

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Report

Well Name: HAYNES CANYON UNIT Well Location: T23N / R6W / SEC 3 / County or Parish/State:

SWSW /

Well Number: 428H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM28737 Unit or CA Name: Haynes Canyon Unit **Unit or CA Number:**

NMNM105770949

US Well Number: 3003931443 Well Status: Approved Application for Operator: ENDURING RESOURCES LLC

Permit to Drill

Notice of Intent

Sundry ID: 2773881

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 02/07/2024 **Time Sundry Submitted: 10:52**

Date proposed operation will begin: 02/07/2024

Procedure Description: Original APD approved on 12/05/2023. The subject well is located in Enduring's Haynes Canyon Unit. Original plans were to drill a 7210-ft lateral. Enduring is seeking approval to extend the lateral to 7659-ft changing the proposed depth from 5451' / 13059' to 5463' / 13508', adjusting the BHL & increasing the dedicated acres from 480 to 560. Attached please find an updated C102 Well Location and Acreage Dedication Plat and a revised Horizontal Directional Drilling Plan with new casing and cement assumptions. Please note, effective December 21, 2023, Enduring Resources, LLC and DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources, LLC. Leases, rights of way, well, and other property interests will continue to be held in their current entity names.

NOI Attachments

Procedure Description

Hz_Directional_Drilling_Plan_20240207105242.pdf

Page 1 of 2

eived by OCD: 2/14/2024 11:53:57 AMT

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Page 2 of

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Operator: ENDURING RESOURCES LLC

Conditions of Approval

Additional

Enduring Haynes Canyon Unit 428H BHL Change 2773881 MHK 20240212120909.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHAW-MARIE FORD Signed on: FEB 07, 2024 10:52 AM

Name: ENDURING RESOURCES LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC State: NM

Phone: (505) 632-3476

Email address: SFORD@DJRLLC.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

Signature: Matthew Kade

BLM POC Name: MATTHEW H KADE BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736 BLM POC Email Address: MKADE@BLM.GOV

Disposition: Approved Disposition Date: 02/12/2024

Page 2 of 2

District III 16**Received by OCD**002**/N4/2024** 11: **13**05710 **M**2008 Road, Aztec, NM 87410 Phone: (575) 393-5161 Fax: (575) 393-0720 Phone: (505) 334-6178 Fax: (505) 334-6170 Phone: (575) 748-1283 Fax: (575) 748-9720 District IV 1220 S. St. 1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

Form C-102 Revised Rage 3.09041 Submit one copy to Appropriate District Office AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number ² Pool Code 3 Pool Name COUNSELOR GALLUP-DAKOTA OIL POOL 30-039-31443 13379 4 Property Code ⁵ Property Name 6 Well Number HAYNES CANYON UNIT 428H 335063 ⁸ Operator Name OGRID No 9 Elevation ENDURING RESOURCES, LLC 6703 372286

¹⁰ Surface Location UL or lot no. Section Township Range Feet from the North/South line East/West line County Feet from the 903 3 23N SOUTH 429 WEST RIO ARRIBA Μ 6W ¹¹ Bottom Hole Location If Different From Surface Range UI or lot no Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 15 23N 6W 204 NORTH 240 EAST RIO ARRIBA Α 12 Dedicated Acres 560.0 Acres S88 °27 W 2680.59 ' (REC) S88 °27 W 2680.59 ' (REC) S88 °27 W 2680.26 ' (REC) S89 °10 '30 "W 2680.23 S89 °10 '59 "W 2678.68 (MEASURED) S89 °11 '22 "W 2677.59 SW/4 SW/4 -Section 3 (MEASURED) (MEASURED) (MEASURED) SE/4 SE/4 Section 4 B NE/4 NE/4 Section 9 30 NE/4 SW/4, SW/4 NE/4 LOT LOT (MEASURED) ' "22'36"E 2710.7 LOT LOT LOT LOT LOT LOT 62 NW/4, SE/4 - Section 10 2655.. 1 2654.52 NO1 *40 E 2710. (RECORD) NE/4 NE/4 - Section 15 -29 '37 "E 13 Joint or Infill 14 Consolidation Code Ш SURFACE LOCATION(A) 903' FSL 429' FWL SEC 3, T23N, R6W 46 15 Order No. N02 N01 8 B LAT 36.248667°N LONG -107.464358°W DATUM: NAD1983 (MEASURED) N01°17'01"E 2652.63 (REC) NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL 9 2628. 2627.46 NO °33 E 2651.88 INTERESTS HAVE BEEN CONSOLIDATED (RECORD) OR A NON-STANDARD UNIT HAS BEEN Щ (MEASURED) S88 °20 '23 ''W 2697.94 APPROVED BY THE DIVISION .92.62. 429 .46 E 543°20.2'W S87 °38 W 2697.42 (RECORD) ¹⁷ OPERATOR CERTIFICATION 903 N01 9 B S88 °45 W 2610.96 (RECORD) (MEASURED) (RECORD) N88 °18 "W 2643.30 (REC) 330, S88 °21 '17 'W 2696.91 330 N87 °34 '16 "W 2643.31 (MEASURED) S87 *38 W 2697.42 (RECORD)

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

02/07/24 Shaw-Marie Ford

Shaw-Marie Ford

Printed Name

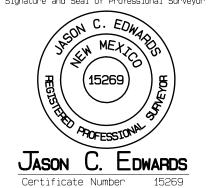
sford@djrllc.com E-mail Address

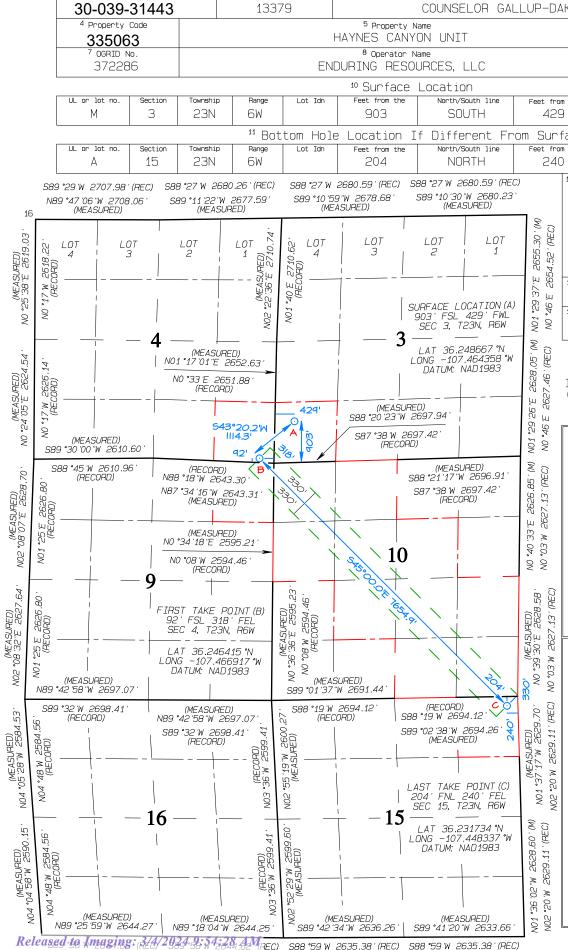
¹⁸ SURVEYOR CERTIFICATION

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

Date Revised: OCTOBER 24, 2023 Survey Date: JANUARY 12, 2023

Signature and Seal of Professional Surveyor





S88 °59 W 2635.38 ' (REC)

S88 °59 W 2635.38 ' (REC)

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Drive Santa Fe, NM 87505

Form C-102 Revised Rage 4.0641 Submit one copy to Appropriate District Office

AMENDED REPORT

¹ API Number ² Pool Code ³ Pool Name 30-039-31443 COUNSELOR GALLUP-DAKOTA OIL POOL 13379 6 Well Number ⁴ Property Code ⁵ Property Name HAYNES CANYON UNIT 428H 335063 ⁸ Operator Name OGRID No 9 Elevation ENDURING RESOURCES, LLC 372286 6703 ¹⁰ Surface Location

UL or lot no. Section Township Feet from the North/South line East/West line County Feet from the 903 3 23N SOUTH 429 RIO ARRIBA Μ 6W WEST ¹¹ Bottom Hole Location If Different From Surface UI or lot on Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 15 23N 6W 204 NORTH 240 EAST RIO ARRIBA Α 12 Dedicated Acres 560.0 Acres S88 °27 W 2680.59 ' (REC) S88 °27 W 2680.59 ' (REC) S88 °27 W 2680.26 ' (REC) S89 °10 '59 "W 2678.68 (MEASURED) S89 °10 '30 "W 2680.23 S89 °11 '22 "W 2677.59 SW/4 SW/4 -Section 3 (MEASURED) (MEASURED) (MEASURED) SE/4 SE/4 Section 4 B NE/4 NE/4 Section 9 30 NE/4 SW/4, SW/4 NE/4 LOT LOT LOT LOT LOT LOT LOT LOT 62 NW/4, SE/4 - Section 10 2655.. 1 52 NE/4 NE/4 - Section 15 13 Joint or Infill 14 Consolidation Code Ш

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

¹⁷ OPERATOR CERTIFICATION

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

Shaw-Marie Ford 02/07/24 Signature

Shaw-Marie Ford

sford@djrllc.com

E-mail Address

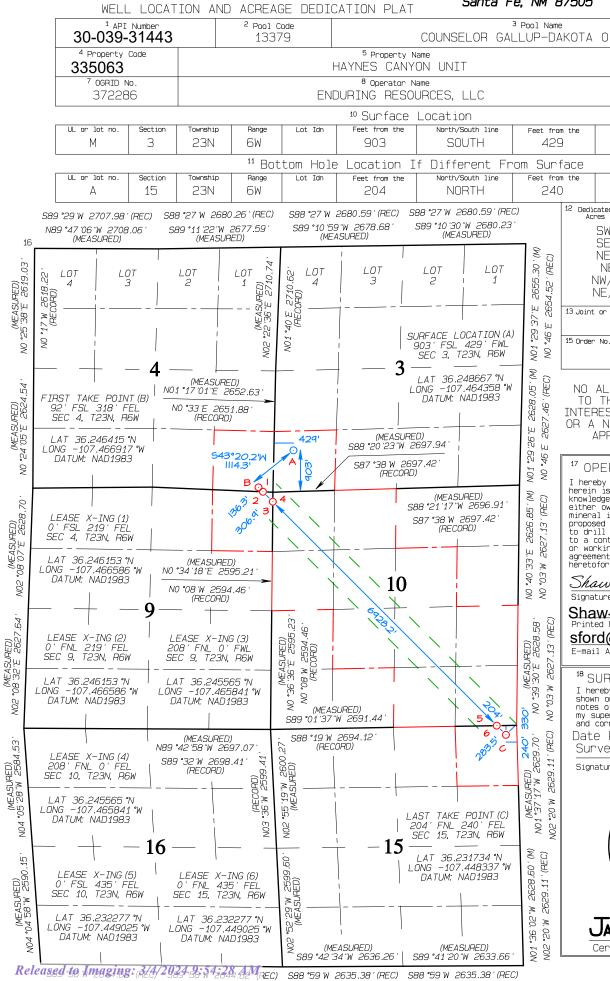
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Date Revised: OCTOBER 24, 2023 Survey Date: JANUARY 12, 2023

Signature and Seal of Professional Surveyor







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

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

WELL INFORMATION:

Name: Haynes Canyon Unit 428H

API Number: 30-039-31443
State: New Mexico
County: Rio Arriba

Surface Elevation: 6,703 ft ASL (GL) 6,728 ft ASL (KB)

Surface Location: 3-23-6 Sec-Twn-Rng 903 ft FSL 429 ft FWL

36.248667 N latitude 107.464358 W longitude (NAD 83) 15-23-6 Sec-Twn-Rng 204 ft FNL 240 ft FEL

36.231734 ° N latitude 107.448337 ° W longitude (NAD 83)

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

South on US Hwy 550 for 53.8 miles to MM 97.6; Left (North) on CR #379 (State Hwy 403) for 1.3 miles to fork; Right (North) remaining on CR #379 for 1.5 miles to location access on left; Haynes Canyon Unit 428H Pad. From East to

West 430H, 428H, 442H, 440H).

GEOLOGIC AND RESERVOIR INFORMATION:

| | gn | | |
|--|----|--|--|
| | | | |
| | | | |
| | | | |

BH Location:

| Formation Tops | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O/G/W | Pressure |
|-----------------|--------------|-------------|------------|-------|-------------|
| Ojo Alamo | 5,325 | 1,403 | 1,403 | W | normal |
| Kirtland | 5,225 | 1,503 | 1,503 | W | normal |
| Fruitland | 5,000 | 1,728 | 1,732 | G, W | sub |
| Pictured Cliffs | 4,765 | 1,963 | 1,977 | G, W | sub |
| Lewis | 4,615 | 2,113 | 2,340 | G, W | normal |
| Chacra | 4,320 | 2,408 | 2,463 | G, W | normal |
| Cliff House | 3,210 | 3,518 | 3,679 | G, W | sub |
| Menefee | 3,204 | 3,524 | 3,685 | G, W | normal |
| Point Lookout | 2,503 | 4,225 | 4,493 | G, W | normal |
| Mancos | 2,228 | 4,500 | 4,724 | O,G | sub (~0.38) |
| Gallup (MNCS_A) | 1,888 | 4,840 | 5,064 | O,G | sub (~0.38) |
| MNCS_B | 1,803 | 4,925 | 5,154 | O,G | sub (~0.38) |
| MNCS_C | 1,663 | 5,065 | 5,291 | O,G | sub (~0.38) |
| MNCS_Cms | 1,598 | 5,130 | 5,359 | O,G | sub (~0.38) |
| MNCS_D | 1,523 | 5,205 | 5,441 | O,G | sub (~0.38) |
| MNCS_E | 1,439 | 5,289 | 5,544 | O,G | sub (~0.38) |
| MNCS_F | 1,394 | 5,334 | 5,605 | O,G | sub (~0.38) |
| MNCS_G | 1,310 | 5,418 | 5,743 | O,G | sub (~0.38) |
| MNCS_H | 1,270 | 5,458 | 5,833 | O,G | sub (~0.38) |
| MNCS_I | 0 | 0 | 0 | O,G | sub (~0.38) |
| FTP TARGET | 1,265 | 5,463 | 5,849 | O,G | sub (~0.38) |
| PROJECTED LTP | 1,277 | 5,451 | 13,508 | 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: 2,350 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,150 psi

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

casing to TD.

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

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

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

DRILLING RIG INFORMATION:

Contractor: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

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

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

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 25

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

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

2)

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

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

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

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

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

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

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

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

DETAILED DRILLING PLAN:

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

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

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

| | | | FL | | 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 | 792 | 116,634 | 116,634 |
| Min. S.F. | | | | | 7.39 | 3.45 | 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

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

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

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

Cu Ft Slurry 505.3 **INTERMEDIATE:** Drill as per directional plan to casing setting depth, run casing, cement casing to surface.

| 350 ft (MD) | to | 3,848 ft (MD) | Hole Section Length: | 3,498 ft |
|--------------|----|----------------|----------------------|----------|
| 350 ft (TVD) | to | 3,674 ft (TVD) | Casing Required: | 3,848 ft |

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

Hole Size: 12-1/4"

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

Logging: None

| Cooling Spaces | | \A/4 /Ib /f4\ | Cuada | Comm | Callanas (nai) | Demot (mai) | Tens. Body | Tens. Conn |
|----------------|-------|---------------|-------|-------|----------------|-------------|------------|------------|
| Casing Specs: | | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | (lbs) | (lbs) |
| Specs | 9.625 | 36.0 | J-55 | LTC | 2,020 | 3,520 | 564,000 | 453,000 |
| Loading | | | | | 1,605 | 1,360 | 215,341 | 215,341 |
| Min. S.F. | | | | | 1.26 | 2.59 | 2.62 | 2.10 |

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

| Stage | 1 | |
|-------|---|--|
| | | |

| | | | Yield | Water | | Planned TOC | Total Cmt | Total Cmt (cu |
|--------------|---------------|--------------|-----------|----------|----------|-------------|-----------|---------------|
| Cement: | Type | Weight (ppg) | (cuft/sk) | (gal/sk) | % Excess | (ft MD) | (sx) | ft) |
| . Spacer | D-Mud Breaker | 8.5 | | | | 0 | 10 bbls | |
| | 90:10 Type | | | | | | | |
| Lead | III:POZ | 12.5 | 2.140 | 12.05 | 70% | 0 | 805 | 1,723 |
| Tail | Type III | 14.6 | 1.380 | 6.64 | 20% | 3,348 | 150 | 207 |
| Displacement | 294 | est bbls | | | | | | |

Annular Capacity

0.3627 cuft/ft

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

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

9-5/8" 36# ID 8.921

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

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

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

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

| 3,848 | ft (MD) | to | 13,508 ft (MD) | Hole Section Length: | 9,660 ft |
|-------|----------|----|----------------|----------------------|-----------|
| 3,674 | ft (TVD) | to | 5,451 ft (TVD) | Casing Required: | 13,508 ft |

| Estimated KOP: | 5,149 | ft (MD) | 4,925 | ft (TVD) |
|--------------------------------|-------|---------|-------|----------|
| Estimated Landing Point (FTP): | 5,849 | ft (MD) | 5,463 | ft (TVD) |
| Estimated Lateral Length: | 7,659 | ft (MD) | | |

| | | | | | ΥP | | | |
|--------|------|-----------|--------------|------|---------------|------|-------|-------------|
| Fluid: | Type | MW (ppg) | WPS ppm | НТНР | (lb/100 sqft) | ES | OWR | Comment |
| | | | | | | | | WBM as |
| | ОВМ | 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

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

| | | | | | | | 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 | | | | | 2,693 | 9,010 | 298,155 | 298,155 |
| Min. S.F. | | | | | 2.77 | 1.18 | 1.83 | 1.49 |

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

| | | | Yield | Water | | Planned TOC | Total Cmt | Total Cmt (cu |
|---------|-------------------|--------------|-----------|----------|----------|-------------|-----------|---------------|
| Cement: | Type | Weight (ppg) | (cuft/sk) | (gal/sk) | % Excess | (ft MD) | (sx) | ft) |
| Spacer | IntegraGuard Star | 11 | | 31.6 | | 0 | 60 bbls | |
| Lead | ASTM type I/II | 12.4 | 2.370 | 13.40 | 50% | 0 | 564 | 1,337 |
| Tail | G:POZ blend | 13.3 | 1.570 | 7.70 | 10% | 4,724 | 1,410 | 2,214 |

Displacement 119 est bbls

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

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

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

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

| Spacer | | Avis 616 viscosifier 11.6 lb/bbl | FP24 Defoamer .5 | | SS201 Surfactant 1 gal/bbl | | | |
|--------|------------|-------------------------------------|------------------|-----------------------------|-------------------------------|------------------|---|---|
| Lead | | BA90 Bonding | | FL24 Fluid Loss .5% BWOB | | R7C Retarder .2% | FP24 Defoamer 0.3% BWOB, Anti- Static .01 lb/sx | |
| Tail | Type G 50% | , , , | BA90 Bonding | | FL24 Fluid Loss .4% BWOB | | R3 Retarder .5% | FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx |

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 7,559

Est Frac Inform: 31 Frac Stages 121,000 bbls slick water 9,830,000 lbs proppant

Flowback: Flow back through production tubing as pressures allow

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

ESTIMATED START DATES:

 Drilling:
 11/1/2023

 Completion:
 12/31/2023

 Production:
 2/14/2024

Prepared by: Alec Bridge 12/20/2021 Updated: Greg Olson 2/20/2023

Greg Olson 3/27/2023 G Olson 7/1/2023 G Olson 2/6/2024 WELL NAME: Haynes Canyon Unit 428H

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

API Number: 30-039-31443
AFE Number: Not yet assigned
ER Well Number: Not yet assigned

State: New Mexico

County: Rio Arriba

Surface Elev.: 6,703 ft ASL (GL) 6,728 ft ASL (KB)

 Surface Location:
 3-23-6
 Sec-Twn- Rng
 903
 ft FSL
 429
 ft FWL

 BH Location:
 15-23-6
 Sec-Twn- Rng
 204
 ft FNL
 240
 ft FEL

Driving Directions: FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM: Lat Len (ft) 7,659 ft

South on US Hwy 550 for 53.8 miles to MM 97.6; Left (North) on CR #379 (State Hwy 403) for 1.3 miles to fork; Right (North) remaining on CR

#379 for 1.5 miles to location access on left; Haynes Canyon Unit 428H Pad. From East to West 430H, 428H, 442H, 440H).

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 | 3,848 | 9.625 | 36.0 | J-55 | LTC | 0 | 3,848 |
| Production | 8.500 | 13,508 | 5.500 | 17.0 | P-110 | LTC | 0 | 13,508 |

CEMENT PROPERTIES SUMMARY:

| | | | | | | TOC | | |
|---------------|-----------------|----------|--------------|--------------|----------|---------|------------|--------------|
| | Туре | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | % Excess | (ft MD) | Total (sx) | Cu Ft Slurry |
| Surface | TYPE III | 14.6 | 1.39 | 6.686 | 100% | 0 | 364 | 505 |
| Inter. (Lead) |):10 Type III:P | 12.5 | 2.14 | 12.05 | 70% | 0 | 805 | 1,723 |
| Inter. (Tail) | Type III | 14.6 | 1.38 | 6.64 | 20% | 3348 | 150 | 207 |
| Prod. (Lead) | ASTM type I/I | 12.4 | 2.370 | 13.4 | 50% | 0 | 564 | 1,337 |
| Prod. (Tail) | G:POZ blend | 13.3 | 1.570 | 7.7 | 10% | 4724 | 1410 | 2,214 |

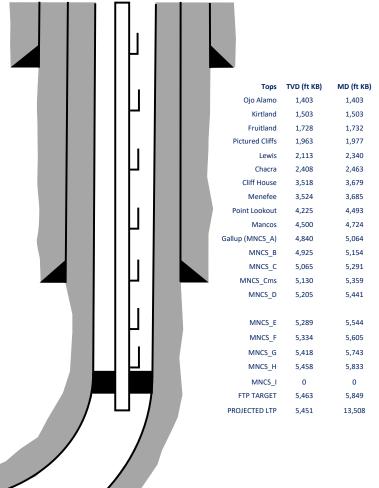
COMPLETION / PRODUCTION SUMMARY:

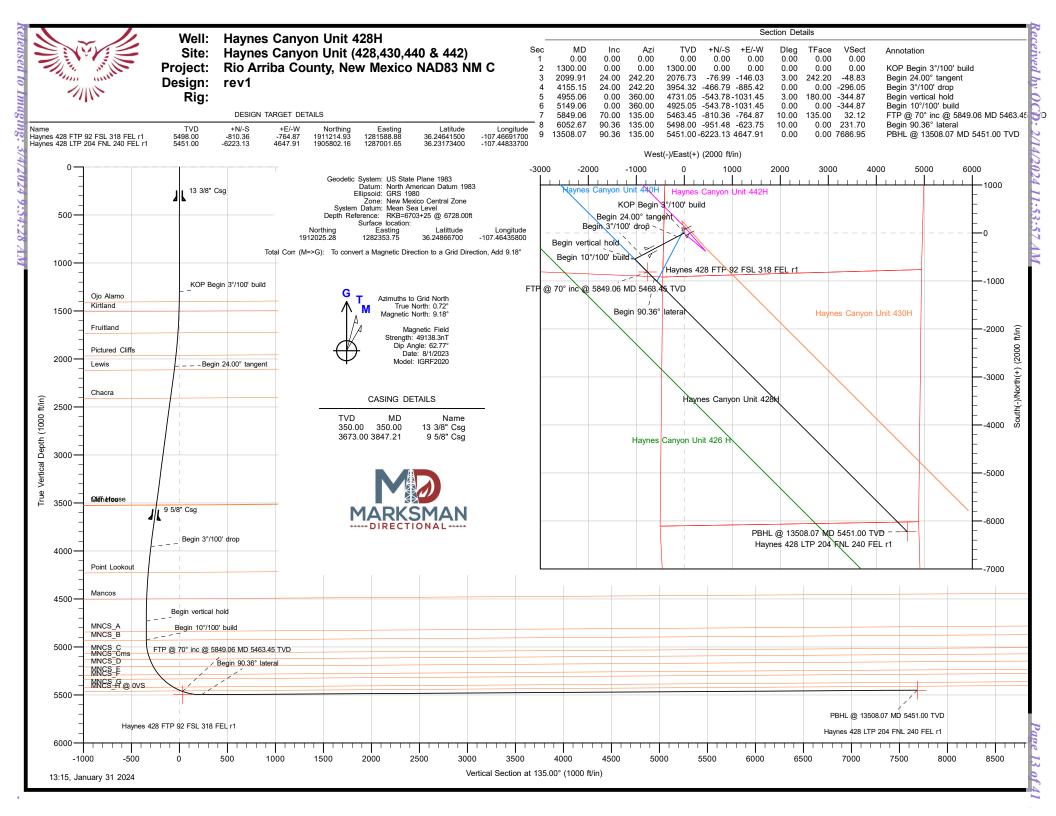
Frac: 7559

Flowback: Flow back through production tubing as pressures allow

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

| QUIC | CK REFERENCE |
|---|--------------------------------------|
| Sur TD (MD) | 350 ft |
| Int TD (MD) | 3,848 ft |
| KOP (MD) | 5,149 ft |
| KOP (TVD) | 4,925 ft |
| Target (TVD) | 5,463 ft |
| Curve BUR | 10 °/100 ft |
| POE (MD) | 5,849 ft |
| TD (MD) | 13,508 ft |
| Lat Len (ft) | 7,659 ft |
| Curve BUR POE (MD) TD (MD) Lat Len (ft) | 10 °/100 ft 5,849 ft 13,508 ft |







Site

Design

Planning Report

DT Jan1924v17 Database:

Company: **Enduring Resources LLC**

Project: Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole

Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft

Minimum Curvature

Project Rio Arriba County, New Mexico NAD83 NM C

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

System Datum: Mean Sea Level

Haynes Canyon Unit (428,430,440 & 442)

Northing: 1,912,025.28 usft 36.24866700 Site Position: Latitude: From: Lat/Long Easting: 1,282,353.75 usft Longitude: -107.46435800

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

Well Haynes Canyon Unit 428H, Surf loc: 903 FSL 429 FWL Section 03-T23N-R06W

0.00 ft 1,912,025.28 usft 36.24866700 **Well Position** +N/-S Northing: Latitude: 1,282,353.75 usft -107.46435800 +E/-W 0.00 ft Easting: Longitude:

Position Uncertainty 0.00 ft Wellhead Elevation: ft Ground Level: 6,703.00 ft

Grid Convergence: -0.72 °

rev1

Wellbore Original Hole Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) 49,138.30694754 IGRF2020 8/1/2023 8.46 62.77

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

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 135.00 0.00 0.00 0.00

MWD

1/31/2024 Plan Survey Tool Program Date

13,508.02

0.00

Depth From Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks

rev1 (Original Hole) OWSG MWD - Standard

1/31/2024 1:20:16PM COMPASS 5000.17 Build 02 Page 1



DT_Jan1924v17 Database:

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole

Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,099.91 | 24.00 | 242.20 | 2,076.73 | -76.99 | -146.03 | 3.00 | 3.00 | 0.00 | 242.20 | |
| 4,155.15 | 24.00 | 242.20 | 3,954.32 | -466.79 | -885.42 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,955.06 | 0.00 | 360.00 | 4,731.05 | -543.78 | -1,031.45 | 3.00 | -3.00 | 0.00 | 180.00 | |
| 5,149.06 | 0.00 | 360.00 | 4,925.05 | -543.78 | -1,031.45 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,849.06 | 70.00 | 135.00 | 5,463.45 | -810.36 | -764.87 | 10.00 | 10.00 | 0.00 | 135.00 | |
| 6,052.67 | 90.36 | 135.00 | 5,498.00 | -951.48 | -623.75 | 10.00 | 10.00 | 0.00 | 0.00 | |
| 13,508.07 | 90.36 | 135.00 | 5,451.00 | -6,223.13 | 4,647.91 | 0.00 | 0.00 | 0.00 | 0.00 | Haynes 428 LTP 204 |



Database: DT_Jan1924v17

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

| Planned Sui | rvey | | | | | | | | | |
|-------------|--|-------------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|----------------------------|---------------------------|
| D | asured lepth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| | 0.00 100.00 200.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 100.00 200.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| 12 | 300.00 350.00 3/8" Csg | 0.00 0.00 | 0.00 0.00 | 300.00 350.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 13 | 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 500.00 600.00 | 0.00 0.00 | 0.00 0.00 | 500.00 600.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | 700.00 800.00 | 0.00 0.00 | 0.00 0.00 | 700.00 800.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | 900.00 1,000.00 1,100.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 900.00 1,000.00 1,100.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| | 1,200.00 1,300.00 | 0.00 | 0.00 0.00 | 1,200.00 1,300.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | • | °/100' build | | | | | | | | |
| | 1,400.00 1,403.06 o Alamo | 3.00 3.09 | 242.20 242.20 | 1,399.95 1,403.01 | -1.22 -1.30 | -2.32 -2.46 | -0.77 -0.82 | 3.00 3.00 | 3.00 3.00 | 0.00 0.00 |
| - | 1,500.00 1,503.40 | 6.00 6.10 | 242.20 242.20 | 1,499.63 1,503.02 | -4.88 -5.05 | -9.26 -9.57 | -3.09 -3.20 | 3.00 3.00 | 3.00 3.00 | 0.00 0.00 |
| | rtland 1,600.00 | 9.00 | 242.20 | 1,598.77 | -10.97 | -20.80 | -6.95 | 3.00 | 3.00 | 0.00 |
| | 1,700.00 1,731.76 | 12.00 12.95 | 242.20 242.20 | 1,697.08 1,728.09 | -19.46 -22.66 | -36.92 -42.99 | -12.34 -14.37 | 3.00 3.00 | 3.00 3.00 | 0.00 0.00 |
| | 1,800.00 1,900.00 1,977.33 | 15.00 18.00 20.32 | 242.20 242.20 242.20 | 1,794.31 1,890.18 1,963.22 | -30.35 -43.59 -55.43 | -57.57 -82.69 -105.14 | -19.25 -27.65 -35.15 | 3.00 3.00 3.00 | 3.00 3.00 3.00 | 0.00 0.00 0.00 |
| | ctured Clif | | 242.20 | 1,500.22 | -00.40 | -100.14 | -00.10 | 0.00 | 0.00 | 0.00 |
| | 2,000.00 2,099.91 | 21.00 24.00 | 242.20 242.20 | 1,984.43 2,076.73 | -59.16 -76.99 | -112.21 -146.03 | -37.52 -48.83 | 3.00 3.00 | 3.00 3.00 | 0.00 0.00 |
| | gin 24.00° | • | 040.00 | 0.440.04 | 04.50 | 400.45 | F2.0F | 0.00 | 0.00 | 0.00 |
| Le | 2,139.98 wis 2,200.00 | 24.00 | 242.20 | 2,113.34 | -84.59 -95.97 | -160.45 -182.04 | -53.65 -60.87 | 0.00 | 0.00 | 0.00 |
| 2 | 2,300.00 | 24.00 | 242.20 | 2,259.52 | -114.94 | -218.01 | -72.89 | 0.00 | 0.00 | 0.00 |
| 2 | 2,400.00 2,463.16 nacra | 24.00 24.00 | 242.20 242.20 | 2,350.88 2,408.58 | -133.90 -145.88 | -253.99 -276.71 | -84.92 -92.52 | 0.00 0.00 | 0.00 | 0.00 0.00 |
| 2 | 2,500.00 2,600.00 2,700.00 | 24.00 24.00 24.00 | 242.20 242.20 242.20 | 2,442.24 2,533.59 2,624.95 | -152.87 -171.84 -190.80 | -289.96 -325.94 -361.92 | -96.95 -108.98 -121.01 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| 2 | 2,800.00 2,900.00 3,000.00 | 24.00 24.00 24.00 | 242.20 242.20 242.20 | 2,716.30 2,807.66 2,899.02 | -209.77 -228.74 -247.70 | -397.89 -433.87 -469.84 | -133.04 -145.07 -157.10 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| ; | 3,100.00 3,200.00 | 24.00 24.00 | 242.20 242.20 | 2,990.37 3,081.73 | -266.67 -285.63 | -505.82 -541.80 | -169.13 -181.15 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| ; | 3,300.00 3,400.00 3,500.00 | 24.00 24.00 24.00 | 242.20 242.20 242.20 | 3,173.09 3,264.44 3,355.80 | -304.60 -323.57 -342.53 | -577.77 -613.75 -649.72 | -193.18 -205.21 -217.24 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| | 3,600.00 | 24.00 | 242.20 | 3,447.16 | -361.50 | -685.70 | -229.27 | 0.00 | 0.00 | 0.00 |



Database: Company: DT_Jan1924v17

Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442)

Site: Well:

rev1

Wellbore:

Project:

Haynes Canyon Unit 428H Original Hole

Design:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Local Co-ordinate Reference:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft Grid

| ed Survey | | | | | | | | | |
|---------------------------|--------------------|------------------|---------------------------|--------------------|---|-----------------------------|-----------------------------|----------------------------|---------------------------|
| | | | | | | | | | _ |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| | | | | | | | | | |
| 3,679.19 Cliff House | 24.00 | 242.20 | 3,519.50 | -376.52 | -714.19 | -238.79 | 0.00 | 0.00 | 0.00 |
| | | 0.40.00 | 0.504.50 | 077.50 | 740.40 | 000.45 | 0.00 | 0.00 | 0.00 |
| 3,684.67 | 24.00 | 242.20 | 3,524.50 | -377.56 | -716.16 | -239.45 | 0.00 | 0.00 | 0.00 |
| Menefee 3,700.00 | 24.00 | 242.20 | 3,538.51 | -380.47 | -721.68 | -241.30 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 24.00 | 242.20 | 3,629.87 | -399.43 | -757.65 | -253.33 | 0.00 | 0.00 | 0.00 |
| 3,847.21 | 24.00 | 242.20 | 3,673.00 | -408.39 | -774.64 | -259.01 | 0.00 | 0.00 | 0.00 |
| 9 5/8" Csg | 24.00 | 242.20 | 2 724 22 | 410.40 | 702.62 | 265.26 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 24.00 | 242.20 | 3,721.23 | -418.40 | -793.63 | -265.36 | 0.00 | | |
| 4,000.00 4,100.00 | 24.00 24.00 | 242.20 242.20 | 3,812.58 3,903.94 | -437.37 -456.33 | -829.60 -865.58 | -277.38 -289.41 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 4,155.15 | 24.00 | 242.20 | 3,954.32 | -466.79 | -885.42 | -296.05 | 0.00 | 0.00 | 0.00 |
| Begin 3°/10 | | | , | | | | | | |
| 4,200.00 | 22.65 | 242.20 | 3,995.51 | -475.08 | -901.13 | -301.30 | 3.00 | -3.00 | 0.00 |
| 4,300.00 | 19.65 | 242.20 | 4,088.76 | -491.90 | -933.05 | -311.97 | 3.00 | -3.00 | 0.00 |
| 4,400.00 | 16.65 | 242.20 | 4,183.77 | -506.43 | -960.60 | -321.18 | 3.00 | -3.00 | 0.00 |
| 4,442.94 | 15.36 | 242.20 | 4,225.04 | -511.95 | -971.07 | -324.69 | 3.00 | -3.00 | 0.00 |
| Point Look 4,500.00 | 13.65 | 242.20 | 4,280.28 | -518.62 | -983.72 | -328.91 | 3.00 | -3.00 | 0.00 |
| 4,600.00 | 10.65 | 242.20 | 4,378.03 | -528.43 | -1,002.34 | -335.14 | 3.00 | -3.00 | 0.00 |
| 4,700.00 | 7.65 | 242.20 | 4,476.75 | -535.85 | -1,016.41 | -339.84 | 3.00 | -3.00 | 0.00 |
| 4,723.59 | 6.94 | 242.20 | 4,500.14 | -537.25 | -1,019.06 | -340.73 | 3.00 | -3.00 | 0.00 |
| Mancos | | | | | | | | | |
| 4,800.00 | 4.65 | 242.20 | 4,576.16 | -540.85 | -1,025.88 | -343.01 | 3.00 | -3.00 | 0.00 |
| 4,900.00 4,955.06 | 1.65 0.00 | 242.20 360.00 | 4,676.00 4,731.05 | -543.41 -543.78 | -1,030.75 -1,031.45 | -344.64 -344.87 | 3.00 3.00 | -3.00 -3.00 | 0.00 0.00 |
| Begin verti | | | 1,121122 | | ., | | | | |
| 5,000.00 | 0.00 | 0.00 | 4,775.99 | -543.78 | -1,031.45 | -344.87 | 0.00 | 0.00 | 0.00 |
| 5,064.18 | 0.00 | 0.00 | 4,840.17 | -543.78 | -1,031.45 | -344.87 | 0.00 | 0.00 | 0.00 |
| MNCS_A | | | | | | | | | |
| 5,100.00 | 0.00 | 0.00 | 4,875.99 | -543.78 | -1,031.45 | -344.87 | 0.00 | 0.00 | 0.00 |
| 5,149.06 | 0.00 | 0.00 | 4,925.05 | -543.78 | -1,031.45 | -344.87 | 0.00 | 0.00 | 0.00 |
| Begin 10°/1 5,154.18 | 0.51 | 135.00 | 4,930.17 | -543.80 | -1,031.43 | -344.85 | 10.00 | 10.00 | 0.00 |
| MNCS_B | | | 1,22211 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | |
| 5,200.00 | 5.09 | 135.00 | 4,975.92 | -545.38 | -1,029.85 | -342.61 | 10.00 | 10.00 | 0.00 |
| 5,250.00 | 10.09 | 135.00 | 5,025.47 | -550.05 | -1,025.18 | -336.01 | 10.00 | 10.00 | 0.00 |
| 5,290.50 | 14.14 | 135.00 | 5,065.06 | -556.06 | -1,019.17 | -327.50 | 10.00 | 10.00 | 0.00 |
| MNCS_C | 45.00 | 405.00 | F 074 05 | | 4 0 4 7 4 7 | 005.44 | 40.00 | 40.00 | 2.22 |
| 5,300.00 5,350.00 | 15.09 20.09 | 135.00 135.00 | 5,074.25 5,121.90 | -557.76 -568.44 | -1,017.47 -1,006.79 | -325.11 -310.00 | 10.00 10.00 | 10.00 10.00 | 0.00 0.00 |
| 5,350.00 | 20.95 | 135.00 | 5,121.90 | -506.44 -570.57 | -1,006.79 | -310.00 | 10.00 | 10.00 | 0.00 |
| MNCS_Cm | | | | | | | | | |
| 5,400.00 | 25.09 | 135.00 | 5,168.04 | -582.02 | -993.21 | -290.79 | 10.00 | 10.00 | 0.00 |
| 5,441.22 | 29.22 | 135.00 | 5,204.71 | -595.32 | -979.91 | -271.99 | 10.00 | 10.00 | 0.00 |
| MNCS_D | | | | | | | | | |
| 5,450.00 | 30.09 | 135.00 | 5,212.34 | -598.39 | -976.84 | -267.64 | 10.00 | 10.00 | 0.00 |
| 5,500.00 5,543.87 | 35.09 39.48 | 135.00 135.00 | 5,254.45 5,289.35 | -617.43 -636.22 | -957.80 -939.01 | -240.72 -214.15 | 10.00 10.00 | 10.00 10.00 | 0.00 0.00 |
| 5,543.67 MNCS_E | 39.40 | 133.00 | 5,203.30 | -050.22 | -303.01 | -2 14.10 | 10.00 | 10.00 | 0.00 |
| 5,550.00 | 40.00 | 125.00 | E 204 06 | 620.00 | 026.24 | -210.22 | 10.00 | 10.00 | 0.00 |
| 5,550.00 | 40.09 45.09 | 135.00 135.00 | 5,294.06 5,330.86 | -638.99 -662.91 | -936.24 -912.32 | -210.22 -176.39 | 10.00 10.00 | 10.00 10.00 | 0.00 |



DT_Jan1924v17 Database: Company:

Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

| • | 1011 | | | | | | | | |
|---------------------------|--------------------|------------------|---------------------------|------------------------|------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| ed 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) |
| 5,604.60 | 45.55 | 135.00 | 5,334.09 | -665.22 | -910.01 | -173.13 | 10.00 | 10.00 | 0.00 |
| MNCS_F | | | | | | | | | |
| 5,650.00 | 50.09 | 135.00 | 5,364.56 | -689.01 | -886.22 | -139.49 | 10.00 | 10.00 | 0.00 |
| 5,700.00 | 55.09 | 135.00 | 5,394.93 | -717.09 | -858.14 | -99.78 | 10.00 | 10.00 | 0.00 |
| 5,743.41 | 59.44 | 135.00 | 5,418.40 | -742.90 | -832.33 | -63.27 | 10.00 | 10.00 | 0.00 |
| MNCS_G | | .00.00 | 0,110.10 | 2.00 | 002.00 | 00.2. | | | 0.00 |
| 5,750.00 | 60.09 | 135.00 | 5,421.72 | -746.93 | -828.30 | -57.58 | 10.00 | 10.00 | 0.00 |
| 5,800.00 | 65.09 | 135.00 | 5,444.72 | -778.30 | -796.93 | -13.21 | 10.00 | 10.00 | 0.00 |
| 5,833.38 | 68.43 | 135.00 | 5,457.89 | -799.99 | -775.24 | 17.46 | 10.00 | 10.00 | 0.00 |
| MNCS_H@ | 0VS | | | | | | | | |
| 5,849.06 | 70.00 | 135.00 | 5,463.45 | -810.36 | -764.87 | 32.12 | 10.00 | 10.00 | 0.00 |
| FTP @ 70° | inc @ 5849.06 MD | 5463.45 TVD | | | | | | | |
| 5,900.00 | 75.09 | 135.00 | 5,478.73 | -844.71 | -730.52 | 80.70 | 10.00 | 10.00 | 0.00 |
| 5,950.00 | 80.09 | 135.00 | 5,489.47 | -879.22 | -696.01 | 129.52 | 10.00 | 10.00 | 0.00 |
| 6,000.00 | 85.09 | 135.00 | 5,495.91 | -914.27 | -660.96 | 179.08 | 10.00 | 10.00 | 0.00 |
| 6,052.67 | 90.36 | 135.00 | 5,498.00 | -951.48 | -623.75 | 231.70 | 10.00 | 10.00 | 0.00 |
| Begin 90.36 | 6° lateral | | | | | | | | |
| 6,100.00 | 90.36 | 135.00 | 5,497.70 | -984.94 | -590.29 | 279.02 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 90.36 | 135.00 | 5,497.07 | -1,055.65 | -519.58 | 379.02 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 90.36 | 135.00 | 5,496.44 | -1,126.36 | -448.87 | 479.02 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 90.36 | 135.00 | 5,495.81 | -1,197.07 | -378.16 | 579.02 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 90.36 | 135.00 | 5,495.18 | -1,267.78 | -307.45 | 679.01 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.36 | 135.00 | 5,494.55 | -1,338.49 | -236.74 | 779.01 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.36 | 135.00 | 5,493.92 | -1,409.20 | -166.03 | 879.01 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.36 | 135.00 | 5,493.29 | -1,479.91 | -95.32 | 979.01 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.36 | 135.00 | 5,492.66 | -1,550.61 | -24.61 | 1,079.01 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.36 | 135.00 | 5,492.02 | -1,621.32 | 46.10 | 1,179.00 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.36 | 135.00 | 5,491.39 | -1,692.03 | 116.80 | 1,279.00 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.36 | 135.00 | 5,490.76 | -1,762.74 | 187.51 | 1,379.00 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.36 | 135.00 | 5,490.13 | -1,833.45 | 258.22 | 1,479.00 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.36 | 135.00 | 5,489.50 | -1,904.16 | 328.93 | 1,579.00 | 0.00 | 0.00 | 0.00 |
| 7,500.00 7,600.00 | 90.36 90.36 | 135.00 135.00 | 5,488.87 5,488.24 | -1,974.87 -2,045.58 | 399.64 470.35 | 1,678.99 1,778.99 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| | | | | | | , | | | |
| 7,700.00 | 90.36 | 135.00 | 5,487.61 | -2,116.29 | 541.06 | 1,878.99 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.36 | 135.00 | 5,486.98 | -2,187.00 | 611.77 | 1,978.99 | 0.00 | 0.00 | 0.00 |
| 7,900.00 8,000.00 | 90.36 90.36 | 135.00 135.00 | 5,486.35 5,485.72 | -2,257.71 -2,328.42 | 682.48 753.19 | 2,078.99 2,178.98 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 8,100.00 | 90.36 | 135.00 | 5,485.09 | -2,399.13 | 823.90 | 2,176.96 | 0.00 | 0.00 | 0.00 |
| , | | | | | | | | | |
| 8,200.00 8,300.00 | 90.36 90.36 | 135.00 135.00 | 5,484.46 5,483.83 | -2,469.83 -2,540.54 | 894.61 965.32 | 2,378.98 2,478.98 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 8,400.00 | 90.36 | 135.00 | 5,483.20 | -2,540.54 -2,611.25 | 1,036.03 | 2,476.96 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.36 | 135.00 | 5,482.57 | -2,681.96 | 1,106.74 | 2,678.97 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.36 | 135.00 | 5,481.94 | -2,752.67 | 1,177.44 | 2,778.97 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.36 | 135.00 | 5,481.31 | -2,823.38 | 1,248.15 | 2,878.97 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.36 | 135.00 | 5,481.31 | -2,823.38 -2,894.09 | 1,248.15 | 2,878.97 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.36 | 135.00 | 5,480.05 | -2,964.80 | 1,310.00 | 3,078.97 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.36 | 135.00 | 5,479.42 | -3,035.51 | 1,460.28 | 3,178.96 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.36 | 135.00 | 5,478.79 | -3,106.22 | 1,530.99 | 3,278.96 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.36 | 135.00 | 5,478.16 | -3,176.93 | 1,601.70 | 3,378.96 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.36 | 135.00 | 5,477.53 | -3,247.64 | 1,672.41 | 3,478.96 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.36 | 135.00 | 5,476.90 | -3,318.35 | 1,743.12 | 3,578.96 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.36 | 135.00 | 5,476.27 | -3,389.05 | 1,813.83 | 3,678.95 | 0.00 | 0.00 | 0.00 |
| , | 90.36 | 135.00 | 5,475.64 | -3,459.76 | 1,884.54 | 3,778.95 | 0.00 | 0.00 | 0.00 |



Project:

Site:

Planning Report

Database: Company: DT_Jan1924v17 Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|-----------------------------|----------------------------|---------------------------|
| 9,700.00 | 90.36 | 135.00 | 5,475.00 | -3,530.47 | 1,955.25 | 3,878.95 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.36 | 135.00 | 5,474.37 | -3,601.18 | 2,025.96 | 3,978.95 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.36 | 135.00 | 5,473.74 | -3,671.89 | 2,096.67 | 4,078.95 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.36 | 135.00 | 5,473.11 | -3,742.60 | 2,167.37 | 4,178.95 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.36 | 135.00 | 5,472.48 | -3,813.31 | 2,238.08 | 4,278.94 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.36 | 135.00 | 5,471.85 | -3,884.02 | 2,308.79 | 4,378.94 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.36 | 135.00 | 5,471.22 | -3,954.73 | 2,379.50 | 4,478.94 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.36 | 135.00 | 5,470.59 | -4,025.44 | 2,450.21 | 4,578.94 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.36 | 135.00 | 5,469.96 | -4,096.15 | 2,520.92 | 4,678.94 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.36 | 135.00 | 5,469.33 | -4,166.86 | 2,591.63 | 4,778.93 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.36 | 135.00 | 5,468.70 | -4,237.57 | 2,662.34 | 4,878.93 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.36 | 135.00 | 5,468.07 | -4,308.27 | 2,733.05 | 4,978.93 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.36 | 135.00 | 5,467.44 | -4,378.98 | 2,803.76 | 5,078.93 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.36 | 135.00 | 5,466.81 | -4,449.69 | 2,874.47 | 5,178.93 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.36 | 135.00 | 5,466.18 | -4,520.40 | 2,945.18 | 5,278.92 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.36 | 135.00 | 5,465.55 | -4,591.11 | 3,015.89 | 5,378.92 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.36 | 135.00 | 5,464.92 | -4,661.82 | 3,086.60 | 5,478.92 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.36 | 135.00 | 5,464.29 | -4,732.53 | 3,157.31 | 5,578.92 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.36 | 135.00 | 5,463.66 | -4,803.24 | 3,228.01 | 5,678.92 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.36 | 135.00 | 5,463.03 | -4,873.95 | 3,298.72 | 5,778.91 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.36 | 135.00 | 5,462.40 | -4,944.66 | 3,369.43 | 5,878.91 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.36 | 135.00 | 5,461.77 | -5,015.37 | 3,440.14 | 5,978.91 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.36 | 135.00 | 5,461.14 | -5,086.08 | 3,510.85 | 6,078.91 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.36 | 135.00 | 5,460.51 | -5,156.79 | 3,581.56 | 6,178.91 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.36 | 135.00 | 5,459.88 | -5,227.49 | 3,652.27 | 6,278.90 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.36 | 135.00 | 5,459.25 | -5,298.20 | 3,722.98 | 6,378.90 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.36 | 135.00 | 5,458.62 | -5,368.91 | 3,793.69 | 6,478.90 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.36 | 135.00 | 5,457.99 | -5,439.62 | 3,864.40 | 6,578.90 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.36 | 135.00 | 5,457.35 | -5,510.33 | 3,935.11 | 6,678.90 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.36 | 135.00 | 5,456.72 | -5,581.04 | 4,005.82 | 6,778.89 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.36 | 135.00 | 5,456.09 | -5,651.75 | 4,076.53 | 6,878.89 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.36 | 135.00 | 5,455.46 | -5,722.46 | 4,147.24 | 6,978.89 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.36 | 135.00 | 5,454.83 | -5,793.17 | 4,217.95 | 7,078.89 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.36 | 135.00 | 5,454.20 | -5,863.88 | 4,288.65 | 7,178.89 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.36 | 135.00 | 5,453.57 | -5,934.59 | 4,359.36 | 7,278.88 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.36 | 135.00 | 5,452.94 | -6,005.30 | 4,430.07 | 7,378.88 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.36 | 135.00 | 5,452.31 | -6,076.01 | 4,500.78 | 7,478.88 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.36 | 135.00 | 5,451.68 | -6,146.71 | 4,571.49 | 7,578.88 | 0.00 | 0.00 | 0.00 |
| 13,508.07 | 90.36 | 135.00 | 5,451.00 | -6,223.13 | 4,647.91 | 7,686.95 | 0.00 | 0.00 | 0.00 |

| Casing Points | | | | | | | |
|---------------|---------------------------|---------------------------|-------------|------|---------------------------|-------------------------|--|
| | Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") | |
| | 350.00 | 350.00 | 13 3/8" Csg | | 13-3/8 | 17-1/2 | |
| | 3,847.21 | 3,673.00 | 9 5/8" Csg | | 9-5/8 | 12-1/4 | |



Database: DT_Jan1924v17

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

| ormations | | | | | | |
|-----------|---------------------------|---------------------------|-----------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 1,403.06 | 1,403.01 | Ojo Alamo | | -0.36 | 135.00 |
| | 1,503.40 | 1,503.02 | Kirtland | | -0.36 | 135.00 |
| | 1,731.76 | 1,728.09 | Fruitland | | -0.36 | 135.00 |
| | 1,977.33 | 1,963.22 | Pictured Cliffs | | -0.36 | 135.00 |
| | 2,139.98 | 2,113.34 | Lewis | | -0.36 | 135.00 |
| | 2,463.16 | 2,408.58 | Chacra | | -0.36 | 135.00 |
| | 3,679.19 | 3,519.50 | Cliff House | | -0.36 | 135.00 |
| | 3,684.67 | 3,524.50 | Menefee | | -0.36 | 135.00 |
| | 4,442.94 | 4,225.04 | Point Lookout | | -0.36 | 135.00 |
| | 4,723.59 | 4,500.14 | Mancos | | -0.36 | 135.00 |
| | 5,064.18 | 4,840.17 | MNCS_A | | -0.36 | 135.00 |
| | 5,154.18 | 4,930.17 | MNCS_B | | -0.36 | 135.00 |
| | 5,290.50 | 5,065.06 | MNCS_C | | -0.36 | 135.00 |
| | 5,358.58 | 5,129.93 | MNCS_Cms | | -0.36 | 135.00 |
| | 5,441.22 | 5,204.71 | MNCS_D | | -0.36 | 135.00 |
| | 5,543.87 | 5,289.35 | MNCS_E | | -0.36 | 135.00 |
| | 5,604.60 | 5,334.09 | MNCS_F | | -0.36 | 135.00 |
| | 5,743.41 | 5,418.40 | MNCS_G | | -0.36 | 135.00 |
| | 5,833.38 | 5,457.89 | MNCS_H @ 0VS | | -0.36 | 135.00 |

| Plan Annotations | | | | |
|------------------|---------------|---------------|---------------|--|
| Measured | Vertical | Local Coord | dinates | |
| Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 1,300.00 | 1,300.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 2,099.91 | 2,076.73 | -76.99 | -146.03 | Begin 24.00° tangent |
| 4,155.15 | 3,954.32 | -466.79 | -885.42 | Begin 3°/100' drop |
| 4,955.06 | 4,731.05 | -543.78 | -1,031.45 | Begin vertical hold |
| 5,149.06 | 4,925.05 | -543.78 | -1,031.45 | Begin 10°/100' build |
| 5,849.06 | 5,463.45 | -810.36 | -764.87 | FTP @ 70° inc @ 5849.06 MD 5463.45 TVD |
| 6,052.67 | 5,498.00 | -951.48 | -623.75 | Begin 90.36° lateral |
| 13,508.07 | 5,451.00 | -6,223.13 | 4,647.91 | PBHL @ 13508.07 MD 5451.00 TVD |



Map Zone:

Planning Report - Geographic

DT Jan1924v17 Database:

Company: **Enduring Resources LLC**

Project: Rio Arriba County, New Mexico NAD83 NM C Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole

Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Minimum Curvature

Project Rio Arriba County, New Mexico NAD83 NM C

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

New Mexico Central Zone

System Datum:

Mean Sea Level

Site Haynes Canyon Unit (428,430,440 & 442)

1,912,025.28 usft Northing: 36.24866700 Site Position: Latitude: Lat/Long Easting: 1,282,353.75 usft -107.46435800 From: Longitude:

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

Well Haynes Canyon Unit 428H, Surf loc: 903 FSL 429 FWL Section 03-T23N-R06W

Well Position +N/-S 0.00 ft Northing: 1,912,025.28 usft Latitude: 36.24866700

+E/-W 0.00 ft Easting: 1,282,353.75 usft Longitude: -107.46435800 0.00 ft Wellhead Elevation: ft 6,703.00 ft **Position Uncertainty** Ground Level:

Grid Convergence: -0.72 °

rev1

Wellbore Original Hole

Magnetics Model Name Declination Field Strength Sample Date Dip Angle (°) (°) (nT) IGRF2020 8/1/2023 8.46 62.77 49,138.30694754

Audit Notes:

Design

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 0.00 135.00

Plan Survey Tool Program 1/31/2024

Depth From Depth To

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

13,508.02 rev1 (Original Hole) 0.00 MWD

OWSG MWD - Standard



DT_Jan1924v17 Database:

Company: Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Project: Haynes Canyon Unit (428,430,440 & 442)

Site:

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole

Design: rev1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft

| 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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,099.91 | 24.00 | 242.20 | 2,076.73 | -76.99 | -146.03 | 3.00 | 3.00 | 0.00 | 242.20 | |
| 4,155.15 | 24.00 | 242.20 | 3,954.32 | -466.79 | -885.42 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,955.06 | 0.00 | 360.00 | 4,731.05 | -543.78 | -1,031.45 | 3.00 | -3.00 | 0.00 | 180.00 | |
| 5,149.06 | 0.00 | 360.00 | 4,925.05 | -543.78 | -1,031.45 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,849.06 | 70.00 | 135.00 | 5,463.45 | -810.36 | -764.87 | 10.00 | 10.00 | 0.00 | 135.00 | |
| 6,052.67 | 90.36 | 135.00 | 5,498.00 | -951.48 | -623.75 | 10.00 | 10.00 | 0.00 | 0.00 | |
| 13,508.07 | 90.36 | 135.00 | 5,451.00 | -6,223.13 | 4,647.91 | 0.00 | 0.00 | 0.00 | 0.00 | Haynes 428 LTP 204 |



Database: DT_Jan1924v17

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft

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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 350.00 | 0.00 | 0.00 | 350.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 13 3/8" 0 | • | 0.00 | 400.00 | 0.00 | 0.00 | 4 0 4 0 0 0 5 0 0 | 4 000 050 75 | 00.04000700 | 407.40405000 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 700.00 800.00 | 0.00 | 0.00 | 700.00 800.00 | 0.00 0.00 | 0.00 0.00 | 1,912,025.28 1,912,025.28 | 1,282,353.75 1,282,353.75 | 36.24866700 | -107.46435800 -107.46435800 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 36.24866700 | -107.46435800 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 1,912,025.28 | 1,282,353.75 | 36.24866700 | -107.46435800 |
| | gin 3°/100' bui | | 1,000.00 | 0.00 | 0.00 | 1,012,020.20 | 1,202,000.10 | 00.2 10007 00 | 107.10100000 |
| 1,400.00 | 3.00 | 242.20 | 1,399.95 | -1.22 | -2.32 | 1,912,024.06 | 1,282,351.44 | 36.24866357 | -107.46436580 |
| 1,403.06 | 3.09 | 242.20 | 1,403.01 | -1.30 | -2.46 | 1,912,023.99 | 1,282,351.29 | 36.24866336 | -107.46436629 |
| Ojo Alan | | | ., | | | .,, | .,, | | |
| 1,500.00 | 6.00 | 242.20 | 1,499.63 | -4.88 | -9.26 | 1,912,020.40 | 1,282,344.50 | 36.24865328 | -107.46438918 |
| 1,503.40 | 6.10 | 242.20 | 1,503.02 | -5.05 | -9.57 | 1,912,020.24 | 1,282,344.18 | 36.24865281 | -107.46439025 |
| Kirtland | | | • | | | | , , | | |
| 1,600.00 | 9.00 | 242.20 | 1,598.77 | -10.97 | -20.80 | 1,912,014.32 | 1,282,332.95 | 36.24863617 | -107.46442807 |
| 1,700.00 | 12.00 | 242.20 | 1,697.08 | -19.46 | -36.92 | 1,912,005.82 | 1,282,316.84 | 36.24861227 | -107.46448236 |
| 1,731.76 | 12.95 | 242.20 | 1,728.09 | -22.66 | -42.99 | 1,912,002.62 | 1,282,310.77 | 36.24860328 | -107.46450280 |
| Fruitland | d | | | | | | | | |
| 1,800.00 | 15.00 | 242.20 | 1,794.31 | -30.35 | -57.57 | 1,911,994.93 | 1,282,296.19 | 36.24858166 | -107.46455191 |
| 1,900.00 | 18.00 | 242.20 | 1,890.18 | -43.59 | -82.69 | 1,911,981.69 | 1,282,271.07 | 36.24854443 | -107.46463653 |
| 1,977.33 | 20.32 | 242.20 | 1,963.22 | -55.43 | -105.14 | 1,911,969.85 | 1,282,248.62 | 36.24851115 | -107.46471214 |
| Pictured | Cliffs | | | | | | | | |
| 2,000.00 | 21.00 | 242.20 | 1,984.43 | -59.16 | -112.21 | 1,911,966.12 | 1,282,241.54 | 36.24850066 | -107.46473598 |
| 2,099.91 | 24.00 | 242.20 | 2,076.73 | -76.99 | -146.03 | 1,911,948.30 | 1,282,207.73 | 36.24845053 | -107.46484988 |
| Begin 24 | l.00° tangent | | | | | | | | |
| 2,139.98 | 24.00 | 242.20 | 2,113.34 | -84.59 | -160.45 | 1,911,940.70 | 1,282,193.31 | 36.24842916 | -107.46489844 |
| Lewis | | | | | | | | | |
| 2,200.00 | 24.00 | 242.20 | 2,168.17 | -95.97 | -182.04 | 1,911,929.31 | 1,282,171.72 | 36.24839715 | -107.46497117 |
| 2,300.00 | 24.00 | 242.20 | 2,259.52 | -114.94 | -218.01 | 1,911,910.35 | 1,282,135.74 | 36.24834382 | -107.46509235 |
| 2,400.00 | 24.00 | 242.20 | 2,350.88 | -133.90 | -253.99 | 1,911,891.38 | 1,282,099.77 | 36.24829049 | -107.46521353 |
| 2,463.16 | 24.00 | 242.20 | 2,408.58 | -145.88 | -276.71 | 1,911,879.40 | 1,282,077.04 | 36.24825680 | -107.46529006 |
| Chacra | | | | | | | | | |
| 2,500.00 | 24.00 | 242.20 | 2,442.24 | -152.87 | -289.96 | 1,911,872.41 | 1,282,063.79 | 36.24823716 | -107.46533471 |
| 2,600.00 | 24.00 | 242.20 | 2,533.59 | -171.84 | -325.94 | 1,911,853.45 | 1,282,027.81 | 36.24818383 | -107.46545588 |
| 2,700.00 | 24.00 | 242.20 | 2,624.95 | -190.80 | -361.92 | 1,911,834.48 | 1,281,991.84 | 36.24813050 | -107.46557706 |
| 2,800.00 | 24.00 | 242.20 | 2,716.30 | -209.77 | -397.89 | 1,911,815.51 | 1,281,955.86 | 36.24807716 | -107.46569824 |
| 2,900.00 | 24.00 | 242.20 | 2,807.66 | -228.74 247.70 | -433.87 | 1,911,796.55 | 1,281,919.89 | 36.24802383 | -107.46581942 |
| 3,000.00 3,100.00 | 24.00 24.00 | 242.20 242.20 | 2,899.02 2,990.37 | -247.70 -266.67 | -469.84 -505.82 | 1,911,777.58 | 1,281,883.91 1,281,847.93 | 36.24797050 36.24791717 | -107.46594060 -107.46606178 |
| 3,200.00 | 24.00 | 242.20 | 3,081.73 | -285.63 | -505.62 -541.80 | 1,911,758.61 1,911,739.65 | 1,281,811.96 | 36.24786384 | -107.46618295 |
| 3,300.00 | 24.00 | 242.20 | 3,173.09 | -304.60 | -541.60 -577.77 | 1,911,720.68 | 1,281,775.98 | 36.24781051 | -107.46630413 |
| 3,400.00 | 24.00 | 242.20 | 3,264.44 | -323.57 | -613.75 | 1,911,701.72 | 1,281,740.01 | 36.24775717 | -107.46642531 |
| 3,500.00 | 24.00 | 242.20 | 3,355.80 | -342.53 | -649.72 | 1,911,682.75 | 1,281,704.03 | 36.24770384 | -107.46654649 |
| 3,600.00 | 24.00 | 242.20 | 3,447.16 | -361.50 | -685.70 | 1,911,663.78 | 1,281,668.05 | 36.24765051 | -107.46666766 |
| 3,000.00 | | | -, | | | .,,., | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |



Database: DT_Jan1924v17

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

| Plann | ned Survey | , | | | | | | | | |
|-------|----------------------|-------------------------------|------------------|----------------------|--------------------|------------------------|------------------------------|------------------------------|----------------------------|--------------------------------|
| M | leasured | | | Vertical | | | Мар | Мар | | |
| | Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Northing | Easting | | |
| | (ft) | (°) | (°) | (ft) | (ft) | (ft) | (usft) | (usft) | Latitude | Longitude |
| | 3,679.19 | 24.00 | 242.20 | 3,519.50 | -376.52 | -714.19 | 1,911,648.76 | 1,281,639.57 | 36.24760828 | -107.46676362 |
| | 3,684.67 | 24.00 | 242.20 | 3,524.50 | -377.56 | -716.16 | 1,911,647.72 | 1,281,637.60 | 36.24760536 | -107.46677026 |
| | Menefee | | 2.2.20 | 0,02 1.00 | 000 | | .,, | .,20.,0000 | 33.2 11 33333 | 101110011020 |
| | 3,700.00 | 24.00 | 242.20 | 3,538.51 | -380.47 | -721.68 | 1,911,644.82 | 1,281,632.08 | 36.24759718 | -107.46678884 |
| | 3,800.00 3,847.21 | 24.00 24.00 | 242.20 242.20 | 3,629.87 3,673.00 | -399.43 -408.39 | -757.65 -774.64 | 1,911,625.85 1,911,616.89 | 1,281,596.10 1,281,579.12 | 36.24754385 36.24751867 | -107.46691002 -107.46696723 |
| | 9 5/8" Cs | | 242.20 | 3,073.00 | -400.59 | -774.04 | 1,911,010.09 | 1,201,373.12 | 30.24731007 | -107.40030723 |
| | 3,900.00 | 24.00 | 242.20 | 3,721.23 | -418.40 | -793.63 | 1,911,606.88 | 1,281,560.13 | 36.24749051 | -107.46703119 |
| | 4,000.00 | 24.00 | 242.20 | 3,812.58 | -437.37 | -829.60 | 1,911,587.92 | 1,281,524.15 | 36.24743718 | -107.46715237 |
| | 4,100.00 4,155.15 | 24.00 24.00 | 242.20 242.20 | 3,903.94 3,954.32 | -456.33 -466.79 | -865.58 -885.42 | 1,911,568.95 1,911,558.49 | 1,281,488.17 1,281,468.33 | 36.24738385 36.24735443 | -107.46727355 -107.46734037 |
| | | /100' drop | 2.2.20 | 0,001.02 | | 000.12 | .,, | .,20., .00.00 | 33.2 11 33 1 13 | |
| | 4,200.00 | 22.65 | 242.20 | 3,995.51 | -475.08 | -901.13 | 1,911,550.21 | 1,281,452.63 | 36.24733115 | -107.46739328 |
| | 4,300.00 4,400.00 | 19.65 16.65 | 242.20 242.20 | 4,088.76 4,183.77 | -491.90 -506.43 | -933.05 -960.60 | 1,911,533.38 1,911,518.86 | 1,281,420.71 1,281,393.15 | 36.24728383 36.24724298 | -107.46750079 -107.46759360 |
| | 4,442.94 | 15.36 | 242.20 | 4,105.77 | -511.95 | -900.00 -971.07 | 1,911,513.33 | 1,281,382.68 | 36.24722746 | -107.46762888 |
| | Point Lo | okout | | | | | | | | |
| | 4,500.00 | 13.65 | 242.20 | 4,280.28 | -518.62 | -983.72 | 1,911,506.67 | 1,281,370.04 | 36.24720871 | -107.46767147 |
| | 4,600.00 4,700.00 | 10.65 7.65 | 242.20 242.20 | 4,378.03 4,476.75 | -528.43 -535.85 | -1,002.34 -1,016.41 | 1,911,496.85 1,911,489.43 | 1,281,351.42 1,281,337.35 | 36.24718111 36.24716025 | -107.46773418 -107.46778156 |
| | 4,723.59 | 6.94 | 242.20 | 4,500.14 | -537.25 | -1,019.06 | 1,911,488.04 | 1,281,334.70 | 36.24715632 | -107.46779049 |
| | Mancos | | | | | | | | | |
| | 4,800.00 4,900.00 | 4.65 1.65 | 242.20 242.20 | 4,576.16 4,676.00 | -540.85 -543.41 | -1,025.88 -1,030.75 | 1,911,484.44 1,911,481.87 | 1,281,327.87 1,281,323.01 | 36.24714620 36.24713899 | -107.46781349 -107.46782987 |
| | 4,955.06 | 0.00 | 360.00 | 4,731.05 | -543.78 | -1,031.45 | 1,911,481.50 | 1,281,322.31 | 36.24713795 | -107.46783224 |
| | Begin ve | ertical hold | | | | | | | | |
| | 5,000.00 | 0.00 | 0.00 | 4,775.99 | -543.78 | -1,031.45 | 1,911,481.50 | 1,281,322.31 | 36.24713795 | -107.46783224 |
| | 5,064.18 MNCS_A | 0.00 | 0.00 | 4,840.17 | -543.78 | -1,031.45 | 1,911,481.50 | 1,281,322.31 | 36.24713795 | -107.46783224 |
| | 5,100.00 | 0.00 | 0.00 | 4,875.99 | -543.78 | -1,031.45 | 1,911,481.50 | 1,281,322.31 | 36.24713795 | -107.46783224 |
| | 5,149.06 | 0.00 | 0.00 | 4,925.05 | -543.78 | -1,031.45 | 1,911,481.50 | 1,281,322.31 | 36.24713795 | -107.46783224 |
| | Begin 10 5,154.18 | 0°/ 100' build 0.51 | 135.00 | 4,930.17 | -543.80 | -1,031.43 | 1,911,481.49 | 1,281,322.32 | 36.24713791 | -107.46783218 |
| | MNCS_B | | 100.00 | 4,000.17 | -040.00 | -1,001.40 | 1,011,401.40 | 1,201,022.02 | 00.247 10731 | -107.40700210 |
| | 5,200.00 | 5.09 | 135.00 | 4,975.92 | -545.38 | -1,029.85 | 1,911,479.90 | 1,281,323.91 | 36.24713361 | -107.46782674 |
| | 5,250.00 5,290.50 | 10.09 14.14 | 135.00 135.00 | 5,025.47 5,065.06 | -550.05 -556.06 | -1,025.18 -1,019.17 | 1,911,475.23 | 1,281,328.58 | 36.24712094 36.24710464 | -107.46781071 -107.46779007 |
| | MNCS_C | | 133.00 | 5,005.00 | -550.00 | -1,019.17 | 1,911,469.22 | 1,281,334.59 | 30.247 10404 | -107.40779007 |
| | 5,300.00 | 15.09 | 135.00 | 5,074.25 | -557.76 | -1,017.47 | 1,911,467.53 | 1,281,336.28 | 36.24710004 | -107.46778425 |
| | 5,350.00 | 20.09 | 135.00 | 5,121.90 | -568.44 | -1,006.79 | 1,911,456.84 | 1,281,346.97 | 36.24707107 | -107.46774757 |
| | 5,358.58 MNCS_C | 20.95 | 135.00 | 5,129.93 | -570.57 | -1,004.66 | 1,911,454.72 | 1,281,349.09 | 36.24706530 | -107.46774027 |
| | 5,400.00 | 25.09 | 135.00 | 5,168.04 | -582.02 | -993.21 | 1,911,443.26 | 1,281,360.55 | 36.24703424 | -107.46770095 |
| | 5,441.22 | 29.22 | 135.00 | 5,204.71 | -595.32 | -979.91 | 1,911,429.97 | 1,281,373.84 | 36.24699818 | -107.46765529 |
| | MNCS_D | | 405.00 | E 040 04 | 500.00 | 070.04 | 4 044 400 00 | 4 004 070 00 | 20.0400005 | 407 40704474 |
| | 5,450.00 5,500.00 | 30.09 35.09 | 135.00 135.00 | 5,212.34 5,254.45 | -598.39 -617.43 | -976.84 -957.80 | 1,911,426.89 1,911,407.85 | 1,281,376.92 1,281,395.96 | 36.24698985 36.24693821 | -107.46764474 -107.46757937 |
| | 5,543.87 | 39.48 | 135.00 | 5,289.35 | -636.22 | -939.01 | 1,911,389.07 | 1,281,414.74 | 36.24688726 | -107.46751487 |
| | MNCS_E | | 405.00 | 5.004.00 | 000.00 | 000.04 | 4 044 000 00 | 4 004 447 50 | 00.04007074 | 107 1075055 |
| | 5,550.00 5,600.00 | 40.09 45.09 | 135.00 135.00 | 5,294.06 5,330.86 | -638.99 -662.91 | -936.24 -912.32 | 1,911,386.29 1,911,362.37 | 1,281,417.52 1,281,441.44 | 36.24687974 36.24681486 | -107.46750534 -107.46742321 |



Database: DT_Jan1924v17

Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Wellbore: Original Hole
Design: rev1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft

RKB=6703+25 @ 6728.00ft

Grid

| gn: | rev1 | | | | | | | | |
|---------------------------|-----------------|------------------|---------------------------|------------------------|----------------------|------------------------------|------------------------------|----------------------------|--------------------------|
| ned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 5,604.60 | 45.55 | 135.00 | 5,334.09 | -665.22 | -910.01 | 1,911,360.06 | 1,281,443.75 | 36.24680859 | -107.46741 |
| MNCS_F | | | | | | | | | |
| 5,650.00 | 50.09 | 135.00 | 5,364.56 | -689.01 | -886.22 | 1,911,336.27 | 1,281,467.54 | 36.24674409 | -107.46733 |
| 5,700.00 | 55.09 | 135.00 | 5,394.93 | -717.09 | -858.14 | 1,911,308.20 | 1,281,495.61 | 36.24666795 | -107.46723 |
| 5,743.41 | 59.44 | 135.00 | 5,418.40 | -742.90 | -832.33 | 1,911,282.38 | 1,281,521.43 | 36.24659794 | -107.46714 |
| MNCS_G | | | | | | | | | |
| 5,750.00 | 60.09 | 135.00 | 5,421.72 | -746.93 | -828.30 | 1,911,278.36 | 1,281,525.45 | 36.24658702 | -107.46713 |
| 5,800.00 | 65.09 | 135.00 | 5,444.72 | -778.30 | -796.93 | 1,911,246.98 | 1,281,556.83 | 36.24650192 | -107.46702 |
| 5,833.38 | 68.43 | 135.00 | 5,457.89 | -799.99 | -775.24 | 1,911,225.29 | 1,281,578.51 | 36.24644311 | -107.46695 |
| MNCS_H | @ 0VS | | | | | | | | |
| 5,849.06 | 70.00 | 135.00 | 5,463.45 | -810.36 | -764.87 | 1,911,214.93 | 1,281,588.88 | 36.24641500 | -107.46691 |
| FTP @ 70 | ° inc @ 5849 | .06 MD 5463. | 45 TVD | | | | | | |
| 5,900.00 | 75.09 | 135.00 | 5,478.73 | -844.71 | -730.52 | 1,911,180.58 | 1,281,623.23 | 36.24632184 | -107.46679 |
| 5,950.00 | 80.09 | 135.00 | 5,489.47 | -879.22 | -696.01 | 1,911,146.06 | 1,281,657.75 | 36.24622823 | -107.46668 |
| 6,000.00 | 85.09 | 135.00 | 5,495.91 | -914.27 | -660.96 | 1,911,111.01 | 1,281,692.80 | 36.24613317 | -107.46656 |
| 6,052.67 | 90.36 | 135.00 | 5,498.00 | -951.48 | -623.75 | 1,911,073.81 | 1,281,730.00 | 36.24603228 | -107.46643 |
| Begin 90. | .36° lateral | | | | | | | | |
| 6,100.00 | 90.36 | 135.00 | 5,497.70 | -984.94 | -590.29 | 1,911,040.34 | 1,281,763.47 | 36.24594152 | -107.46631 |
| 6,200.00 | 90.36 | 135.00 | 5,497.07 | -1,055.65 | -519.58 | 1,910,969.63 | 1,281,834.18 | 36.24574976 | -107.46607 |
| 6,300.00 | 90.36 | 135.00 | 5,496.44 | -1,126.36 | -448.87 | 1,910,898.93 | 1,281,904.88 | 36.24555799 | -107.46583 |
| 6,400.00 | 90.36 | 135.00 | 5,495.81 | -1,197.07 | -378.16 | 1,910,828.22 | 1,281,975.59 | 36.24536622 | -107.46558 |
| 6,500.00 | 90.36 | 135.00 | 5,495.18 | -1,267.78 | -307.45 | 1,910,757.51 | 1,282,046.30 | 36.24517446 | -107.46534 |
| 6,600.00 | 90.36 | 135.00 | 5,494.55 | -1,338.49 | -236.74 | 1,910,686.80 | 1,282,117.01 | 36.24498269 | -107.46510 |
| 6,700.00 | 90.36 | 135.00 | 5,493.92 | -1,409.20 | -166.03 | 1,910,616.09 | 1,282,187.72 | 36.24479092 | -107.46486 |
| 6,800.00 | 90.36 | 135.00 | 5,493.29 | -1,479.91 | -95.32 | 1,910,545.38 | 1,282,258.43 | 36.24459915 | -107.46461 |
| 6,900.00 | 90.36 | 135.00 | 5,492.66 | -1,550.61 | -24.61 | 1,910,474.67 | 1,282,329.14 | 36.24440738 | -107.46437 |
| 7,000.00 | 90.36 | 135.00 | 5,492.02 | -1,621.32 | 46.10 | 1,910,403.96 | 1,282,399.85 | 36.24421561 | -107.46413 |
| 7,100.00 | 90.36 | 135.00 | 5,491.39 | -1,692.03 | 116.80 | 1,910,333.25 | 1,282,470.56 | 36.24402384 | -107.46389 |
| 7,200.00 | 90.36 | 135.00 | 5,490.76 | -1,762.74 | 187.51 | 1,910,262.54 | 1,282,541.27 | 36.24383207 | -107.46364 |
| 7,300.00 7,400.00 | 90.36 90.36 | 135.00 135.00 | 5,490.13 5,489.50 | -1,833.45 -1,904.16 | 258.22 328.93 | 1,910,191.83 1,910,121.13 | 1,282,611.98 1,282,682.69 | 36.24364030 36.24344853 | -107.46340 -107.46310 |
| 7,500.00 | 90.36 | 135.00 | 5,488.87 | -1,904.10 | 399.64 | 1,910,050.42 | 1,282,753.39 | 36.24325676 | -107.4629 |
| 7,600.00 | 90.36 | 135.00 | 5,488.24 | -2,045.58 | 470.35 | 1,909,979.71 | 1,282,824.10 | 36.24306499 | -107.46267 |
| 7,700.00 | 90.36 | 135.00 | 5,487.61 | -2,116.29 | 541.06 | 1,909,909.00 | 1,282,894.81 | 36.24287321 | -107.46243 |
| 7,800.00 | 90.36 | 135.00 | 5,486.98 | -2,187.00 | 611.77 | 1,909,838.29 | 1,282,965.52 | 36.24268144 | -107.46219 |
| 7,900.00 | 90.36 | 135.00 | 5,486.35 | -2,167.00 | 682.48 | 1,909,767.58 | 1,283,036.23 | 36.24248967 | -107.46194 |
| 8,000.00 | 90.36 | 135.00 | 5,485.72 | -2,328.42 | 753.19 | 1,909,696.87 | 1,283,106.94 | 36.24229789 | -107.46170 |
| 8,100.00 | 90.36 | 135.00 | 5,485.09 | -2,399.13 | 823.90 | 1,909,626.16 | 1,283,177.65 | 36.24210612 | -107.46146 |
| 8,200.00 | 90.36 | 135.00 | 5,484.46 | -2,469.83 | 894.61 | 1,909,555.45 | 1,283,248.36 | 36.24191434 | -107.4612 |
| 8,300.00 | 90.36 | 135.00 | 5,483.83 | -2,540.54 | 965.32 | 1,909,484.74 | 1,283,319.07 | 36.24172256 | -107.46097 |
| 8,400.00 | 90.36 | 135.00 | 5,483.20 | -2,611.25 | 1,036.03 | 1,909,414.03 | 1,283,389.78 | 36.24153079 | -107.46073 |
| 8,500.00 | 90.36 | 135.00 | 5,482.57 | -2,681.96 | 1,106.74 | 1,909,343.33 | 1,283,460.49 | 36.24133901 | -107.46049 |
| 8,600.00 | 90.36 | 135.00 | 5,481.94 | -2,752.67 | 1,177.44 | 1,909,272.62 | 1,283,531.20 | 36.24114723 | -107.46024 |
| 8,700.00 | 90.36 | 135.00 | 5,481.31 | -2,823.38 | 1,248.15 | 1,909,201.91 | 1,283,601.90 | 36.24095545 | -107.46000 |
| 8,800.00 | 90.36 | 135.00 | 5,480.68 | -2,894.09 | 1,318.86 | 1,909,131.20 | 1,283,672.61 | 36.24076367 | -107.45976 |
| 8,900.00 | 90.36 | 135.00 | 5,480.05 | -2,964.80 | 1,389.57 | 1,909,060.49 | 1,283,743.32 | 36.24057190 | -107.45952 |
| 9,000.00 | 90.36 | 135.00 | 5,479.42 | -3,035.51 | 1,460.28 | 1,908,989.78 | 1,283,814.03 | 36.24038012 | -107.45927 |
| 9,100.00 | 90.36 | 135.00 | 5,478.79 | -3,106.22 | 1,530.99 | 1,908,919.07 | 1,283,884.74 | 36.24018833 | -107.45903 |
| 9,200.00 | 90.36 | 135.00 | 5,478.16 | -3,176.93 | 1,601.70 | 1,908,848.36 | 1,283,955.45 | 36.23999655 | -107.45879 |
| 9,300.00 | 90.36 | 135.00 | 5,477.53 | -3,247.64 | 1,672.41 | 1,908,777.65 | 1,284,026.16 | 36.23980477 | -107.45854 |
| 9,400.00 | 90.36 | 135.00 | 5,476.90 | -3,318.35 | 1,743.12 | 1,908,706.94 | 1,284,096.87 | 36.23961299 | -107.45830 |
| 9,500.00 | 90.36 | 135.00 | 5,476.27 | -3,389.05 | 1,813.83 | 1,908,636.23 | 1,284,167.58 | 36.23942121 | -107.45806 |
| 9,600.00 | 90.36 | 135.00 | 5,475.64 5,475.00 | -3,459.76 -3,530.47 | 1,884.54 1,955.25 | 1,908,565.53 1,908,494.82 | 1,284,238.29 1,284,309.00 | 36.23922942 36.23903764 | -107.45782 |



DT_Jan1924v17 Database: Company:

Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Project: Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Original Hole Wellbore: Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

| Design. | 1011 | | | | | | | | |
|---------------------------|-----------------|----------------|---------------------------|---------------|---------------|---------------------------|--------------------------|-------------|---------------|
| Planned Survey | | | | | | | | | |
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
| 9,800.00 | 90.36 | 135.00 | 5,474.37 | -3,601.18 | 2,025.96 | 1,908,424.11 | 1,284,379.71 | 36.23884586 | -107.45733629 |
| 9,900.00 | 90.36 | 135.00 | 5,473.74 | -3,671.89 | 2,096.67 | 1,908,353.40 | 1,284,450.42 | 36.23865407 | -107.45709357 |
| 10,000.00 | 90.36 | 135.00 | 5,473.11 | -3,742.60 | 2,167.37 | 1,908,282.69 | 1,284,521.12 | 36.23846229 | -107.45685086 |
| 10,100.00 | 90.36 | 135.00 | 5,472.48 | -3,813.31 | 2,238.08 | 1,908,211.98 | 1,284,591.83 | 36.23827050 | -107.45660814 |
| 10,200.00 | 90.36 | 135.00 | 5,471.85 | -3,884.02 | 2,308.79 | 1,908,141.27 | 1,284,662.54 | 36.23807872 | -107.45636543 |
| 10,300.00 | 90.36 | 135.00 | 5,471.22 | -3,954.73 | 2,379.50 | 1,908,070.56 | 1,284,733.25 | 36.23788693 | -107.45612272 |
| 10,400.00 | 90.36 | 135.00 | 5,470.59 | -4,025.44 | 2,450.21 | 1,907,999.85 | 1,284,803.96 | 36.23769514 | -107.45588001 |
| 10,500.00 | 90.36 | 135.00 | 5,469.96 | -4,096.15 | 2,520.92 | 1,907,929.14 | 1,284,874.67 | 36.23750335 | -107.45563730 |
| 10,600.00 | 90.36 | 135.00 | 5,469.33 | -4,166.86 | 2,591.63 | 1,907,858.43 | 1,284,945.38 | 36.23731157 | -107.45539459 |
| 10,700.00 | 90.36 | 135.00 | 5,468.70 | -4,237.57 | 2,662.34 | 1,907,787.73 | 1,285,016.09 | 36.23711978 | -107.45515189 |
| 10,800.00 | 90.36 | 135.00 | 5,468.07 | -4,308.27 | 2,733.05 | 1,907,717.02 | 1,285,086.80 | 36.23692799 | -107.45490918 |
| 10,900.00 | 90.36 | 135.00 | 5,467.44 | -4,378.98 | 2,803.76 | 1,907,646.31 | 1,285,157.51 | 36.23673620 | -107.45466648 |
| 11,000.00 | 90.36 | 135.00 | 5,466.81 | -4,449.69 | 2,874.47 | 1,907,575.60 | 1,285,228.22 | 36.23654441 | -107.45442378 |
| 11,100.00 | 90.36 | 135.00 | 5,466.18 | -4,520.40 | 2,945.18 | 1,907,504.89 | 1,285,298.93 | 36.23635262 | -107.45418107 |
| 11,200.00 | 90.36 | 135.00 | 5,465.55 | -4,591.11 | 3,015.89 | 1,907,434.18 | 1,285,369.63 | 36.23616083 | -107.45393837 |
| 11,300.00 | 90.36 | 135.00 | 5,464.92 | -4,661.82 | 3,086.60 | 1,907,363.47 | 1,285,440.34 | 36.23596903 | -107.45369567 |
| 11,400.00 | 90.36 | 135.00 | 5,464.29 | -4,732.53 | 3,157.31 | 1,907,292.76 | 1,285,511.05 | 36.23577724 | -107.45345298 |
| 11,500.00 | 90.36 | 135.00 | 5,463.66 | -4,803.24 | 3,228.01 | 1,907,222.05 | 1,285,581.76 | 36.23558545 | -107.45321028 |
| 11,600.00 | 90.36 | 135.00 | 5,463.03 | -4,873.95 | 3,298.72 | 1,907,151.34 | 1,285,652.47 | 36.23539365 | -107.45296758 |
| 11,700.00 | 90.36 | 135.00 | 5,462.40 | -4,944.66 | 3,369.43 | 1,907,080.63 | 1,285,723.18 | 36.23520186 | -107.45272489 |
| 11,800.00 | 90.36 | 135.00 | 5,461.77 | -5,015.37 | 3,440.14 | 1,907,009.93 | 1,285,793.89 | 36.23501007 | -107.45248219 |
| 11,900.00 | 90.36 | 135.00 | 5,461.14 | -5,086.08 | 3,510.85 | 1,906,939.22 | 1,285,864.60 | 36.23481827 | -107.45223950 |
| 12,000.00 | 90.36 | 135.00 | 5,460.51 | -5,156.79 | 3,581.56 | 1,906,868.51 | 1,285,935.31 | 36.23462648 | -107.45199681 |
| 12,100.00 | 90.36 | 135.00 | 5,459.88 | -5,227.49 | 3,652.27 | 1,906,797.80 | 1,286,006.02 | 36.23443468 | -107.45175412 |
| 12,200.00 | 90.36 | 135.00 | 5,459.25 | -5,298.20 | 3,722.98 | 1,906,727.09 | 1,286,076.73 | 36.23424288 | -107.45151143 |
| 12,300.00 | 90.36 | 135.00 | 5,458.62 | -5,368.91 | 3,793.69 | 1,906,656.38 | 1,286,147.44 | 36.23405109 | -107.45126875 |
| 12,400.00 | 90.36 | 135.00 | 5,457.99 | -5,439.62 | 3,864.40 | 1,906,585.67 | 1,286,218.14 | 36.23385929 | -107.45102606 |
| 12,500.00 | 90.36 | 135.00 | 5,457.35 | -5,510.33 | 3,935.11 | 1,906,514.96 | 1,286,288.85 | 36.23366749 | -107.45078337 |
| 12,600.00 | 90.36 | 135.00 | 5,456.72 | -5,581.04 | 4,005.82 | 1,906,444.25 | 1,286,359.56 | 36.23347569 | -107.45054069 |
| 12,700.00 | 90.36 | 135.00 | 5,456.09 | -5,651.75 | 4,076.53 | 1,906,373.54 | 1,286,430.27 | 36.23328389 | -107.45029801 |
| 12,800.00 | 90.36 | 135.00 | 5,455.46 | -5,722.46 | 4,147.24 | 1,906,302.83 | 1,286,500.98 | 36.23309209 | -107.45005533 |
| 12,900.00 | 90.36 | 135.00 | 5,454.83 | -5,793.17 | 4,217.95 | 1,906,232.13 | 1,286,571.69 | 36.23290029 | -107.44981265 |
| 13,000.00 | 90.36 | 135.00 | 5,454.20 | -5,863.88 | 4,288.65 | 1,906,161.42 | 1,286,642.40 | 36.23270849 | -107.44956997 |
| 13,100.00 | 90.36 | 135.00 | 5,453.57 | -5,934.59 | 4,359.36 | 1,906,090.71 | 1,286,713.11 | 36.23251669 | -107.44932729 |
| 13,200.00 | 90.36 | 135.00 | 5,452.94 | -6,005.30 | 4,430.07 | 1,906,020.00 | 1,286,783.82 | 36.23232489 | -107.44908461 |
| 13,300.00 | 90.36 | 135.00 | 5,452.31 | -6,076.01 | 4,500.78 | 1,905,949.29 | 1,286,854.53 | 36.23213309 | -107.44884194 |
| 13,400.00 | 90.36 | 135.00 | 5,451.68 | -6,146.71 | 4,571.49 | 1,905,878.58 | 1,286,925.24 | 36.23194128 | -107.44859926 |
| 13,508.07 | 90.36 | 135.00 | 5,451.00 | -6,223.13 | 4,647.91 | 1,905,802.16 | 1,287,001.65 | 36.23173400 | -107.44833700 |
| PBHL @ | 13508.07 MD | 5451.00 TVD | | | | | | | |

| Design Targets | | | | | | | | | |
|--|------------------------|-------------------------|--------------------------|--------------------------|----------------------------|-----------------------|-------------------|-------------|---------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| Haynes 428 LTP 204 FN - plan hits target cen - Point | | 0.00 | 5,451.00 | -6,223.13 | 4,647.91 | 1,905,802.16 | 1,287,001.65 | 36.23173400 | -107.44833700 |
| Haynes 428 FTP 92 FSL - plan misses target - Point | 0.00 center by 32.5 | 360.00 9ft at 5859.4 | 5,498.00 43ft MD (546 | -810.36 6.91 TVD, -81 | -764.87 7.26 N, -757.9 | 1,911,214.93 97 E) | 1,281,588.88 | 36.24641500 | -107.46691700 |



DT_Jan1924v17 Database: Company:

Enduring Resources LLC

Rio Arriba County, New Mexico NAD83 NM C Project: Site: Haynes Canyon Unit (428,430,440 & 442)

Well: Haynes Canyon Unit 428H

Original Hole Wellbore: Design: rev1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

| Casing Points | | | | | | | |
|---------------|---------------------------|---------------------------|-------------|------|---------------------------|-------------------------|--|
| | Measured Depth (ft) | Vertical Depth (ft) | | Name | Casing Diameter (") | Hole Diameter (") | |
| | 350.00 | 350.00 | 13 3/8" Csg | | 13-3/8 | 17-1/2 | |
| | 3,847.21 | 3,673.00 | 9 5/8" Csg | | 9-5/8 | 12-1/4 | |

| Formations | | | | | | |
|------------|---------------------------|---------------------------|-----------------|-----------|------------|-------------------------|
| | Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| | 1,403.06 | 1,403.01 | Ojo Alamo | | -0.36 | 135.00 |
| | 1,503.40 | 1,503.02 | Kirtland | | -0.36 | 135.00 |
| | 1,731.76 | 1,728.09 | Fruitland | | -0.36 | 135.00 |
| | 1,977.33 | 1,963.22 | Pictured Cliffs | | -0.36 | 135.00 |
| | 2,139.98 | 2,113.34 | Lewis | | -0.36 | 135.00 |
| | 2,463.16 | 2,408.58 | Chacra | | -0.36 | 135.00 |
| | 3,679.19 | 3,519.50 | Cliff House | | -0.36 | 135.00 |
| | 3,684.67 | 3,524.50 | Menefee | | -0.36 | 135.00 |
| | 4,442.94 | 4,225.04 | Point Lookout | | -0.36 | 135.00 |
| | 4,723.59 | 4,500.14 | Mancos | | -0.36 | 135.00 |
| | 5,064.18 | 4,840.17 | _ | | -0.36 | 135.00 |
| | 5,154.18 | 4,930.17 | MNCS_B | | -0.36 | 135.00 |
| | 5,290.50 | 5,065.06 | MNCS_C | | -0.36 | 135.00 |
| | 5,358.58 | 5,129.93 | MNCS_Cms | | -0.36 | 135.00 |
| | 5,441.22 | 5,204.71 | MNCS_D | | -0.36 | 135.00 |
| | 5,543.87 | 5,289.35 | MNCS_E | | -0.36 | 135.00 |
| | 5,604.60 | 5,334.09 | MNCS_F | | -0.36 | 135.00 |
| | 5,743.41 | 5,418.40 | MNCS_G | | -0.36 | 135.00 |
| | 5,833.38 | 5,457.89 | MNCS_H @ 0VS | | -0.36 | 135.00 |

| Plan Annotations | | | | |
|------------------|---------------|---------------|---------------|--|
| Measured | Vertical | Local Coor | dinates | |
| Depth (ft) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 1,300.00 | 1,300.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 2,099.91 | 2,076.73 | -76.99 | -146.03 | Begin 24.00° tangent |
| 4,155.15 | 3,954.32 | -466.79 | -885.42 | Begin 3°/100' drop |
| 4,955.06 | 4,731.05 | -543.78 | -1,031.45 | Begin vertical hold |
| 5,149.06 | 4,925.05 | -543.78 | -1,031.45 | Begin 10°/100' build |
| 5,849.06 | 5,463.45 | -810.36 | -764.87 | FTP @ 70° inc @ 5849.06 MD 5463.45 TVD |
| 6,052.67 | 5,498.00 | -951.48 | -623.75 | Begin 90.36° lateral |
| 13,508.07 | 5,451.00 | -6,223.13 | 4,647.91 | PBHL @ 13508.07 MD 5451.00 TVD |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Reference Site: Haynes Canyon Unit (428,430,440 & 442)

0.00 ft Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

Well Haynes Canyon Unit 428H TVD Reference: RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft MD Reference:

North Reference: Grid

Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma DT_Jan1924v17 Database: Offset TVD Reference: Offset Datum

Reference rev1

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

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

Depth Range: Unlimited Scan Method: Closest Approach 3D Maximum centre distance of 1,550.81ft Results Limited by: Error Surface: Ellipsoid Separation Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

Survey Tool Program 1/31/2024 Date

> From То

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

13,508.02 rev1 (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 Factor | Warning |
| Haynes Canyon Unit (420, 422, 424 & 426) | | | | | | |
| Haynes Canyon Unit 426 H - Original Hole - rev0 Haynes Canyon Unit 426 H - Original Hole - rev0 | 5,822.40 13,508.07 | 11,600.30 19,279.86 | 1,230.59 1,231.34 | 1,078.97 743.21 | 8.116 CC 2.523 ES, SF | : |
| Haynes Canyon Unit (428,430,440 & 442) | | | | | | |
| Haynes Canyon Unit 430H - Original Hole - rev0 Haynes Canyon Unit 430H - Original Hole - rev0 Haynes Canyon Unit 440H - Orignal Hole - rev1 Haynes Canyon Unit 442H - Original Hole - rev0 | 1,198.87 1,200.00 5,800.00 1,547.06 | 1,199.23 1,200.35 5,764.43 1,547.02 | 17.05 17.06 1.26 9.57 | 8.77 8.77 -16.95 -1.09 | | : 3<2.00, CC, ES, SF 3<2.00, CC, ES, SF |

| Offset Des | sign: Ha | ynes Canyo | on Unit (42 | 20, 422, 424 | & 426) - | Haynes Ca | nyon Unit 426 | H - Origina | Hole - rev | 0 | | | Offset Site Error: | 0.00 ft |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Progr Refe | ram: 0-N | MWD Offs | set | Semi M | lajor Axis | | Offset Wellb | ore Centre | Dis | Rule Assi tance | gned: | | Offset Well Error: | 0.00 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 4,800.00 | 4,576.16 | 11,254.77 | 5,517.70 | 26.26 | 123.00 | -18.53 | -1,418.62 | -1,896.92 | 1,517.49 | 1,399.23 | 118.26 | 12.832 | | |
| 4,900.00 | 4,676.00 | 11,252.60 | 5,517.71 | 26.55 | 122.95 | -17.72 | -1,417.08 | -1,898.46 | 1,457.46 | 1,335.43 | 122.02 | 11.944 | | |
| 5,000.00 | 4,775.99 | 11,251.82 | 5,517.72 | 26.78 | 122.93 | -135.17 | -1,416.53 | -1,899.01 | 1,405.84 | 1,279.89 | 125.95 | 11.162 | | |
| 5,100.00 | 4,875.99 | 11,251.28 | 5,517.72 | 27.00 | 122.92 | -135.15 | -1,416.15 | -1,899.39 | 1,360.31 | 1,230.50 | 129.81 | 10.479 | | |
| 5,200.00 | 4,975.92 | 11,253.00 | 5,517.71 | 27.21 | 122.96 | 91.86 | -1,417.37 | -1,898.18 | 1,320.81 | 1,187.32 | 133.49 | 9.894 | | |
| 5,300.00 | 5,074.25 | 11,269.97 | 5,517.62 | 27.38 | 123.34 | 94.52 | -1,429.37 | -1,886.18 | 1,288.33 | 1,151.29 | 137.03 | 9.402 | | |
| 5,400.00 | 5,168.04 | 11,303.77 | 5,517.43 | 27.51 | 124.10 | 95.59 | -1,453.27 | -1,862.28 | 1,263.70 | 1,123.38 | 140.32 | 9.006 | | |
| 5,500.00 | 5,254.45 | 11,353.38 | 5,517.16 | 27.61 | 125.22 | 95.32 | -1,488.35 | -1,827.20 | 1,246.85 | 1,103.56 | 143.28 | 8.702 | | |
| 5,600.00 | 5,330.86 | 11,417.29 | 5,516.82 | 27.66 | 126.66 | 94.06 | -1,533.53 | -1,782.01 | 1,236.82 | 1,090.86 | 145.96 | 8.474 | | |
| 5,700.00 | 5,394.93 | 11,493.55 | 5,516.40 | 27.69 | 128.39 | 92.26 | -1,587.46 | -1,728.09 | 1,232.03 | 1,083.55 | 148.48 | 8.298 | | |
| 5,800.00 | 5,444.72 | 11,579.85 | 5,515.93 | 27.68 | 130.33 | 90.39 | -1,648.49 | -1,667.06 | 1,230.63 | 1,079.61 | 151.01 | 8.149 | | |
| 5,822.40 | 5,453.76 | 11,600.30 | 5,515.82 | 27.67 | 130.80 | 90.00 | -1,662.94 | -1,652.61 | 1,230.59 | 1,078.97 | 151.62 | 8.116 CC | | |
| 5,900.00 | 5,478.73 | 11,673.57 | 5,515.42 | 27.65 | 132.45 | 88.86 | -1,714.76 | -1,600.80 | 1,230.85 | 1,077.13 | 153.72 | 8.007 | | |
| 6,000.00 | 5,495.91 | 11,771.86 | 5,514.89 | 27.60 | 134.67 | 88.01 | -1,784.26 | -1,531.30 | 1,231.35 | 1,074.66 | 156.69 | 7.859 | | |
| 6,100.00 | 5,497.70 | 11,871.79 | 5,514.35 | 27.54 | 136.93 | 87.89 | -1,854.92 | -1,460.64 | 1,231.43 | 1,071.54 | 159.89 | 7.702 | | |
| 6,200.00 | 5,497.07 | 11,971.79 | 5,513.80 | 27.50 | 139.20 | 87.89 | -1,925.63 | -1,389.93 | 1,231.43 | 1,068.14 | 163.29 | 7.541 | | |
| 6,300.00 | 5,496.44 | 12,071.79 | 5,513.26 | 27.51 | 141.46 | 87.90 | -1,996.34 | -1,319.22 | 1,231.43 | 1,064.59 | 166.84 | 7.381 | | |
| 6,400.00 | 5,495.81 | 12,171.79 | 5,512.72 | 27.87 | 143.73 | 87.90 | -2,067.05 | -1,248.51 | 1,231.43 | 1,060.90 | 170.53 | 7.221 | | |
| 6,500.00 | 5,495.18 | 12,271.79 | 5,512.17 | 29.16 | 145.99 | 87.91 | -2,137.76 | -1,177.81 | 1,231.43 | 1,057.10 | 174.33 | 7.064 | | |
| 6,600.00 | 5,494.55 | 12,371.79 | 5,511.63 | 30.76 | 148.26 | 87.91 | -2,208.47 | -1,107.10 | 1,231.42 | 1,053.20 | 178.22 | 6.909 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: RMMD Reference:

North Reference:

Survey Calculation Method: Output errors are at Database:

Offset TVD Reference:

Well Haynes Canyon Unit 428H

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Minimum Curvature 2.00 sigma DT_Jan1924v17 Offset Datum

| urvey Progr | ram: 0-1 | MWD | | | | | | | | Rule Assi | aned: | | Offset Site Error: Offset Well Error: | 0.00 f |
|-------------------|-------------------|-------------------|-------------------|---------------|----------------|----------------------|---------------|---------------|--------------------|---------------------|-----------------------|----------------------|---------------------------------------|--------|
| Refer | rence | Offs | | | aior Axis | | Offset Wellb | ore Centre | | tance | _ | | | 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) 6,700.00 | (ft) 5,493.92 | (ft) 12,471.79 | (ft) 5,511.09 | (ft) 32.47 | (ft) 150.53 | (°) 87.91 | -2,279.18 | -1,036.39 | (ft) 1,231.42 | (ft) 1,049.22 | (ft) 182.21 | 6.758 | | |
| 6,800.00 | 5,493.92 | 12,471.79 | 5,510.54 | 34.25 | 152.80 | 87.92 | -2,349.89 | -965.68 | 1,231.42 | 1,045.17 | 186.26 | 6.611 | | |
| 6,900.00 | 5,493.29 | 12,671.79 | 5,510.00 | 36.09 | 155.07 | 87.92 | -2,420.60 | -894.97 | 1,231.42 | 1,043.17 | 190.37 | 6.469 | | |
| 7,000.00 | 5,492.00 | 12,771.79 | 5,509.45 | 37.98 | 157.35 | 87.93 | -2,491.31 | -824.26 | 1,231.42 | 1,036.89 | 194.53 | 6.330 | | |
| 7,100.00 | 5,491.39 | 12,871.79 | 5,508.91 | 39.92 | 159.62 | 87.93 | -2,562.02 | -753.56 | 1,231.42 | 1,032.68 | 198.74 | 6.196 | | |
| 7,200.00 | 5,490.76 | 12,971.79 | 5,508.37 | 41.89 | 161.89 | 87.93 | -2,632.73 | -682.85 | 1,231.42 | 1,028.43 | 202.98 | 6.067 | | |
| 7,300.00 | 5,490.13 | 13,071.79 | 5,507.82 | 43.89 | 164.17 | 87.94 | -2,703.44 | -612.14 | 1,231.41 | 1,024.15 | 207.26 | 5.941 | | |
| 7,400.00 | 5,489.50 | 13,171.79 | 5,507.28 | 45.92 | 166.44 | 87.94 | -2,774.16 | -541.43 | 1,231.41 | 1,019.84 | 211.57 | 5.820 | | |
| 7,500.00 | 5,488.87 | 13,271.79 | 5,506.74 | 47.98 | 168.72 | 87.95 | -2,844.87 | -470.72 | 1,231.41 | 1,015.51 | 215.91 | 5.703 | | |
| 7,600.00 | 5,488.24 | 13,371.79 | 5,506.19 | 50.05 | 171.00 | 87.95 | -2,915.58 | -400.01 | 1,231.41 | 1,011.15 | 220.26 | 5.591 | | |
| 7,700.00 | 5,487.61 | 13,471.79 | 5,505.65 | 52.15 | 173.28 | 87.95 | -2,986.29 | -329.30 | 1,231.41 | 1,006.77 | 224.64 | 5.482 | | |
| 7,800.00 | 5,486.98 | 13,571.79 | 5,505.11 | 54.26 | 175.55 | 87.96 | -3,057.00 | -258.60 | 1,231.41 | 1,002.38 | 229.03 | 5.377 | | |
| 7,900.00 | 5,486.35 | 13,671.79 | 5,504.56 | 56.38 | 177.83 | 87.96 | -3,127.71 | -187.89 | 1,231.41 | 997.97 | 233.44 | 5.275 | | |
| 8,000.00 | 5,485.72 | 13,771.79 | 5,504.02 | 58.52 | 180.11 | 87.97 | -3,198.42 | -117.18 | 1,231.40 | 993.54 | 237.86 | 5.177 | | |
| 8,100.00 | 5,485.09 | 13,871.79 | 5,503.48 | 60.67 | 182.39 | 87.97 | -3,269.13 | -46.47 | 1,231.40 | 989.11 | 242.30 | 5.082 | | |
| 8,200.00 | 5,484.46 | 13,971.79 | 5,502.93 | 62.83 | 184.67 | 87.97 | -3,339.84 | 24.24 | 1,231.40 | 984.66 | 246.74 | 4.991 | | |
| 8,300.00 | 5,483.83 | 14,071.79 | 5,502.39 | 65.01 | 186.96 | 87.98 | -3,410.55 | 94.95 | 1,231.40 | 980.20 | 251.20 | 4.902 | | |
| 8,400.00 | 5,483.20 | 14,171.79 | 5,501.84 | 67.19 | 189.24 | 87.98 | -3,481.26 | 165.65 | 1,231.40 | 975.74 | 255.66 | 4.816 | | |
| 8,500.00 | 5,482.57 | 14,271.79 | 5,501.30 | 69.37 | 191.52 | 87.99 | -3,551.97 | 236.36 | 1,231.40 | 971.26 | 260.14 | 4.734 | | |
| 8,600.00 | 5,481.94 | 14,371.79 | 5,500.76 | 71.57 | 193.80 | 87.99 | -3,622.68 | 307.07 | 1,231.40 | 966.78 | 264.62 | 4.654 | | |
| 8,700.00 | 5,481.31 | 14,471.79 | 5,500.21 | 73.77 | 196.09 | 87.99 | -3,693.40 | 377.78 | 1,231.39 | 962.29 | 269.10 | 4.576 | | |
| 8,800.00 | 5,480.68 | 14,571.79 | 5,499.67 | 75.98 | 198.37 | 88.00 | -3,764.11 | 448.49 | 1,231.39 | 957.79 | 273.60 | 4.501 | | |
| 8,900.00 | 5,480.05 | 14,671.79 | 5,499.13 | 78.19 | 200.66 | 88.00 | -3,834.82 | 519.20 | 1,231.39 | 953.29 | 278.10 | 4.428 | | |
| 9,000.00 | 5,479.42 | 14,771.79 | 5,498.58 | 80.41 | 202.94 | 88.01 | -3,905.53 | 589.91 | 1,231.39 | 948.79 | 282.60 | 4.357 | | |
| 9,100.00 | 5,478.79 | 14,871.79 | 5,498.04 | 82.63 | 205.23 | 88.01 | -3,976.24 | 660.61 | 1,231.39 | 944.27 | 287.12 | 4.289 | | |
| 9,200.00 | 5,478.16 | 14,971.79 | 5,497.50 | 84.86 | 207.51 | 88.01 | -4,046.95 | 731.32 | 1,231.39 | 939.76 | 291.63 | 4.222 | | |
| 9,300.00 | 5,477.53 | 15,071.79 | 5,496.95 | 87.09 | 209.80 | 88.02 | -4,117.66 | 802.03 | 1,231.39 | 935.24 | 296.15 | 4.158 | | |
| 9,400.00 | 5,476.90 | 15,171.79 | 5,496.41 | 89.32 | 212.09 | 88.02 | -4,188.37 | 872.74 | 1,231.39 | 930.71 | 300.67 | 4.095 | | |
| 9,500.00 | 5,476.27 | 15,271.79 | 5,495.87 | 91.56 | 214.37 | 88.03 | -4,259.08 | 943.45 | 1,231.38 | 926.18 | 305.20 | 4.035 | | |
| 9,600.00 | 5,475.64 | 15,371.79 | 5,495.32 | 93.80 | 216.66 | 88.03 | -4,329.79 | 1,014.16 | 1,231.38 | 921.65 | 309.73 | 3.976 | | |
| 9,700.00 | 5,475.00 | 15,471.79 | 5,494.78 | 96.04 | 218.95 | 88.03 | -4,400.50 | 1,084.86 | 1,231.38 | 917.12 | 314.26 | 3.918 | | |
| 9,800.00 | 5,474.37 | 15,571.79 | 5,494.24 | 98.29 | 221.24 | 88.04 | -4,471.21 | 1,155.57 | 1,231.38 | 912.58 | 318.80 | 3.863 | | |
| 9,900.00 | 5,473.74 | 15,671.79 | 5,493.69 | 100.54 | 223.52 | 88.04 | -4,541.92 | 1,226.28 | 1,231.38 | 908.04 | 323.34 | 3.808 | | |
| 10,000.00 | 5,473.11 | 15,771.79 | 5,493.15 | 102.79 | 225.81 | 88.05 | -4,612.64 | 1,296.99 | 1,231.38 | 903.50 | 327.88 | 3.756 | | |
| 10,100.00 | 5,472.48 | 15,871.79 | 5,492.60 | 105.04 | 228.10 | 88.05 | -4,683.35 | 1,367.70 | 1,231.38 | 898.95 | 332.42 | 3.704 | | |
| 10,200.00 | 5,471.85 | 15,971.79 | 5,492.06 | 107.30 | 230.39 | 88.06 | -4,754.06 | 1,438.41 | 1,231.37 | 894.40 | 336.97 | 3.654 | | |
| 10,300.00 | 5,471.22 | 16,071.79 | 5,491.52 | 109.56 | 232.68 | 88.06 | -4,824.77 | 1,509.12 | 1,231.37 | 889.85 | 341.52 | 3.606 | | |
| 10,400.00 | 5,470.59 | 16,171.79 | 5,490.97 | 111.82 | 234.97 | 88.06 | -4,895.48 | 1,579.82 | 1,231.37 | 885.30 | 346.07 | 3.558 | | |
| 10,500.00 | 5,469.96 | 16,271.79 | 5,490.43 | 114.08 | 237.26 | 88.07 | -4,966.19 | 1,650.53 | 1,231.37 | 880.75 | 350.62 | 3.512 | | |
| 10,600.00 | 5,469.33 | 16,371.79 | 5,489.89 | 116.34 | 239.55 | 88.07 | -5,036.90 | 1,721.24 | 1,231.37 | 876.19 | 355.18 | 3.467 | | |
| 10,700.00 | 5,468.70 | 16,471.79 | 5,489.34 | 118.61 | 241.84 | 88.08 | -5,107.61 | 1,791.95 | 1,231.37 | 871.64 | 359.73 | 3.423 | | |
| 10,800.00 | 5,468.07 | 16,571.79 | 5,488.80 | 120.87 | 244.13 | 88.08 | -5,178.32 | 1,862.66 | 1,231.37 | 867.08 | 364.29 | 3.380 | | |
| 10,900.00 | 5,467.44 | 16,671.79 | 5,488.26 | 123.14 | 246.43 | 88.08 | -5,249.03 | 1,933.37 | 1,231.37 | 862.52 | 368.85 | 3.338 | | |
| 11,000.00 | 5,466.81 | 16,771.79 | 5,487.71 | 125.41 | 248.72 | 88.09 | -5,319.74 | 2,004.07 | 1,231.37 | 857.95 | 373.41 | 3.298 | | |
| 11,100.00 | 5,466.18 | 16,871.79 | 5,487.17 | 127.68 | 251.01 | 88.09 | -5,390.45 | 2,074.78 | 1,231.36 | 853.39 | 377.97 | 3.258 | | |
| 11,200.00 | 5,465.55 | 16,971.79 | 5,486.63 | 129.95 | 253.30 | 88.10 | -5,461.16 | 2,145.49 | 1,231.36 | 848.83 | 382.54 | 3.219 | | |
| 11,300.00 | 5,464.92 | 17,071.79 | 5,486.08 | 132.22 | 255.59 | 88.10 | -5,531.87 | 2,216.20 | 1,231.36 | 844.26 | 387.10 | 3.181 | | |
| 11,400.00 | 5,464.29 | 17,171.79 | 5,485.54 | 134.50 | 257.89 | 88.10 | -5,602.59 | 2,286.91 | 1,231.36 | 839.69 | 391.67 | 3.144 | | |
| 11,500.00 | 5,463.66 | 17,271.79 | 5,485.00 | 136.77 | 260.18 | 88.11 | -5,673.30 | 2,357.62 | 1,231.36 | 835.12 | 396.24 | 3.108 | | |
| 11,600.00 | 5,463.03 | 17,371.79 | 5,484.45 | 139.05 | 262.47 | 88.11 | -5,744.01 | 2,428.33 | 1,231.36 | 830.55 | 400.80 | 3.072 | | |
| 11,700.00 | 5,462.40 | 17,471.79 | 5,483.91 | 141.32 | 264.76 | 88.12 | -5,814.72 | 2,499.03 | 1,231.36 | 825.98 | 405.37 | 3.038 | | |
| 11,800.00 | 5,461.77 | 17,571.79 | 5,483.36 | 143.60 | 267.06 | 88.12 | -5,885.43 | 2,569.74 | 1,231.36 | 821.41 | 409.94 | 3.004 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft Grid

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at Database: DT_Jan1924v17 Offset Datum Offset TVD Reference:

| urvey Progi Refe | ram: 0-N | MWD Off : | set | Semi N | laior Axis | | Offset Wellb | ore Centre | Dis | Rule Assig | gned: | | Offset Well Error: | 0.00 |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|------|
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 11,900.00 | 5,461.14 | 17,671.79 | 5,482.82 | 145.88 | 269.35 | 88.12 | -5,956.14 | 2,640.45 | 1,231.35 | 816.84 | 414.51 | 2.971 | | |
| 12,000.00 | 5,460.51 | 17,771.79 | 5,482.28 | 148.16 | 271.64 | 88.13 | -6,026.85 | 2,711.16 | 1,231.35 | 812.27 | 419.09 | 2.938 | | |
| 12,100.00 | 5,459.88 | 17,871.79 | 5,481.73 | 150.44 | 273.94 | 88.13 | -6,097.56 | 2,781.87 | 1,231.35 | 807.69 | 423.66 | 2.906 | | |
| 12,200.00 | 5,459.25 | 17,971.79 | 5,481.19 | 152.72 | 276.23 | 88.14 | -6,168.27 | 2,852.58 | 1,231.35 | 803.12 | 428.23 | 2.875 | | |
| 12,300.00 | 5,458.62 | 18,071.79 | 5,480.65 | 155.00 | 278.53 | 88.14 | -6,238.98 | 2,923.28 | 1,231.35 | 798.54 | 432.81 | 2.845 | | |
| 12,400.00 | 5,457.99 | 18,171.79 | 5,480.10 | 157.28 | 280.82 | 88.14 | -6,309.69 | 2,993.99 | 1,231.35 | 793.96 | 437.38 | 2.815 | | |
| 2,500.00 | 5,457.35 | 18,271.79 | 5,479.56 | 159.57 | 283.12 | 88.15 | -6,380.40 | 3,064.70 | 1,231.35 | 789.39 | 441.96 | 2.786 | | |
| 12,600.00 | 5,456.72 | 18,371.79 | 5,479.02 | 161.85 | 285.41 | 88.15 | -6,451.11 | 3,135.41 | 1,231.35 | 784.81 | 446.54 | 2.758 | | |
| 12,700.00 | 5,456.09 | 18,471.79 | 5,478.47 | 164.13 | 287.71 | 88.16 | -6,521.83 | 3,206.12 | 1,231.35 | 780.23 | 451.11 | 2.730 | | |
| 12,800.00 | 5,455.46 | 18,571.79 | 5,477.93 | 166.42 | 290.00 | 88.16 | -6,592.54 | 3,276.83 | 1,231.34 | 775.65 | 455.69 | 2.702 | | |
| 12,900.00 | 5,454.83 | 18,671.79 | 5,477.39 | 168.70 | 292.30 | 88.16 | -6,663.25 | 3,347.54 | 1,231.34 | 771.07 | 460.27 | 2.675 | | |
| 3,000.00 | 5,454.20 | 18,771.79 | 5,476.84 | 170.99 | 294.59 | 88.17 | -6,733.96 | 3,418.24 | 1,231.34 | 766.49 | 464.85 | 2.649 | | |
| 3,100.00 | 5,453.57 | 18,871.78 | 5,476.30 | 173.27 | 296.89 | 88.17 | -6,804.67 | 3,488.95 | 1,231.34 | 761.91 | 469.43 | 2.623 | | |
| 13,200.00 | 5,452.94 | 18,971.78 | 5,475.76 | 175.56 | 299.18 | 88.18 | -6,875.38 | 3,559.66 | 1,231.34 | 757.33 | 474.01 | 2.598 | | |
| 13,300.00 | 5,452.31 | 19,071.78 | 5,475.21 | 177.85 | 301.48 | 88.18 | -6,946.09 | 3,630.37 | 1,231.34 | 752.75 | 478.59 | 2.573 | | |
| 13,400.00 | 5,451.68 | 19,171.78 | 5,474.67 | 180.13 | 303.77 | 88.18 | -7,016.80 | 3,701.08 | 1,231.34 | 748.16 | 483.17 | 2.548 | | |
| 13,500.00 | 5,451.05 | 19,271.78 | 5,474.12 | 182.42 | 306.07 | 88.19 | -7,087.51 | 3,771.79 | 1,231.34 | 743.58 | 487.76 | 2.524 | | |
| 13,508.07 | 5,451.00 | 19,279.86 | 5,474.08 | 182.61 | 306.25 | 88.19 | -7,093.22 | 3,777.49 | 1,231.34 | 743.21 | 488.13 | 2.523 ES, SF | : | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference:
Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Haynes Canyon Unit 428H

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Minimum Curvature 2.00 sigma DT_Jan1924v17 Offset Datum

| Part | n: Hayne | mes canyo | JII UIIII (42 | 20,430,440 | x 442) - | naynes can | yon Unit 430H | - Originai H | iole - rev0 | | | | Offset Site Error: | 0.00 f |
|--|------------|------------------|---------------|-------------------|-------------------|------------|---------------|--------------|-------------|----------|---------|-------------|--------------------|--------|
| | | | | | | | | | | | gned: | | Offset Well Error: | 0.00 f |
| | | | | | | Highside | Offset Wellbo | re Centre | | | Minimum | Separation | Warning | |
| 100.00 | | | | / ft \ | (ft) | | | | | | | Factor | _ | |
| 19000 19000 19000 19000 19000 19000 0.00 | | | | | | | | | | (11) | (11) | | | |
| | | | | | | | | | | 19.53 | 0.40 | 49 422 | | |
| 1000 | | | | | | | | | | | | | | |
| March Marc | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 1900.00 | | | | | | | | | | | | | | |
| | 000.00 | 000.00 | 000.00 | 1.70 | 1.07 | 100.02 | -0.70 | 15.10 | 10.00 | 10.00 | 0.21 | 0.000 | | |
| | | | | | | | | | | | | | | |
| 1,000.00 1,000.00 1,000.00 1,000.00 1,000.00 3.14 3.00 106.62 5.70 19.10 19.98 13.79 6.14 3.247 | | | 700.00 | | | | | 19.10 | 19.93 | 15.23 | | 4.236 | | |
| 1,00000 1,00000 1,00000 1,00000 1,00000 3,500 3,58 3,58 106,62 5,70 19,1 | 800.00 | 800.00 | 800.00 | 2.78 | 2.64 | 106.62 | -5.70 | 19.10 | 19.93 | 14.51 | 5.42 | 3.676 | | |
| 1,0000 | 900.00 | 900.00 | 900.00 | 3.14 | 3.00 | 106.62 | -5.70 | 19.10 | 19.93 | 13.79 | 6.14 | 3.247 | | |
| 1,198.67 1,198.67 1,198.28 1,198.28 1,198.28 1,198.97 4.21 4.08 75.10 4.30 16.48 17.06 8.77 8.20 2,000 C | 1,000.00 1 | 1,000.00 | 1,000.00 | 3.50 | 3.36 | 106.62 | -5.70 | 19.10 | 19.93 | 13.08 | 6.86 | 2.907 | | |
| 1,000 | 1,100.00 1 | 1,100.45 | 1,100.40 | 3.85 | 3.72 | 99.68 | -3.14 | 18.44 | 18.71 | 11.13 | 7.57 | 2.470 | | |
| 1,000 | 1,198.87 1 | 1,199.23 | 1,198.87 | 4.21 | 4.08 | 75.46 | 4.28 | 16.51 | 17.05 | 8.77 | 8.28 | 2.059 CC | | |
| 1,900 | 1,200.00 1 | 1,200.35 | 1,199.99 | 4.21 | 4.08 | | 4.39 | 16.48 | 17.06 | 8.77 | 8.29 | 2.057 ES, S | SF. | |
| 1,500.00 | 1,300.00 1 | 1,299.89 | 1,299.07 | 4.57 | 4.44 | 46.00 | 13.61 | 14.09 | 19.61 | 10.61 | 9.00 | 2.179 | | |
| 1,800.00 1,588.77 1,586.77 1,586.79 5.80 5.54 145.16 41.11 6.96 59.16 48.05 11.10 5.327 1,700.00 1,707.38 1,801.28 1,801.28 5.97 5.90 147.62 50.14 4.81 81.28 1.22 83.75 1,800.00 1,801.81 1,805.31 1,881.81 6.79 6.62 152.73 67.84 0.02 139.02 152.79 132.4 10.501 1,900.00 1,801.81 1,805.31 1,881.81 6.79 6.62 152.73 67.84 0.02 139.02 152.79 132.4 10.501 1,900.00 1,894.33 1,978.40 1,974.47 7.27 6.62 152.73 154.86 76.46 -2.21 174.90 160.96 13.95 12.539 2,000.00 1,881.81 1,878.31 1,974.47 7.27 6.67 154.86 76.46 -2.21 174.90 160.96 13.95 12.539 2,000.00 2,000.43 2,000.88 7.80 7.22 156.65 84.89 -4.40 215.40 200.75 14.65 14.701 2,000.00 2,000.43 2,000.88 2,340.86 8.34 160.76 159.80 10.158 -4.57 258.46 16.05 18.783 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 109.38 -1.030 344.72 22.79 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 109.38 -1.152 431.31 413.12 18.19 23.711 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 118.27 -1.306 387.99 370.52 17.47 22.207 2,000.00 2,350.88 2,334.06 10.33 8.69 161.55 118.27 -1.306 387.99 370.52 17.47 22.207 2,000.00 2,000.78 2,000.78 2,000.78 11.02 9.03 162.16 126.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 1.102 9.03 162.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 1.102 9.03 162.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 2,000.78 1.102 1.002 1 | 1,399.95 1 | 1,399.33 | 1,398.06 | 4.92 | 4.80 | 147.90 | 22.82 | 11.70 | 27.89 | 18.19 | 9.70 | 2.876 | | |
| 1,800.00 1,588.77 1,586.77 1,586.79 5.80 5.54 145.16 41.11 6.96 59.16 48.05 11.10 5.327 1,700.00 1,707.38 1,801.28 1,801.28 5.97 5.90 147.62 50.14 4.81 81.28 1.22 83.75 1,800.00 1,801.81 1,805.31 1,881.81 6.79 6.62 152.73 67.84 0.02 139.02 152.79 132.4 10.501 1,900.00 1,801.81 1,805.31 1,881.81 6.79 6.62 152.73 67.84 0.02 139.02 152.79 132.4 10.501 1,900.00 1,894.33 1,978.40 1,974.47 7.27 6.62 152.73 154.86 76.46 -2.21 174.90 160.96 13.95 12.539 2,000.00 1,881.81 1,878.31 1,974.47 7.27 6.67 154.86 76.46 -2.21 174.90 160.96 13.95 12.539 2,000.00 2,000.43 2,000.88 7.80 7.22 156.65 84.89 -4.40 215.40 200.75 14.65 14.701 2,000.00 2,000.43 2,000.88 2,340.86 8.34 160.76 159.80 10.158 -4.57 258.46 16.05 18.783 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 109.38 -1.030 344.72 22.79 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 109.38 -1.152 431.31 413.12 18.19 23.711 2,000.00 2,350.88 2,334.06 9.66 8.34 160.78 118.27 -1.306 387.99 370.52 17.47 22.207 2,000.00 2,350.88 2,334.06 10.33 8.69 161.55 118.27 -1.306 387.99 370.52 17.47 22.207 2,000.00 2,000.78 2,000.78 2,000.78 11.02 9.03 162.16 126.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 1.102 9.03 162.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 1.102 9.03 162.16 126.16 1.52 431.31 413.12 18.19 23.711 2,000.00 2,000.78 2,000.78 2,000.78 2,000.78 1.102 1.002 1 | 1.499.63 1 | 1.498 38 | 1,496,65 | 5 26 | 5 17 | 144 13 | 31 99 | 9.32 | 41 40 | 31.00 | 10 40 | 3.981 | | |
| 1,700.00 1,897.08 1,894.22 1,891.61 5,97 5,90 147.62 50.14 4,81 181.24 89.42 118.2 6,875 1,800.00 1,890.18 1,885.31 1,881.81 6,79 6,62 152.73 67.84 0.02 139.02 125.79 13.24 10.501 | | | | | | | | | | | | | | |
| 1,800.00 1,784.31 1,770.50 1,787.43 6.36 6.26 150.28 59.06 2.20 107.82 59.29 12.53 8.606 1,900.00 1,890.18 1,885.31 1,881.81 81 6.79 6.62 152.73 67.94 0.02 139.02 125.79 13.24 10.501 1,900.00 1,890.18 1,885.31 1,881.81 1,881.81 6.79 6.62 152.73 67.94 0.002 139.02 125.79 13.24 10.501 1,900.00 1,890.18 1,885.31 1,881.8 | | | | | | | | | | | | | | |
| 1,900,00 1,880,18 1,885,31 1,881,81 6,79 6,62 152,73 67,84 0.02 139,02 125,79 13,24 10,501 2,000,00 1,984,43 1,978,40 3,074,47 7,27 6,97 154,86 76,46 221 174,90 160,66 13,95 12,539 2,000,00 2,168,17 2,155,56 2,168,17 2,155,56 2,164,79 8,39 7,66 158,48 93,24 -6,57 258,40 243,05 15,35 16,831 2,300,00 2,299,52 2,248,60 2,244,42 9,01 8,00 159,80 101,88 -8,73 301,51 285,46 16,05 16,76 20,599 2,500,00 2,422,49 9,0 16,155 118,27 -13,06 387,99 370,52 17,47 22,207 2,500,00 2,533,59 2,519,73 2,513,32 110,2 9,37 162,66 134,95 -17,39 41,31 141,31 181,92 23,44 2,500,00 2,7 | | | | | | | | | | | | | | |
| 2,000,00 1,984,43 1,978,40 1,974,47 7,27 6,97 154,86 76,46 -2,21 174,90 160,96 13,95 12,539 2,099,91 2,076,73 2,089,43 2,086,08 7,80 7,32 156,65 84,89 -4,40 215,40 20,075 14,65 14,701 2,200,00 2,289,52 2,249,60 2,244,42 9,01 8,00 159,80 101,58 -8,73 301,51 286,46 16,05 18,783 2,400,00 2,349,60 2,424,69 9,60 8,34 160,78 199,93 -10,30 344,72 327,96 16,76 20,609 2,500,00 2,533,96 2,423,69 10,33 8,69 16,55 118,27 -13,06 387,99 370,52 17,47 22,07 2,500,00 2,533,96 2,513,32 11,02 9,03 162,16 126,61 15,27 47,13 41,12 18,19 23,711 2,700,00 2,533,96 2,513,32 11,02 9,37 | | | | | | | | | | | | | | |
| 2,099 1 2,076,73 2,089,43 2,085,68 7,80 7,22 158,66 84,89 -4.40 215,04 200,75 14,65 14,701 2,000,00 2,188,17 2,159,56 2,154,79 8,39 7,66 158,48 93,24 -6.57 288,40 243,05 15,35 16,331 2,400,00 2,392,65 2,234,06 9,66 8,34 160,78 109,93 -10,90 34472 327,96 16,76 20,669 2,500,00 2,442,24 2,429,69 2,234,66 10,33 8,69 161,56 12,686 14,171 13,06 397,99 370,52 17,47 22,207 2,500,00 2,581,73 2,513,32 11,02 9,03 162,16 128,61 -15,29 431,31 14,131 18,19 23,111 2,700,00 2,624,95 2,698,82 2,802,95 11,72 9,37 162,66 134,95 -17,39 474,66 455,74 18,91 26,374 2,800,00 2,879,91 <td< td=""><td>1,000.10</td><td>1,000.01</td><td>1,001.01</td><td>00</td><td>0.02</td><td>102.10</td><td>01.01</td><td>0.02</td><td>100.02</td><td>120.10</td><td>.0.2</td><td></td><td></td><td></td></td<> | 1,000.10 | 1,000.01 | 1,001.01 | 00 | 0.02 | 102.10 | 01.01 | 0.02 | 100.02 | 120.10 | .0.2 | | | |
| 2,000 2,168,17 2,159,56 2,144,79 8,39 7,66 158,88 93,24 -8,57 2,884,0 243,05 15,35 16,831 2,300,00 2,259,52 2,249,60 2,244,42 9,01 8,00 159,80 101,58 8,73 301,51 285,46 16,05 18,783 2,000,00 2,350,88 2,339,65 2,334,60 9,66 8,34 160,78 109,93 -1,09 34,72 327,96 16,76 20,569 2,500,00 2,42,24 2,429,69 2,423,69 10,33 8,69 161,55 118,27 -13,06 387,99 370,52 17,47 22,207 2,500,00 2,533,59 2,519,73 2,513,32 11,02 9,03 162,16 126,61 -15,22 431,31 413,12 18,19 23,711 2,5006 2,600,00 2,716,30 2,698,82 2,692,58 11,72 9,03 162,16 126,61 -15,22 431,31 413,12 18,19 23,711 2,5006 2,600,00 2,716,30 2,698,82 2,692,58 12,44 9,72 165,08 143,29 -19,55 518,03 498,39 19,64 26,374 2,500,00 2,897,66 2,789,87 2,782,21 13,16 10,06 163,43 151,63 -21,71 561,43 541,05 20,37 27,556 3,000,00 2,899,02 2,879,91 2,782,21 13,16 10,06 163,43 151,63 -21,71 561,43 541,05 20,37 27,556 3,000,00 2,899,37 2,999,66 2,961,84 14,64 10,76 163,39 168,32 2,604,64 648,25 6,644 2,6374 2,438 3,000,00 3,051,31 3,060,00 3,051,31 1,10 164,22 176,66 2,821 691,66 699,99 22,59 30,618 3,300,00 3,173,3 3,060,00 3,051,31 3,160,05 | 1,984.43 1 | 1,978.40 | 1,974.47 | 7.27 | 6.97 | 154.86 | 76.46 | -2.21 | 174.90 | 160.96 | 13.95 | 12.539 | | |
| 2,300.00 2,259.52 2,248.60 2,244.42 9.01 8.00 150.80 101.58 -8.73 301.51 285.46 16.05 18783 2,400.00 2,350.88 2,339.65 2,334.06 9.66 8.34 160.78 109.93 -10.90 344.72 327.96 16.76 20.569 2,500.00 2,345.24 2,429.69 2,423.69 10.33 8.69 161.55 118.27 -1.30.6 387.99 370.52 17.47 22.207 2,600.00 2,519.73 2,619.35 2,609.78 2,609.95 117.2 9.37 162.66 134.95 -17.39 474.66 455.74 18.91 25.096 2,800.00 2,161.30 2,698.87 2,782.21 13.16 10.06 163.43 151.63 -21.71 561.43 541.05 20.37 27.556 3,000.00 2,899.02 2,879.91 2,871.84 13.90 10.41 163.73 159.97 -23.88 604.83 583.72 21.11 28.652 | 2,076.73 2 | 2,069.43 | 2,065.08 | 7.80 | 7.32 | 156.65 | 84.89 | -4.40 | 215.40 | 200.75 | 14.65 | 14.701 | | |
| 2,400,00 2,350,88 2,334,06 9,66 8,34 160,78 199,93 -10,90 344,72 327,96 16,76 20,569 2,500,00 2,442,24 2,429,69 2,423,69 10,33 8,69 161,55 118,27 -13,06 387,99 370,52 17,47 22,207 2,500,00 2,533,59 2,519,73 2,513,32 11,02 9,03 162,66 134,95 17,39 474,66 455,74 18,91 25,066 2,800,00 2,716,30 2,698,28 12,44 9,72 163,08 143,29 -19,55 518,03 488,39 19,64 26,374 2,900,00 2,807,66 2,789,87 2,782,21 13,16 10,06 163,43 151,63 -21,71 561,03 488,39 19,64 26,374 3,000,00 3,290,76 2,2879,91 2,871,84 14,64 10,76 163,99 168,32 -26,04 648,25 626,41 21,85 29670 3,000,00 3,137,09 3,150,05 | 2,168.17 2 | 2,159.56 | 2,154.79 | 8.39 | 7.66 | 158.48 | 93.24 | -6.57 | 258.40 | 243.05 | 15.35 | 16.831 | | |
| 2,500.00 | 2,259.52 2 | 2,249.60 | 2,244.42 | 9.01 | 8.00 | 159.80 | 101.58 | -8.73 | 301.51 | 285.46 | 16.05 | 18.783 | | |
| 2,600,00 2,533,59 2,519,73 2,513,32 11,02 9,03 162,16 126,61 -15,22 431,31 413,12 18,19 23,711 2,700,00 2,624,95 2,609,78 2,609,58 11,72 9,37 162,66 134,95 -17,39 474,66 455,74 18,191 25,096 2,800,00 2,716,30 2,699,87 2,782,21 13,16 10,06 163,43 151,63 -21,71 561,43 541,05 20,37 2,7556 3,000,00 2,899,02 2,879,91 2,871,84 13,90 10,41 163,73 159,97 -23,88 604,83 583,72 21,11 28,652 3,000,00 3,081,73 3,600,00 3,051,11 15,39 11,10 164,22 176,66 -28,21 64,82 604,83 583,72 21,11 28,652 3,000,00 3,051,30 3,100,41 16,14 11,45 164,22 176,66 -28,21 691,88 669,99 22,59 30,618 3,300,00 <td>2,350.88 2</td> <td>2,339.65</td> <td>2,334.06</td> <td>9.66</td> <td>8.34</td> <td>160.78</td> <td>109.93</td> <td>-10.90</td> <td>344.72</td> <td>327.96</td> <td>16.76</td> <td>20.569</td> <td></td> <td></td> | 2,350.88 2 | 2,339.65 | 2,334.06 | 9.66 | 8.34 | 160.78 | 109.93 | -10.90 | 344.72 | 327.96 | 16.76 | 20.569 | | |
| 2,600.00 2,533.59 2,519.73 2,519.73 2,513.32 11.02 9.03 162.16 126.61 -15.22 431.31 413.12 18.19 23.711 2,700.00 2,624.95 2,609.78 2,602.95 11.72 9.37 162.66 134.95 -17.39 474.66 455.74 18.19 25.096 2,800.00 2,716.30 2,698.87 2,782.21 13.16 10.06 163.43 151.63 -21.71 561.43 541.05 20.37 27.556 3,000.00 2,899.02 2,879.91 2,871.84 13.90 10.41 163.73 159.97 -23.88 604.83 583.72 21.11 28.652 3,000.00 3,081.73 3,600.00 3,651.11 15.39 11.10 164.22 176.66 -28.21 604.83 583.72 21.11 28.652 3,000.00 3,051.31 15.90 11.79 164.22 176.66 -28.21 604.83 583.72 21.11 28.652 3,000.03 3,558.30< | 2.442.24 2 | 2.429.69 | 2.423.69 | 10.33 | 8.69 | 161.55 | 118.27 | -13.06 | 387.99 | 370.52 | 17.47 | 22.207 | | |
| 2,700.00 | | | | | | | | | | | | | | |
| 2,800.00 | | | | | | | | | | | | | | |
| 2,900.00 2,807.66 2,789.87 2,782.21 13.16 10.06 163.43 151.63 -21.71 561.43 541.05 20.37 27.556 3,000.00 2,899.02 2,879.91 2,871.84 13.90 10.41 163.73 159.97 -23.88 604.83 583.72 21.11 28.652 3,100.00 2,990.37 2,969.96 2,961.48 14.64 10.76 163.99 168.32 -26.04 648.25 626.41 21.85 29.670 3,200.00 3,173.09 3,160.05 3,140.74 16.14 11.45 164.42 185.00 -30.37 735.12 771.79 23.34 31.502 3,400.00 3,264.44 3,240.09 3,230.37 16.90 11.79 164.60 193.34 -32.53 778.57 754.48 24.08 32.329 3,500.00 3,355.80 3,330.14 3,320.00 17.66 12.14 164.76 201.68 -34.70 822.02 797.18 24.83 33.103 3,600.0 | | | | | | | | | | | | | | |
| 3,100.00 2,990.37 2,969.96 2,961.48 14.64 10.76 163.99 168.32 -26.04 648.25 626.41 21.85 29.670 3,200.00 3,081.73 3,060.00 3,051.11 15.39 11.10 164.22 176.66 -28.21 691.68 669.09 22.59 30.618 3,300.00 3,173.09 3,150.05 3,140.74 161.44 11.45 164.42 185.00 -3.03.7 735.12 7711.79 23.34 31.502 3,400.00 3,264.44 3,240.09 3,230.37 16.90 11.79 164.60 193.34 -32.53 778.57 754.48 24.08 32.329 3,500.00 3,447.16 3,420.18 3,400.00 17.66 12.14 164.76 201.68 -34.70 822.02 797.18 24.83 33.103 3,500.00 3,447.16 3,420.18 3,409.63 18.43 12.49 164.91 210.02 -36.86 865.47 839.89 25.58 33.829 3,700.00 3,538.51 3,510.23 3,499.66 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 -41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 4,000.00 3,93.54 3,804.54 3,845.54 3,870.36 3,768.16 21.52 13.87 165.51 252.25 47.82 1,039.32 1,010.72 28.61 36.331 4,100.00 3,93.54 3,884.15 3,871.54 22.30 14.27 165.51 252.25 47.82 1,002.54 1,053.07 29.47 36.736 4,200.00 3,93.54 4,100.40 3,993.54 4,100.40 3,993.54 4,100.40 3,993.54 4,100.40 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,123.12 1,092.70 30.42 36.925 4,200.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,128.13 1,157.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,124.33 1,181.77 3.256 37.296 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,241.33 1,181.77 3.256 37.296 4,500.00 4,476.75 4,489.5 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,476.75 4,489.5 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.00 1,2 | | | | | | | | | | | | | | |
| 3,100.00 2,990.37 2,969.96 2,961.48 14.64 10.76 163.99 168.32 -26.04 648.25 626.41 21.85 29.670 3,200.00 3,081.73 3,060.00 3,051.11 15.39 11.10 164.22 176.66 -28.21 691.68 669.09 22.59 30.618 3,300.00 3,173.09 3,150.05 3,140.74 16.14 11.45 164.42 185.00 -30.37 735.12 711.79 23.34 31.502 3,400.00 3,264.44 3,240.09 3,230.37 16.60 11.79 164.60 193.34 -32.53 778.57 754.48 24.08 32.329 3,500.00 3,558.80 3,330.14 3,320.00 17.66 12.14 164.76 201.68 -34.70 822.02 797.18 24.83 33.103 3,600.00 3,447.16 3,420.18 3,409.63 18.43 12.49 164.91 210.02 -36.86 865.47 839.89 25.58 33.829 3,700.00 3,538.51 3,510.23 3,499.66 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.03 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 4,000.00 3,812.58 3,780.36 3,768.16 21.52 13.87 165.36 243.39 -45.52 10.93.32 1,010.72 28.61 36.331 4,100.00 3,993.94 3,884.15 3,871.54 22.30 14.27 165.51 252.55 47.82 1,002.54 1,053.07 29.47 36.736 4,200.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,123.12 1,092.70 30.42 36.925 4,200.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,124.33 1,127.19 31.14 37.199 4,000.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,000.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1 | | 0.070.04 | 0.074.04 | 40.00 | 10.11 | 100 70 | 450.07 | 20.00 | 201.00 | 500 70 | 04.44 | 00.050 | | |
| 3,200.00 3,081.73 3,060.00 3,051.11 15.39 11.10 164.22 176.66 -28.21 691.68 669.09 22.59 30.618 3.300.00 3,173.09 3,150.05 3,140.74 16.14 11.45 164.42 185.00 -30.37 735.12 711.79 23.34 31.502 3,400.00 3,264.44 3,240.09 3,230.37 16.90 11.79 164.60 193.34 -32.53 778.57 754.48 24.08 32.329 3.500.00 3,355.80 3,330.14 3,320.00 17.66 12.14 164.76 201.68 -34.70 822.02 797.18 24.83 33.103 3,600.00 3,447.16 3,420.18 3,409.63 18.43 12.49 164.91 210.02 -36.86 865.47 839.89 25.58 33.829 3,700.00 3,538.51 3,510.23 3,499.26 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 43.35 995.86 968.01 27.85 35.769 4,000.00 3,812.58 3,780.36 3,786.16 21.52 13.87 165.36 243.39 45.52 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 4.89.0 1,123.12 1,092.70 30.42 36.925 4,200.00 4,887.6 4,101.47 4,088.76 23.78 15.03 166.81 256.44 48.90 1,123.12 1,092.70 30.42 36.925 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 48.90 1,123.12 1,092.70 30.42 36.925 4,500.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 48.90 1,123.12 1,092.70 30.42 36.925 4,500.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 48.90 1,123.12 1,092.70 30.42 36.925 4,500.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 48.90 1,241.33 1,181.77 32.56 37.296 4,500.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 48.90 1,250.51 1,216.56 33.96 36.827 4,500.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 48.90 1,250.51 1,216.56 33.96 36.827 4,500.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 48.90 1,250.51 1,216.56 33.96 36.827 4,500.00 4,676.76 4,489.45 4,476.75 25.90 16.36 168.38 256.44 48.90 1,266.40 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
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| 3,600.00 3,447.16 3,420.18 3,409.63 18.43 12.49 164.91 210.02 -36.86 865.47 839.89 25.58 33.829 3,700.00 3,538.51 3,510.23 3,499.26 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 -41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 3,000.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 3,000.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.00 1,231.10 35.31 35.866 | 3,264.44 3 | 3,240.09 | 3,230.37 | 16.90 | 11.79 | 164.60 | 193.34 | -32.53 | 7/8.57 | 754.48 | 24.08 | 32.329 | | |
| 3,600.00 3,447.16 3,420.18 3,409.63 18.43 12.49 164.91 210.02 -36.86 865.47 839.89 25.58 33.829 3,700.00 3,538.51 3,510.23 3,499.26 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 -41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 3.600.00 3,812.58 3,780.36 3,768.16 21.52 13.87 165.36 243.39 -45.52 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,676.00 4,676.00 4,676.00 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | 3,355.80 3 | 3,330.14 | 3,320.00 | 17.66 | 12.14 | 164.76 | 201.68 | -34.70 | 822.02 | 797.18 | 24.83 | 33.103 | | |
| 3,700.00 3,538.51 3,510.23 3,499.26 19.20 12.83 165.04 218.36 -39.02 908.93 882.59 26.34 34.511 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 -41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 4,000.00 3,812.58 3,780.36 3,768.16 21.52 13.87 165.36 243.39 -45.52 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.00 1,261.00 1,221.10 35.31 35.866 | | | | | | | | | | | | | | |
| 3,800.00 3,629.87 3,600.27 3,588.90 19.97 13.18 165.16 226.70 -41.19 952.39 925.30 27.09 35.154 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 4,000.00 3,812.58 3,780.36 3,768.16 21.52 13.87 165.36 243.39 -45.52 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,266.00 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
| 3,900.00 3,721.23 3,690.31 3,678.53 20.74 13.53 165.26 235.05 -43.35 995.86 968.01 27.85 35.759 4,000.00 3,812.58 3,780.36 3,768.16 21.52 13.87 165.36 243.39 -45.52 1,039.32 1,010.72 28.61 36.331 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
| 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,066.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,676.75 4,489.45 4,476.75 25.90 16.36 | | | | | | | | | | | | | | |
| 4,100.00 3,903.94 3,884.15 3,871.54 22.30 14.27 165.51 252.25 -47.82 1,082.54 1,053.07 29.47 36.736 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 | 3 812 50 | 3 790 2 <i>c</i> | 3 760 16 | 24 52 | 12 07 | 165.26 | 242 20 | _AE E2 | 1 020 22 | 1 010 72 | 20 61 | 36 321 | | |
| 4,200.00 3,995.51 4,006.65 3,993.94 23.07 14.71 166.12 256.43 -48.90 1,123.12 1,092.70 30.42 36.925 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 | | | | | | | | | | | | | | |
| 4,300.00 4,088.76 4,101.47 4,088.76 23.78 15.03 166.81 256.44 -48.90 1,158.33 1,127.19 31.14 37.199 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 | | | | | | | | | | | | | | |
| 4,400.00 4,183.77 4,196.48 4,183.77 24.42 15.36 167.36 256.44 -48.90 1,188.76 1,156.91 31.85 37.324 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
| 4,500.00 4,280.28 4,292.99 4,280.28 24.99 15.69 167.80 256.44 -48.90 1,214.33 1,181.77 32.56 37.296 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 | | | | | | | | | | | | | | |
| 4,600.00 4,378.03 4,390.74 4,378.03 25.48 16.02 168.14 256.44 -48.90 1,234.94 1,201.67 33.26 37.127 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
| 4,700.00 4,476.75 4,489.45 4,476.75 25.90 16.36 168.38 256.44 -48.90 1,250.51 1,216.56 33.96 36.827 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,261.02 1,226.38 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | | | | | | | | | | | | | | |
| 4,800.00 4,576.16 4,588.87 4,576.16 26.26 16.71 168.54 256.44 -48.90 1,261.02 1,263.88 34.64 36.404 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | 4,378.03 4 | 4,390.74 | 4,378.03 | 25.48 | 16.02 | 168.14 | 256.44 | -48.90 | 1,234.94 | 1,201.67 | 33.26 | 37.127 | | |
| 4,900.00 4,676.00 4,688.71 4,676.00 26.55 17.05 168.63 256.44 -48.90 1,266.40 1,231.10 35.31 35.866 | 4,476.75 4 | 4,489.45 | 4,476.75 | 25.90 | 16.36 | 168.38 | 256.44 | -48.90 | 1,250.51 | 1,216.56 | 33.96 | 36.827 | | |
| | 4,576.16 4 | 4,588.87 | 4,576.16 | 26.26 | 16.71 | 168.54 | 256.44 | -48.90 | 1,261.02 | 1,226.38 | 34.64 | 36.404 | | |
| | 4,676.00 4 | 4,688.71 | 4,676.00 | 26.55 | 17.05 | 168.63 | 256.44 | -48.90 | 1,266.40 | 1,231.10 | 35.31 | 35.866 | | |
| 5,000.00 4,775.99 4,788.70 4,775.99 26.78 17.40 50.84 256.44 -48.90 1,267.18 1,231.22 35.96 35.239 | 4 775 99 | 4 788 70 | 4,775.99 | 26.78 | 17 40 | 50.84 | 256 44 | -48 QN | 1 267 18 | 1 231 22 | 35.96 | 35 230 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft Grid

Well Haynes Canyon Unit 428H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Jan1924v17
Offset TVD Reference: Offset Datum

| Offset De | sign: Ha | ynes Cany | on Unit (4 | 28,430,440 | & 442) - | Haynes Can | yon Unit 430H | - Original H | lole - rev0 | | | | Offset Site Error: | 0.00 ft |
|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------------------|------------------------|----------------------|----------------------|----------------------|-----------------|------------------|--------------------|---------|
| Survey Progr | | -MWD | | | | | | | | Rule Ass | gned: | | Offset Well Error: | 0.00 ft |
| Refe Measured | rence Vertical | Off Measured | set Vertical | Semi I Reference | Major 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) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 5,100.00 | 4,875.99 | 4,888.70 | 4,875.99 | 27.00 | 17.74 | 50.84 | 256.44 | -48.90 | 1,267.18 | 1,230.57 | 36.61 | 34.615 | | |
| 5,200.00 5,300.00 | 4,975.92 5,074.25 | 4,985.34 5,079.23 | 4,972.56 5,064.96 | 27.21 27.38 | 18.06 18.31 | -84.17 -84.31 | 254.68 242.54 | -47.38 -36.89 | 1,267.02 1,265.74 | 1,229.82 1,228.06 | 37.21 37.69 | 34.054 33.584 | | |
| 5,400.00 | 5,168.04 | 5,173.22 | 5,004.90 | 27.51 | 18.53 | -84.62 | 219.13 | -16.65 | 1,263.22 | 1,225.11 | 38.11 | 33.146 | | |
| 5,500.00 | 5,254.45 | 5,267.46 | 5,236.20 | 27.61 | 18.72 | -85.08 | 184.98 | 12.87 | 1,259.52 | 1,221.00 | 38.52 | 32.698 | | |
| 5,600.00 | 5,330.86 | 5,362.08 | 5,310.58 | 27.66 | 18.93 | -85.70 | 140.86 | 51.00 | 1,254.77 | 1,215.78 | 38.99 | 32.181 | | |
| | | | | | | | | | | | | | | |
| 5,700.00 | 5,394.93 | 5,457.22 | 5,374.67 | 27.69 | 19.21 | -86.44 | 87.78 | 96.89 | 1,249.12 | 1,209.50 | 39.62 | 31.526 | | |
| 5,800.00 | 5,444.72 | 5,553.71 | 5,427.23 | 27.68 | 19.62 | -87.32 | 26.64 | 149.74 | 1,242.74 | 1,202.23 | 40.52 | 30.672 | | |
| 5,900.00 | 5,478.73 | 5,651.35 | 5,473.49 | 27.65 | 20.17 | -88.66 | -38.36 | 205.92 | 1,235.78 | 1,194.01 | 41.77 | 29.583 | | |
| 6,000.00 | 5,495.91 | 5,750.17 | 5,506.12 | 27.60 | 20.90 | -90.13 | -108.84 | 266.84 | 1,228.67 | 1,185.29 | 43.39 | 28.317 | | |
| 6,100.00 | 5,497.70 | 5,852.12 | 5,522.50 | 27.54 | 21.83 | -91.19 | -184.85 | 332.55 | 1,221.63 | 1,176.28 | 45.35 | 26.937 | | |
| 6,200.00 | 5,497.07 | 5,932.32 | 5,523.73 | 27.50 | 22.68 | -91.28 | -245.30 | 385.20 | 1,214.91 | 1,167.53 | 47.38 | 25.643 | | |
| 6,300.00 | 5,496.44 | 6,000.00 | 5,523.18 | 27.51 | 23.47 | -91.28 | -294.90 | 431.25 | 1,211.05 | 1,161.59 | 49.47 | 24.483 | | |
| 6,383.12 | 5,495.91 | 6,048.93 | 5,522.79 | 27.73 | 24.10 | -91.27 | -329.75 | 465.59 | 1,210.21 | 1,158.89 | 51.31 | 23.585 | | |
| 6,400.00 | 5,495.81 | 6,065.80 | 5,522.66 | 27.87 | 24.33 | -91.27 | -341.68 | 477.52 | 1,210.21 | 1,158.48 | 51.73 | 23.396 | | |
| 6,500.00 | 5,495.18 | 6,165.80 | 5,521.85 | 29.16 | 25.75 | -91.26 | -412.39 | 548.23 | 1,210.20 | 1,155.53 | 54.68 | 22.133 | | |
| | | | | | | | | | | | | | | |
| 6,600.00 | 5,494.55 | 6,265.80 | 5,521.05 | 30.76 | 27.29 | -91.26 | -483.10 | 618.94 | 1,210.20 | 1,152.36 | 57.84 | 20.923 | | |
| 6,700.00 | 5,493.92 | 6,365.80 | 5,520.25 | 32.47 | 28.93 | -91.25 | -553.80 | 689.65 | 1,210.20 | 1,149.01 | 61.19 | 19.778 | | |
| 6,800.00 | 5,493.29 | 6,465.80 | 5,519.45 | 34.25 | 30.66 | -91.24 | -624.51 | 760.36 | 1,210.19 | 1,145.50 | 64.69 | 18.707 | | |
| 6,900.00 | 5,492.66 5,492.02 | 6,565.80 6,665.80 | 5,518.65 5,517.85 | 36.09 37.98 | 32.46 34.32 | -91.23 -91.22 | -695.22 -765.93 | 831.06 901.77 | 1,210.19 1,210.19 | 1,141.86 1,138.12 | 68.33 72.07 | 17.712 16.791 | | |
| 7,000.00 | 3,492.02 | 0,005.60 | 5,517.65 | 37.90 | 34.32 | -91.22 | -705.93 | 901.77 | 1,210.19 | 1,130.12 | 72.07 | 10.791 | | |
| 7,100.00 | 5,491.39 | 6,765.80 | 5,517.05 | 39.92 | 36.23 | -91.21 | -836.63 | 972.48 | 1,210.19 | 1,134.27 | 75.92 | 15.941 | | |
| 7,200.00 | 5,490.76 | 6,865.80 | 5,516.24 | 41.89 | 38.18 | -91.21 | -907.34 | 1,043.19 | 1,210.18 | 1,130.34 | 79.84 | 15.158 | | |
| 7,300.00 | 5,490.13 | 6,965.80 | 5,515.44 | 43.89 | 40.17 | -91.20 | -978.05 | 1,113.90 | 1,210.18 | 1,126.35 | 83.83 | 14.436 | | |
| 7,400.00 | 5,489.50 | 7,065.80 | 5,514.64 | 45.92 | 42.20 | -91.19 | -1,048.76 | 1,184.61 | 1,210.18 | 1,122.29 | 87.89 | 13.770 | | |
| 7,500.00 | 5,488.87 | 7,165.80 | 5,513.84 | 47.98 | 44.25 | -91.18 | -1,119.47 | 1,255.32 | 1,210.17 | 1,118.18 | 91.99 | 13.155 | | |
| 7 000 00 | E 400.04 | 7.005.00 | E 540.04 | 50.05 | 40.00 | 04.47 | 4 400 47 | 4 000 00 | 4 040 47 | 4 444 00 | 00.44 | 40.507 | | |
| 7,600.00 7,700.00 | 5,488.24 5,487.61 | 7,265.80 7,365.80 | 5,513.04 5,512.24 | 50.05 52.15 | 46.32 48.42 | -91.17 -91.17 | -1,190.17 -1,260.88 | 1,326.03 1,396.73 | 1,210.17 1,210.17 | 1,114.03 1,109.83 | 96.14 100.33 | 12.587 12.061 | | |
| 7,800.00 | 5,486.98 | 7,465.80 | 5,512.24 | 54.26 | 50.53 | -91.17 | -1,331.59 | 1,467.44 | 1,210.17 | 1,105.60 | 100.55 | 11.574 | | |
| 7,900.00 | 5,486.35 | 7,565.80 | 5,510.63 | 56.38 | 52.66 | -91.15 | -1,402.30 | 1,538.15 | 1,210.17 | 1,101.34 | 104.30 | 11.121 | | |
| 8,000.00 | 5,485.72 | 7,665.80 | 5,509.83 | 58.52 | 54.81 | -91.14 | -1,473.00 | 1,608.86 | 1,210.16 | 1,097.06 | 113.10 | 10.699 | | |
| -, | -, | ., | -, | | | | ., | ., | ., | ., | | | | |
| 8,100.00 | 5,485.09 | 7,765.80 | 5,509.03 | 60.67 | 56.96 | -91.13 | -1,543.71 | 1,679.57 | 1,210.16 | 1,092.74 | 117.41 | 10.307 | | |
| 8,200.00 | 5,484.46 | 7,865.80 | 5,508.23 | 62.83 | 59.13 | -91.13 | -1,614.42 | 1,750.28 | 1,210.15 | 1,088.41 | 121.75 | 9.940 | | |
| 8,300.00 | 5,483.83 | 7,965.80 | 5,507.43 | 65.01 | 61.31 | -91.12 | -1,685.13 | 1,820.99 | 1,210.15 | 1,084.05 | 126.10 | 9.597 | | |
| 8,400.00 | 5,483.20 | 8,065.80 | 5,506.63 | 67.19 | 63.49 | -91.11 | -1,755.84 | 1,891.70 | 1,210.15 | 1,079.68 | 130.47 | 9.276 | | |
| 8,500.00 | 5,482.57 | 8,165.80 | 5,505.83 | 69.37 | 65.69 | -91.10 | -1,826.54 | 1,962.41 | 1,210.15 | 1,075.30 | 134.85 | 8.974 | | |
| 8,600.00 | 5,481.94 | 8,265.80 | 5,505.02 | 71.57 | 67.89 | -91.09 | -1,897.25 | 2,033.11 | 1,210.14 | 1,070.89 | 139.25 | 8.690 | | |
| 8,700.00 | 5,481.31 | 8,365.80 | 5,505.02 | 73.77 | 70.10 | -91.09 -91.08 | -1,967.96 | 2,033.11 | 1,210.14 | 1,070.69 | 143.66 | 8.423 | | |
| 8,800.00 | 5,480.68 | 8,465.80 | 5,503.42 | 75.77 | 72.31 | -91.08 | -2,038.67 | 2,174.53 | 1,210.14 | 1,062.05 | 148.09 | 8.172 | | |
| 8,900.00 | 5,480.05 | 8,565.80 | 5,502.62 | 78.19 | 74.53 | -91.07 | -2,109.37 | 2,245.24 | 1,210.14 | 1,057.61 | 152.52 | 7.934 | | |
| 9,000.00 | 5,479.42 | 8,665.80 | 5,501.82 | 80.41 | 76.76 | -91.06 | -2,180.08 | 2,315.95 | 1,210.13 | 1,053.17 | 156.97 | 7.709 | | |
| | | | | | | | | | | | | | | |
| 9,100.00 | 5,478.79 | 8,765.80 | 5,501.02 | 82.63 | 78.99 | -91.05 | -2,250.79 | 2,386.66 | 1,210.13 | 1,048.71 | 161.42 | 7.497 | | |
| 9,200.00 | 5,478.16 | 8,865.80 | 5,500.21 | 84.86 | 81.22 | -91.04 | -2,321.50 | 2,457.37 | 1,210.13 | 1,044.24 | 165.88 | 7.295 | | |
| 9,300.00 | 5,477.53 | 8,965.80 | 5,499.41 | 87.09 | 83.46 | -91.04 | -2,392.21 | 2,528.08 | 1,210.13 | 1,039.77 | 170.35 | 7.104 | | |
| 9,400.00 | 5,476.90 | 9,065.80 | 5,498.61 | 89.32 | 85.70 | -91.03 | -2,462.91 | 2,598.78 | 1,210.12 | 1,035.29 | 174.83 | 6.922 | | |
| 9,500.00 | 5,476.27 | 9,165.80 | 5,497.81 | 91.56 | 87.95 | -91.02 | -2,533.62 | 2,669.49 | 1,210.12 | 1,030.81 | 179.32 | 6.749 | | |
| 9,600.00 | 5,475.64 | 9,265.80 | 5,497.01 | 93.80 | 90.19 | -91.01 | -2,604.33 | 2,740.20 | 1,210.12 | 1,026.31 | 183.81 | 6.584 | | |
| 9,700.00 | 5,475.00 | 9,365.80 | 5,496.21 | 96.04 | 92.44 | -91.00 | -2,675.04 | 2,810.91 | 1,210.12 | 1,020.31 | 188.30 | 6.426 | | |
| 9,800.00 | 5,474.37 | 9,465.80 | 5,495.41 | 98.29 | 94.70 | -91.00 | -2,745.74 | 2,881.62 | 1,210.12 | 1,021.01 | 192.80 | 6.276 | | |
| 9,900.00 | 5,473.74 | 9,565.80 | 5,494.60 | 100.54 | 96.95 | -90.99 | -2,816.45 | 2,952.33 | 1,210.11 | 1,012.80 | 197.31 | 6.133 | | |
| 10,000.00 | 5,473.11 | 9,665.80 | 5,493.80 | 102.79 | 99.21 | -90.98 | -2,887.16 | 3,023.04 | 1,210.11 | 1,008.29 | 201.82 | 5.996 | | |
| | | | | | | | | | | | | | | |
| 10,100.00 | 5,472.48 | 9,765.80 | 5,493.00 | 105.04 | 101.47 | -90.97 | -2,957.87 | 3,093.75 | 1,210.11 | 1,003.77 | 206.34 | 5.865 | | |
| | | | CC Min | | | | | | | - FC | | | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Offset TVD Reference:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Offset Datum

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at Database: DT_Jan1924v17

| urvey Prog | ram: 0-N | ИWD | | | | | | | | Rule Assi | gned: | | Offset Well Error: | 0.00 1 |
|-------------------|-------------------|-------------------|-------------------|-----------|------------|----------------------|---------------|------------|--------------------|---------------------|-----------------------|----------------------|--------------------|--------|
| Refe | rence | Off | | | laior Axis | | Offset Wellbe | ore Centre | | tance | _ | | | |
| 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) | | | |
| 10,200.00 | 5,471.85 | 9,865.80 | 5,492.20 | 107.30 | 103.73 | -90.96 | -3,028.58 | 3,164.46 | 1,210.11 | 999.25 | 210.86 | 5.739 | | |
| 10,300.00 | 5,471.22 | 9,965.80 | 5,491.40 | 109.56 | 105.99 | -90.96 | -3,099.28 | 3,235.16 | 1,210.10 | 994.72 | 215.38 | 5.618 | | |
| 10,400.00 | 5,470.59 | 10,065.80 | 5,490.60 | 111.82 | 108.26 | -90.95 | -3,169.99 | 3,305.87 | 1,210.10 | 990.20 | 219.91 | 5.503 | | |
| 10,500.00 | 5,469.96 | 10,165.80 | 5,489.80 | 114.08 | 110.53 | -90.94 | -3,240.70 | 3,376.58 | 1,210.10 | 985.66 | 224.44 | 5.392 | | |
| 10,600.00 | 5,469.33 | 10,265.80 | 5,488.99 | 116.34 | 112.79 | -90.93 | -3,311.41 | 3,447.29 | 1,210.10 | 981.13 | 228.97 | 5.285 | | |
| 10,700.00 | 5,468.70 | 10,365.80 | 5,488.19 | 118.61 | 115.06 | -90.92 | -3,382.11 | 3,518.00 | 1,210.09 | 976.59 | 233.51 | 5.182 | | |
| 10,800.00 | 5,468.07 | 10,465.80 | 5,487.39 | 120.87 | 117.34 | -90.91 | -3,452.82 | 3,588.71 | 1,210.09 | 972.05 | 238.04 | 5.083 | | |
| 10,900.00 | 5,467.44 | 10,565.80 | 5,486.59 | 123.14 | 119.61 | -90.91 | -3,523.53 | 3,659.42 | 1,210.09 | 967.51 | 242.59 | 4.988 | | |
| 11,000.00 | 5,466.81 | 10,665.80 | 5,485.79 | 125.41 | 121.88 | -90.90 | -3,594.24 | 3,730.13 | 1,210.09 | 962.96 | 247.13 | 4.897 | | |
| 11,100.00 | 5,466.18 | 10,765.80 | 5,484.99 | 127.68 | 124.16 | -90.89 | -3,664.95 | 3,800.83 | 1,210.09 | 958.41 | 251.68 | 4.808 | | |
| 11,200.00 | 5,465.55 | 10,865.80 | 5,484.19 | 129.95 | 126.43 | -90.88 | -3,735.65 | 3,871.54 | 1,210.08 | 953.86 | 256.22 | 4.723 | | |
| 11,300.00 | 5,464.92 | 10,965.80 | 5,483.38 | 132.22 | 128.71 | -90.87 | -3,806.36 | 3,942.25 | 1,210.08 | 949.31 | 260.77 | 4.640 | | |
| 11,400.00 | 5,464.29 | 11,065.80 | 5,482.58 | 134.50 | 130.99 | -90.87 | -3,877.07 | 4,012.96 | 1,210.08 | 944.75 | 265.33 | 4.561 | | |
| 11,500.00 | 5,463.66 | 11,165.80 | 5,481.78 | 136.77 | 133.27 | -90.86 | -3,947.78 | 4,083.67 | 1,210.08 | 940.20 | 269.88 | 4.484 | | |
| 11,600.00 | 5,463.03 | 11,265.80 | 5,480.98 | 139.05 | 135.55 | -90.85 | -4,018.48 | 4,154.38 | 1,210.08 | 935.64 | 274.44 | 4.409 | | |
| 11,700.00 | 5,462.40 | 11,365.80 | 5,480.18 | 141.32 | 137.83 | -90.84 | -4,089.19 | 4,225.09 | 1,210.08 | 931.08 | 279.00 | 4.337 | | |
| 11,800.00 | 5,461.77 | 11,465.80 | 5,479.38 | 143.60 | 140.11 | -90.83 | -4,159.90 | 4,295.80 | 1,210.07 | 926.52 | 283.56 | 4.267 | | |
| 11,900.00 | 5,461.14 | 11,565.80 | 5,478.58 | 145.88 | 142.39 | -90.83 | -4,230.61 | 4,366.51 | 1,210.07 | 921.95 | 288.12 | 4.200 | | |
| 12,000.00 | 5,460.51 | 11,665.80 | 5,477.77 | 148.16 | 144.67 | -90.82 | -4,301.32 | 4,437.21 | 1,210.07 | 917.39 | 292.68 | 4.134 | | |
| 12,100.00 | 5,459.88 | 11,765.80 | 5,476.97 | 150.44 | 146.96 | -90.81 | -4,372.02 | 4,507.92 | 1,210.07 | 912.82 | 297.24 | 4.071 | | |
| 12,200.00 | 5,459.25 | 11,865.80 | 5,476.17 | 152.72 | 149.24 | -90.80 | -4,442.73 | 4,578.63 | 1,210.07 | 908.26 | 301.81 | 4.009 | | |
| 12,300.00 | 5,458.62 | 11,965.80 | 5,475.37 | 155.00 | 151.52 | -90.79 | -4,513.44 | 4,649.34 | 1,210.06 | 903.69 | 306.38 | 3.950 | | |
| 12,400.00 | 5,457.99 | 12,065.80 | 5,474.57 | 157.28 | 153.81 | -90.79 | -4,584.15 | 4,720.05 | 1,210.06 | 899.12 | 310.95 | 3.892 | | |
| 12,500.00 | 5,457.35 | 12,165.80 | 5,473.77 | 159.57 | 156.10 | -90.78 | -4,654.85 | 4,790.76 | 1,210.06 | 894.55 | 315.51 | 3.835 | | |
| 12,600.00 | 5,456.72 | 12,265.80 | 5,472.96 | 161.85 | 158.38 | -90.77 | -4,725.56 | 4,861.47 | 1,210.06 | 889.97 | 320.09 | 3.780 | | |
| 12,700.00 | 5,456.09 | 12,365.80 | 5,472.16 | 164.13 | 160.67 | -90.76 | -4,796.27 | 4,932.18 | 1,210.06 | 885.40 | 324.66 | 3.727 | | |
| 12,800.00 | 5,455.46 | 12,465.80 | 5,471.36 | 166.42 | 162.96 | -90.75 | -4,866.98 | 5,002.89 | 1,210.06 | 880.83 | 329.23 | 3.675 | | |
| 12,900.00 | 5,454.83 | 12,565.80 | 5,470.56 | 168.70 | 165.24 | -90.74 | -4,937.69 | 5,073.59 | 1,210.05 | 876.25 | 333.80 | 3.625 | | |
| 13,000.00 | 5,454.20 | 12,665.80 | 5,469.76 | 170.99 | 167.53 | -90.74 | -5,008.39 | 5,144.30 | 1,210.05 | 871.68 | 338.38 | 3.576 | | |
| 13,100.00 | 5,453.57 | 12,765.80 | 5,468.96 | 173.27 | 169.82 | -90.73 | -5,079.10 | 5,215.01 | 1,210.05 | 867.10 | 342.95 | 3.528 | | |
| 13,200.00 | 5,452.94 | 12,865.79 | 5,468.16 | 175.56 | 172.11 | -90.72 | -5,149.81 | 5,285.72 | 1,210.05 | 862.52 | 347.53 | 3.482 | | |
| 13,300.00 | 5,452.31 | 12,965.79 | 5,467.35 | 177.85 | 174.40 | -90.71 | -5,220.52 | 5,356.43 | 1,210.05 | 857.94 | 352.11 | 3.437 | | |
| 13,400.00 | 5,451.68 | 13,065.79 | 5,466.55 | 180.13 | 176.69 | -90.70 | -5,291.22 | 5,427.14 | 1,210.05 | 853.36 | 356.68 | 3.392 | | |
| 13,500.00 | 5,451.05 | 13,165.79 | 5,465.75 | 182.42 | 178.98 | -90.70 | -5,361.93 | 5,497.85 | 1,210.05 | 848.78 | 361.26 | 3.349 | | |
| 13.508.07 | 5,451.00 | 13,173.87 | 5,465.69 | 182.61 | 179.16 | -90.70 | -5.367.64 | 5,503.55 | 1,210.05 | 848.41 | 361.63 | 3.346 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Output errors are at

Database:

Offset TVD Reference:

Well Haynes Canyon Unit 428H

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Minimum Curvature 2.00 sigma

DT_Jan1924v17 Offset Datum

| Offset De | sign: Ha | ynes Cany | on Unit (4 | 28,430,440 | & 442) - | Haynes Ca | nyon Unit 440H | - Orignal H | lole - rev1 | | | | Offset Site Error: | 0.00 ft |
|----------------------|----------------------|----------------------|----------------------|----------------|----------------|--------------------|--------------------|--------------------|------------------|------------------|--------------------|------------------|--------------------|---------|
| Survey Progr | | MWD | fset | Sami I | Major Axis | | Offset Wellbe | oro Contro | Diet | Rule Assi | gned: | | Offset Well Error: | 0.00 ft |
| Measured | rence Vertical | Measured | Vertical | Reference | Offset | Highside | | | Between | Between | Minimum | Separation | Warning | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | Toolface (°) | +N/-S (ft) | +E/-W (ft) | Centres (ft) | Ellipses (ft) | Separation (ft) | Factor | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -73.00 | 11.77 | -38.49 | 40.25 | (11) | (11) | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -73.00 | 11.77 | -38.49 | 40.25 | 39.71 | 0.54 | 74.848 | | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -73.00 | 11.77 | -38.49 | 40.25 | 38.99 | 1.25 | 32.078 | | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -73.00 | 11.77 | -38.49 | 40.25 | 38.27 | 1.97 | 20.413 | | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | -73.00 | 11.77 | -38.49 | 40.25 | 37.56 | 2.69 | 14.970 | | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | -73.00 | 11.77 | -38.49 | 40.25 | 36.84 | 3.41 | 11.818 | | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.06 | 2.06 | -73.00 | 11.77 | -38.49 | 40.25 | 36.12 | 4.12 | 9.763 | | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.42 | 2.42 | -73.00 | 11.77 | -38.49 | 40.25 | 35.41 | 4.84 | 8.316 | | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.78 | -73.00 | 11.77 | -38.49 | 40.25 | 34.69 | 5.56 | 7.243 | | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.14 | -73.00 | 11.77 | -38.49 | 40.25 | 33.97 | 6.27 | 6.416 | | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.50 | -73.00 | 11.77 | -38.49 | 40.25 | 33.26 | 6.99 | 5.758 | | |
| 1,100.00 | 1,100.00 | 1,099.53 | 1,099.48 | 3.85 | 3.84 | -76.58 | 9.47 | -39.68 | 40.80 | 33.11 | 7.69 | 5.307 | | |
| 1,200.00 | 1,200.00 | 1,198.52 | 1,198.16 | 4.21 | 4.17 | -86.52 | 2.63 | -43.25 | 43.37 | 35.00 | 8.37 | 5.183 | | |
| 1,300.00 | 1,300.00 | 1,296.45 | 1,295.26 | 4.57 | 4.50 | -99.93 | -8.59 | -49.10 | 50.07 | 41.04 | 9.03 | 5.544 | | |
| 1,400.00 | 1,399.95 | 1,393.22 | 1,390.45 | 4.92 | 4.85 | 5.19 | -24.00 | -57.13 | 60.11 | 50.47 | 9.64 | 6.233 | | |
| 1,500.00 | 1,499.63 | 1,488.99 | 1,483.67 | 5.26 | 5.23 | -5.72 | -43.44 | -67.26 | 71.46 | 61.26 | 10.20 | 7.005 | | |
| 1 600 00 | 1 500 77 | 1 500 07 | 4 574 00 | F.00 | F 00 | 45.00 | 00.74 | 70.00 | 04.00 | 70.07 | 40.70 | 7.074 | | |
| 1,600.00 1,700.00 | 1,598.77 1,697.08 | 1,583.67 1,677.19 | 1,574.63 1,663.08 | 5.60 5.97 | 5.63 6.08 | -15.26 -23.62 | -66.71 -93.59 | -79.38 -93.39 | 84.39 99.19 | 73.67 87.97 | 10.72 11.22 | 7.874 8.842 | | |
| 1,800.00 | 1,794.31 | 1,774.13 | 1,753.75 | 6.36 | 6.58 | -23.62 | -124.02 | -109.24 | 114.41 | 102.53 | 11.88 | 9.627 | | |
| 1,900.00 | 1,890.18 | 1,872.06 | 1,845.32 | 6.79 | 7.12 | -38.41 | -154.81 | -125.29 | 127.27 | 114.61 | 12.65 | 10.058 | | |
| 2,000.00 | 1,984.43 | 1,969.92 | 1,936.82 | 7.27 | 7.68 | -45.62 | -185.58 | -141.32 | 138.19 | 124.66 | 13.53 | 10.215 | | |
| | | | | | | | | | | | | | | |
| 2,099.91 | 2,076.73 | 2,067.36 | 2,027.94 | 7.80 | 8.25 | -53.19 | -216.22 | -157.28 | 147.96 | 133.41 | 14.55 | 10.166 | | |
| 2,200.00 | 2,168.17 | 2,164.73 | 2,118.98 | 8.39 | 8.84 | -60.71 | -246.83 | -173.24 | 158.92 | 143.19 | 15.74 | 10.098 | | |
| 2,300.00 | 2,259.52 | 2,262.01 | 2,209.94 | 9.01 | 9.44 | -67.20 | -277.42 | -189.17 | 172.31 | 155.29 | 17.02 | 10.124 | | |
| 2,400.00 | 2,350.88 | 2,359.29 | 2,300.90 | 9.66 | 10.04 | -72.72 | -308.01 | -205.11 | 187.61 | 169.25 | 18.36 | 10.217 | | |
| 2,500.00 | 2,442.24 | 2,456.57 | 2,391.86 | 10.33 | 10.66 | -77.40 | -338.59 | -221.05 | 204.40 | 184.66 | 19.74 | 10.356 | | |
| 2,600.00 | 2,533.59 | 2,553.85 | 2,482.82 | 11.02 | 11.28 | -81.36 | -369.18 | -236.99 | 222.34 | 201.21 | 21.13 | 10.523 | | |
| 2,700.00 | 2,624.95 | 2,651.13 | 2,573.78 | 11.72 | 11.91 | -84.72 | -399.77 | -252.93 | 241.17 | 218.64 | 22.53 | 10.705 | | |
| 2,800.00 | 2,716.30 | 2,748.41 | 2,664.74 | 12.44 | 12.54 | -87.61 | -430.35 | -268.86 | 260.70 | 236.77 | 23.93 | 10.895 | | |
| 2,900.00 | 2,807.66 | 2,845.69 | 2,755.70 | 13.16 | 13.18 | -90.08 | -460.94 | -284.80 | 280.78 | 255.46 | 25.33 | 11.086 | | |
| 3,000.00 | 2,899.02 | 2,942.96 | 2,846.66 | 13.90 | 13.82 | -92.23 | -491.53 | -300.74 | 301.31 | 274.58 | 26.73 | 11.274 | | |
| 3,100.00 | 2,990.37 | 3,040.24 | 2,937.62 | 14.64 | 14.46 | -94.11 | -522.11 | -316.68 | 322.20 | 294.07 | 28.12 | 11.457 | | |
| 3,200.00 | 3,081.73 | 3,137.52 | 3,028.58 | 15.39 | 15.10 | -95.76 | -552.70 | -332.61 | 343.37 | 313.86 | 29.52 | 11.634 | | |
| 3,300.00 | 3,173.09 | 3,234.80 | 3,119.54 | 16.14 | 15.75 | -97.21 | -583.29 | -348.55 | 364.79 | 333.89 | 30.91 | 11.803 | | |
| 3,400.00 | 3,264.44 | 3,332.08 | 3,210.50 | 16.90 | 16.40 | -98.51 | -613.87 | -364.49 | 386.41 | 354.12 | 32.30 | 11.964 | | |
| 3,500.00 | 3,355.80 | 3,429.36 | 3,301.46 | 17.66 | 17.05 | -99.67 | -644.46 | -380.43 | 408.21 | 374.52 | 33.69 | 12.117 | | |
| 0.055.55 | 0.4::- | 0.5 | 0.000 | | , | | | 000 | 400.00 | 00 | | 10.777 | | |
| 3,600.00 | 3,447.16 | 3,526.64 3,623.92 | 3,392.42 | 18.43 | 17.70 | -100.71 | -675.05 | -396.37 | 430.14 | 395.07 | 35.08 | 12.263 | | |
| 3,700.00 3,800.00 | 3,538.51 3,629.87 | 3,623.92 | 3,483.38 3,574.34 | 19.20 19.97 | 18.36 19.01 | -101.65 -102.50 | -705.63 -736.22 | -412.30 -428.24 | 452.20 474.36 | 415.74 436.51 | 36.46 37.85 | 12.402 12.533 | | |
| 3,900.00 | 3,721.23 | 3,721.20 | 3,665.30 | 20.74 | 19.01 | -102.50 | -736.22 -766.81 | -428.24 -444.18 | 474.36 | 457.38 | 37.85 | 12.533 | | |
| 4,000.00 | 3,812.58 | 3,915.76 | 3,756.26 | 21.52 | 20.33 | -103.26 | -797.39 | -460.12 | 518.95 | 478.33 | 40.62 | 12.776 | | |
| | ., | ., | -, | | | | | | | | | | | |
| 4,100.00 | 3,903.94 | 4,013.04 | 3,847.22 | 22.30 | 20.99 | -104.65 | -827.98 | -476.05 | 541.36 | 499.35 | 42.01 | 12.888 | | |
| 4,200.00 | 3,995.51 | 4,110.37 | 3,938.23 | 23.07 | 21.65 | -105.49 | -858.58 | -492.00 | 563.69 | 520.30 | 43.38 | 12.993 | | |
| 4,300.00 | 4,088.76 | 4,208.09 | 4,029.60 | 23.78 | 22.31 | -106.19 | -889.31 | -508.01 | 584.88 | 540.17 | 44.71 | 13.082 | | |
| 4,400.00 | 4,183.77 | 4,313.61 | 4,128.88 | 24.42 | 23.00 | -106.48 | -920.99 | -524.52 | 604.19 | 558.13 | 46.06 | 13.118 | | |
| 4,500.00 | 4,280.28 | 4,422.42 | 4,233.11 | 24.99 | 23.64 | -106.70 | -948.64 | -538.93 | 620.47 | 573.16 | 47.31 | 13.116 | | |
| 4,600.00 | 4,378.03 | 4,532.16 | 4,339.86 | 25.48 | 24.22 | -106.88 | -971.14 | -550.65 | 633.62 | 585.20 | 48.41 | 13.088 | | |
| 4,700.00 | 4,476.75 | 4,642.65 | 4,448.63 | 25.90 | 24.72 | -107.01 | -988.28 | -559.58 | 643.56 | 594.19 | 49.37 | 13.035 | | |
| 4,800.00 | 4,576.16 | 4,753.68 | 4,558.88 | 26.26 | 25.14 | -107.11 | -999.84 | -565.61 | 650.26 | 600.08 | 50.18 | 12.959 | | |
| 4,900.00 | 4,676.00 | 4,865.04 | 4,670.03 | 26.55 | 25.48 | -107.17 | -1,005.72 | -568.67 | 653.67 | 602.84 | 50.83 | 12.860 | | |
| 5,000.00 | 4,775.99 | 4,971.01 | 4,775.99 | 26.78 | 25.74 | 135.02 | -1,006.50 | -569.08 | 654.14 | 602.81 | 51.33 | 12.745 | | |
| E 100 00 | 4 075 00 | 6 100 00 | E E04 20 | 27.00 | 26.05 | 144.00 | E4E 9E | 1 020 22 | 605.00 | 60E 77 | 40.54 | 22.055 | | |
| 5,100.00 | 4,875.99 | 6,102.28 | 5,501.26 | 27.00 | 26.85 | 141.99 | -545.35 | -1,030.22 | 625.28 | 605.77 | 19.51 | 32.055 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error: 0.00 ft

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT_Jan1924v17
Offset TVD Reference: Offset Datum

| Survey Prog | ram: 0-N | ИWD | | | | | | | | Rule Assi | gned: | | Offset Well Error: | 0.00 f |
|------------------|-------------------|-----------------|-----------------|-----------|----------------------|----------|--------------|------------|-----------------|---------------------|------------|------------|-----------------------|--------|
| Refe Measured | rence Vertical | Off Measured | set Vertical | | lajor Axis Offset | Highside | Offset Wellb | ore Centre | Dist Between | tance | Minimum | Separation | Warning | |
| Depth | Depth | Depth | Depth | Reference | Offset | Toolface | +N/-S | +E/-W | Centres | Between Ellipses | Separation | Factor | vvarning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 5,200.00 | 4,975.92 | 6,100.33 | 5,501.26 | 27.21 | 26.85 | 179.69 | -546.73 | -1,028.84 | 525.34 | 505.75 | 19.58 | 26.827 | | |
| 5,300.00 | 5,074.25 | 6,083.14 | 5,501.20 | 27.38 | 26.79 | 179.87 | -558.89 | -1,016.69 | 426.95 | 407.40 | 19.56 | 21.830 | | |
| 5,400.00 | 5,168.04 | 6,049.12 | 5,501.09 | 27.51 | 26.71 | 179.90 | -582.94 | -992.64 | 333.05 | 313.63 | 19.43 | 17.145 | | |
| 5,500.00 | 5,254.45 | 5,982.81 | 5,499.59 | 27.61 | 26.60 | 179.89 | -629.80 | -945.77 | 245.75 | 226.29 | 19.46 | 12.631 | | |
| 5,600.00 | 5,330.86 | 5,900.79 | 5,488.01 | 27.66 | 26.55 | 179.84 | -687.17 | -888.41 | 160.80 | 140.16 | 20.64 | 7.792 | | |
| 5,700.00 | 5,394.93 | 5,829.62 | 5,468.66 | 27.69 | 26.54 | 179.69 | -735.56 | -840.01 | 78.14 | 56.93 | 21.22 | 3.683 | | |
| 5,784.27 | 5,437.90 | 5,774.40 | 5,447.89 | 27.68 | 26.54 | 177.95 | -771.73 | -803.85 | 11.01 | -7.33 | 18.34 | 0.600 Lev | vel 3<2.00 | |
| 5,800.00 | 5,444.72 | 5,764.43 | 5,443.61 | 27.68 | 26.54 | 17.50 | -778.10 | -797.48 | 1.26 | -16.95 | 18.20 | 0.069 Lev | el 3<2.00, CC, ES, SF | |
| 5,900.00 | 5,478.73 | 5,700.00 | 5,412.31 | 27.65 | 26.56 | 0.26 | -817.89 | -757.69 | 76.60 | 51.62 | 24.98 | 3.066 | | |
| 6,000.00 | 5,495.91 | 5,643.63 | 5,379.89 | 27.60 | 26.57 | 0.13 | -850.48 | -725.10 | 147.12 | 114.77 | 32.35 | 4.548 | | |
| 6,100.00 | 5,497.70 | 5,586.95 | 5,342.88 | 27.54 | 26.57 | 0.09 | -880.82 | -694.76 | 213.83 | 176.67 | 37.16 | 5.754 | | |
| 6,200.00 | 5,497.07 | 5,538.27 | 5,307.85 | 27.50 | 26.57 | 0.07 | -904.70 | -670.88 | 285.45 | 244.73 | 40.72 | 7.010 | | |
| 6,300.00 | 5,496.44 | 5,500.00 | 5,278.37 | 27.51 | 26.56 | 0.06 | -921.95 | -653.63 | 362.30 | 318.75 | 43.55 | 8.319 | | |
| 6,400.00 | 5,495.81 | 5,462.77 | 5,248.19 | 27.87 | 26.55 | 0.06 | -937.36 | -638.22 | 443.16 | 397.89 | 45.28 | 9.788 | | |
| 6,500.00 | 5,495.18 | 5,433.38 | 5,223.41 | 29.16 | 26.53 | 0.05 | -948.52 | -627.06 | 527.19 | 480.44 | 46.75 | 11.276 | | |
| 6,600.00 | 5,494.55 | 5,400.00 | 5,194.32 | 30.76 | 26.51 | 0.05 | -960.09 | -615.48 | 613.81 | 566.23 | 47.58 | 12.899 | | |
| 6,700.00 | 5,493.92 | 5,400.00 | 5,194.32 | 32.47 | 26.51 | 0.05 | -960.09 | -615.48 | 702.47 | 653.27 | 49.19 | 14.280 | | |
| 6,800.00 | 5,493.29 | 5,367.66 | 5,165.27 | 34.25 | 26.47 | 0.04 | -970.14 | -605.43 | 792.25 | 742.74 | 49.51 | 16.002 | | |
| 6,900.00 | 5,492.66 | 5,350.00 | 5,149.09 | 36.09 | 26.46 | 0.04 | -975.14 | -600.44 | 883.62 | 833.56 | 50.06 | 17.650 | | |
| 7,000.00 | 5,492.02 | 5,350.00 | 5,149.09 | 37.98 | 26.46 | 0.04 | -975.14 | -600.44 | 976.30 | 925.51 | 50.79 | 19.221 | | |
| 7,100.00 | 5,491.39 | 5,323.68 | 5,124.58 | 39.92 | 26.42 | 0.04 | -981.92 | -593.66 | 1,069.38 | 1,018.42 | 50.95 | 20.987 | | |
| 7,200.00 | 5,490.76 | 5,300.00 | 5,102.18 | 41.89 | 26.40 | 0.04 | -987.34 | -588.24 | 1,163.63 | 1,112.51 | 51.12 | 22.762 | | |
| 7,300.00 | 5,490.13 | 5,300.00 | 5,102.18 | 43.89 | 26.40 | 0.04 | -987.34 | -588.24 | 1,258.14 | 1,206.60 | 51.54 | 24.410 | | |
| 7,400.00 | 5,489.50 | 5,300.00 | 5,102.18 | 45.92 | 26.40 | 0.04 | -987.34 | -588.24 | 1,353.44 | 1,301.56 | 51.88 | 26.089 | | |
| 7,500.00 | 5,488.87 | 5,300.00 | 5,102.18 | 47.98 | 26.40 | 0.04 | -987.34 | -588.24 | 1,449.37 | 1,397.22 | 52.15 | 27.793 | | |
| 7,600.00 | 5,488.24 | 5,276.43 | 5,079.58 | 50.05 | 26.36 | 0.03 | -992.07 | -583.50 | 1,545.15 | 1,492.96 | 52.19 | 29.609 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference:

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft North Reference: Grid Minimum Curvature

Well Haynes Canyon Unit 428H

Survey Calculation Method:

2.00 sigma Output errors are at Database: DT_Jan1924v17 Offset TVD Reference: Offset Datum

| | | | | | | | | | | | | | Offset Site Error: | 0.00 f |
|---------------|--------------------|---------------|----------------------|-----------|------------|-----------------|------------------|----------------|-----------------|------------------|--------------------|------------------|-----------------------|---------|
| urvey Prog | |)-MWD | set | Comi I | lajor Axis | | Offset Wellbo | oro Contro | Diet | Rule Assi | gned: | | Offset Well Error: | 0.00 ff |
| Measured | erence Vertical | Measured | Vertical | Reference | Offset | Highside | | | Between | ance Between | Minimum | Separation | Warning | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | Toolface (°) | +N/-S (ft) | +E/-W (ft) | Centres (ft) | Ellipses (ft) | Separation (ft) | Factor | | |
| 0.00 | 0.00 | | 0.00 | 0.00 | 0.00 | -73.38 | 5.70 | -19.10 | 19.93 | (11) | (1.1) | | | |
| 100.00 | 100.00 | | 100.00 | 0.27 | 0.13 | -73.38 | 5.70 | -19.10 | 19.93 | 19.53 | 0.40 | 49.422 | | |
| 200.00 | 200.00 | | 200.00 | 0.63 | 0.49 | -73.38 | 5.70 | -19.10 | 19.93 | 18.81 | 1.12 | 17.792 | | |
| 300.00 | 300.00 | | 300.00 | 0.99 | 0.85 | -73.38 | 5.70 | -19.10 | 19.93 | 18.09 | 1.84 | 10.849 | | |
| 400.00 | 400.00 | | 400.00 | 1.34 | 1.21 | -73.38 | 5.70 | -19.10 | 19.93 | 17.38 | 2.55 | 7.803 | | |
| 500.00 | 500.00 | | 500.00 | 1.70 | 1.57 | -73.38 | 5.70 | -19.10 | 19.93 | 16.66 | 3.27 | 6.093 | | |
| | | | | | | | | | | | | | | |
| 600.00 | 600.00 | 600.00 | 600.00 | 2.06 | 1.93 | -73.38 | 5.70 | -19.10 | 19.93 | 15.94 | 3.99 | 4.998 | | |
| 700.00 | 700.00 | 700.00 | 700.00 | 2.42 | 2.29 | -73.38 | 5.70 | -19.10 | 19.93 | 15.23 | 4.70 | 4.236 | | |
| 800.00 | 800.00 | 800.00 | 800.00 | 2.78 | 2.64 | -73.38 | 5.70 | -19.10 | 19.93 | 14.51 | 5.42 | 3.676 | | |
| 900.00 | 900.00 | 900.00 | 900.00 | 3.14 | 3.00 | -73.38 | 5.70 | -19.10 | 19.93 | 13.79 | 6.14 | 3.247 | | |
| 1,000.00 | 1,000.00 | 1,000.00 | 1,000.00 | 3.50 | 3.36 | -73.38 | 5.70 | -19.10 | 19.93 | 13.08 | 6.86 | 2.907 | | |
| | | | | | | | | | | | | | | |
| 1,100.00 | 1,100.00 | | 1,100.00 | 3.85 | 3.72 | -73.38 | 5.70 | -19.10 | 19.93 | 12.36 | 7.57 | 2.632 | | |
| 1,200.00 | 1,200.00 | | 1,200.00 | 4.21 | 4.08 | -73.38 | 5.70 | -19.10 | 19.93 | 11.64 | 8.29 | 2.404 | | |
| 1,300.00 | 1,300.00 | | 1,300.00 | 4.57 | 4.44 | -73.38 | 5.70 | -19.10 | 19.93 | 10.92 | 9.01 | 2.213 | | |
| 1,400.00 | 1,399.95 | | 1,399.95 | 4.92 | 4.79 | 50.25 | 5.70 | -19.10 | 18.15 | 8.44 | 9.71 | 1.870 Leve | | |
| 1,500.00 | 1,499.63 | 1,500.30 | 1,500.25 | 5.26 | 5.14 | 76.89 | 4.02 | -17.07 | 11.86 | 1.49 | 10.37 | 1.144 Leve | el 3<2.00 | |
| 4.547.00 | 4 5 40 | 451700 | 4 540 00 | | | 44.4.00 | 2.22 | 4474 | o == | 4.00 | 40.00 | 0.000 ! | 10.00.00.00 | |
| 1,547.06 | 1,546.37 | | 1,546.88 | 5.42 | 5.30 | 114.22 | 2.09 | -14.74 | 9.57 | -1.09 | 10.66 | | el 3<2.00, CC, ES, SF | |
| 1,600.00 | 1,598.77 | | 1,598.66 | 5.60 | 5.47 | 161.47 | -0.91 | -11.12 | 13.96 | 2.89 | 11.07 | 1.262 Leve | el 3<2.00 | |
| 1,700.00 | 1,697.08 | | 1,693.90 | 5.97 | 5.80 | -168.53 | -8.81 | -1.58 | 37.05 | 25.36 | 11.69 | 3.169 | | |
| 1,800.00 | 1,794.31 | | 1,785.26 | 6.36 | 6.14 | -160.05 | -19.30 | 11.09 | 70.12 | 57.81 | 12.31 | 5.697 | | |
| 1,900.00 | 1,890.18 | 1,879.86 | 1,875.47 | 6.79 | 6.48 | -157.11 | -30.66 | 24.80 | 109.26 | 96.28 | 12.98 | 8.418 | | |
| 2,000.00 | 1,984.43 | 1,969.85 | 1 062 76 | 7.27 | 6.83 | 156.04 | -41.77 | 38.22 | 152.83 | 139.18 | 13.66 | 11.189 | | |
| | 2,076.73 | | 1,963.76 | 7.27 | | -156.24 | -41.77 -52.60 | | | | | | | |
| 2,099.91 | | | 2,049.81 2,134.85 | 8.39 | 7.18 | -156.09 | | 51.29 64.22 | 200.64 | 186.29 235.60 | 14.34 | 13.987 16.673 | | |
| 2,200.00 | 2,168.17 | | | | 7.53 | -156.68 | -63.31 | | 250.64 | | 15.03 | | | |
| 2,300.00 | 2,259.52 | | 2,219.82 | 9.01 | 7.89 | -157.07 | -74.00 | 77.13 | 300.60 | 284.88 | 15.73 | 19.114 | | |
| 2,400.00 | 2,350.88 | 2,317.45 | 2,304.79 | 9.66 | 8.26 | -157.35 | -84.70 | 90.05 | 350.58 | 334.14 | 16.43 | 21.332 | | |
| 2,500.00 | 2,442.24 | 2,404.06 | 2,389.75 | 10.33 | 8.63 | -157.57 | -95.39 | 102.96 | 400.56 | 383.40 | 17.15 | 23.350 | | |
| 2,600.00 | 2,533.59 | | 2,474.72 | 11.02 | 9.00 | -157.73 | -106.09 | 115.87 | 450.54 | 432.66 | 17.89 | 25.190 | | |
| 2,700.00 | 2,624.95 | | 2,559.69 | 11.72 | 9.38 | -157.75 | -116.79 | 128.79 | 500.53 | 481.90 | 18.63 | 26.873 | | |
| 2,800.00 | 2,716.30 | | 2,644.66 | 12.44 | 9.76 | -157.97 | -127.48 | 141.70 | 550.51 | 531.14 | 19.37 | 28.415 | | |
| 2,900.00 | 2,807.66 | | 2,729.62 | 13.16 | 10.14 | -158.06 | -138.18 | 154.61 | 600.50 | 580.37 | 20.13 | 29.831 | | |
| 2,900.00 | 2,007.00 | 2,730.46 | 2,129.02 | 13.10 | 10.14 | -136.00 | -130.10 | 154.01 | 000.50 | 300.37 | 20.13 | 29.031 | | |
| 3,000.00 | 2,899.02 | 2,837.09 | 2,814.59 | 13.90 | 10.53 | -158.13 | -148.87 | 167.53 | 650.49 | 629.60 | 20.89 | 31.135 | | |
| 3,100.00 | 2,990.37 | | 2,899.56 | 14.64 | 10.92 | -158.20 | -159.57 | 180.44 | 700.48 | 678.82 | 21.66 | 32.339 | | |
| 3,200.00 | 3,081.73 | | 2,984.52 | 15.39 | 11.31 | -158.26 | -170.26 | 193.35 | 750.47 | 728.04 | 22.43 | 33.452 | | |
| 3,300.00 | 3,173.09 | | 3,069.49 | 16.14 | 11.70 | -158.31 | -180.96 | 206.27 | 800.46 | 777.25 | 23.21 | 34.483 | | |
| 3,400.00 | 3,264.44 | | 3,154.46 | 16.90 | 12.10 | -158.35 | -191.66 | 219.18 | 850.45 | 826.46 | 24.00 | 35.441 | | |
| ., | ., | ., | ., | | | | | | | | | | | |
| 3,500.00 | 3,355.80 | 3,270.12 | 3,239.43 | 17.66 | 12.50 | -158.39 | -202.35 | 232.09 | 900.44 | 875.66 | 24.78 | 36.333 | | |
| 3,600.00 | 3,447.16 | 3,356.73 | 3,324.39 | 18.43 | 12.89 | -158.42 | -213.05 | 245.01 | 950.43 | 924.86 | 25.57 | 37.164 | | |
| 3,700.00 | 3,538.51 | 3,443.33 | 3,409.36 | 19.20 | 13.29 | -158.45 | -223.74 | 257.92 | 1,000.43 | 974.06 | 26.37 | 37.941 | | |
| 3,800.00 | 3,629.87 | | 3,494.33 | 19.97 | 13.69 | -158.48 | -234.44 | 270.83 | 1,050.42 | 1,023.25 | 27.17 | 38.668 | | |
| 3,900.00 | 3,721.23 | | 3,579.30 | 20.74 | 14.10 | -158.51 | -245.13 | 283.75 | 1,100.41 | 1,072.45 | 27.96 | 39.350 | | |
| | | | | | | | | | | | | | | |
| 4,000.00 | 3,812.58 | 3,703.15 | 3,664.26 | 21.52 | 14.50 | -158.53 | -255.83 | 296.66 | 1,150.40 | 1,121.64 | 28.77 | 39.990 | | |
| 4,100.00 | 3,903.94 | 3,789.76 | 3,749.23 | 22.30 | 14.90 | -158.55 | -266.53 | 309.57 | 1,200.40 | 1,170.82 | 29.57 | 40.592 | | |
| 4,200.00 | 3,995.51 | 3,876.60 | 3,834.43 | 23.07 | 15.31 | -158.84 | -277.25 | 322.52 | 1,249.96 | 1,219.58 | 30.38 | 41.147 | | |
| 4,300.00 | 4,088.76 | 3,965.41 | 3,921.56 | 23.78 | 15.72 | -159.32 | -288.22 | 335.77 | 1,295.89 | 1,264.70 | 31.19 | 41.553 | | |
| 4,400.00 | 4,183.77 | 4,056.31 | 4,010.74 | 24.42 | 16.15 | -159.64 | -299.44 | 349.32 | 1,337.41 | 1,305.42 | 32.00 | 41.800 | | |
| | | | | | | | | | | | | | | |
| 4,500.00 | 4,280.28 | | 4,101.73 | 24.99 | 16.58 | -159.83 | -310.90 | 363.15 | 1,374.44 | 1,341.63 | 32.80 | 41.898 | | |
| 4,600.00 | 4,378.03 | 4,243.39 | 4,194.28 | 25.48 | 17.03 | -159.89 | -322.55 | 377.21 | 1,406.88 | 1,373.27 | 33.61 | 41.861 | | |
| 4,700.00 | 4,476.75 | 4,339.06 | 4,288.14 | 25.90 | 17.48 | -159.83 | -334.36 | 391.48 | 1,434.68 | 1,400.28 | 34.40 | 41.701 | | |
| 4,800.00 | 4,576.16 | 4,435.79 | 4,383.04 | 26.26 | 17.93 | -159.66 | -346.31 | 405.90 | 1,457.79 | 1,422.60 | 35.19 | 41.429 | | |
| 4,900.00 | 4,676.00 | 4,589.78 | 4,534.63 | 26.55 | 18.63 | -159.18 | -363.48 | 426.64 | 1,475.24 | 1,438.79 | 36.45 | 40.478 | | |
| | | | | | | | | | | | | | | |
| 5,000.00 | 4,775.99 | 6,235.86 | 5,526.77 | 26.78 | 26.17 | 45.09 | 310.36 | -174.52 | 1,423.92 | 1,382.58 | 41.34 | 34.447 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Haynes Canyon Unit (428,430,440 & 442) Reference Site:

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft Grid

Well Haynes Canyon Unit 428H

Survey Calculation Method: Minimum Curvature 2.00 sigma Output errors are at Database: DT_Jan1924v17 Offset Datum Offset TVD Reference:

| Offset Des | sign: Ha | ynes Canyo | on Unit (42 | 28,430,440 | & 442) - | naynes Can | yon Unit 442H | - Original F | 101e - rev0 | | | | Offset Site Error: | 0.00 ft |
|------------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|------------------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|---------|
| Survey Program: Reference | | 0-MWD Offset | | Semi Major Axis | | | Offset Wellbore Centre | | Rule Assigned: Distance | | | | Offset Well Error: | 0.00 ft |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 5,100.00 | 4,875.99 | 6,236.12 | 5,526.77 | 27.00 | 26.18 | 45.08 | 310.54 | -174.71 | 1,373.83 | 1,331.23 | 42.59 | 32.254 | | |
| 5,200.00 | 4,975.92 | 6,234.12 | 5,526.77 | 27.21 | 26.15 | -92.25 | 309.12 | -173.29 | 1,329.40 | 1,285.64 | 43.76 | 30.380 | | |
| 5,300.00 | 5,074.25 | 6,216.87 | 5,526.72 | 27.38 | 25.92 | -95.51 | 296.93 | -161.09 | 1,291.75 | 1,247.18 | 44.57 | 28.985 | | |
| 5,400.00 | 5,168.04 | 6,182.80 | 5,526.64 | 27.51 | 25.47 | -97.12 | 272.84 | -137.00 | 1,261.93 | 1,216.96 | 44.96 | 28.066 | | |
| 5,500.00 | 5,254.45 | 6,132.95 | 5,526.51 | 27.61 | 24.86 | -97.34 | 237.59 | -101.75 | 1,240.11 | 1,195.14 | 44.98 | 27.573 | | |
| 5,600.00 | 5,330.86 | 6,058.69 | 5,526.31 | 27.66 | 24.01 | -96.18 | 185.03 | -49.29 | 1,225.57 | 1,181.02 | 44.55 | 27.510 | | |
| 5,700.00 | 5,394.93 | 5,896.29 | 5,524.40 | 27.69 | 22.52 | -92.44 | 64.86 | 59.83 | 1,212.79 | 1,169.56 | 43.23 | 28.054 | | |
| 5,800.00 | 5,444.72 | 5,802.57 | 5,509.82 | 27.68 | 21.86 | -90.77 | -5.06 | 120.36 | 1,201.48 | 1,158.51 | 42.98 | 27.957 | | |
| 5,900.00 | 5,478.73 | 5,718.43 | 5,484.04 | 27.65 | 21.39 | -89.16 | -65.55 | 172.73 | 1,192.89 | 1,149.87 | 43.02 | 27.729 | | |
| 6,000.00 | 5,495.91 | 5,640.83 | 5,450.12 | 27.60 | 21.06 | -87.55 | -118.26 | 218.37 | 1,186.99 | 1,143.66 | 43.32 | 27.398 | | |
| 6,100.00 | 5,497.70 | 5,559.18 | 5,409.01 | 27.54 | 20.82 | -85.71 | -171.59 | 264.54 | 1,183.27 | 1,139.44 | 43.83 | 26.997 | | |
| 6,168.40 | 5,497.27 | 5,512.62 | 5,382.77 | 27.50 | 20.73 | -84.44 | -200.65 | 289.70 | 1,182.38 | 1,138.02 | 44.36 | 26.654 | | |
| 6,200.00 | 5,497.07 | 5,492.80 | 5,370.66 | 27.50 | 20.69 | -83.86 | -212.52 | 299.97 | 1,182.59 | 1,138.01 | 44.58 | 26.527 | | |
| 6,300.00 | 5,496.44 | 5,436.65 | 5,333.52 | 27.51 | 20.62 | -82.07 | -244.34 | 327.52 | 1,186.29 | 1,140.83 | 45.46 | 26.094 | | |
| 6,400.00 | 5,495.81 | 5,389.38 | 5,299.18 | 27.87 | 20.57 | -80.42 | -268.88 | 348.77 | 1,195.25 | 1,148.83 | 46.41 | 25.752 | | |
| 6,500.00 | 5,495.18 | 5,350.00 | 5,268.61 | 29.16 | 20.53 | -78.96 | -287.64 | 365.01 | 1,210.04 | 1,162.65 | 47.40 | 25.530 | | |
| 6,600.00 | 5,494.55 | 5,315.84 | 5,240.77 | 30.76 | 20.50 | -77.65 | -302.59 | 377.96 | 1,230.99 | 1,182.63 | 48.36 | 25.456 | | |
| 6,700.00 | 5,493.92 | 5,287.13 | 5,216.49 | 32.47 | 20.48 | -76.51 | -314.17 | 387.98 | 1,258.16 | 1,208.89 | 49.28 | 25.533 | | |
| 6,800.00 | 5,493.29 | 5,250.00 | 5,184.00 | 34.25 | 20.45 | -74.99 | -327.76 | 399.74 | 1,291.58 | 1,241.57 | 50.01 | 25.825 | | |
| 6,900.00 | 5,492.66 | 5,250.00 | 5,184.00 | 36.09 | 20.45 | -74.99 | -327.76 | 399.74 | 1,330.68 | 1,279.72 | 50.97 | 26.109 | | |
| 7,000.00 | 5,492.02 | 5,222.66 | 5,159.38 | 37.98 | 20.42 | -73.86 | -336.73 | 407.51 | 1,375.30 | 1,323.75 | 51.56 | 26.676 | | |
| 7,100.00 | 5,491.39 | 5,200.00 | 5,138.55 | 39.92 | 20.39 | -72.92 | -343.49 | 413.36 | 1,425.14 | 1,373.06 | 52.07 | 27.367 | | |
| 7,200.00 | 5,490.76 | 5,200.00 | 5,138.55 | 41.89 | 20.39 | -72.92 | -343.49 | 413.36 | 1,479.64 | 1,426.96 | 52.68 | 28.088 | | |
| 7,300.00 | 5,490.13 | 5,179.32 | 5,119.26 | 43.89 | 20.37 | -72.05 | -349.11 | 418.22 | 1,538.32 | 1,485.31 | 53.02 | 29.016 | | |



Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error:

Reference Well: Haynes Canyon Unit 428H

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

Offset Depths are relative to Offset Datum

Local Co-ordinate Reference:

Survey Calculation Method:

TVD Reference: MD Reference: North Reference:

Output errors are at

Offset TVD Reference:

Well Haynes Canyon Unit 428H RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

Grid

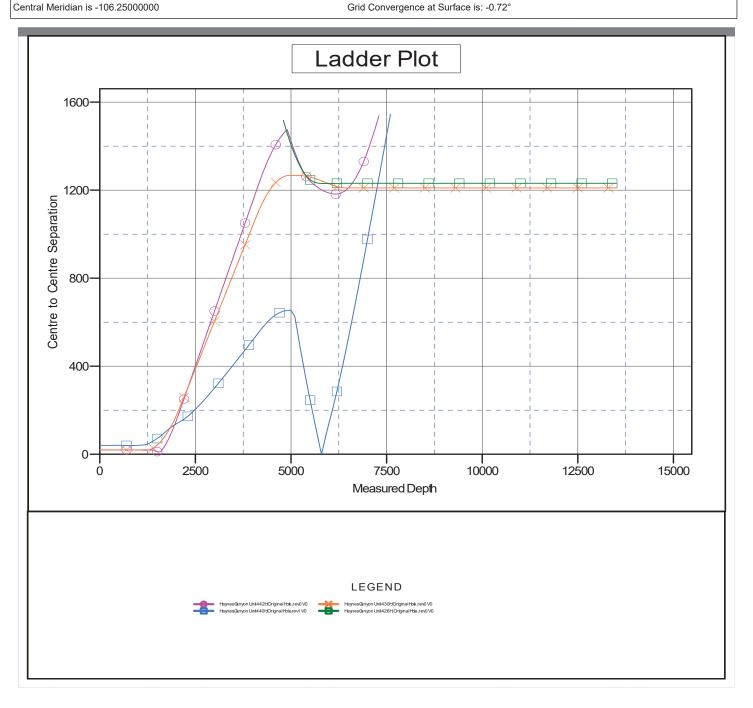
Minimum Curvature 2.00 sigma DT_Jan1924v17 Offset Datum

Reference Depths are relative to RKB=6703+25 @ 6728.00ft Coordinates are relative to: Haynes Canyon Unit 428H

Database:

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

Grid Convergence at Surface is: -0.72°





Company: Enduring Resources LLC

Project: Rio Arriba County, New Mexico NAD83 NM C
Reference Site: Haynes Canyon Unit (428,430,440 & 442)

Site Error: 0.00 f

Reference Well: Haynes Canyon Unit 428H

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

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:
Output errors are at

Database: Offset TVD Reference: Well Haynes Canyon Unit 428H

RKB=6703+25 @ 6728.00ft RKB=6703+25 @ 6728.00ft

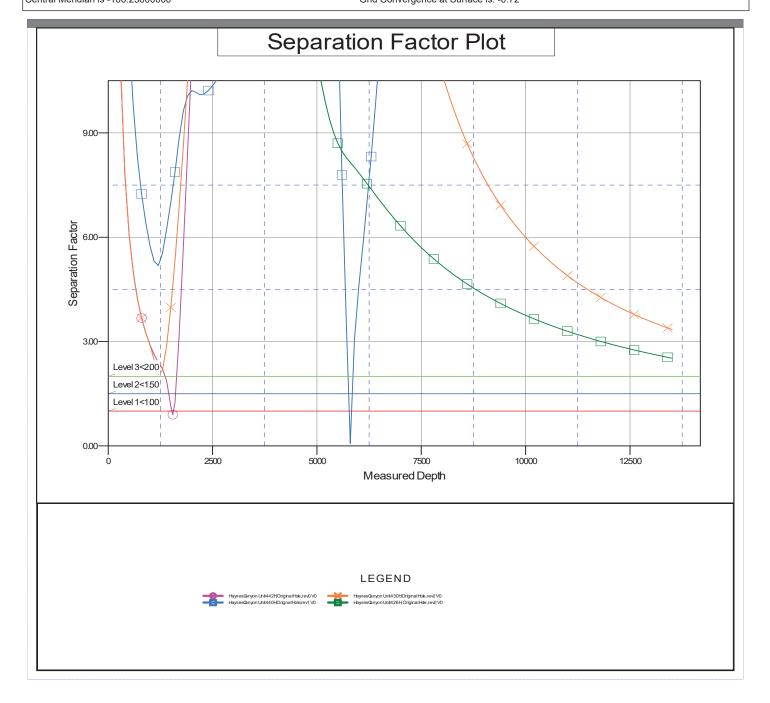
Grid

Minimum Curvature
2.00 sigma
DT_Jan1924v17
Offset Datum

Reference Depths are relative to RKB=6703+25 @ 6728.00ft

Offset Depths are relative to Offset Datum Central Meridian is -106.25000000

Coordinates are relative to: Haynes Canyon Unit 428H Coordinate System is US State Plane 1983, New Mexico Central Zone Grid Convergence at Surface is: -0.72°



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

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

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

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

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

CONDITIONS

Action 314340

CONDITIONS

| Operator: | OGRID: |
|--------------------------------|--------------------------------------|
| ENDURING RESOURCES, LLC | 372286 |
| 6300 S Syracuse Way, Suite 525 | Action Number: |
| Centennial, CO 80111 | 314340 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | | Condition Date |
|-------------|--|-------------------|
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated during cementing operations, then a CBL is required. | 3/4/2024 |