147.45	702.04	Begin 90.31° lateral
20,582.58	5,467.00	-8,999.84	10,849.00	PBHL @ 20582.58 MD 5467.00 TVD



Planning Report - Geographic

DT_Aug2923v16 Database:

Company: **Enduring Resources LLC**

Project: Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Design: rev0

Wellbore: Original Hole Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Minimum Curvature

Project Rio Arriba County, New Mexico NAD83 NM C

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

System Datum:

Mean Sea Level

Site Haynes Canyon Unit (420, 422, 424 & 426)

Northing: 1,912,981.994 usft 36.251079000 Site Position: Latitude: 1,276,144.638 usft Lat/Long Easting: -107.485453000 From: Longitude:

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

Well Haynes Canyon Unit 426 H, Surf loc: 1784 FSL 462 FEL Section 05-T23N-R06W

Well Position +N/-S 0.00 ft Northing: 1,913,010.736 usft Latitude: 36.251160000

-107.485255000 +E/-W 0.00 ft Easting: 1,276,203.396 usft Longitude: 0.00 ft ft 6,765.00 ft **Position Uncertainty** Wellhead Elevation: Ground Level:

Grid Convergence: -0.73 °

Wellbore Original Hole

Magnetics Model Name Declination Field Strength Sample Date Dip Angle (°) (°) (nT) IGRF2020 11/1/2023 8.44 62.76 49,110.83347463

Design rev0

Audit Notes:

0.00 Version: Phase: **PLAN** Tie On Depth:

Vertical Section: Depth From (TVD) +N/-S Direction +E/-W (ft) (ft) (ft) (°) 0.00 0.00 0.00 135.001

Plan Survey Tool Program 11/1/2023

Depth From Depth To

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

20,582.58 rev0 (Original Hole) 0.00 MWD

OWSG MWD - Standard



Planning Report - Geographic

Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

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	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,323.25	24.70	9.207	1,297.99	172.45	27.95	3.00	3.00	0.00	9.21	
4,345.80	24.70	9.207	4,044.06	1,419.09	230.01	0.00	0.00	0.00	0.00	
5,169.05	0.00	360.000	4,842.05	1,591.54	257.96	3.00	-3.00	0.00	180.00	
5,269.05	0.00	360.000	4,942.05	1,591.54	257.96	0.00	0.00	0.00	0.00	Haynes 426 vert
5,869.05	60.00	135.001	5,438.25	1,388.97	460.53	10.00	10.00	0.00	135.00	
5,929.05	60.00	135.001	5,468.25	1,352.22	497.27	0.00	0.00	0.00	0.00	
6,232.17	90.31	135.001	5,545.00	1,147.45	702.04	10.00	10.00	0.00	0.00	
20,582.58	90.31	135.001	5,467.00	-8,999.84	10,849.00	0.00	0.00	0.00	0.00	Haynes 426 LTP 1996



Planning Report - Geographic

Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Jesigii.	1640								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
100.00	0.00	0.000	100.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
200.00	0.00	0.000	200.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
300.00	0.00	0.000	300.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
400.00	0.00	0.000	400.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
500.00	0.00	0.000	500.00	0.00	0.00	1,913,010.736	1,276,203.396	36.251160000	-107.485255000
600.00	3.00	9.207	599.95	2.58	0.42	1,913,013.320	1,276,203.815	36.251167111	-107.485253692
700.00	6.00	9.207	699.63	10.33	1.67	1,913,021.064	1,276,205.070	36.251188424	-107.485249770
800.00	9.00	9.207	798.77	23.21	3.76	1,913,033.947	1,276,207.158	36.251223880	-107.485243247
900.00	12.00	9.207	897.08	41.20	6.68	1,913,051.934	1,276,210.074	36.251273382	-107.485234139
1,000.00	15.00	9.207	994.31	64.24	10.41	1,913,074.975	1,276,213.808	36.251336795	-107.485222472
1,100.00	18.00	9.207	1,090.18	92.27	14.96	1,913,103.007	1,276,218.352	36.251413944	-107.485208277
1,200.00	21.00	9.207	1,184.43	125.22	20.30	1,913,135.954	1,276,223.692	36.251504619	-107.485191594
1,300.00	24.00	9.207	1,276.81	162.99	26.42	1,913,173.725	1,276,229.814	36.251608571	-107.485172468
1,323.25	24.70	9.207	1,297.99	172.45	27.95	1,913,183.188	1,276,231.348	36.251634614	-107.485167677
1,400.00	24.70	9.207	1,367.72	204.11	33.08	1,913,214.842	1,276,236.478	36.251721733	-107.485151648
1,500.00	24.70	9.207	1,458.57	245.35	39.77	1,913,256.087	1,276,243.163	36.251835244	-107.485130763
1,600.00	24.70	9.207	1,549.43	286.60	46.45	1,913,297.331	1,276,249.848	36.251948756	-107.485109878
1,700.00	24.70	9.207	1,640.28	327.84	53.14	1,913,338.576	1,276,256.533	36.252062267	-107.485088993
1,800.00	24.70	9.207	1,731.13	369.08	59.82	1,913,379.820	1,276,263.218	36.252175778	-107.485068108
1,900.00	24.70	9.207	1,821.98	410.33 451.57	66.51	1,913,421.065	1,276,269.903	36.252289290	-107.485047222
2,000.00 2,100.00	24.70 24.70	9.207 9.207	1,912.84 2,003.69	492.82	73.19 79.88	1,913,462.309 1,913,503.554	1,276,276.588 1,276,283.273	36.252402801 36.252516312	-107.485026337 -107.485005452
2,200.00	24.70	9.207	2,003.69	534.06	86.56	1,913,544.798	1,276,289.958	36.252629824	-107.484984567
2,300.00	24.70	9.207	2,185.39	575.31	93.25	1,913,586.043	1,276,296.643	36.252743335	-107.484963681
2,400.00	24.70	9.207	2,276.25	616.55	99.93	1,913,627.287	1,276,303.328	36.252856846	-107.484942796
2,500.00	24.70	9.207	2,367.10	657.80	106.62	1,913,668.532	1,276,310.013	36.252970358	-107.484921910
2,600.00	24.70	9.207	2,457.95	699.04	113.30	1,913,709.776	1,276,316.698	36.253083869	-107.484901025
2,700.00	24.70	9.207	2,548.81	740.29	119.99	1,913,751.020	1,276,323.383	36.253197381	-107.484880139
2,800.00	24.70	9.207	2,639.66	781.53	126.67	1,913,792.265	1,276,330.068	36.253310892	-107.484859253
2,900.00	24.70	9.207	2,730.51	822.77	133.36	1,913,833.509	1,276,336.753	36.253424403	-107.484838368
3,000.00	24.70	9.207	2,821.36	864.02	140.04	1,913,874.754	1,276,343.438	36.253537915	-107.484817482
3,100.00	24.70	9.207	2,912.22	905.26	146.73	1,913,915.998	1,276,350.123	36.253651426	-107.484796596
3,200.00	24.70	9.207	3,003.07	946.51	153.41	1,913,957.243	1,276,356.808	36.253764937	-107.484775710
3,300.00	24.70	9.207	3,093.92	987.75	160.10	1,913,998.487	1,276,363.493	36.253878449	-107.484754824
3,400.00	24.70	9.207	3,184.77	1,029.00	166.78	1,914,039.732	1,276,370.178	36.253991960	-107.484733938
3,500.00	24.70	9.207	3,275.63	1,070.24	173.47	1,914,080.976	1,276,376.863	36.254105471	-107.484713052
3,600.00	24.70	9.207	3,366.48	1,111.49	180.15	1,914,122.221	1,276,383.548	36.254218982	-107.484692166
3,700.00	24.70	9.207	3,457.33	1,152.73	186.84	1,914,163.465	1,276,390.233	36.254332494	-107.484671280
3,800.00	24.70	9.207	3,548.18	1,193.98	193.52	1,914,204.710	1,276,396.918	36.254446005	-107.484650394
3,900.00	24.70	9.207	3,639.04	1,235.22	200.21	1,914,245.954	1,276,403.603	36.254559516	-107.484629508
4,000.00	24.70	9.207	3,729.89	1,276.46	206.89	1,914,287.199	1,276,410.288	36.254673028	-107.484608621
4,100.00	24.70	9.207	3,820.74	1,317.71	213.58	1,914,328.443	1,276,416.973	36.254786539	-107.484587735
4,200.00	24.70	9.207	3,911.59	1,358.95	220.26	1,914,369.687	1,276,423.658	36.254900050	-107.484566848
4,300.00	24.70	9.207	4,002.45	1,400.20	226.95	1,914,410.932	1,276,430.343	36.255013561	-107.484545962
4,345.80	24.70	9.207	4,044.06	1,419.09	230.01	1,914,429.822	1,276,433.405	36.255065550	-107.484536396
4,400.00	23.07	9.207	4,093.61	1,440.75	233.52	1,914,451.484	1,276,436.916	36.255125166	-107.484525426
4,500.00 4,600.00	20.07 17.07	9.207 9.207	4,186.60 4,281.38	1,477.04 1,508.47	239.40 244.50	1,914,487.772	1,276,442.797 1,276,447.892	36.255225038 36.255311552	-107.484507049 -107.484491130
4,700.00	17.07	9.207	4,261.36	1,506.47	244.50	1,914,519.207 1,914,545.702	1,276,447.692	36.255384471	-107.484477713
4,700.00	14.07	9.207	4,377.70	1,554.97	246.79 252.27	1,914,545.702	1,276,452.167	36.255443595	-107.484466834
4,900.00	8.07	9.207	4,573.89	1,572.86	254.93	1,914,583.597	1,276,458.329	36.255488763	-107.484458522
5,000.00	5.07	9.207	4,673.22	1,584.16	256.76	1,914,594.893	1,276,460.160	36.255519850	-107.484452802
5,100.00	2.07	9.207	4,773.01	1,590.31	257.76	1,914,601.041	1,276,461.156	36.255536772	-107.484449688
5,100.00	0.00	360.000	4,842.05	1,591.54	257.96	1,914,602.273	1,276,461.356	36.255540163	-107.484449065



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.00	0.00	0.000	4,873.00	1,591.54	257.96	1,914,602.273	1,276,461.356	36.255540163	-107.484449065
5,269.05	0.00	360.000	4,942.05	1,591.54	257.96	1,914,602.273	1,276,461.356	36.255540163	-107.484449065
5,300.00	3.09	135.001	4,972.98	1,591.54	258.55	1,914,601.682	1,276,461.947	36.255538560	-107.484447035
5,350.00	8.09	135.001	5,022.73	1,587.50	262.00	1,914,598.236	1,276,465.393	36.255529217	-107.484435202
5,400.00	13.09	135.001	5,022.73	1,587.50	268.50	1,914,591.738	1,276,403.393	36.255511596	-107.484412884
			5,120.01						
5,450.00	18.09	135.001	,	1,571.50	278.00	1,914,582.236 1,914,569.803	1,276,481.392	36.255485832	-107.484380254
5,500.00	23.09	135.001	5,166.80 5,211.87	1,559.07	290.43		1,276,493.825	36.255452121	-107.484337558
5,550.00	28.09	135.001	,	1,543.80	305.70	1,914,554.534	1,276,509.093	36.255410719	-107.484285122
5,600.00	33.09	135.001	5,254.90	1,525.81	323.69	1,914,536.545	1,276,527.082	36.255361941	-107.484223345
5,650.00	38.09	135.001	5,295.55	1,505.24	344.26	1,914,515.973	1,276,547.654	36.255306159	-107.484152696
5,700.00	43.09	135.001	5,333.50	1,482.24	367.26	1,914,492.974	1,276,570.652	36.255243798	-107.484073715
5,750.00	48.09	135.001	5,368.48	1,456.99	392.51	1,914,467.723	1,276,595.901	36.255175331	-107.483987001
5,800.00	53.09	135.001	5,400.20	1,429.68	419.81	1,914,440.413	1,276,623.211	36.255101280	-107.483893216
5,850.00	58.09	135.001	5,428.45	1,400.52	448.98	1,914,411.251	1,276,652.371	36.255022208	-107.483793072
5,869.05	60.00	135.001	5,438.25	1,388.97	460.53	1,914,399.699	1,276,663.923	36.254990883	-107.483753400
5,900.00	60.00	135.001	5,453.72	1,370.01	479.48	1,914,380.746	1,276,682.875	36.254939493	-107.483688315
5,929.05	60.00	135.001	5,468.25	1,352.22	497.27	1,914,362.956	1,276,700.665	36.254891255	-107.483627221
5,950.00	62.09	135.001	5,478.39	1,339.26	510.23	1,914,349.995	1,276,713.626	36.254856110	-107.483582711
6,000.00	67.09	135.001	5,499.83	1,307.33	542.16	1,914,318.068	1,276,745.551	36.254769540	-107.483473072
6,050.00	72.09	135.001	5,517.26	1,274.21	575.28	1,914,284.941	1,276,778.677	36.254679716	-107.483359312
6,100.00	77.09	135.001	5,530.54	1,240.13	609.36	1,914,250.867	1,276,812.750	36.254587322	-107.483242297
6,150.00	82.09	135.001	5,539.56	1,205.37	644.12	1,914,216.103	1,276,847.513	36.254493060	-107.483122917
6,200.00	87.09	135.001	5,544.27	1,170.18	679.30	1,914,180.916	1,276,882.699	36.254397648	-107.483002081
6,232.17	90.31	135.001	5,545.00	1,147.45	702.04	1,914,158.180	1,276,905.434	36.254335999	-107.482924005
6,300.00	90.31	135.001	5,544.63	1,099.48	750.00	1,914,110.213	1,276,953.399	36.254205937	-107.482759287
6,400.00	90.31	135.001	5,544.09	1,028.77	820.71	1,914,039.503	1,277,024.107	36.254014203	-107.482516464
6,500.00	90.31	135.001	5,543.54	958.06	891.42	1,913,968.792	1,277,094.816	36.253822467	-107.482273643
6,600.00	90.31	135.001	5,543.00	887.35	962.13	1,913,898.082	1,277,165.524	36.253630732	-107.482030823
6,700.00	90.31	135.001	5,542.46	816.64	1,032.84	1,913,827.371	1,277,236.232	36.253438995	-107.481788004
6,800.00	90.31	135.001	5,541.91	745.93	1,103.55	1,913,756.660	1,277,306.941	36.253247258	-107.481545187
6,900.00	90.31	135.001	5,541.37	675.21	1,174.26	1,913,685.950	1,277,377.649	36.253055521	-107.481302370
7,000.00	90.31	135.001	5,540.83	604.50	1,244.96	1,913,615.239	1,277,448.357	36.252863783	-107.481059555
7,100.00	90.31	135.001	5,540.28	533.79	1,315.67	1,913,544.528	1,277,519.066	36.252672045	-107.480816741
7,200.00	90.31	135.001	5,539.74	463.08	1,386.38	1,913,473.818	1,277,589.774	36.252480306	-107.480573928
7,300.00	90.31	135.001	5,539.20	392.37	1,457.09	1,913,403.107	1,277,660.482	36.252288567	-107.480331116
7,400.00	90.31	135.001	5,538.65	321.66	1,527.80	1,913,332.397	1,277,731.191	36.252096827	-107.480088305
7,500.00	90.31	135.001	5,538.11	250.95	1,598.51	1,913,261.686	1,277,801.899	36.251905086	-107.479845496
7,600.00	90.31	135.001	5,537.56	180.24	1,669.21	1,913,190.975	1,277,872.607	36.251713345	-107.479602688
7,700.00	90.31	135.001	5,537.02	109.53	1,739.92	1,913,120.265	1,277,943.316	36.251521604	-107.479359881
7,800.00		135.001	5,536.48	38.82	1,810.63	1,913,049.554	1,278,014.024	36.251329862	-107.479117075
7,900.00	90.31	135.001	5,535.93	-31.89	1,881.34	1,912,978.843	1,278,084.733	36.251138119	-107.478874270
8,000.00			5,535.39					36.251136119	-107.478631467
8,100.00	90.31 90.31	135.001 135.001	5,535.39	-102.60 -173.31	1,952.05 2,022.76	1,912,908.133	1,278,155.441 1,278,226.149	36.250754632	-107.478388665
						1,912,837.422			
8,200.00	90.31	135.001	5,534.30	-244.03	2,093.47	1,912,766.712	1,278,296.858	36.250562888	-107.478145864
8,300.00	90.31	135.001	5,533.76	-314.74	2,164.17	1,912,696.001	1,278,367.566	36.250371144	-107.477903064
8,400.00	90.31	135.001	5,533.22	-385.45	2,234.88	1,912,625.290	1,278,438.274	36.250179399	-107.477660265
8,500.00	90.31	135.001	5,532.67	-456.16	2,305.59	1,912,554.580	1,278,508.983	36.249987653	-107.477417467
8,600.00	90.31	135.001	5,532.13	-526.87	2,376.30	1,912,483.869	1,278,579.691	36.249795907	-107.477174671
8,700.00	90.31	135.001	5,531.59	-597.58	2,447.01	1,912,413.158	1,278,650.399	36.249604160	-107.476931876
8,800.00	90.31	135.001	5,531.04	-668.29	2,517.72	1,912,342.448	1,278,721.108	36.249412413	-107.476689082
8,900.00	90.31	135.001	5,530.50	-739.00	2,588.42	1,912,271.737	1,278,791.816	36.249220665	-107.476446289
9,000.00	90.31	135.001	5,529.96	-809.71	2,659.13	1,912,201.027	1,278,862.524	36.249028917	-107.476203498
9,100.00	90.31	135.001	5,529.41	-880.42	2,729.84	1,912,130.316	1,278,933.233	36.248837168	-107.475960707
9,200.00	90.31	135.001	5,528.87	-951.13	2,800.55	1,912,059.605	1,279,003.941	36.248645419	-107.475717918
9,300.00	90.31	135.001	5,528.32	-1,021.84	2,871.26	1,911,988.895	1,279,074.649	36.248453669	-107.475475130



DT_Aug2923v16 Database: Company:

Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Project: Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Original Hole Wellbore: Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Design.	Tevo								
Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,400.00	90.31	135.001	5,527.78	-1,092.55	2,941.97	1,911,918.184	1,279,145.358	36.248261918	-107.475232343
9,500.00	90.31	135.001	5,527.24	-1,163.27	3,012.68	1,911,847.473	1,279,216.066	36.248070167	-107.474989557
9,600.00	90.31	135.001	5,526.69	-1,233.98	3,083.38	1,911,776.763	1,279,286.774	36.247878416	-107.474746773
9,700.00	90.31	135.001	5,526.15	-1,304.69	3,154.09	1,911,706.052	1,279,357.483	36.247686664	-107.474503990
9,800.00	90.31	135.001	5,525.61	-1,375.40	3,224.80	1,911,635.342	1,279,428.191	36.247494912	-107.474261208
9,900.00	90.31	135.001	5,525.06	-1,446.11	3,295.51	1,911,564.631	1,279,498.900	36.247303159	-107.474018427
10,000.00	90.31	135.001	5,524.52	-1,516.82	3,366.22	1,911,493.920	1,279,569.608	36.247111405	-107.473775647
10,100.00	90.31	135.001	5,523.98	-1,587.53	3,436.93	1,911,423.210	1,279,640.316	36.246919651	-107.473532868
10,200.00	90.31	135.001	5,523.43	-1,658.24	3,507.64	1,911,352.499	1,279,711.025	36.246727897	-107.473290091
10,300.00	90.31	135.001	5,522.89	-1,728.95	3,578.34	1,911,281.788	1,279,781.733	36.246536142	-107.473047315
10,400.00	90.31	135.001	5,522.35	-1,799.66	3,649.05	1,911,211.078	1,279,852.441	36.246344386	-107.472804540
10,500.00	90.31	135.001	5,521.80	-1,870.37	3,719.76	1,911,140.367	1,279,923.150	36.246152630	-107.472561766
10,600.00	90.31	135.001	5,521.26	-1,941.08	3,790.47	1,911,069.657	1,279,993.858	36.245960873	-107.472318994
10,700.00	90.31	135.001	5,520.72	-2,011.79	3,861.18	1,910,998.946	1,280,064.566	36.245769116	-107.472076222
10,800.00	90.31	135.001	5,520.17	-2,082.51	3,931.89	1,910,928.235	1,280,135.275	36.245577358	-107.471833452
10,900.00	90.31	135.001	5,519.63	-2,153.22	4,002.59	1,910,857.525	1,280,205.983	36.245385600	-107.471590683
11,000.00	90.31	135.001	5,519.08	-2,223.93	4,073.30	1,910,786.814	1,280,276.691	36.245193842	-107.471347916
11,100.00	90.31	135.001	5,518.54	-2,294.64	4,144.01	1,910,716.103	1,280,347.400	36.245002082	-107.471105149
11,200.00	90.31	135.001	5,518.00	-2,365.35	4,214.72	1,910,645.393	1,280,418.108	36.244810323	-107.470862384
11,300.00	90.31	135.001	5,517.45	-2,436.06	4,285.43	1,910,574.682	1,280,488.816	36.244618562	-107.470619619
11,400.00	90.31	135.001	5,516.91	-2,506.77	4,356.14	1,910,503.972	1,280,559.525	36.244426801	-107.470376856
11,500.00	90.31	135.001	5,516.37	-2,577.48	4,426.85	1,910,433.261	1,280,630.233	36.244235040	-107.470134094
11,600.00	90.31	135.001	5,515.82	-2,648.19	4,497.55	1,910,362.550	1,280,700.942	36.244043278	-107.469891334
11,700.00	90.31	135.001	5,515.28	-2,718.90	4,568.26	1,910,291.840	1,280,771.650	36.243851516	-107.469648574
11,800.00	90.31	135.001	5,514.74	-2,789.61	4,638.97	1,910,221.129	1,280,842.358	36.243659753	-107.469405816
11,900.00	90.31	135.001	5,514.19	-2,860.32	4,709.68	1,910,150.418	1,280,913.067	36.243467990	-107.469163058
12,000.00	90.31	135.001	5,513.65	-2,931.03	4,780.39	1,910,079.708	1,280,983.775	36.243276226	-107.468920302
12,100.00	90.31	135.001	5,513.11	-3,001.75	4,851.10	1,910,008.997	1,281,054.483	36.243084461	-107.468677548
12,200.00	90.31	135.001	5,512.56	-3,072.46	4,921.81	1,909,938.287	1,281,125.192	36.242892696	-107.468434794
12,300.00	90.31	135.001	5,512.02	-3,143.17	4,992.51	1,909,867.576	1,281,195.900	36.242700931	-107.468192042
12,400.00	90.31	135.001	5,511.48	-3,213.88	5,063.22	1,909,796.865	1,281,266.608	36.242509165	-107.467949290
12,500.00	90.31	135.001	5,510.93	-3,284.59	5,133.93	1,909,726.155	1,281,337.317	36.242317398	-107.467706540
12,600.00	90.31	135.001	5,510.39	-3,355.30	5,204.64	1,909,655.444	1,281,408.025	36.242125631	-107.46746379 ²
12,700.00	90.31	135.001	5,509.84	-3,426.01	5,275.35	1,909,584.733	1,281,478.733	36.241933864	-107.467221044
12,800.00	90.31	135.001	5,509.30	-3,496.72	5,346.06	1,909,514.023	1,281,549.442	36.241742095	-107.466978297
12,900.00	90.31	135.001	5,508.76	-3,567.43	5,416.76	1,909,443.312	1,281,620.150	36.241550327	-107.466735552
13,000.00	90.31	135.001	5,508.21	-3,638.14	5,487.47	1,909,372.602	1,281,690.858	36.241358558	-107.466492808
13,100.00	90.31	135.001	5,507.67	-3,708.85	5,558.18	1,909,301.891	1,281,761.567	36.241166788	-107.46625006
13,200.00	90.31	135.001	5,507.13	-3,779.56	5,628.89	1,909,231.180	1,281,832.275	36.240975018	-107.466007323
13,300.00	90.31	135.001	5,506.58	-3,850.27	5,699.60	1,909,160.470	1,281,902.983	36.240783247	-107.465764582
13,400.00	90.31	135.001	5,506.04	-3,920.99	5,770.31	1,909,089.759	1,281,973.692	36.240591476	-107.465521843
13,500.00	90.31	135.001	5,505.50	-3,991.70	5,841.02	1,909,019.048	1,282,044.400	36.240399704	-107.465279105
13,600.00	90.31	135.001	5,504.95	-4,062.41	5,911.72	1,908,948.338	1,282,115.109	36.240207932	-107.465036367
13,700.00	90.31	135.001	5,504.41	-4,133.12	5,982.43	1,908,877.627	1,282,185.817	36.240016159	-107.464793632
13,800.00	90.31	135.001	5,503.87	-4,203.83	6,053.14	1,908,806.916	1,282,256.525	36.239824386	-107.464550897
13,900.00	90.31	135.001	5,503.32	-4,274.54	6,123.85	1,908,736.206	1,282,327.234	36.239632612	-107.464308163
14,000.00	90.31	135.001	5,502.78	-4,345.25	6,194.56	1,908,665.495	1,282,397.942	36.239440838	-107.464065431
14,100.00	90.31	135.001	5,502.24	-4,415.96 4,496.67	6,265.27	1,908,594.785	1,282,468.650	36.239249063	-107.463822700
14,200.00	90.31	135.001	5,501.69	-4,486.67	6,335.98	1,908,524.074	1,282,539.359	36.239057287	-107.463579970
14,300.00	90.31	135.001	5,501.15	-4,557.38	6,406.68	1,908,453.363	1,282,610.067	36.238865511	-107.46333724
14,400.00	90.31	135.001	5,500.60	-4,628.09	6,477.39	1,908,382.653	1,282,680.775	36.238673735	-107.463094514
14,500.00	90.31	135.001	5,500.06	-4,698.80 4,760.51	6,548.10	1,908,311.942	1,282,751.484	36.238481958	-107.462851787
14,600.00	90.31	135.001	5,499.52	-4,769.51	6,618.81	1,908,241.231	1,282,822.192	36.238290181	-107.462609062
14,700.00	90.31	135.001	5,498.97	-4,840.23	6,689.52	1,908,170.521	1,282,892.900	36.238098403	-107.462366338
14,800.00	90.31	135.001	5,498.43	-4,910.94	6,760.23	1,908,099.810	1,282,963.609	36.237906624	-107.462123615



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Planned Survey	,								
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
14,900.00	90.31	135.001	5,497.89	-4,981.65	6,830.93	1,908,029.100	1,283,034.317	36.237714845	-107.461880894
15,000.00	90.31	135.001	5,497.34	-5,052.36	6,901.64	1,907,958.389	1,283,105.025	36.237523065	-107.461638173
15,100.00	90.31	135.001	5,496.80	-5,123.07	6,972.35	1,907,887.678	1,283,175.734	36.237331285	-107.461395454
15,200.00	90.31	135.001	5,496.26	-5,123.78	7,043.06	1,907,816.968	1,283,246.442	36.237139505	-107.461152736
15,300.00	90.31	135.001	5,495.71	-5,264.49	7,113.77	1,907,746.257	1,283,317.151	36.236947724	-107.460910019
15,400.00	90.31	135.001	5,495.17	-5,335.20	7,110.77	1,907,675.546	1,283,387.859	36.236755942	-107.460667303
15,500.00	90.31	135.001	5,494.63	-5,405.91	7,104.40	1,907,604.836	1,283,458.567	36.236564160	-107.460424589
15,600.00	90.31	135.001	5,494.08	-5,476.62	7,325.89	1,907,534.125	1,283,529.276	36.236372377	-107.460181876
15,700.00	90.31	135.001	5,493.54	-5,547.33	7,396.60	1,907,463.415	1,283,599.984	36.236180594	-107.459939163
15,800.00	90.31	135.001	5,493.00	-5,618.04	7,467.31	1,907,392.704	1,283,670.692	36.235988810	-107.459696452
15,900.00	90.31	135.001	5,492.45	-5,688.75	7,538.02	1,907,321.993	1,283,741.401	36.235797026	-107.459453743
16,000.00	90.31	135.001	5,491.91	-5,759.47	7,608.73	1,907,251.283	1,283,812.109	36.235605241	-107.459211034
16,100.00	90.31	135.001	5,491.36	-5,830.18	7,679.44	1,907,180.572	1,283,882.817	36.235413456	-107.458968327
16,200.00	90.31	135.001	5,490.82	-5,900.89	7,750.15	1,907,109.861	1,283,953.526	36.235221670	-107.458725620
16,300.00	90.31	135.001	5,490.28	-5,971.60	7,820.85	1,907,039.151	1,284,024.234	36.235029884	-107.458482915
16,400.00	90.31	135.001	5,489.73	-6,042.31	7,891.56	1,906,968.440	1,284,094.942	36.234838097	-107.458240212
16,500.00	90.31	135.001	5,489.19	-6,113.02	7,962.27	1,906,897.730	1,284,165.651	36.234646309	-107.457997509
16,600.00	90.31	135.001	5,488.65	-6,183.73	8,032.98	1,906,827.019	1,284,236.359	36.234454522	-107.457754807
16,700.00	90.31	135.001	5,488.10	-6,254.44	8,103.69	1,906,756.308	1,284,307.067	36.234262733	-107.457512107
16,800.00	90.31	135.001	5,487.56	-6,325.15	8,174.40	1,906,685.598	1,284,377.776	36.234070944	-107.457269408
16,900.00	90.31	135.001	5,487.02	-6,395.86	8,245.10	1,906,614.887	1,284,448.484	36.233879155	-107.457026710
17,000.00	90.31	135.001	5,486.47	-6,466.57	8,315.81	1,906,544.176	1,284,519.192	36.233687365	-107.456784013
17,100.00	90.31	135.001	5,485.93	-6,537.28	8,386.52	1,906,473.466	1,284,589.901	36.233495574	-107.456541318
17,200.00	90.31	135.001	5,485.39	-6,607.99	8,457.23	1,906,402.755	1,284,660.609	36.233303783	-107.456298623
17,300.00	90.31	135.001	5,484.84	-6,678.71	8,527.94	1,906,332.045	1,284,731.318	36.233111992	-107.456055930
17,400.00	90.31	135.001	5,484.30	-6,749.42	8,598.65	1,906,261.334	1,284,802.026	36.232920200	-107.455813238
17,500.00	90.31	135.001	5,483.75	-6,820.13	8,669.36	1,906,190.623	1,284,872.734	36.232728407	-107.455570547
17,600.00	90.31	135.001	5,483.21	-6,890.84	8,740.06	1,906,119.913	1,284,943.443	36.232536614	-107.455327858
17,700.00	90.31	135.001	5,482.67	-6,961.55	8,810.77	1,906,049.202	1,285,014.151	36.232344820	-107.455085169
17,800.00	90.31	135.001	5,482.12	-7,032.26	8,881.48	1,905,978.491	1,285,084.859	36.232153026	-107.454842482
17,900.00	90.31	135.001	5,481.58	-7,102.97	8,952.19	1,905,907.781	1,285,155.568	36.231961231	-107.454599796
18,000.00	90.31	135.001	5,481.04	-7,173.68	9,022.90	1,905,837.070	1,285,226.276	36.231769436	-107.454357111
18,100.00	90.31	135.001	5,480.49	-7,244.39	9,093.61	1,905,766.360	1,285,296.984	36.231577641	-107.454114427
18,200.00	90.31	135.001	5,479.95	-7,315.10	9,164.32	1,905,695.649	1,285,367.693	36.231385844	-107.453871745
18,300.00	90.31	135.001	5,479.41	-7,385.81	9,235.02	1,905,624.938	1,285,438.401	36.231194048	-107.453629063
18,400.00	90.31	135.001	5,478.86	-7,456.52	9,305.73	1,905,554.228	1,285,509.109	36.231002250	-107.453386383
18,500.00	90.31	135.001	5,478.32	-7,527.24	9,376.44	1,905,483.517	1,285,579.818	36.230810453	-107.453143704
18,600.00	90.31	135.001	5,477.78	-7,597.95	9,447.15	1,905,412.806	1,285,650.526	36.230618654	-107.452901027
18,700.00	90.31	135.001	5,477.23	-7,668.66	9,517.86	1,905,342.095	1,285,721.234	36.230426855	-107.452658350
18,800.00	90.31	135.001	5,476.69	-7,739.37	9,588.57	1,905,271.384	1,285,791.943	36.230235056	-107.452415675
18,900.00	90.31	135.001	5,476.15	-7,810.08	9,659.27	1,905,200.674	1,285,862.651	36.230043256	-107.452173000
19,000.00	90.31	135.001	5,475.60	-7,880.79	9,729.98	1,905,129.963	1,285,933.360	36.229851456	-107.451930327
19,100.00	90.31	135.001	5,475.06	-7,951.50	9,800.69	1,905,059.252	1,286,004.068	36.229659655	-107.451687655
19,200.00	90.31	135.001	5,474.51	-8,022.21	9,871.40	1,904,988.542	1,286,074.776	36.229467853	-107.451444985
19,300.00	90.31	135.001	5,473.97	-8,092.92	9,942.11	1,904,917.831	1,286,145.485	36.229276051	-107.451202315
19,400.00	90.31	135.001	5,473.43	-8,163.63	10,012.82	1,904,847.120	1,286,216.193	36.229084249	-107.450959647
19,500.00	90.31	135.001	5,472.88	-8,234.34	10,083.53	1,904,776.410	1,286,286.901	36.228892446	-107.450716980
19,600.00	90.31	135.001	5,472.34	-8,305.05	10,154.23	1,904,705.699	1,286,357.610	36.228700642	-107.450474314
19,700.00	90.31	135.001	5,471.80	-8,375.76	10,224.94	1,904,634.989	1,286,428.318	36.228508838	-107.450231649
19,800.00	90.31	135.001	5,471.25	-8,446.48	10,295.65	1,904,564.278	1,286,499.026	36.228317034	-107.449988986
19,900.00	90.31	135.001	5,470.71	-8,517.19	10,366.36	1,904,493.567	1,286,569.735	36.228125229	-107.449746323
20,000.00	90.31	135.001	5,470.17	-8,587.90	10,437.07	1,904,422.857	1,286,640.443	36.227933423	-107.449503662
20,100.00	90.31	135.001	5,469.62	-8,658.61	10,507.78	1,904,352.146	1,286,711.151	36.227741617	-107.449261002
20,200.00	90.31	135.001	5,469.08	-8,729.32	10,578.49	1,904,281.435	1,286,781.860	36.227549810	-107.449018343
20,300.00	90.31	135.001	5,468.54	-8,800.03	10,649.19	1,904,210.725	1,286,852.568	36.227358003	-107.448775685



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Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,400.00 20,500.00 20,582.58	90.31 90.31 90.31	135.001 135.001 135.001	5,467.99 5,467.45 5,467.00	-8,870.74 -8,941.45 -8,999.84	10,719.90 10,790.61 10,849.00	1,904,140.014 1,904,069.304 1,904,010.914	1,286,923.276 1,286,993.985 1,287,052.373	36.227166196 36.226974387 36.226816000	-107.448533029 -107.448290374 -107.448090000

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
Haynes 426 vert - plan hits target ce - Point	0.00 nter	360.000	4,942.05	1,591.54	257.96	1,914,602.273	1,276,461.356	36.255540163	-107.484449065
Haynes 426 LTP 1996 F - plan hits target ce - Point		0.000	5,467.00	-8,999.84	10,849.00	1,904,010.914	1,287,052.373	36.226816000	-107.448090000
Haynes 426 FTP 2283 I - plan hits target ce - Point		0.000	5,545.00	1,147.45	702.04	1,914,158.180	1,276,905.436	36.254336000	-107.482924000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 3,945.09		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (420, 422, 424 & 426)

Well: Haynes Canyon Unit 426 H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,442.92	1,406.71	Ojo Alamo		-0.31	135.001	
	1,524.49	1,480.82	Kirtland		-0.31	135.001	
	1,789.03	1,721.17	Fruitland		-0.31	135.001	
	2,084.45	1,989.56	Pictured Cliffs		-0.31	135.001	
	2,235.46	2,126.76	Lewis		-0.31	135.001	
	2,551.82	2,414.18	Chacra_A		-0.31	135.001	
	3,767.64	3,518.78	Cliff House_Basal		-0.31	135.001	
	3,784.18	3,533.81	Menefee		-0.31	135.001	
	4,566.88	4,249.80	Point Lookout		-0.31	135.001	
	4,872.84	4,547.03	Mancos		-0.31	135.001	
	5,222.10	4,895.10	Gallup (MNCS_A)		-0.31	135.001	
	5,302.12	4,975.10	MNCS_B		-0.31	135.001	
	5,455.20	5,124.94	MNCS_C		-0.31	135.001	
	5,519.73	5,184.81	MNCS_Cms		-0.31	135.001	
	5,599.64	5,254.60	MNCS_D		-0.31	135.001	
	5,701.05	5,334.26	MNCS_E		-0.31	135.001	
	5,773.76	5,383.98	MNCS_F		-0.31	135.001	
	5,939.16	5,473.22	MNCS_G		-0.31	135.001	
	6,035.87	5,512.75	MNCS_H @ 0VS		-0.31	135.001	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	dinates +E/-W (ft)	Comment
500.0	0 500.00	0.00	0.00	KOP Begin 3°/100' build
1,323.2	5 1,297.99	172.45	27.95	Begin 24.70° tangent
4,345.8	0 4,044.06	1,419.09	230.01	Begin 3°/100' drop
5,169.0	5 4,842.05	1,591.54	257.96	Begin vertical hold
5,269.0	5 4,942.05	1,591.54	257.96	Begin 10°/100' build
5,869.0	5 5,438.25	1,388.97	460.53	Begin 60.00° tangent
5,929.0	5 5,468.25	1,352.22	497.27	Begin 10°/100' build
6,232.1	7 5,545.00	1,147.45	702.04	Begin 90.31° lateral
20,582.5	5,467.00	-8,999.84	10,849.00	PBHL @ 20582.58 MD 5467.00 TVD



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

0.00 ft Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Well Haynes Canyon Unit 426 H TVD Reference: RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma DT_Aug2923v16 Database: Offset TVD Reference: Offset Datum

Reference rev0

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

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

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum centre distance of 2,258.26ft Results Limited by: Error Surface: Ellipsoid Separation Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Survey Tool Program 11/1/2023 Date

> From То

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

20,582.58 rev0 (Original Hole) MWD OWSG MWD - Standard 0.00

Summary					
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Warning Factor
Haynes Canyon Unit (420, 422, 424 & 426) Haynes Canyon Unit 420 H - Original Hole - rev0 Haynes Canyon Unit 420 H - Original Hole - rev0 Haynes Canyon Unit 422 H - Original Hole - rev0 Haynes Canyon Unit 422 H - Original Hole - rev0 Haynes Canyon Unit 424 H - Original Hole - rev1 Haynes Canyon Unit 424 H - Original Hole - rev1	500.00	500.00	65.41	62.28	20.854 CC, ES
	700.00	695.16	77.70	73.18	17.169 SF
	500.00	500.00	46.33	43.19	14.770 CC, ES
	700.00	697.50	57.34	52.80	12.633 SF
	500.00	500.00	28.19	25.05	8.986 CC, ES
	20,582.58	19,024.20	1,230.55	575.55	1.879 Level 3<2.00, SF
Haynes Canyon Unit (428,430,440 & 442) Haynes Canyon Unit 428H - Original Hole - rev0 Haynes Canyon Unit 428H - Original Hole - rev0 Haynes Canyon Unit 428H - Original Hole - rev0 Haynes Canyon Unit 440H - Orignal Hole - rev0 Haynes Canyon Unit 440H - Orignal Hole - rev0 Haynes Canyon Unit 440H - Orignal Hole - rev0	11,793.36	5,605.03	1,274.60	1,120.39	8.265 CC
	19,200.00	13,050.30	1,304.30	825.16	2.722 ES
	19,300.00	13,060.59	1,307.38	827.07	2.722 SF
	5,800.00	11,787.99	1,315.61	1,151.76	8.029 SF
	6,000.00	11,615.28	1,305.68	1,144.57	8.104 ES
	6,292.13	11,329.36	1,303.65	1,147.91	8.371 CC
Section 06-T23N-R06W NE Lybrook Com 263 H - Original Hole - rev2 NE Lybrook Com 263 H - Original Hole - rev2	5,900.00	15,786.04	365.05	108.28	1.422 Level 2<1.50, ES, SF
	6,078.26	15,786.04	319.37	158.38	1.984 Level 3<2.00, CC

Offset Des	sign: H	aynes Cany	on Unit (42	20, 422, 424	1 & 426) -	Haynes Ca	anyon Unit 420	H - Original	Hole - re	0			Offset Site Error:	0.00 ft
Survey Progr Refer Measured Depth (ft)	ram: 0 rence Vertical Depth (ft)	-MWD Off: Measured Depth (ft)	set Vertical Depth (ft)	Semi M Reference (ft)	Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbo +N/-S (ft)	re Centre +E/-W (ft)	Dis Between Centres (ft)	Rule Assi tance Between Ellipses (ft)	gned: Minimum Separation (ft)	Separation Factor	Offset Well Error: Warning	0.00 ft
0.00	0.00		0.00	0.00	0.00	-116.07	-28.74	-58.76	65.41					
100.00	100.00	100.00	100.00	0.13	0.13	-116.07	-28.74	-58.76	65.41	65.14	0.27	243.301		
200.00	200.00	200.00	200.00	0.49	0.49	-116.07	-28.74	-58.76	65.41	64.43	0.99	66.355		
300.00	300.00	300.00	300.00	0.85	0.85	-116.07	-28.74	-58.76	65.41	63.71	1.70	38.416		
400.00	400.00	400.00	400.00	1.21	1.21	-116.07	-28.74	-58.76	65.41	62.99	2.42	27.033		
500.00	500.00	500.00	500.00	1.57	1.57	-116.07	-28.74	-58.76	65.41	62.28	3.14	20.854 CC, ES	3	
600.00	599.95	598.36	598.32	1.93	1.91	-128.92	-31.27	-58.67	68.12	64.29	3.83	17.777		
700.00	699.63	695.16	694.82	2.29	2.24	-138.01	-38.70	-58.41	77.70	73.18	4.53	17.169 SF		
800.00	798.77	788.96	787.85	2.66	2.57	-148.41	-50.55	-58.01	96.82	91.60	5.23	18.529		
900.00	897.08	878.47	876.00	3.06	2.91	-157.10	-66.10	-57.47	126.77	120.87	5.91	21.463		
1,000.00	994.31	962.67	958.16	3.49	3.27	-163.40	-84.48	-56.83	167.17	160.62	6.55	25.522		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at Database: DT_Aug2923v16 Offset TVD Reference: Offset Datum

Survey Progi		ИWD								Rule Assi	gned:		Offset Well Error:	0.00 f
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi I Reference	Major Axis Offset	Highside	Offset Wellb	ore Centre	Dis Between	tance Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	Reference	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	warming	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
1,100.00	1,090.18	1,040.80	1,033.60	3.97	3.63	-167.77	-104.75	-56.13	216.96	209.81	7.15	30.349		
1,200.00	1,184.43	1,112.36	1,101.92	4.50	3.99	-170.81	-126.02	-55.40	275.06	267.35	7.70	35.701		
1,300.00	1,276.81	1,177.10	1,163.00	5.10	4.34	-172.95	-147.45	-54.66	340.43	332.22	8.21	41.462		
1,400.00	1,367.72	1,235.90	1,217.83	5.74	4.69	-174.73	-168.69	-53.92	411.12	402.45	8.66	47.455		
1,500.00	1,458.57	1,300.00	1,276.81	6.42	5.09	-176.31	-193.76	-53.05	484.22	475.05	9.17	52.808		
1,600.00	1,549.43	1,342.90	1,315.80	7.11	5.38	-177.18	-211.64	-52.44	559.10	549.63	9.48	59.007		
1,700.00	1,640.28	1,400.00	1,367.06	7.81	5.77	-178.17	-236.78	-51.57	635.93	626.00	9.94	63.999		
1,800.00	1,731.13	1,437.48	1,400.28	8.52	6.06	-178.73	-254.11	-50.97	714.22	704.01	10.21	69.963		
1,900.00	1,821.98	1,480.63	1,438.10	9.24	6.38	-179.32	-274.87	-50.25	794.03	783.49	10.55	75.273		
2,000.00	1,912.84	1,521.28	1,473.30	9.96	6.71	-179.81	-295.20	-49.55	875.17	864.30	10.87	80.485		
2,100.00	2,003.69	1,559.61	1,506.08	10.69	7.03	179.77	-315.05	-48.86	957.52	946.33	11.18	85.613		
2,200.00	2,094.54	1,600.00	1,540.18	11.42	7.36	179.36	-336.68	-48.11	1,040.98	1,029.45	11.52	90.325		
2,300.00	2,185.39	1,629.94	1,565.17	12.15	7.64	179.08	-353.17	-47.54	1,125.42	1,113.66	11.76	95.659		
2,400.00	2,276.25	1,662.24	1,591.82	12.89	7.93	178.79	-371.40	-46.91	1,210.80	1,198.77	12.04	100.585		
2,500.00	2,367.10	1,700.00	1,622.59	13.63	8.27	178.48	-393.28	-46.16	1,297.07	1,284.70	12.38	104.810		
2,600.00	2,457.95	1,721.78	1,640.13	14.37	8.48	178.31	-406.17	-45.71	1,384.05	1,371.50	12.55	110.281		
2,700.00	2,548.81	1,756.59	1,667.91	15.11	8.81	178.05	-427.13	-44.99	1,471.75	1,458.88	12.87	114.333		
2,800.00	2,639.66	1,804.19	1,705.84	15.86	9.28	177.73	-455.89	-43.99	1,559.60	1,546.26	13.34	116.924		
2,900.00	2,730.51	1,851.79	1,743.76	16.60	9.75	177.44	-484.64	-43.00	1,647.46	1,633.65	13.81	119.298		
3,000.00	2,821.36	1,899.40	1,781.68	17.35	10.23	177.19	-513.40	-42.01	1,735.33	1,721.04	14.28	121.488		
3,100.00	2,912.22	1,947.00	1,819.61	18.09	10.70	176.95	-542.15	-41.01	1,823.20	1,808.44	14.76	123.500		
3,200.00	3,003.07	1,994.60	1,857.53	18.84	11.18	176.74	-570.91	-40.02	1,911.08	1,895.84	15.24	125.363		
3,300.00	3,093.92	2,042.20	1,895.45	19.59	11.67	176.55	-599.66	-39.02	1,998.97	1,983.24	15.73	127.081		
3,400.00	3,184.77	2,089.81	1,933.37	20.33	12.15	176.37	-628.42	-38.03	2,086.86	2,070.64	16.22	128.677		
3,500.00	3,275.63	2,137.41	1,971.30	21.08	12.64	176.21	-657.18	-37.04	2,174.76	2,158.05	16.71	130.156		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at Database: DT_Aug2923v16

Offset TVD Reference: Offset Datum

Refer	ram: 0-N rence	/IWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi tance	gnea:		Offset Well Error:	0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft)	(ft) 0.00	(°) -122.11		-39.24	(ft) 46.33	(ft)	(ft)			
				0.00	0.00		-24.62	-39.24	46.33	46.06	0.27	170 014		
100.00	100.00	100.00	100.00	0.13		-122.11	-24.62					172.314		
200.00	200.00	200.00	200.00	0.49	0.49	-122.11	-24.62	-39.24	46.33	45.34	0.99	46.995		
300.00	300.00	300.00	300.00	0.85	0.85	-122.11	-24.62	-39.24	46.33	44.62	1.70	27.208		
400.00	400.00	400.00	400.00	1.21	1.21	-122.11	-24.62	-39.24	46.33	43.91	2.42	19.146		
500.00	500.00	500.00	500.00	1.57	1.57	-122.11	-24.62	-39.24	46.33	43.19	3.14	14.770 CC, E	<u>-</u> S	
600.00	599.95	599.48	599.44	1.93	1.91	-136.62	-26.96	-38.12	48.56	44.73	3.84	12.657		
700.00	699.63	697.50	697.14	2.29	2.25	-149.35	-33.82	-34.82	57.34	52.80	4.54	12.633 SF		
800.00	798.77	792.67	791.53	2.66	2.58	-162.65	-44.80	-29.55	76.07	70.82	5.25	14.491		
900.00	897.08	883.80	881.22	3.06	2.94	-172.56	-59.27	-22.60	105.84	99.90	5.23	17.808		
1,000.00	994.31	969.88	965.15	3.49	3.31	-172.30	-76.46	-14.34	145.81	139.20	6.60	22.078		
1,000.00	JJ4.J1	303.00	303.13	5.48	0.01	-173.13	-70.40	-14.54	140.01	100.20	0.00	22.070		
1,100.00	1,090.18	1,050.17	1,042.59	3.97	3.69	176.46	-95.56	-5.17	194.81	187.58	7.23	26.948		
1,200.00	1,184.43	1,124.17	1,113.12	4.50	4.07	173.41	-115.75	4.53	251.79	243.97	7.82	32.198		
1,300.00	1,276.81	1,191.61	1,176.59	5.10	4.44	171.14	-136.27	14.39	315.83	307.47	8.36	37.772		
1,400.00	1,367.72	1,253.28	1,233.90	5.74	4.82	169.67	-156.80	24.25	385.02	376.16	8.87	43.429		
1,500.00	1,458.57	1,311.35	1,287.17	6.42	5.20	168.59	-177.65	34.26	456.44	447.11	9.33	48.906		
.,	.,	.,	.,==											
1,600.00	1,549.43	1,366.09	1,336.71	7.11	5.58	167.70	-198.63	44.34	529.81	520.02	9.78	54.162		
1,700.00	1,640.28	1,417.70	1,382.79	7.81	5.96	166.95	-219.57	54.39	604.95	594.74	10.21	59.240		
1,800.00	1,731.13	1,466.36	1,425.65	8.52	6.34	166.30	-240.34	64.37	681.72	671.09	10.63	64.161		
1,900.00	1,821.98	1,500.00	1,454.93	9.24	6.60	165.87	-255.27	71.54	760.12	749.24	10.88	69.892		
2,000.00	1,912.84	1,555.60	1,502.67	9.96	7.09	165.21	-280.96	83.88	839.61	828.21	11.40	73.651		
2,100.00	2,003.69	1,600.00	1,540.18	10.69	7.47	164.72	-302.36	94.16	920.52	908.72	11.80	78.002		
2,200.00	2,094.54	1,635.21	1,569.54	11.42	7.81	164.35	-319.89	102.58	1,002.56	990.45	12.11	82.775		
2,300.00	2,185.39	1,671.80	1,599.65	12.15	8.15	163.98	-338.62	111.58	1,085.68	1,073.23	12.45	87.231		
2,400.00	2,276.25	1,700.00	1,622.59	12.89	8.42	163.70	-353.41	118.68	1,169.81	1,157.12	12.69	92.202		
2,500.00	2,367.10	1,739.24	1,654.09	13.63	8.83	163.33	-374.50	128.81	1,254.79	1,241.71	13.08	95.953		
2,600.00	2,457.95	1,770.35	1,678.73	14.37	9.15	163.04	-391.62	137.03	1,340.64	1,327.26	13.37	100.239		
2,700.00	2,548.81	1,799.89	1,701.83	15.11	9.46	162.78	-408.22	145.01	1,427.26	1,413.60	13.66	104.495		
2,800.00	2,639.66	1,848.93	1,739.94	15.86	9.99	162.37	-436.03	158.37	1,514.25	1,500.06	14.19	106.703		
2,900.00	2,730.51	1,897.96	1,778.05	16.60	10.52	162.00	-463.85	171.73	1,601.26	1,586.54	14.73	108.730		
3,000.00	2,821.36	1,947.00	1,816.16	17.35	11.07	161.68	-491.66	185.09	1,688.29	1,673.02	15.27	110.566		
0.400.00	0.040.00	4 000 04	4.054.07	40.00	44.04	404.00	540.40	100.45	4 775 00	4 750 50	45.04	440.000		
3,100.00	2,912.22	1,996.04	1,854.27	18.09	11.61	161.38	-519.48	198.45	1,775.33	1,759.52	15.81	112.260		
3,200.00	3,003.07	2,045.07	1,892.38	18.84	12.16	161.11	-547.29	211.81	1,862.38	1,846.02	16.36	113.803		
3,300.00	3,093.92	2,094.11	1,930.50	19.59	12.71	160.87	-575.11	225.17	1,949.44	1,932.52	16.92	115.231		
3,400.00	3,184.77	2,143.15	1,968.61	20.33	13.26	160.65	-602.92	238.53	2,036.51	2,019.03	17.48	116.538		
3,500.00	3,275.63	2,192.18	2,006.72	21.08	13.82	160.44	-630.74	251.89	2,123.58	2,105.55	18.03	117.751		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft Grid Minimum Curvature

Well Haynes Canyon Unit 426 H

Survey Calculation Method: 2.00 sigma Output errors are at

Database: DT_Aug2923v16 Offset TVD Reference: Offset Datum

Offset De	sign:	Haynes Cany	on Unit (42	20, 422, 424	4 & 426) -	Haynes Ca	nyon Unit 424	H - Original	Hole - rev	′ 1			Offset Site Error:	0.00 ft
Survey Progr	ram:	0-MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi N Reference	lajor Axis Offset	Highside	Offset Wellbo	re Centre	Dist 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) 0.00	(°)	(ft) -20.14	(ft) -19.72	(ft) 28.19	(ft)	(ft)			
0.00 100.00	0.0 100.0		0.00 100.00	0.00 0.13	0.00	-135.60 -135.60	-20.14 -20.14	-19.72	28.19	27.92	0.27	104.839		
200.00	200.0		200.00	0.13	0.49	-135.60	-20.14	-19.72	28.19	27.20	0.99	28.592		
300.00	300.0		300.00	0.45	0.45	-135.60	-20.14	-19.72	28.19	26.48	1.70	16.553		
400.00	400.0		400.00	1.21	1.21	-135.60	-20.14	-19.72	28.19	25.77	2.42	11.649		
500.00	500.0		500.00	1.57	1.57	-135.60	-20.14	-19.72	28.19	25.05	3.14	8.986 CC,	ES.	
000.00	000.0	0 000.00	000.00	1.07	1.07	-100.00	-20.14	-10.72	20.10	20.00	0.14	0.500 00,		
600.00	599.9		599.95	1.93	1.93	-147.62	-20.14	-19.72	30.36	26.51	3.85	7.878		
700.00	699.6		699.63	2.29	2.28	-154.00	-20.14	-19.72	37.23	32.65	4.58	8.134		
800.00	798.7		798.77	2.66	2.64	-160.54	-20.14	-19.72	49.30	44.00	5.30	9.298		
900.00	897.0		897.08	3.06	2.99	-165.62	-20.14	-19.72	66.78	60.75	6.03	11.077		
1,000.00	994.3	1 994.31	994.31	3.49	3.34	-169.19	-20.14	-19.72	89.60	82.84	6.75	13.269		
1,100.00	1,090.1	8 1,089.48	1,089.45	3.97	3.67	-172.71	-20.98	-17.80	117.90	110.44	7.46	15.801		
1,200.00	1,184.4	3 1,182.05	1,181.78	4.50	3.99	-176.79	-23.60	-11.85	152.27	144.12	8.16	18.672		
1,300.00	1,276.8	1 1,273.25	1,272.64	5.10	4.30	-179.91	-26.78	-4.61	192.33	183.48	8.85	21.727		
1,400.00	1,367.7	2 1,362.91	1,361.96	5.74	4.62	178.04	-29.91	2.51	236.07	226.53	9.55	24.726		
1,500.00	1,458.5	7 1,452.51	1,451.23	6.42	4.94	176.63	-33.03	9.62	280.11	269.87	10.24	27.361		
1,600.00	1,549.4	3 1,542.12	1,540.49	7.11	5.26	175.60	-36.16	16.73	324.24	313.31	10.94	29.641		
1,700.00	1,640.2		1,629.76	7.81	5.59	174.82	-39.29	23.84	368.44	356.79	11.65	31.628		
1,800.00	1,731.1		1,719.02	8.52	5.92	174.21	-42.41	30.95	412.69	400.32	12.37	33.368		
1,900.00	1,821.9		1,808.29	9.24	6.25	173.71	-45.54	38.06	456.96	443.87	13.09	34.903		
2,000.00	1,912.8	4 1,900.53	1,897.55	9.96	6.58	173.31	-48.66	45.17	501.25	487.43	13.82	36.265		
2,100.00	2,003.6	9 1,990.13	1,986.82	10.69	6.91	172.97	-51.79	52.28	545.57	531.01	14.56	37.479		
2,200.00	2,000.5		2,076.08	11.42	7.25	172.68	-54.91	59.39	589.89	574.60	15.30	38.567		
2,300.00	2,185.3		2,165.35	12.15	7.58	172.43	-58.04	66.50	634.23	618.19	16.04	39.547		
2,400.00	2,276.2		2,254.61	12.89	7.92	172.21	-61.17	73.61	678.57	661.79	16.78	40.434		
2,500.00	2,367.1		2,343.88	13.63	8.26	172.02	-64.29	80.72	722.93	705.40	17.53	41.240		
0.000.00	0.457.0	5 0 400 44	0.400.44	44.07	0.00	474.05	07.40	07.00	707.00	740.00	40.00	44.075		
2,600.00	2,457.9		2,433.14	14.37	8.60	171.85	-67.42	87.83	767.28	749.00	18.28	41.975		
2,700.00	2,548.8		2,522.41	15.11	8.93	171.70	-70.54	94.94	811.65	792.61	19.03	42.648		
2,800.00	2,639.6		2,611.67	15.86 16.60	9.27	171.57 171.44	-73.67	102.06 109.17	856.01 900.38	836.23 879.84	19.78	43.266 43.836		
2,900.00	2,730.5		2,700.94		9.61		-76.80				20.54			
3,000.00	2,821.3	6 2,796.55	2,790.20	17.35	9.95	171.33	-79.92	116.28	944.75	923.46	21.30	44.362		
3,100.00	2,912.2	2 2,886.15	2,879.47	18.09	10.29	171.23	-83.05	123.39	989.13	967.07	22.05	44.850		
3,200.00	3,003.0	7 2,975.75	2,968.73	18.84	10.63	171.14	-86.17	130.50	1,033.51	1,010.69	22.81	45.303		
3,300.00	3,093.9	2 3,065.36	3,058.00	19.59	10.97	171.06	-89.30	137.61	1,077.88	1,054.31	23.57	45.725		
3,400.00	3,184.7	7 3,154.96	3,147.26	20.33	11.32	170.98	-92.42	144.72	1,122.27	1,097.93	24.33	46.119		
3,500.00	3,275.6	3 3,244.56	3,236.53	21.08	11.66	170.91	-95.55	151.83	1,166.65	1,141.55	25.10	46.488		
3,600.00	3,366.4	8 3,334.16	3,325.79	21.83	12.00	170.84	-98.68	158.94	1,211.03	1,185.17	25.86	46.833		
3,700.00	3,457.3		3,415.06	22.58	12.34	170.78	-101.80	166.05	1,255.42	1,228.79	26.62	47.157		
3,800.00	3,548.1		3,504.32	23.33	12.68	170.73	-104.93	173.16	1,299.80	1,272.42	27.39	47.462		
3,900.00	3,639.0		3,593.59	24.08	13.03	170.67	-108.05	180.27	1,344.19	1,316.04	28.15	47.749		
4,000.00	3,729.8		3,682.85	24.83	13.37	170.62	-111.18	187.38	1,388.58	1,359.66	28.92	48.020		
4,100.00	3,820.7	4 3,782.17	3,772.12	25.58	13.71	170.57	-114.30	194.49	1,432.97	1,403.28	29.68	48.276		
4,200.00	3,911.5		3,861.38	26.33	14.05	170.57	-117.43	201.60	1,432.97	1,446.91	30.45	48.518		
4,300.00	4,002.4		3,950.65	27.08	14.05	170.53	-117.43	201.60	1,521.75	1,446.91	31.22	48.748		
4,400.00	4,002.4		4,040.24	27.08	14.40	170.49	-120.56	208.72	1,565.45	1,533.47	31.22	48.748 48.947		
4,500.00	4,186.6		4,131.73	28.51	15.09	170.57	-126.90	223.14	1,604.96	1,572.21	32.75	49.010		
	4004 -													
4,600.00	4,281.3		4,225.11	29.13	15.45	170.79	-130.17	230.58	1,639.67	1,606.16	33.51	48.932		
4,700.00	4,377.7		4,320.12	29.68	15.82	170.81	-133.49	238.15	1,669.49	1,635.23	34.26	48.723		
4,800.00	4,475.2		4,461.77	30.16	16.34	170.84	-136.73	245.52	1,693.25	1,657.91	35.34	47.915		
4,900.00 5,000.00	4,573.8 4,673.2		4,573.89 4,673.22	30.57 30.92	16.72 17.04	171.01 171.12	-136.89 -136.89	245.87 245.87	1,709.78 1,721.08	1,673.66 1,684.31	36.12 36.78	47.342 46.800		
0,000.00	7,010.2	,000.01		30.32	17.04	17 1.12	-100.03	2-3.07	1,721.00	1,004.01	30.70	40.000		
5,100.00	4,773.0	1 4,785.40	4,773.01	31.19	17.37	171.18	-136.89	245.87	1,727.24	1,689.82	37.42	46.163		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:
Output errors are at

Database: Offset TVD Reference: Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Minimum Curvature 2.00 sigma

DT_Aug2923v16 Offset Datum

rvey Progr		MWD		0	-1 41-		Off4 W-III-	0	Di-	Rule Assi	gned:		Offset Well Error:	0.00 f
Refer Measured Depth (ft)	rence Vertical Depth (ft)	Offs Measured Depth (ft)	vertical Depth (ft)	Reference (ft)	ajor Axis Offset (ft)	Highside Toolface (°)	Offset Wellbo	+E/-W (ft)	Between Centres (ft)	ance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
5,200.00	4,873.00	4,885.39	4,873.00	31.40	17.71	-179.60	-136.89	245.87	1,728.47	1,690.43	38.04	45.439		
5,300.00	4,972.98	4,950.00	4,937.60	31.58	17.93	45.40	-137.29	246.27	1,728.65	1,690.24	38.41	45.010		
5,400.00	5,071.86	4,975.98	4,963.52	31.68	18.02	45.86	-138.53	247.51	1,723.07	1,684.66	38.41	44.859		
5,500.00	5,166.80	5,000.00	4,987.39	31.68	18.11	46.96	-140.41	249.39	1,709.41	1,671.11	38.30	44.627		
5,600.00	5,254.90	5,050.00	5,036.61	31.57	18.32	49.01	-146.58	255.56	1,687.95	1,649.54	38.41	43.949		
5,700.00	5,333.50	5,069.24	5,055.31	31.38	18.41	51.56	-149.76	258.74	1,659.09	1,620.91	38.18	43.450		
5,800.00	5,400.20	5,100.00	5,084.88	31.13	18.54	55.07	-155.76	264.74	1,623.91	1,585.78	38.13	42.589		
5,900.00	5,453.72	5,126.30	5,109.76	30.82	18.67	58.11	-161.77	270.75	1,583.74	1,545.61	38.14	41.527		
6,000.00	5,499.83	5,150.00	5,131.83	30.52	18.79	61.37	-167.88	276.86	1,543.39	1,505.16	38.24	40.364		
6,100.00	5,530.54	5,180.66	5,159.81	30.21	18.95	66.54	-176.73	285.71	1,499.89	1,461.20	38.69	38.764		
6,200.00	5,544.27	5,200.00	5,177.11	29.91	19.05	71.94	-182.85	291.83	1,454.52	1,415.22	39.30	37.011		
6,300.00	5,544.63	5,225.56	5,199.50	29.62	19.19	74.47	-191.56	300.55	1,409.94	1,369.62	40.32	34.970		
6,400.00	5,544.09	5,250.00	5,220.37	29.37	19.33	75.38	-200.55	309.53	1,370.15	1,328.64	41.52	33.003		
6,500.00	5,543.54	5,277.79	5,243.43	29.15	19.50	76.40	-211.52	320.50	1,335.64	1,292.69	42.95	31.097		
6,600.00	5,543.00	5,300.00	5,261.29	28.96	19.64	77.19	-220.85	329.83	1,306.62	1,262.18	44.45	29.398		
6,700.00	5,542.46	5,350.00	5,299.55	28.80	19.97	78.90	-243.60	352.58	1,282.91	1,236.41	46.50	27.591		
6,800.00	5,541.91	5,400.00	5,334.86	30.10	20.34	80.50	-268.61	377.59	1,264.58	1,215.95	48.63	26.004		
6,900.00	5,541.37	5,450.00	5,366.95	31.62	20.74	81.97	-295.71	404.69	1,251.14	1,200.33	50.81	24.624		
7,000.00	5,540.83	5,505.86	5,398.70	33.21	21.23	83.43	-328.19	437.17	1,242.03	1,188.92	53.11	23.385		
7,100.00	5,540.28	5,586.38	5,439.21	34.88	22.02	85.32	-377.39	486.37	1,236.21	1,180.37	55.84	22.138		
7,200.00	5,539.74	5,663.44	5,472.91	36.60	22.86	86.90	-426.35	535.33	1,232.82	1,174.25	58.57	21.048		
7,300.00	5,539.20	5,750.00	5,499.31	38.38	23.92	88.15	-484.58	593.56	1,231.39	1,169.88	61.50	20.021		
7,400.00	5,538.65	5,843.51	5,513.55	40.21	25.17	88.83	-549.85	658.83	1,230.96	1,166.34	64.62	19.049		
7,500.00	5,538.11	5,941.63	5,514.73	42.08	26.59	88.91	-619.21	728.19	1,230.92	1,163.04	67.88	18.132		
7,513.11 7,600.00	5,538.04 5,537.56	5,954.73 6,041.63	5,514.66 5,514.23	42.33 43.99	26.79 28.14	88.91 88.91	-628.48 -689.92	737.46 798.90	1,230.92 1,230.92	1,162.59 1,159.60	68.33 71.32	18.015 17.259		
7,700.00	5,537.02	6,141.63	5,513.73	45.93	29.79	88.92	-760.63	869.61	1,230.92	1,156.02	74.89	16.435		
7,800.00	5,536.48	6,241.63	5,513.23	47.89	31.52	88.92	-831.34	940.32	1,230.91	1,152.33	78.58	15.664		
7,900.00	5,535.93	6,341.63	5,512.74	49.89	33.32	88.92	-902.05	1,011.03	1,230.91	1,148.54	82.37	14.943		
8,000.00	5,535.39	6,441.63	5,512.24	51.91	35.18	88.92	-972.76	1,081.74	1,230.91	1,144.66	86.25	14.272		
8,100.00	5,534.85	6,541.63	5,511.74	53.95	37.09	88.92	-1,043.47	1,152.45	1,230.91	1,140.71	90.19	13.647		
8,200.00	5,534.30	6,641.63	5,511.24	56.01	39.04	88.93	-1,114.17	1,223.16	1,230.90	1,136.70	94.21	13.066		
8,300.00	5,533.76	6,741.63	5,510.74	58.08	41.03	88.93	-1,184.88	1,293.87	1,230.90	1,132.63	98.27	12.525		
8,400.00	5,533.22	6,841.63	5,510.24	60.17	43.05	88.93	-1,255.59	1,364.58	1,230.90	1,128.51	102.39	12.022		
8,500.00	5,532.67	6,941.63	5,509.74	62.28	45.09	88.93	-1,326.30	1,435.29	1,230.89	1,124.35	106.54	11.553		
8,600.00	5,532.13	7,041.63	5,509.24	64.40	47.16	88.93	-1,397.01	1,506.00	1,230.89	1,120.15	110.74	11.115		
8,700.00	5,531.59	7,141.63	5,508.75	66.52	49.26	88.94	-1,467.72	1,576.71	1,230.89	1,115.92	114.96	10.707		
8,800.00	5,531.04	7,241.63	5,508.25	68.66	51.37	88.94	-1,538.43	1,647.42	1,230.88	1,111.66	119.22	10.324		
8,900.00	5,530.50	7,341.63	5,507.75	70.81	53.49	88.94	-1,609.14	1,718.13	1,230.88	1,107.38	123.50	9.966		
9,000.00	5,529.96	7,441.63	5,507.25	72.97	55.63	88.94	-1,679.85	1,788.84	1,230.88	1,103.07	127.81	9.631		
9,100.00	5,529.41	7,541.63	5,506.75	75.14	57.79	88.95	-1,750.56	1,859.55	1,230.88	1,098.74	132.13	9.315		
9,200.00	5,528.87	7,641.63	5,506.25	77.31	59.95	88.95	-1,821.27	1,930.26	1,230.87	1,094.39	136.48	9.019		
9,300.00	5,528.32	7,741.63	5,505.75	79.49	62.13	88.95	-1,891.98	2,000.97	1,230.87	1,090.03	140.84	8.739		
9,400.00	5,527.78	7,841.63	5,505.26	81.68	64.31	88.95	-1,962.69	2,071.68	1,230.87	1,085.65	145.22	8.476		
9,500.00	5,527.24	7,941.63	5,504.76	83.87	66.50	88.95	-2,033.40	2,142.39	1,230.86	1,081.25	149.61	8.227		
9,600.00	5,526.69	8,041.63	5,504.26	86.07	68.70	88.96	-2,104.11	2,213.10	1,230.86	1,076.84	154.02	7.992		
9,700.00	5,526.15	8,141.63	5,503.76	88.28	70.91	88.96	-2,174.82	2,283.81	1,230.86	1,072.42	158.43	7.769		
9,800.00	5,525.61	8,241.63	5,503.26	90.49	73.12	88.96	-2,245.53	2,354.52	1,230.85	1,067.99	162.86	7.558		
9,900.00	5,525.06	8,341.63	5,502.76	92.70	75.34	88.96	-2,316.24	2,425.23	1,230.85	1,063.55	167.30	7.357		
10,000.00 10,100.00	5,524.52 5,523.98	8,441.63 8,541.63	5,502.26 5,501.76	94.92 97.14	77.56 79.79	88.96 88.97	-2,386.94 -2,457.65	2,495.94 2,566.66	1,230.85 1,230.85	1,059.10 1,054.65	171.75 176.20	7.167 6.986		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
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Grid

Minimum Curvature 2.00 sigma DT_Aug2923v16

Offset Datum

Offset Des	sign: Ha	ynes Cany	on Unit (42	20, 422, 424	& 426) -	Haynes Ca	nyon Unit 424	H - Origina	I Hole - rev	1			Offset Site Error:	0.00 ff
Survey Progra Refer		MWD Off	set	Semi M	ajor Axis		Offset Wellbe	ore Centre	Dist	Rule Assi	gned:		Offset Well Error:	0.00 fi
Measured Depth	Vertical Depth (ft)	Measured Depth	Vertical Depth (ft)	Reference	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
(ft) 10,300.00	5,522.89	(ft) 8,741.63	5,500.77	(ft) 101.59	(ft) 84.25	(°) 88.97	-2,599.07	2,708.08	(ft) 1,230.84	1,045.71	185.13	6.648		
10,400.00	5,522.35	8,841.63	5,500.27	103.82	86.49	88.97	-2,669.78	2,778.79	1,230.84	1,041.23	189.61	6.491		
10,500.00	5,521.80	8,941.63	5,499.77	106.06	88.73	88.97	-2,740.49	2,849.50	1,230.83	1,036.74	194.09	6.342		
10,600.00	5,521.26	9,041.63	5,499.27	108.29	90.98	88.98	-2,811.20	2,920.21	1,230.83	1,032.25	198.58	6.198		
10,700.00	5,520.72	9,141.63	5,498.77	110.53	93.23	88.98	-2,881.91	2,990.92	1,230.83	1,027.76	203.07	6.061		
10,800.00	5,520.17	9,241.63	5,498.27	112.78	95.48	88.98	-2,952.62	3,061.63	1,230.83	1,023.25	207.57	5.930		
10,900.00	5,519.63	9,341.63	5,497.78	115.02	97.73	88.98	-3,023.33	3,132.34	1,230.82	1,018.75	212.08	5.804		
11,000.00	5,519.08	9,441.63	5,497.28	117.27	99.99	88.98	-3,094.04	3,203.05	1,230.82	1,014.24	216.58	5.683		
11,100.00	5,518.54	9,541.63	5,496.78	119.52	102.25	88.99	-3,164.75	3,273.76	1,230.82	1,009.72	221.10	5.567		
11,200.00	5,518.00	9,641.63	5,496.28	121.77	104.51	88.99	-3,235.46	3,344.47	1,230.81	1,005.20	225.61	5.455		
11,300.00	5,517.45	9,741.63	5,495.78	124.02	106.77	88.99	-3,306.17	3,415.18	1,230.81	1,000.68	230.13	5.348		
11,400.00	5,516.91	9,841.63	5,495.28	126.27	109.03	88.99	-3,376.88	3,485.89	1,230.81	996.15	234.65	5.245		
11,500.00	5,516.37	9,941.63	5,494.78	128.53	111.30	89.00	-3,447.59	3,556.60	1,230.81	991.63	239.18	5.146		
11,600.00	5,515.82	10,041.63	5,494.28	130.79	113.57	89.00	-3,518.30	3,627.31	1,230.80	987.09	243.71	5.050		
11,700.00	5,515.28	10,141.63	5,493.79	133.05	115.84	89.00	-3,589.01	3,698.02	1,230.80	982.56	248.24	4.958		
11,800.00	5,514.74	10,241.63	5,493.29	135.31	118.11	89.00	-3,659.71	3,768.73	1,230.80	978.02	252.78	4.869		
11,900.00	5,514.19	10,341.63	5,492.79	137.57	120.38	89.00	-3,730.42	3,839.44	1,230.79	973.48	257.31	4.783		
12,000.00	5,513.65	10,441.63	5,492.29	139.84	122.65	89.01	-3,801.13	3,910.15	1,230.79	968.94	261.85	4.700		
12,100.00	5,513.11	10,541.63	5,491.79	142.10	124.92	89.01	-3,871.84	3,980.86	1,230.79	964.39	266.40	4.620		
12,200.00	5,512.56	10,641.63	5,491.29	144.37	127.20	89.01	-3,942.55	4,051.57	1,230.79	959.84	270.94	4.543		
12,300.00	5,512.02	10,741.63	5,490.79	146.63	129.47	89.01	-4,013.26	4,122.28	1,230.78	955.29	275.49	4.468		
12,400.00	5,511.48	10,841.63	5,490.30	148.90	131.75	89.01	-4,083.97	4,192.99	1,230.78	950.74	280.04	4.395		
12,500.00	5,510.93	10,941.63	5,489.80	151.17	134.03	89.02	-4,154.68	4,263.70	1,230.78	946.19	284.59	4.325		
12,600.00	5,510.39	11,041.63	5,489.30	153.44	136.31	89.02	-4,225.39	4,334.41	1,230.77	941.63	289.14	4.257		
12,700.00	5,509.84	11,141.63	5,488.80	155.71	138.59	89.02	-4,296.10	4,405.12	1,230.77	937.08	293.69	4.191		
12,800.00	5,509.30	11,241.63	5,488.30	157.99	140.87	89.02	-4,366.81	4,475.83	1,230.77	932.52	298.25	4.127		
12,900.00	5,508.76	11,341.63	5,487.80	160.26	143.15	89.02	-4,437.52	4,546.54	1,230.76	927.96	302.81	4.065		
13,000.00	5,508.21	11,441.63	5,487.30	162.53	145.43	89.03	-4,508.23	4,617.25	1,230.76	923.40	307.36	4.004		
13,100.00	5,507.67	11,541.63	5,486.80	164.81	147.72	89.03	-4,578.94	4,687.96	1,230.76	918.83	311.92	3.946		
13,200.00	5,507.13	11,641.63	5,486.31	167.09	150.00	89.03	-4,649.65	4,758.67	1,230.76	914.27	316.49	3.889		
13,300.00	5,506.58	11,741.63	5,485.81	169.36	152.28	89.03	-4,720.36	4,829.38	1,230.75	909.70	321.05	3.834		
13,400.00	5,506.04	11,841.63	5,485.31	171.64	154.57	89.03	-4,791.07	4,900.09	1,230.75	905.14	325.61	3.780		
13,500.00	5,505.50	11,941.63	5,484.81	173.92	156.85	89.04	-4,861.77	4,970.80	1,230.75	900.57	330.18	3.728		
13,600.00	5,504.95	12,041.63	5,484.31	176.20	159.14	89.04	-4,932.48	5,041.51	1,230.74	896.00	334.75	3.677		
13,700.00	5,504.41	12,141.63	5,483.81	178.48	161.42	89.04	-5,003.19	5,112.22	1,230.74	891.43	339.31	3.627		
13,800.00	5,503.87	12,241.63	5,483.31	180.76	163.71	89.04	-5,073.90	5,182.93	1,230.74	886.86	343.88	3.579		
13,900.00	5,503.32	12,341.63	5,482.82	183.04	166.00	89.05	-5,144.61	5,253.64	1,230.74	882.29	348.45	3.532		
14,000.00	5,502.78	12,441.63	5,482.32	185.32	168.29	89.05	-5,215.32	5,324.35	1,230.73	877.71	353.02	3.486		
14,100.00	5,502.24	12,541.63	5,481.82	187.60	170.58	89.05	-5,286.03	5,395.06	1,230.73	873.14	357.59	3.442		
14,200.00	5,501.69	12,641.63	5,481.32	189.88	172.86	89.05	-5,356.74	5,465.77	1,230.73	868.56	362.17	3.398		
14,300.00	5,501.15	12,741.63	5,480.82	192.16	175.15	89.05	-5,427.45	5,536.48	1,230.72	863.99	366.74	3.356		
14,400.00	5,500.60	12,841.63	5,480.32	194.45	177.44	89.06	-5,498.16	5,607.19	1,230.72	859.41	371.31	3.315		
14,500.00	5,500.06	12,941.63	5,479.82	196.73	179.73	89.06	-5,568.87	5,677.90	1,230.72	854.83	375.89	3.274		
14,600.00	5,499.52	13,041.63	5,479.32	199.02	182.02	89.06	-5,639.58	5,748.61	1,230.72	850.25	380.46	3.235		
14,700.00 14,800.00	5,498.97 5,498.43	13,141.63 13,241.63	5,478.83 5,478.33	201.30 203.59	184.31 186.60	89.06 89.06	-5,710.29 -5,781.00	5,819.32 5,890.03	1,230.71 1,230.71	845.67 841.09	385.04 389.62	3.196 3.159		
14,900.00	5,497.89	13,341.63	5,477.83	205.87	188.90	89.07	-5,851.71	5,960.74	1,230.71	836.51	394.20	3.122		
15,000.00	5,497.89	13,341.63	5,477.83	205.87	191.19	89.07 89.07	-5,851.71 -5,922.42	6,031.45	1,230.71	831.93	394.20	3.122		
15,100.00	5,496.80	13,541.63	5,476.83	210.44	193.48	89.07	-5,993.13	6,102.16	1,230.70	827.35	403.35	3.051		
15,200.00	5,496.26	13,641.63	5,476.33	212.73	195.46	89.07	-6,063.84	6,172.87	1,230.70	822.77	403.33	3.031		
15,200.00	5,495.26	13,741.63	5,475.83	212.73	198.06	89.07	-6,134.54	6,243.58	1,230.70	818.18	412.51	2.983		
15,400.00	5,495.17	13,841.63	5,475.34	217.31	200.36	89.08	-6,205.25	6,314.29	1,230.69	813.60	417.10	2.951		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at DT_Aug2923v16 Database: Offset TVD Reference: Offset Datum

	g		on onit (42	20, 422, 424	α 420) -	паупез Са	nyon Unit 424	n - Origina	i noie - lev				Offset Site Error:	0.00 f
urvey Progra Refer		MWD Off	set	Semi M	aior Axis		Offset Wellb	ore Centre	Dist	Rule Assi ance	gned:		Offset Well Error:	0.00 f
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)			
15,500.00	5,494.63	13,941.63	5,474.84	219.59	202.65	89.08	-6,275.96	6,385.00	1,230.69	809.01	421.68	2.919		
15,600.00	5,494.08	14,041.63	5,474.34	221.88	204.94	89.08	-6,346.67	6,455.71	1,230.69	804.43	426.26	2.887		
15,700.00	5,493.54	14,141.63	5,473.84	224.17	207.24	89.08	-6,417.38	6,526.42	1,230.68	799.84	430.84	2.856		
15,800.00	5,493.00	14,241.63	5,473.34	226.46	209.53	89.08	-6,488.09	6,597.13	1,230.68	795.26	435.43	2.826		
15,900.00	5,492.45	14,341.63	5,472.84	228.75	211.83	89.09	-6,558.80	6,667.84	1,230.68	790.67	440.01	2.797		
16,000.00	5,491.91	14,441.63	5,472.34	231.04	214.12	89.09	-6,629.51	6,738.55	1,230.68	786.08	444.59	2.768		
16,100.00	5,491.36	14,541.63	5,471.84	233.33	216.42	89.09	-6,700.22	6,809.26	1,230.67	781.50	449.18	2.740		
16,200.00	5,490.82	14,641.63	5,471.35	235.62	218.71	89.09	-6,770.93	6,879.97	1,230.67	776.91	453.76	2.712		
16,300.00	5,490.28	14,741.63	5,470.85	237.91	221.01	89.10	-6,841.64	6,950.68	1,230.67	772.32	458.35	2.685		
16,400.00	5,489.73	14,841.63	5,470.35	240.20	223.30	89.10	-6,912.35	7,021.39	1,230.67	767.73	462.94	2.658		
16,500.00	5,489.19	14,941.63	5,469.85	242.49	225.60	89.10	-6,983.06	7,092.10	1,230.66	763.14	467.52	2.632		
16,600.00	5,488.65	15,041.63	5,469.35	244.78	227.89	89.10	-7,053.77	7,162.81	1,230.66	758.55	472.11	2.607		
16,700.00	5,488.10	15,141.63	5,468.85	247.07	230.19	89.10	-7,124.48	7,233.53	1,230.66	753.96	476.70	2.582		
16,800.00	5,487.56	15,241.63	5,468.35	249.36	232.48	89.11	-7,195.19	7,304.24	1,230.65	749.37	481.28	2.557		
16,900.00	5,487.02	15,341.63	5,467.86	251.66	234.78	89.11	-7,265.90	7,374.95	1,230.65	744.78	485.87	2.533		
17,000.00	5,486.47	15,441.63	5,467.36	253.95	237.08	89.11	-7,336.61	7,445.66	1,230.65	740.19	490.46	2.509		
17,100.00	5,485.93	15,541.63	5,466.86	256.24	239.37	89.11	-7,407.31	7,516.37	1,230.65	735.60	495.05	2.486		
17,200.00	5,485.39	15,641.63	5,466.36	258.53	241.67	89.11	-7,478.02	7,587.08	1,230.64	731.00	499.64	2.463		
17,300.00	5,484.84	15,741.63	5,465.86	260.83	243.97	89.12	-7,548.73	7,657.79	1,230.64	726.41	504.23	2.441		
17,400.00	5,484.30	15,841.63	5,465.36	263.12	246.26	89.12	-7,619.44	7,728.50	1,230.64	721.82	508.82	2.419		
17,500.00	5,483.75	15,941.63	5,464.86	265.41	248.56	89.12	-7,690.15	7,799.21	1,230.63	717.23	513.41	2.397		
17,600.00	5,483.21	16,041.63	5,464.36	267.70	250.86	89.12	-7,760.86	7,869.92	1,230.63	712.63	518.00	2.376		
17,700.00	5,482.67	16,141.63	5,463.87	270.00	253.15	89.12	-7,831.57	7,940.63	1,230.63	708.04	522.59	2.355		
17,800.00	5,482.12	16,241.63	5,463.37	272.29	255.45	89.13	-7,902.28	8,011.34	1,230.63	703.45	527.18	2.334		
17,900.00	5,481.58	16,341.63	5,462.87	274.59	257.75	89.13	-7,972.99	8,082.05	1,230.62	698.85	531.77	2.314		
18,000.00	5,481.04	16,441.63	5,462.37	276.88	260.05	89.13	-8,043.70	8,152.76	1,230.62	694.26	536.36	2.294		
18,100.00	5,480.49	16,541.63	5,461.87	279.17	262.34	89.13	-8,114.41	8,223.47	1,230.62	689.67	540.95	2.275		
18,200.00	5,479.95	16,641.63	5,461.37	281.47	264.64	89.14	-8,185.12	8,294.18	1,230.61	685.07	545.54	2.256		
18,300.00	5,479.41	16,741.63	5,460.87	283.76	266.94	89.14	-8,255.83	8,364.89	1,230.61	680.48	550.14	2.237		
18,400.00	5,478.86	16,841.63	5,460.38	286.06	269.24	89.14	-8,326.54	8,435.60	1,230.61	675.88	554.73	2.218		
18,500.00	5,478.32	16,941.63	5,459.88	288.35	271.54	89.14	-8,397.25	8,506.31	1,230.61	671.29	559.32	2.200		
18,600.00	5,477.78	17,041.63	5,459.38	290.65	273.84	89.14	-8,467.96	8,577.02	1,230.60	666.69	563.91	2.182		
18,700.00	5,477.23	17,141.63	5,458.88	292.94	276.13	89.15	-8,538.67	8,647.73	1,230.60	662.09	568.51	2.165		
18,800.00	5,476.69	17,141.63	5,458.38	295.24	278.43	89.15	-8,609.38	8,718.44	1,230.60	657.50	573.10	2.103		
18,900.00	5,476.15	17,341.63	5,457.88	297.53	280.73	89.15	-8,680.08	8,789.15	1,230.60	652.90	577.69	2.130		
19,000.00	5,475.60	17,441.63	5,457.38	299.83	283.03	89.15	-8,750.79	8,859.86	1,230.59	648.31	582.29	2.113		
19,100.00	5,475.06	17,541.63	5,456.89	302.13	285.33	89.15	-8,821.50	8,930.57	1,230.59	643.71	586.88	2.097		
19,200.00	5,474.51	17,641.63	5,456.39	304.42	287.63	89.16	-8,892.21	9,001.28	1,230.59	639.11	591.47	2.081		
19,300.00	5,473.97	17,741.63	5,455.89	306.72	289.93	89.16	-8,962.92	9,071.99	1,230.58	634.52	596.07	2.065		
19,400.00	5,473.43	17,841.63	5,455.39	309.01	292.23	89.16	-9,033.63	9,142.70	1,230.58	629.92	600.66	2.049		
19,500.00	5,472.88	17,941.63	5,454.89	311.31	294.53	89.16	-9,104.34	9,213.41	1,230.58	625.32	605.26	2.033		
19,600.00	5,472.34	18,041.63	5,454.39	313.61	296.83	89.16	-9,175.05	9,284.12	1,230.58	620.73	609.85	2.018		
19,700.00	5,471.80	18,141.63	5,453.89	315.90	299.13	89.17	-9,245.76	9,354.83	1,230.57	616.13	614.45	2.003		
19,800.00	5,471.25	18,241.63	5,453.39	318.20	301.42	89.17	-9,316.47	9,425.54	1,230.57	611.53	619.04	1.988 Leve	el 3<2.00	
19,900.00	5,470.71	18,341.63	5,452.90	320.50	303.72	89.17	-9,387.18	9,496.25	1,230.57	606.93	623.64	1.973 Leve	el 3<2.00	
20,000.00	5,470.17	18,441.63	5,452.40	322.79	306.02	89.17	-9,457.89	9,566.96	1,230.56	602.33	628.23	1.959 Leve	el 3<2.00	
20,100.00	5,469.62	18,541.63	5,451.90	325.09	308.32	89.17	-9,528.60	9,637.67	1,230.56	597.74	632.83	1.945 Leve	el 3<2.00	
20,200.00	5,469.08	18,641.63	5,451.40	327.39	310.62	89.18	-9,599.31	9,708.38	1,230.56	593.14	637.42	1.931 Leve		
20,300.00	5,468.54	18,741.63	5,450.90	329.68	312.92	89.18	-9,670.02	9,779.09	1,230.56	588.54	642.02	1.917 Leve		
20,400.00	5,467.99	18,841.63	5,450.40	331.98	315.22	89.18	-9,740.73	9,849.80	1,230.55	583.94	646.61	1.903 Leve		
20,500.00	5,467.45	18,941.63	5,449.90	334.28	317.52	89.18	-9,811.44	9,920.51	1,230.55	579.34	651.21	1.890 Leve		
20,582.58	5,467.00	19,024.20	5,449.49	336.18	319.42	89.18	-9,869.82	9,978.90	1,230.55	575.55	655.00	1.879 Leve	el 3<2.00, SF	



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Output errors are at

Database: Offset TVD Reference: Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Minimum Curvature 2.00 sigma DT_Aug2923v16 Offset Datum



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft Grid Minimum Curvature

Well Haynes Canyon Unit 426 H

Survey Calculation Method: 2.00 sigma Output errors are at DT_Aug2923v16 Database: Offset TVD Reference: Offset Datum

													Offset Site Error:	0.00 f
urvey Progra Refer		MWD Off	set	Semi M	aior Axis		Offset Wellb	ore Centre	Dist	Rule Assi ance	gned:		Offset Well Error:	0.00 f
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)			
9,800.00	5,525.61	5,222.91	5,025.36	90.49	25.75	-71.16	-1,755.31	5,380.70	2,232.56	2,161.15	71.40	31.267		
9,900.00	5,525.06	5,228.20	5,030.50	92.70	25.76	-71.37	-1,756.11	5,381.63	2,152.93	2,079.01	73.92	29.123		
10,000.00	5,524.52	5,250.00	5,051.58	94.92	25.81	-72.25	-1,759.76	5,385.82	2,075.26	1,998.52	76.74	27.044		
10,100.00 10,200.00	5,523.98 5,523.43	5,250.00 5,250.00	5,051.58 5,051.58	97.14 99.36	25.81 25.81	-72.25 -72.25	-1,759.76 -1,759.76	5,385.82 5,385.82	1,999.07 1,925.06	1,919.36 1,842.13	79.71 82.93	25.079 23.213		
10,300.00	5,522.89	5,250.00	5,051.58	101.59	25.81	-72.25	-1,759.76	5,385.82	1,853.50	1,767.09	86.41	21.450		
10,400.00	5,522.35	5,250.00	5,051.58	103.82	25.81	-72.25	-1,759.76	5,385.82	1,784.67	1,694.53	90.15	19.798		
10,500.00	5,521.80	5,271.65	5,072.29	106.06	25.85	-73.11	-1,763.89	5,390.58	1,718.47 1,655.66	1,624.23	94.24	18.234		
10,600.00 10,700.00	5,521.26 5,520.72	5,281.69 5,300.00	5,081.82 5,099.02	108.29 110.53	25.87 25.91	-73.52 74.25	-1,765.99 -1,770.08	5,392.99 5,397.70		1,557.11 1,493.34	98.55	16.801 15.481		
10,700.00	5,520.72	5,300.00	5,099.02	112.78	25.91	-74.25 -74.25	-1,770.08	5,397.70	1,596.47 1,541.17	1,493.34	103.13 107.84	14.291		
10,900.00	5,519.63	5,319.64	5,117.26	115.02	25.94	-75.03	-1,774.88	5,403.22	1,490.21	1,377.39	112.83	13.208		
11,000.00	5,519.08	5,350.00	5,144.91	117.27	26.00	-76.22	-1,783.08	5,412.66	1,444.18	1,326.20	117.99	12.240		
11,100.00	5,518.54	5,350.00	5,144.91	119.52	26.00	-76.22	-1,783.08	5,412.66	1,402.95	1,279.88	123.07	11.400		
11,200.00	5,518.00	5,375.37	5,167.49	121.77	26.05	-77.20 79.14	-1,790.67	5,421.39	1,367.31	1,239.05	128.26	10.661		
11,300.00	5,517.45	5,400.00	5,188.90	124.02	26.09	-78.14	-1,798.65	5,430.58	1,337.42	1,204.10	133.33	10.031		
11,400.00	5,516.91	5,428.82	5,213.26	126.27	26.14	-79.22	-1,808.75	5,442.20	1,313.45	1,175.24	138.21	9.503		
11,500.00	5,516.37	5,462.83	5,240.96	128.53	26.20	-80.46	-1,821.69	5,457.08	1,295.43	1,152.61	142.82	9.070		
11,600.00	5,515.82	5,500.00	5,269.85	130.79	26.25	-81.75	-1,837.03	5,474.73	1,283.24	1,136.18	147.06	8.726		
11,700.00	5,515.28	5,550.00	5,306.19	133.05	26.33	-83.39	-1,859.54	5,500.63	1,276.50	1,125.56	150.94	8.457		
11,793.36	5,514.77	5,605.03	5,342.56	135.16	26.40	-85.04	-1,886.61	5,531.77	1,274.60	1,120.39	154.21	8.265 CC		
11,800.00	5,514.74	5,609.18	5,345.15	135.31	26.41	-85.16	-1,888.74	5,534.23	1,274.61	1,120.18	154.43	8.254		
11,900.00	5,514.19	5,677.87	5,384.32	137.57	26.49	-86.94	-1,925.72	5,576.78	1,276.69	1,119.09	157.61	8.101		
12,000.00	5,513.65	5,761.59	5,426.24	139.84	26.60	-88.84	-1,973.26	5,631.47	1,281.53	1,120.88	160.65	7.977		
12,100.00	5,513.11	5,850.96	5,463.29	142.10	26.73	-90.52	-2,026.55	5,692.78	1,288.25	1,124.62	163.64	7.873		
12,200.00	5,512.56	5,951.91	5,489.38	144.37	26.92	-91.70	-2,090.43	5,766.29	1,295.77	1,128.96	166.82	7.768		
12,300.00	5,512.02	6,067.97	5,497.91	146.63	27.30	-92.09	-2,166.27	5,853.48	1,303.03	1,132.61	170.42	7.646		
12,400.00	5,511.48	6,250.30	5,496.69	148.90	28.66	-92.07	-2,292.44	5,985.05	1,304.24	1,129.27	174.97	7.454		
12,500.00	5,510.93	6,350.30	5,496.02	151.17	29.83	-92.07	-2,363.14	6,055.76	1,304.24	1,125.38	178.86	7.292		
12,600.00	5,510.39	6,450.30	5,495.35	153.44	31.23	-92.06	-2,433.85	6,126.47	1,304.24	1,121.44	182.81	7.135		
12,700.00	5,509.84	6,550.30	5,494.68	155.71	32.78	-92.06	-2,504.56	6,197.18	1,304.24	1,117.42	186.82	6.981		
12,800.00	5,509.30	6,650.30	5,494.01	157.99	34.46	-92.05	-2,575.26	6,267.89	1,304.24	1,113.34	190.90	6.832		
12,900.00	5,508.76	6,750.30	5,493.34	160.26	36.22	-92.05	-2,645.97	6,338.61	1,304.24	1,109.21	195.04	6.687		
13,000.00	5,508.21	6,850.30	5,492.67	162.53	38.06	-92.04	-2,716.68	6,409.32	1,304.24	1,105.02	199.23	6.547		
13,100.00	5,507.67	6,950.30	5,492.00	164.81	39.95	-92.04	-2,787.38	6,480.03	1,304.25	1,100.79	203.46	6.410		
13,200.00	5,507.13	7,050.30	5,491.32	167.09	41.89	-92.03	-2,858.09	6,550.74	1,304.25	1,096.52	207.72	6.279		
13,300.00	5,506.58	7,150.30	5,490.65	169.36	43.86	-92.02	-2,928.80	6,621.45	1,304.25	1,092.22	212.02	6.151		
13,400.00	5,506.04	7,250.30	5,489.98	171.64	45.87	-92.02	-2,999.50	6,692.16	1,304.25	1,087.90	216.35	6.028		
13,500.00	5,505.50	7,350.30	5,489.31	173.92	47.91	-92.01	-3,070.21	6,762.87	1,304.25	1,083.55	220.70	5.910		
13,600.00	5,504.95	7,450.30	5,488.64	176.20	49.97	-92.01	-3,140.92	6,833.59	1,304.25	1,079.18	225.07	5.795		
13,700.00	5,504.41	7,550.30	5,487.97	178.48	52.05	-92.00	-3,211.62	6,904.30	1,304.25	1,074.79	229.46	5.684		
13,800.00	5,503.87	7,650.30	5,487.30	180.76	54.16	-92.00	-3,282.33	6,975.01	1,304.25	1,070.38	233.87	5.577		
13,900.00	5,503.32	7,750.30	5,486.63	183.04	56.27	-91.99	-3,353.04	7,045.72	1,304.25	1,065.96	238.29	5.473		
14,000.00	5,502.78	7,850.30	5,485.96	185.32	58.41	-91.99	-3,423.74	7,116.43	1,304.25	1,061.53	242.72	5.373		
14,100.00	5,502.24	7,950.30	5,485.29	187.60	60.55	-91.98	-3,494.45	7,187.14	1,304.25	1,057.08	247.17	5.277		
14,200.00	5,501.69	8,050.30	5,484.61	189.88	62.71	-91.97	-3,565.16	7,257.85	1,304.25	1,052.63	251.63	5.183		
14,300.00	5,501.15	8,150.30	5,483.94	192.16	64.88	-91.97	-3,635.86	7,328.57	1,304.25	1,048.16	256.09	5.093		
14,400.00	5,500.60	8,250.30	5,483.27	194.45	67.05	-91.96	-3,706.57	7,399.28	1,304.25	1,043.69	260.57	5.005		
14,500.00	5,500.06	8,350.30	5,482.60	196.73	69.24	-91.96	-3,777.28	7,469.99	1,304.25	1,039.20	265.05	4.921		
14,600.00	5,499.52	8,450.30	5,481.93	199.02	71.43	-91.95	-3,847.98	7,540.70	1,304.25	1,034.71	269.54	4.839		
14,700.00	5,498.97	8,550.30	5,481.26	201.30	73.63	-91.95	-3,918.69	7,611.41	1,304.25	1,030.22	274.04	4.759		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (420, 422, 424 & 426) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft North Reference: Grid **Survey Calculation Method:** Minimum Curvature

Well Haynes Canyon Unit 426 H

2.00 sigma Output errors are at Database: DT_Aug2923v16 Offset TVD Reference: Offset Datum

Offset Des	oigii.		on Unit (42	28,430,440	& 442) -	Haynes Car	iyon Unit 428H	- Original H	Hole - rev0				Offset Site Error:	0.00 ft
Survey Progr	ram: 0- erence	MWD	set	Somi I	Major Axis		Offset Wellbe	ore Centro	Die	Rule Assi tance	gned:		Offset Well Error:	0.00 ft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth	(64)	(64)	Toolface	+N/-S (ft)	+E/-W (ft)	Centres	Ellipses	Separation	Factor		
(ft) 14,900.00	(ft) 5,497.89	(ft) 8,750.30	(ft) 5,479.92	(ft) 205.87	(ft) 78.05	(°) -91.93	-4,060.10	7,752.83	(ft) 1,304.26	(ft) 1,021.21	(ft) 283.05	4.608		
15,000.00	5,497.34	8,850.30	5,479.92	208.16	80.27	-91.93	-4,130.81	7,732.63	1,304.26	1,021.21	287.56	4.536		
15,100.00	5,496.80	8,950.30	5,479.23	210.44	82.49	-91.93	-4,201.51	7,823.33	1,304.26	1,010.70	292.08	4.465		
15,200.00	5,496.26	9,050.30	5,477.91	212.73	84.71	-91.92	-4,272.22	7,964.97	1,304.26	1,007.66	296.60	4.397		
15,300.00	5,495.71	9,150.30	5,477.23	215.02	86.94	-91.91	-4,342.93	8,035.68	1,304.26	1,003.13	301.12	4.331		
15,400.00	5,495.17	9,250.30	5,476.56	217.31	89.18	-91.91	-4,413.63	8,106.39	1,304.26	998.61	305.65	4.267		
15,500.00	5,494.63	9,350.30	5,475.89	219.59	91.42	-91.90	-4,484.34	8,177.10	1,304.26	994.07	310.19	4.205		
15,600.00	5,494.08	9,450.30	5,475.22	221.88	93.66	-91.90	-4,555.05	8,247.82	1,304.26	989.54	314.72	4.144		
15,700.00	5,493.54	9,550.30	5,474.55	224.17	95.90	-91.89	-4,625.75	8,318.53	1,304.26	985.00	319.26	4.085		
15,800.00	5,493.00	9,650.30	5,473.88	226.46	98.15	-91.88	-4,696.46	8,389.24	1,304.26	980.46	323.80	4.028		
15,900.00	5,492.45	9,750.30	5,473.21	228.75	100.40	-91.88	-4,767.17	8,459.95	1,304.26	975.92	328.35	3.972		
16,000.00	5,491.91	9,850.30	5,472.54	231.04	102.65	-91.87	-4,837.87	8,530.66	1,304.27	971.37	332.89	3.918		
16,100.00	5,491.36	9,950.30	5,472.34	233.33	104.90	-91.87	-4,908.58	8,601.37	1,304.27	966.82	337.44	3.865		
16,200.00	5,490.82	10,050.30	5,471.20	235.62	107.16	-91.86	-4,979.29	8,672.08	1,304.27	962.27	341.99	3.814		
16,300.00	5,490.28	10,050.30	5,470.53	237.91	109.42	-91.86	-5,049.99	8,742.80	1,304.27	957.72	346.55	3.764		
16,400.00	5,489.73	10,250.30	5,469.85	240.20	111.68	-91.85	-5,120.70	8,813.51	1,304.27	953.17	351.10	3.715		
												-		
16,500.00	5,489.19	10,350.30	5,469.18	242.49	113.94	-91.85	-5,191.41	8,884.22	1,304.27	948.61	355.66	3.667		
16,600.00	5,488.65	10,450.30	5,468.51	244.78	116.21	-91.84	-5,262.11	8,954.93	1,304.27	944.05	360.22	3.621		
16,700.00	5,488.10	10,550.30	5,467.84	247.07	118.47	-91.83	-5,332.82	9,025.64	1,304.27	939.49	364.78	3.576		
16,800.00	5,487.56	10,650.30	5,467.17	249.36	120.74	-91.83	-5,403.53	9,096.35	1,304.27	934.93	369.34	3.531		
16,900.00	5,487.02	10,750.30	5,466.50	251.66	123.01	-91.82	-5,474.23	9,167.06	1,304.27	930.37	373.90	3.488		
17 000 00	E 400 47	10.050.20	E 46E 00	252.05	105.07	04.92	E E 1 1 0 1	0 227 70	1 204 27	005.01	270 47	2.446		
17,000.00 17,100.00	5,486.47 5,485.93	10,850.30 10,950.30	5,465.83 5,465.16	253.95 256.24	125.27 127.55	-91.82 -91.81	-5,544.94 -5,615.65	9,237.78 9,308.49	1,304.27 1,304.28	925.81 921.24	378.47 383.03	3.446 3.405		
17,100.00	5,485.39	11,050.30	5,464.49	258.53	129.82	-91.81	-5,686.35	9,379.20	1,304.28	916.67	387.60	3.365		
17,300.00	5,484.84	11,150.30	5,463.82	260.83	132.09	-91.80	-5,757.06	9,449.91	1,304.28	912.11	392.17	3.326		
17,400.00	5,484.30	11,250.30	5,463.15	263.12	134.36	-91.79	-5,827.77	9,520.62	1,304.28	907.54	396.74	3.287		
17,400.00	0,404.00	11,200.00	0,400.10	200.12	104.00	-01.70	-0,027.77	0,020.02	1,004.20	507.04	000.14	0.207		
17,500.00	5,483.75	11,350.30	5,462.47	265.41	136.64	-91.79	-5,898.47	9,591.33	1,304.28	902.97	401.31	3.250		
17,600.00	5,483.21	11,450.30	5,461.80	267.70	138.92	-91.78	-5,969.18	9,662.04	1,304.28	898.40	405.88	3.213		
17,700.00	5,482.67	11,550.30	5,461.13	270.00	141.19	-91.78	-6,039.89	9,732.76	1,304.28	893.83	410.46	3.178		
17,800.00	5,482.12	11,650.30	5,460.46	272.29	143.47	-91.77	-6,110.59	9,803.47	1,304.28	889.25	415.03	3.143		
17,900.00	5,481.58	11,750.30	5,459.79	274.59	145.75	-91.77	-6,181.30	9,874.18	1,304.28	884.68	419.60	3.108		
40,000,00	E 404.04	44 050 00	E 450 40	070.00	440.00	04.70	0.050.04	0.044.00	4 004 00	000.44	404.40	0.075		
18,000.00	5,481.04	11,850.30	5,459.12	276.88	148.03	-91.76	-6,252.01	9,944.89	1,304.28	880.11	424.18	3.075		
18,100.00 18,200.00	5,480.49 5,479.95	11,950.30 12,050.30	5,458.45 5,457.78	279.17 281.47	150.31 152.59	-91.76 -91.75	-6,322.71 -6,393.42	10,015.60 10,086.31	1,304.29 1,304.29	875.53 870.95	428.76 433.33	3.042 3.010		
18,300.00	5,479.95	12,050.30	5,457.78	283.76	152.59	-91.75 -91.74	-6,393.42 -6,464.13	10,086.31	1,304.29	866.38	433.33	2.978		
18,400.00	5,479.41	12,150.30	5,456.44	286.06	157.16	-91.74 -91.74	-6,534.83	10,157.02	1,304.29	861.80	442.49	2.976		
.0, .00.00	5, .7 5.55	,_00.00	5, .50.7-	_00.00	.57.10	J1.77	5,504.00	,	.,507.20	331.00	. 12.40	2.540		
18,500.00	5,478.32	12,350.30	5,455.77	288.35	159.44	-91.73	-6,605.54	10,298.45	1,304.29	857.22	447.07	2.917		
18,600.00	5,477.78	12,450.30	5,455.09	290.65	161.72	-91.73	-6,676.25	10,369.16	1,304.29	852.64	451.65	2.888		
18,700.00	5,477.23	12,550.30	5,454.42	292.94	164.01	-91.72	-6,746.95	10,439.87	1,304.29	848.06	456.23	2.859		
18,800.00	5,476.69	12,650.30	5,453.75	295.24	166.29	-91.72	-6,817.66	10,510.58	1,304.29	843.48	460.81	2.830		
18,900.00	5,476.15	12,750.30	5,453.08	297.53	168.58	-91.71	-6,888.37	10,581.29	1,304.30	838.90	465.39	2.803		
10.000.00	E 475.00	10.050.00	E 450 44	000.00	170.00	04.74	6.050.07	10.650.00	1 204 20	004.00	400.07	0.775		
19,000.00	5,475.60	12,850.30	5,452.41	299.83	170.86	-91.71 01.70	-6,959.07	10,652.00	1,304.30	834.32	469.97	2.775		
19,100.00 19,200.00	5,475.06 5,474.51	12,950.30 13,050.30	5,451.74 5,451.07	302.13 304.42	173.15 175.44	-91.70 -91.69	-7,029.78 -7,100.49	10,722.72	1,304.30 1,304.30	829.74 825.16	474.56 479.14	2.748 2.722 ES		
19,200.00	5,474.51	13,050.30	5,451.07	304.42	175.44	-91.69 -91.69	-7,100.49 -7,107.76	10,793.43 10,800.71	1,304.30	825.16	480.31	2.722 ES 2.722 SF		
19,400.00	5,473.43	13,060.59	5,451.00	309.01	175.67	-91.69	-7,107.76 -7,107.76	10,800.71	1,318.03	840.97	477.05	2.722 3		
10,400.00	J,+1J.43	10,000.08	5,751.00	309.01	175.07	-31.08	-1,101.10	10,000.71	1,510.03	U -1 U.31	₹11.UJ	2.100		
19,500.00	5,472.88	13,060.59	5,451.00	311.31	175.67	-91.69	-7,107.76	10,800.71	1,336.09	866.17	469.92	2.843		
19,600.00	5,472.34	13,060.59	5,451.00	313.61	175.67	-91.69	-7,107.76	10,800.71	1,361.28	901.71	459.57	2.962		
19,700.00	5,471.80	13,060.59	5,451.00	315.90	175.67	-91.69	-7,107.76	10,800.71	1,393.21	946.43	446.77	3.118		
19,800.00	5,471.25	13,060.59	5,451.00	318.20	175.67	-91.69	-7,107.76	10,800.71	1,431.42	999.10	432.32	3.311		
19,900.00	5,470.71	13,060.59	5,451.00	320.50	175.67	-91.69	-7,107.76	10,800.71	1,475.44	1,058.54	416.90	3.539		
20,000.00	5,470.17	13,060.59	5,451.00	322.79	175.67	-91.69	-7,107.76	10,800.71	1,524.75	1,123.66	401.09	3.802		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

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

Database:DT_Aug2923v16Offset TVD Reference:Offset Datum

													Offset Site Error:	0.00
Survey Progr Refer	rence	MWD Off	set	Semi N	lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi			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	
20,100.00	5,469.62	13,060.59	5,451.00	325.09	175.67	-91.69	-7,107.76	10,800.71	1,578.86	1,193.54	385.33	4.097		
20,200.00	5,469.08	13,060.59	5,451.00	327.39	175.67	-91.69	-7,107.76	10,800.71	1,637.30	1,267.39	369.91	4.426		
20,300.00	5,468.54	13,060.59	5,451.00	329.68	175.67	-91.69	-7,107.76	10,800.71	1,699.62	1,344.55	355.06	4.787		
20,400.00	5,467.99	13,060.59	5,451.00	331.98	175.67	-91.69	-7,107.76	10,800.71	1,765.40	1,424.50	340.90	5.179		
20,500.00	5,467.45	13,060.59	5,451.00	334.28	175.67	-91.69	-7,107.76	10,800.71	1,834.28	1,506.78	327.50	5.601		
20,582.58	5,467.00	13,060.59	5,451.00	336.18	175.67	-91.69	-7,107.76	10,800.71	1,893.25	1,576.23	317.02	5.972		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

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

Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

					,		,	3	lole - rev0				Offset Site Error:	0.00 ft
Survey Progr		-MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refer Measured	rence Vertical	Off 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	···g	
(ft) 4,200.00	(ft) 3,911.59	(ft) 11,874.59	(ft) 5,518.58	(ft) 26.33	(ft) 143.51	(°) 65.44	2,412.07	1,280.45	(ft) 2,240.22	(ft) 2,124.84	(ft) 115.38	19.415		
4,300.00	4,002.45	11,899.30	5,518.66	27.08	144.07	64.22	2,412.07	1,262.97	2,150.27	2,032.65	117.62	18.281		
			5,518.73			60.21	2,446.73					17.171		
4,400.00	4,093.61	11,923.60		27.83	144.62			1,245.79	2,061.12	1,941.08	120.03			
4,500.00	4,186.60	11,945.38	5,518.80	28.51	145.12	54.57	2,462.13	1,230.39	1,973.89	1,851.15	122.74	16.082		
4,600.00	4,281.38 4,377.70	11,964.30 11,980.28	5,518.86 5,518.90	29.13 29.68	145.55 145.91	49.83 45.92	2,475.50 2,486.81	1,217.02	1,889.33 1,808.15	1,763.55 1,678.96	125.78 129.18	15.020 13.997		
4,700.00								1,205.71						
4,800.00	4,475.29	11,993.31	5,518.94	30.16	146.21	42.73	2,496.02	1,196.50	1,731.13	1,598.19	132.94	13.021		
4,900.00	4,573.89	12,003.33	5,518.97	30.57	146.44	40.19	2,503.10	1,189.41	1,659.16	1,522.11	137.05	12.106		
5,000.00	4,673.22	12,010.32	5,519.00	30.92	146.60	38.20	2,508.05	1,184.47	1,593.19	1,451.75	141.45	11.264		
5,100.00	4,773.01	12,014.27	5,519.01	31.19	146.69	36.68	2,510.83	1,181.68	1,534.23	1,388.17	146.05	10.505		
5,200.00	4,873.00	12,015.30	5,519.01	31.40	146.71	45.09	2,511.56	1,180.95	1,483.12	1,332.38	150.74	9.839		
5,300.00	4,972.98	12,014.77	5,519.01	31.58	146.70	-91.37	2,511.19	1,181.33	1,438.07	1,282.76	155.31	9.259		
5,400.00	5,071.86	12,001.00	5,518.97	31.68	146.38	-95.00	2,501.46	1,191.06	1,399.12	1,239.90	159.22	8.787		
5,500.00	5,166.80	11,970.27	5,518.87	31.68	145.68	-97.06	2,479.72	1,212.79	1,367.41	1,205.31	162.10	8.436		
5,600.00	5,254.90	11,923.50	5,518.73	31.57	144.62	-97.74	2,446.66	1,245.86	1,343.33	1,179.52	163.81	8.201		
5,700.00	5,333.50	11,862.12	5,518.55	31.38	143.22	-97.36	2,403.26	1,289.27	1,326.43	1,162.09	164.34	8.071		
5,800.00	5,400.20	11,787.99	5,518.32	31.13	141.54	-96.29	2,350.84	1,341.68	1,315.61	1,151.76	163.85	8.029 SF		
5,900.00	5,453.72	11,703.77	5,518.07	30.82	139.63	-94.79	2,291.29	1,401.24	1,309.33	1,146.71	162.63	8.051		
6,000.00	5,499.83	11,615.28	5,517.80	30.52	137.61	-93.23	2,228.72	1,463.82	1,305.68	1,144.57	161.11	8.104 ES		
6,100.00	5,530.54	11,520.33	5,517.51	30.21	135.46	-92.10	2,161.58	1,530.95	1,304.15	1,144.84	159.31	8.186		
6,200.00	5,544.27	11,421.45	5,517.21	29.91	133.21	-91.53	2,091.67	1,600.88	1,303.71	1,146.30	157.41	8.282		
6,292.13	5,546.56	11,329.36	5,516.94	29.65	131.12	-91.42	2,026.55	1,665.99	1,303.65	1,147.91	155.73	8.371 CC		
6,300.00	5,544.63	11,321.47	5,516.91	29.62	130.94	-91.51	2,020.97	1,671.58	1,303.69	1,148.12	155.57	8.380		
6,400.00	5,544.09	11,221.47	5,516.61	29.37	128.68	-91.52	1,950.26	1,742.29	1,303.71	1,149.77	153.93	8.469		
6,500.00	5,543.54	11,121.47	5,516.31	29.15	126.41	-91.53	1,879.55	1,813.00	1,303.72	1,151.24	152.48	8.550		
6,600.00	5,543.00	11,021.47	5,516.01	28.96	124.15	-91.54	1,808.85	1,883.72	1,303.73	1,152.53	151.20	8.623		
6,700.00	5,542.46	10,921.47	5,515.70	28.80	121.88	-91.55	1,738.14	1,954.43	1,303.74	1,153.67	150.07	8.688		
6,800.00	5,541.91	10,821.47	5,515.40	30.10	119.62	-91.56	1,667.43	2,025.14	1,303.75	1,154.68	149.08	8.746		
6,900.00	5,541.37	10,721.47	5,515.10	31.62	117.36	-91.57	1,596.72	2,095.85	1,303.76	1,155.56	148.20	8.797		
7,000.00	5,540.83	10,621.47	5,514.80	33.21	115.10	-91.58	1,526.02	2,166.57	1,303.77	1,156.34	147.43	8.843		
7,100.00	5,540.28	10,521.47	5,514.49	34.88	112.84	-91.59	1,455.31	2,237.28	1,303.79	1,157.03	146.76	8.884		
7,200.00	5,539.74	10,421.47	5,514.19	36.60	110.59	-91.60	1,384.60	2,307.99	1,303.80	1,157.64	146.16	8.921		
7,300.00	5,539.20	10,321.47	5,513.89	38.38	108.34	-91.61	1,313.89	2,307.99	1,303.80	1,157.04	145.63	8.953		
7,400.00	5,539.20	10,321.47	5,513.59	40.21	106.34	-91.62	1,243.18	2,376.70	1,303.81	1,158.66	145.03	8.982		
7,400.00	5,538.11	10,221.47	5,513.28	42.08	103.84	-91.62 -91.63		2,449.42	1,303.82		144.74	9.008		
7,600.00	5,538.11	10,121.47	5,513.28	43.99	103.84	-91.63 -91.64	1,172.48 1,101.77	2,520.13	1,303.83	1,159.09 1,159.47	144.74	9.008		
7,700.00	5,537.02	9,921.47	5,512.68	45.93	99.35	-91.66	1,031.06	2,661.55	1,303.86	1,159.81	144.05	9.052		
7,800.00	5,536.48	9,821.47	5,512.38	47.89	97.11	-91.67	960.35	2,732.27	1,303.87	1,160.11	143.76	9.070		
7,900.00	5,535.93	9,721.47	5,512.07	49.89	94.87	-91.68	889.65	2,802.98	1,303.88	1,160.38	143.50	9.086		
8,000.00	5,535.39	9,621.47	5,511.77	51.91	92.63	-91.69	818.94	2,873.69	1,303.89	1,160.62	143.27	9.101		
8,100.00	5,534.85	9,521.47	5,511.47	53.95	90.40	-91.70	748.23	2,944.40	1,303.91	1,160.83	143.07	9.113		
8,200.00	5,534.30	9,421.47	5,511.17	56.01	88.17	-91.71	677.52	3,015.12	1,303.92	1,161.02	142.90	9.125		
8,300.00	5,533.76	9,321.47	5,510.86	58.08	85.95	-91.72	606.81	3,085.83	1,303.93	1,161.18	142.75	9.135		
8,400.00	5,533.22	9,221.47	5,510.56	60.17	83.73	-91.73	536.11	3,156.54	1,303.94	1,161.33	142.61	9.143		
8,500.00	5,532.67	9,121.47	5,510.26	62.28	81.52	-91.74	465.40	3,227.25	1,303.95	1,161.45	142.50	9.151		
8,600.00	5,532.13	9,021.47	5,509.96	64.40	79.31	-91.75	394.69	3,297.97	1,303.97	1,161.56	142.40	9.157		
8,700.00	5,531.59	8,921.47	5,509.66	66.52	77.10	-91.76	323.98	3,368.68	1,303.98	1,161.65	142.33	9.162		
8,800.00	5,531.04	8,821.47	5,509.35	68.66	74.90	-91.77	253.28	3,439.39	1,303.99	1,161.72	142.27	9.166		
8,900.00	5,530.50	8,721.47	5,509.05	70.81	72.71	-91.78	182.57	3,510.10	1,304.00	1,161.78	142.22	9.169		
9,000.00	5,529.96	8,621.47	5,508.75	72.97	70.52	-91.79	111.86	3,580.82	1,304.02	1,161.82	142.19	9.171		
9,100.00	5,529.41	8,521.47	5,508.45	75.14	68.35	-91.80	41.15	3,651.53	1,304.03	1,161.85	142.18	9.172		
			5,508.14	77.31	66.18	-91.81	-29.56	3,722.24	1,304.04	1,161.86	142.18	9.171		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore
Reference Design: 0.00 ft
Original Hole
rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

	3		2.11 OTHE (42	20,400,440 (^ ++ ∠) -	i iayiios oaii	yon Unit 440H	Orngilal I	1010 - 1640				Offset Site Error:	0.001
Survey Progr Refer		MWD Offs	set	Semi M	ajor Axis		Offset Wellbe	ore Centre	Diet	Rule Assi ance	gned:		Offset Well Error:	0.00 1
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
9,300.00	5,528.32	8,321.47	5,507.84	79.49	64.01	-91.82	-100.26	3,792.95	1,304.05	1,161.85	142.20	9.170		
9,400.00	5,527.78	8,221.47	5,507.54	81.68	61.86	-91.83	-170.97	3,863.67	1,304.07	1,161.83	142.24	9.168		
9,500.00	5,527.24	8,121.47	5,507.24	83.87	59.72	-91.85	-241.68	3,934.38	1,304.08	1,161.79	142.29	9.165		
9,600.00	5,526.69	8,021.48	5,506.93	86.07	57.59	-91.86	-312.39	4,005.09	1,304.09	1,161.73	142.36	9.160		
9,700.00	5,526.15	7,921.48	5,506.63	88.28	55.48	-91.87	-383.09	4,075.80	1,304.11	1,161.65	142.45	9.155		
9,800.00	5,525.61	7,821.48	5,506.33	90.49	53.38	-91.88	-453.80	4,146.52	1,304.12	1,161.56	142.56	9.148		
9,900.00	5,525.06	7,721.48	5,506.03	92.70	51.29	-91.89	-524.51	4,217.23	1,304.13	1,161.44	142.69	9.140		
10,000.00	5,524.52	7,621.48	5,505.72	94.92	49.23	-91.90	-595.22	4,287.94	1,304.14	1,161.30	142.85	9.130		
10,100.00	5,523.98	7,521.48	5,505.42	97.14	47.18	-91.91	-665.93	4,358.65	1,304.16	1,161.13	143.03	9.118		
10,200.00	5,523.43	7,421.48	5,505.12	99.36	45.16	-91.92	-736.63	4,429.37	1,304.17	1,160.94	143.23	9.105		
10,300.00	5,522.89	7,321.48	5,504.82	101.59	43.17	-91.93	-807.34	4,500.08	1,304.18	1,160.71	143.47	9.090		
10,400.00	5,522.35	7,221.48	5,504.52	103.82	41.20	-91.94	-878.05	4,570.79	1,304.20	1,160.45	143.75	9.073		
10,500.00	5,521.80	7,121.48	5,504.21	106.06	39.27	-91.95	-948.76	4,641.51	1,304.21	1,160.14	144.07	9.053		
10,600.00	5,521.26	7,021.48	5,503.91	108.29	37.38	-91.96	-1,019.46	4,712.22	1,304.22	1,159.79	144.43	9.030		
10,700.00	5,520.72	6,921.48	5,503.61	110.53	35.54	-91.97	-1,090.17	4,782.93	1,304.24	1,159.39	144.84	9.004		
10,800.00	5,520.17	6,821.48	5,503.31	112.78	33.75	-91.98	-1,160.88	4,853.64	1,304.25	1,158.93	145.32	8.975		
10,900.00	5,519.63	6,721.48	5,503.00	115.02	32.01	-91.99	-1,231.59	4,924.36	1,304.26	1,158.39	145.87	8.941		
11,000.00	5,519.08	6,621.48	5,502.70	117.27	30.35	-92.00	-1,302.30	4,995.07	1,304.28	1,157.78	146.50	8.903		
11,100.00	5,518.54	6,521.48	5,502.40	119.52	28.77	-92.01	-1,373.00	5,065.78	1,304.29	1,157.07	147.22	8.859		
11,200.00	5,518.00	6,421.48	5,502.10	121.77	27.29	-92.03	-1,443.71	5,136.49	1,304.30	1,156.25	148.05	8.810		
11,300.00	5,517.45	6,321.48	5,501.79	124.02	25.96	-92.04	-1,514.42	5,207.21	1,304.32	1,155.36	148.95	8.756		
11,400.00	5,516.91	6,221.48	5,501.49	126.27	25.21	-92.05	-1,585.13	5,277.92	1,304.33	1,154.06	150.27	8.680		
11,500.00	5,516.37	6,152.90	5,501.28	128.53	25.32	-92.05	-1,633.22	5,326.80	1,305.28	1,153.30	151.97	8.589		
11,600.00	5,515.82	6,100.00	5,501.13	130.79	25.39	-92.06	-1,669.18	5,365.60	1,309.28	1,155.41	153.87	8.509		
11,700.00	5,515.28	6,016.22	5,499.49	133.05	25.50	-91.99	-1,724.19	5,428.74	1,316.06	1,160.62	155.45	8.466		
11,800.00	5,514.74	5,910.54	5,482.17	135.31	25.66	-91.26	-1,792.09	5,507.64	1,323.07	1,166.02	157.06	8.424		
11,900.00	5,514.19	5,813.94	5,449.86	137.57	25.80	-89.88	-1,851.40	5,576.56	1,330.20	1,171.30	158.89	8.372		
12,000.00	5,513.65	5,727.47	5,409.05	139.84	25.92	-88.14	-1,901.09	5,634.30	1,338.57	1,177.83	160.74	8.327		
12,100.00	5,513.11	5,650.00	5,368.61	142.10	26.03	-86.43	-1,944.17	5,684.36	1,348.93	1,177.03	162.44	8.304		
12,200.00	5,512.56	5,585.16	5,328.69	144.37	26.10	-84.76	-1,977.46	5,723.05	1,362.30	1,198.48	163.82	8.316		
12,200.00	5,512.02	5,531.42	5,291.40	146.63	26.16	-83.21	-2,002.69	5,752.37	1,379.57	1,214.85	164.72	8.375		
12 400 00	E E 11 40	E 400 40	E 0E7 EE	149.00	26.10	04.04	2.024.06	E 774 7E	4 404 25	1 226 24	4CE 11	0.407		
12,400.00	5,511.48	5,486.48	5,257.55	148.90	26.19	-81.81	-2,021.96	5,774.75	1,401.35	1,236.24	165.11	8.487		
12,500.00	5,510.93	5,450.00	5,228.44	151.17	26.21	-80.61	-2,036.29	5,791.41	1,427.98	1,263.02	164.97	8.656		
12,600.00	5,510.39	5,416.97	5,200.92	153.44	26.21	-79.49	-2,048.20	5,805.25	1,459.61	1,295.28	164.34	8.882		
12,700.00 12,800.00	5,509.84 5,509.30	5,400.00 5,366.74	5,186.38 5,157.17	155.71 157.99	26.22 26.21	-78.90 -77.73	-2,053.91 -2,064.28	5,811.88 5,823.93	1,496.29 1,537.67	1,333.03 1,375.82	163.26 161.84	9.165 9.501		
12,900.00	5,508.76	5,350.00	5,142.13	160.26	26.21	-77.13	-2,069.08	5,829.50	1,583.74	1,423.61	160.12	9.891		
13,000.00	5,508.21	5,329.26	5,123.21	162.53	26.20	-76.38	-2,074.62	5,835.94	1,634.13	1,475.96	158.17	10.331		
13,100.00	5,507.67	5,300.00	5,096.03	164.81	26.18	-75.30 -75.30	-2,081.67	5,844.13	1,688.71	1,532.67	156.04	10.822		
13,200.00	5,507.13	5,300.00	5,096.03	167.09	26.18	-75.30 -75.30	-2,081.67	5,844.13	1,746.73	1,592.88	153.84	11.354		
13,300.00	5,506.58	5,300.00	5,096.03	169.36	26.18	-75.30	-2,081.67	5,844.13	1,808.41	1,656.85	151.57	11.931		
13,400.00	5,506.04	5,277.74	5,074.99	171.64	26.16	-74.48	-2,086.42	5,849.65	1,873.00	1,723.74	149.26	12.549		
13,500.00	5,505.50	5,268.11	5,065.81	173.92	26.15	-74.12	-2,088.31	5,851.85	1,940.53	1,793.57	146.96	13.205		
13,600.00	5,504.95	5,250.00	5,048.41	176.20	26.14	-73.45	-2,091.59	5,855.66	2,010.70	1,866.03	144.68	13.898		
13,700.00	5,504.41	5,250.00	5,048.41	178.48	26.14	-73.45	-2,091.59	5,855.66	2,083.06	1,940.60	142.46	14.622		
13,800.00	5,503.87	5,250.00	5,048.41	180.76	26.14	-73.45	-2,091.59	5,855.66	2,157.63	2,017.34	140.29	15.380		
13,900.00	5,503.32	5,250.00	5,048.41	183.04	26.14	-73.45	-2,091.59	5,855.66	2,234.18	2,096.00	138.18	16.168		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 426 H RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft Grid

nce: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

Offset Des	sign: Se	ction 06-T2	3N-R06W	- NE Lybro	ok Com	263 H - Origi	nal Hole - rev2	2					Offset Site Error:	0.00 ft
Survey Progr		MWD								Rule Assi	gned:		Offset Well Error:	0.00 ft
Refer Measured Depth (ft)	rence Vertical Depth (ft)	Offs Measured Depth (ft)	set Vertical Depth (ft)	Semi M Reference (ft)	lajor Axis Offset (ft)	Highside Toolface (°)	Offset Wellbo +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	tance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
3,500.00	3,275.63	15,577.27	5,734.24	21.08	251.93	-179.49	1,067.85	164.66	2,243.63	2,157.21	86.42	25.961		
3,600.00	3,366.48	15,576.34	5,734.23	21.83	251.91	-179.44	1,068.03	163.75	2,153.26	2,066.41	86.85	24.794		
3,700.00	3,457.33	15,575.41	5,734.23	22.58	251.88	-179.38	1,068.21	162.84	2,063.77	1,976.25	87.52	23.579		
3,800.00	3,548.18	15,574.48	5,734.23	23.33	251.86	-179.32	1,068.38	161.93	1,975.29	1,886.78	88.51	22.317		
3,900.00	3,639.04	15,573.55	5,734.22	24.08	251.84	-179.27	1,068.56	161.02	1,887.97	1,798.09	89.87	21.007		
4,000.00	3,729.89	15,572.62	5,734.22	24.83	251.81	-179.21	1,068.73	160.10	1,801.96	1,710.28	91.68	19.655		
4,100.00	3,820.74	15,571.69	5,734.22	25.58	251.79	-179.15	1,068.91	159.19	1,717.46	1,623.43	94.04	18.264		
4,200.00	3,911.59	15,570.76	5,734.21	26.33	251.77	-179.10	1,069.09	158.28	1,634.72	1,537.67	97.05	16.844		
4,300.00	4,002.45	15,569.83	5,734.21	27.08	251.74	-179.04	1,069.26	157.37	1,554.01	1,453.18	100.83	15.412		
4,400.00	4,093.61	15,568.93	5,734.21	27.83	251.72	-178.95	1,069.43	156.48	1,475.17	1,369.69	105.48	13.986		
4,500.00	4,186.60	15,568.16	5,734.20	28.51	251.70	-178.82	1,069.58	155.72	1,396.02	1,285.20	110.81	12.598		
4,600.00	4,281.38	15,567.54	5,734.20	29.13	251.68	-178.69	1,069.70	155.12	1,316.33	1,199.51	116.82	11.268		
4,700.00	4,377.70	15,567.08	5,734.20	29.68	251.67	-178.56	1,069.78	154.67	1,236.24	1,112.74	123.50	10.010		
4,800.00	4,475.29	15,566.78	5,734.20	30.16	251.66	-178.43	1,069.84	154.37	1,155.91	1,025.00	130.90	8.830		
4,900.00	4,573.89	15,566.64	5,734.20	30.57	251.66	-178.31	1,069.87	154.23	1,075.53	936.45	139.08	7.733		
5,000.00	4,673.22	15,566.66	5,734.20	30.92	251.66	-178.19	1,069.86	154.25	995.33	847.21	148.12	6.720		
5,100.00	4,773.01	15,566.84	5,734.20	31.19	251.67	-178.07	1,069.83	154.42	915.62	757.48	158.14	5.790		
5,200.00	4,873.00	15,567.16	5,734.20	31.40	251.67	-168.81	1,069.77	154.74	836.94	667.58	169.37	4.942		
5,300.00	4,972.98	15,568.22	5,734.20	31.58	251.70	58.91	1,069.57	155.78	762.07	579.38	182.70	4.171		
5,400.00	5,071.86	15,580.23	5,734.25	31.68	252.01	67.17	1,067.29	167.58	688.65	491.31	197.35	3.490		
5,500.00	5,166.80	15,606.27	5,734.34	31.68	252.67	73.86	1,062.35	193.15	616.83	404.18	212.65	2.901		
5,600.00	5,254.90	15,645.56	5,734.49	31.57	253.66	78.63	1,054.90	231.72	547.93	319.79	228.14	2.402		
5,700.00	5,333.50	15,696.89	5,734.67	31.38	254.97	81.60	1,045.16	282.11	482.65	239.55	243.10	1.985 Lev	el 3<2.00	
5,800.00	5,400.20	15,758.71	5,734.90	31.13	256.53	83.21	1,033.43	342.81	421.03	164.41	256.62	1.641 Lev	el 3<2.00	
5,900.00	5,453.72	15,786.04	5,735.00	30.82	257.23	85.59	1,028.25	369.65	365.05	108.28	256.77	1.422 Lev	el 2<1.50, ES, SF	
6,000.00	5,499.83	15,786.04	5,735.00	30.52	257.23	88.07	1,028.25	369.65	328.72	115.02	213.70	1.538 Lev	el 3<2.00	
6,078.26	5,525.28	15,786.04	5,735.00	30.28	257.23	89.02	1,028.25	369.65	319.37	158.38	161.00	1.984 Lev	el 3<2.00, CC	
6,100.00	5,530.54	15,786.04	5,735.00	30.21	257.23	88.95	1,028.25	369.65	320.10	172.74	147.36	2.172		
6,200.00	5,544.27	15,786.04	5,735.00	29.91	257.23	86.73	1,028.25	369.65	341.50	243.72	97.78	3.492		
6,300.00	5,544.63	15,786.04	5,735.00	29.62	257.23	85.38	1,028.25	369.65	387.75	318.21	69.54	5.576		
6,400.00	5,544.09	15,786.04	5,735.00	29.37	257.23	85.38	1,028.25	369.65	451.71	394.56	57.15	7.904		
6,500.00	5,543.54	15,786.04	5,735.00	29.15	257.23	85.38	1,028.25	369.65	527.00	472.31	54.69	9.635		
6,600.00	5,543.00	15,786.04	5,735.00	28.96	257.23	85.38	1,028.25	369.65	609.44	551.29	58.15	10.480		
6,700.00	5,542.46	15,786.04	5,735.00	28.80	257.23	85.38	1,028.25	369.65	696.50	631.48	65.02	10.712		
6,800.00	5,541.91	15,786.04	5,735.00	30.10	257.23	85.38	1,028.25	369.65	786.64	712.98	73.66	10.680		
6,900.00	5,541.37	15,786.04	5,735.00	31.62	257.23	85.38	1,028.25	369.65	878.91	795.97	82.94	10.597		
7,000.00	5,540.83	15,786.04	5,735.00	33.21	257.23	85.38	1,028.25	369.65	972.71	880.65	92.06	10.566		
7,100.00	5,540.28	15,786.04	5,735.00	34.88	257.23	85.38	1,028.25	369.65	1,067.64	967.15	100.50	10.624		
7,200.00	5,539.74	15,786.04	5,735.00	36.60	257.23	85.38	1,028.25	369.65	1,163.42	1,055.41	108.01	10.772		
7,300.00	5,539.20	15,786.04	5,735.00	38.38	257.23	85.38	1,028.25	369.65	1,259.86	1,145.27	114.59	10.995		
7,400.00	5,538.65	15,786.04	5,735.00	40.21	257.23	85.38	1,028.25	369.65	1,356.81	1,236.49	120.32	11.277		
7,500.00	5,538.11	15,786.04	5,735.00	42.08	257.23	85.38	1,028.25	369.65	1,454.17	1,328.86	125.31	11.605		
7,600.00	5,537.56	15,786.04	5,735.00	43.99	257.23	85.38	1,028.25	369.65	1,551.87	1,422.20	129.67	11.968		
7,700.00	5,537.02	15,786.04	5,735.00	45.93	257.23	85.38	1,028.25	369.65	1,649.85	1,516.33	133.51	12.357		
7,800.00	5,536.48	15,786.04	5,735.00	47.89	257.23	85.38	1,028.25	369.65	1,748.05	1,611.14	136.91	12.768		
7,900.00	5,535.93	15,786.04	5,735.00	49.89	257.23	85.38	1,028.25	369.65	1,846.45	1,706.52	139.93	13.195		
8,000.00	5,535.39	15,786.04	5,735.00	51.91	257.23	85.38	1,028.25	369.65	1,945.01	1,802.37	142.64	13.636		
8,100.00	5,534.85	15,786.04	5,735.00	53.95	257.23	85.38	1,028.25	369.65	2,043.71	1,898.65	145.06	14.088		
8,200.00	5,534.30	15,786.04	5,735.00	56.01	257.23	85.38	1,028.25	369.65	2,142.53	1,995.27	147.26	14.549		
8,300.00	5,533.76	15,786.04	5,735.00	58.08	257.23	85.38	1,028.25	369.65	2,241.46	2,092.20	149.25	15.018		



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Output errors are at

Database: Offset TVD Reference: Well Haynes Canyon Unit 426 H

RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Grid

Minimum Curvature
2.00 sigma

DT_Aug2923v16 Offset Datum

Reference Depths are relative to RKB=6765+25 @ 6790.00ft

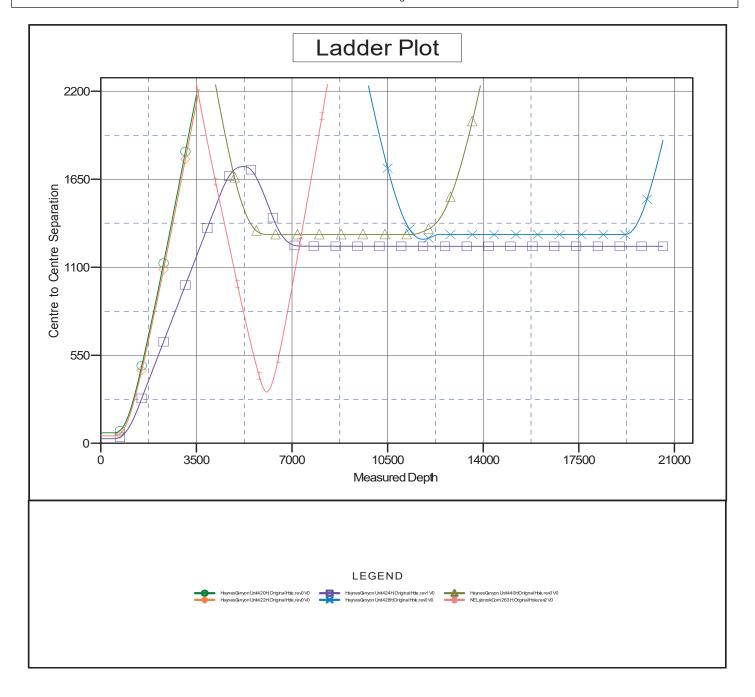
Offset Depths are relative to Offset Datum

Central Meridian is -106.250000000

Coordinates are relative to: Haynes Canyon Unit 426 H

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

Grid Convergence at Surface is: -0.73°





Database:

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Reference Site: Haynes Canyon Unit (420, 422, 424 & 426)

Site Error:

Reference Well: Haynes Canyon Unit 426 H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

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Survey Calculation Method:

TVD Reference: MD Reference: North Reference: RKB=6765+25 @ 6790.00ft RKB=6765+25 @ 6790.00ft

Well Haynes Canyon Unit 426 H

Minimum Curvature 2.00 sigma DT_Aug2923v16

Offset TVD Reference:

Output errors are at

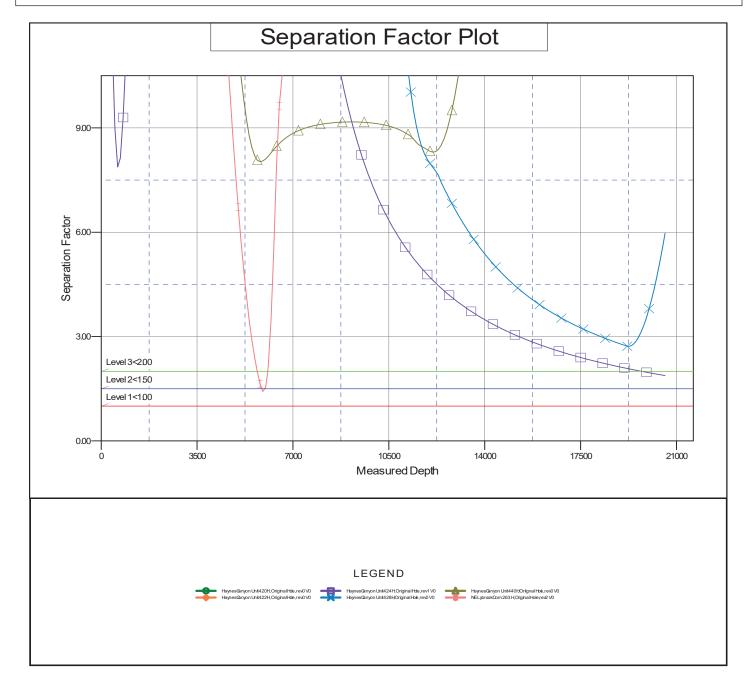
Offset Datum

Reference Depths are relative to RKB=6765+25 @ 6790.00ft

Offset Depths are relative to Offset Datum Central Meridian is -106.250000000

Coordinates are relative to: Haynes Canyon Unit 426 H Coordinate System is US State Plane 1983, New Mexico Central Zone

Grid Convergence at Surface is: -0.73°





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 #426H HAYNES CANYON UNIT

Lease: NMNM130875 Agreement: NMNM105770949

SH: NE¼SE¼ Section 5, T. 23N., R. 6W.
Rio Arriba County, New Mexico
BH: SE¼NE¼ Section 15, T. 23N., 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: 2/10/2025 12:38:40 PM Approval Date: 12/19/2024

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 three years according to 43 CFR 3171.14, approval of the Application for Permit to Drill will expire. No extensions will be granted.

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

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer online through AFMSS 2 within 30 days after the work is completed.
 - 1. Provide complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the way the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log if cement is not circulated to surface.
- C. Production Startup Notification is required no later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than 90 days. The operator shall notify the Authorized Officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed. CFR 43 3162.4-1(c).

III. DRILLER'S LOG

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

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of *_Days, 20 MMCF following its (completion)(recompletion), or flowback has been routed to the production separator, whichever first occurs, without the prior, written approval of the authorized officer in accordance with 43 CFR 3179.81. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the beginning of flowback following completion or recompletion.

V. 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.

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 423120

CONDITIONS

Operator:	OGRID:
ENDURING RESOURCES, LLC	372286
6300 S Syracuse Way	Action Number:
Centennial, CO 80111	423120
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
sford	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/21/2025
sford	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/21/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	2/10/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/10/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/10/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/10/2025