U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Sundry Print Report

02/28/2024

**Well Name:** NAGEEZI UNIT

**Well Location:** T24N / R9W / SEC 26 / NWSW /

**County or Parish/State:**

**Well Number:** 218H

**Type of Well:** OIL WELL

**Allottee or Tribe Name:** EASTERN NAVAJO

**Lease Number:** N0G14011834

**Unit or CA Name:**

**Unit or CA Number:** NMNM132981A

**US Well Number:** 30-045-38298

**Well Status:** Approved Application for Permit to Drill

**Operator:** DJR OPERATING LLC

## Notice of Intent

**Sundry ID:** 2777076

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 02/28/2024

**Time Sundry Submitted:** 09:10

**Date proposed operation will begin:** 02/28/2024

**Procedure Description:** The subject well has been assigned API No: 30-045-38298 and is located within DJRs undivided Nageezi Unit. Original plans were to drill a 3990-ft lateral. DJR is seeking approval to lengthen the lateral to 9333-ft, changing the proposed depth to 5295 / 15466, adjusting the BHL & increasing the dedicated acres from 400 to 640. Attached please find updated C102, revised drilling plan with new casing, cement assumptions, revised directional design and proposed wellbore diagram. Please note, effective December 21, 2023, Enduring Resources, LLC & DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources, LLC. Leases, rights of way, wells, and other property interests will continue to be held in their current entity names.

## NOI Attachments

**Procedure Description**

Hz_Directional_Drill_Plans__NU_218H_Rev1_20240228091024.pdf

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**Unit or CA Number:** NMNM132981A

**US Well Number:**

**Well Status:** Approved Application for Permit to Drill

**Operator:** DJR OPERATING LLC

## 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 28, 2024 09:10 AM

**Name:** DJR OPERATING 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

**BLM POC Name:** KENNETH G RENNICK

**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5055647742

**BLM POC Email Address:** krennick@blm.gov

**Disposition:** Approved

**Disposition Date:** 02/28/2024

**Signature:** Kenneth Rennick

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., 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 Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

| [1] API Number | [2] Pool Code | [3] Pool Name |
|---|---|---|
| 30-045-38298 | 98080 | NAGEEZI UNIT MANCOS OIL POOL |

| [4] Property Code | [5] Property Name | [6] Well Number |
|---|---|---|
| 325268 | NAGEEZI UNIT | 218H |

| [7] OGRID No. | [8] Operator Name | [9] Elevation |
|---|---|---|
| 371838 | DJR OPERATING, LLC | 6826' |

## [10] Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| L | 26 | 24N | 9W | | 1705' | SOUTH | 754' | WEST | SAN JUAN |

## [11] Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| P | 36 | 24N | 9W | | 268' | SOUTH | 224' | EAST | SAN JUAN |

| [12] Dedicated Acres | [13] Joint or Infill | [14] Consolidation Code | [15] Order No. |
|---|---|---|---|
| PENETRATED SPACING UNIT; SEC 26: SE/4 (160 AC.); SEC 25: SW/SW (40 AC.); SEC 35: NE/NE (40 AC.); SEC 36: NW/4, SW/NE, NE/SW & SE/4 (400 AC.) = 640 ACRES | | | R-13856 R-13856A |

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

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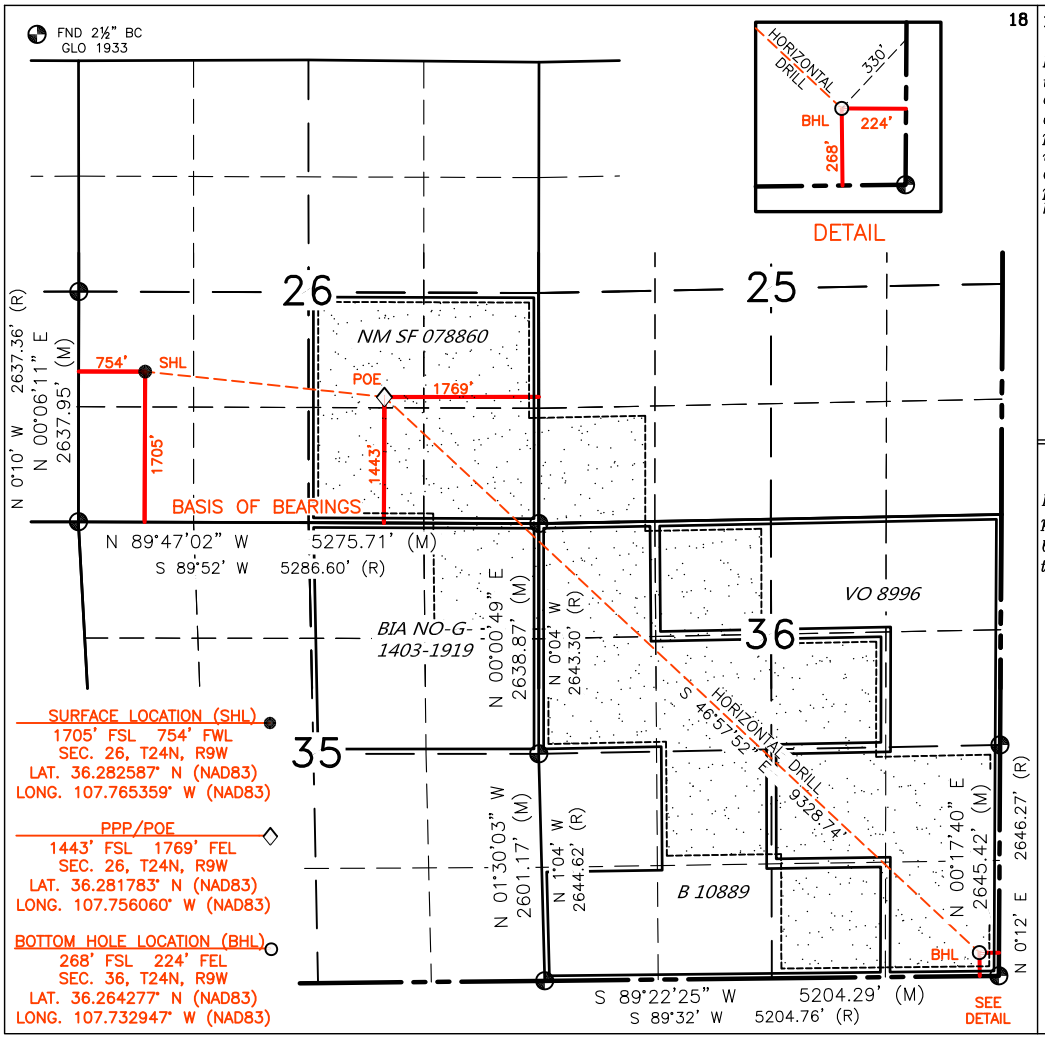


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## [17] OPERATOR CERTIFICATION

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

Shaw-Marie Ford 2/23/24
Signature Date

Shaw-Marie Ford
Printed Name

sford@djrllc.com
E-mail Address

## SURVEYOR CERTIFICATION

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

NOVEMBER 9, 2020
Date of Survey

Signature and Seal of Professional Surveyor:


Certificate Number 11393

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

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

**WELL INFORMATION:**

**Name:** **NAGEEZI UNIT 218H**
**API Number:** 30-045-38298
**State:** New Mexico
**County:** San Juan
**Surface Elevation:** 6,826 ft ASL (GL) 6,851 ft ASL (KB)
**Surface Location:** 26-24N-9W Sec-Twn-Rng 1,705 ft FSL 754 ft FWL
36.282587 ° N latitude 107.765359 ° W longitude (NAD 83)
**BH Location:** 35-24-N9W Sec-Twn-Rng 1,423 ft FNL 1,105 ft FEL
36.273901 ° N latitude 107.753813 ° 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 32.5 miles to MM 119.5, Right (SouthWest) on D34 Road for 2.9 miles to fork, Left (East) on lease road for 0.75 miles to P&A location, Thru location (Southeast) on new access for 0.3 miles to Nageezi L26 Pad, There are 6 wells on this location from South to North(NU 217H, NU 218H, NU 215H, NU 213H, NU 216H, NU 214H).

**GEOLOGIC AND RESERVOIR INFORMATION:**

**Prognosis:**

| Formation Tops | TVD (ft ASL) | TVD (ft KB) | MD (ft KB) | O / G / W | Pressure |
|---|---|---|---|---|---|
| Ojo Alamo | 6,020 | 831 | 832 | W | normal |
| Kirtland | 5,895 | 956 | 960 | W | normal |
| Fruitland | 5,606 | 1,245 | 1,265 | G, W | sub |
| Pictured Cliffs | 5,262 | 1,589 | 1,657 | G, W | sub |
| Lewis | 5,153 | 1,698 | 1,786 | G, W | normal |
| Chacra | 4,854 | 1,997 | 2,137 | G, W | normal |
| Cliff House | 3,768 | 3,083 | 3,412 | G, W | sub |
| Menefee | 3,738 | 3,113 | 3,447 | G, W | normal |
| Point Lookout | 2,807 | 4,044 | 4,541 | G, W | normal |
| Mancos | 2,605 | 4,246 | 4,779 | O,G | sub (~0.38) |
| Gallup (MNCS_A) | 2,239 | 4,612 | 5,208 | O,G | sub (~0.38) |
| MNCS_B | 2,156 | 4,695 | 5,305 | O,G | sub (~0.38) |
| MNCS_C | 2,055 | 4,796 | 5,425 | O,G | sub (~0.38) |
| MNCS_Cms | 2,010 | 4,841 | 5,477 | O,G | sub (~0.38) |
| MNCS_D | 1,890 | 4,961 | 5,618 | O,G | sub (~0.38) |
| MNCS_E | 1,778 | 5,073 | 5,754 | O,G | sub (~0.38) |
| MNCS_F | 1,713 | 5,138 | 5,840 | O,G | sub (~0.38) |
| MNCS_G | 1,634 | 5,217 | 5,963 | O,G | sub (~0.38) |
| MNCS_H | 1,586 | 5,265 | 6,058 | O,G | sub (~0.38) |
| MNCS_I | 1,540 | 5,311 | 6,187 | O,G | sub (~0.38) |
| **FTP TARGET** | **1,556** | **5,295** | **6,133** | **O,G** | **sub (~0.38)** |
| **PROJECTED TD** | **1,600** | **5,251** | **15,466** | **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:** **2,280 psi**
**Maximum anticipated surface pressure, assuming partially evacuated hole:** **1,120 psi**
**Temperature:** **Maximum anticipated BHT is 125° F or less**

**$H_2S$ INFORMATION:**

**$H_2S$ 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 and attached Newpark mud program for additional details.

**DETAILED DRILLING PLAN:**

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

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

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

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

**Hole Size:** 17-1/2"

**Bit / Motor:** Mill Tooth or PDC, no motor

**MWD / Survey:** No MWD, deviation survey

**Logging:** None

| **Casing Specs:** | | **Wt (lb/ft)** | **Grade** | **Conn.** | **Collapse (psi)** | **Burst (psi)** | **Tens. Body (lbs)** | **Tens. Conn (lbs)** |
|---|---|---|---|---|---|---|---|---|
| Specs | 13.375 | 54.5 | J-55 | BTC | 1,130 | 2,730 | 853,000 | 909,000 |
| Loading | | | | | 153 | 695 | 116,634 | 116,634 |
| Min. S.F. | | | | | **7.39** | **3.93** | **7.31** | **7.79** |

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

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

| **Cement:** | **Type** | **Weight (ppg)** | **Yield (cuft/sk)** | **Water (gal/sk)** | **Hole Cap. (cuft/ft)** | **% Excess** | **Planned TOC (ft MD)** | **Total Cmt (sx)** |
|---|---|---|---|---|---|---|---|---|
| | TYPE III | 14.6 | 1.39 | 6.686 | 0.6946 | 100% | 0 | 350 |

Calculated cement volumes assume gauge hole and the excess noted in table
Drake Cementing Surface Blend

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

| | | | | | |
|---|---|---|---|---|---|
| **350 ft (MD)** | **to** | **3,565 ft (MD)** | **Hole Section Length:** | **3,215 ft** |
| **350 ft (TVD)** | **to** | **3,213 ft (TVD)** | **Casing Required:** | **3,565 ft** |

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

**Hole Size:** 12-1/4"

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

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

**Logging:** None

| **Casing Specs:** | | **Wt (lb/ft)** | **Grade** | **Conn.** | **Collapse (psi)** | **Burst (psi)** | **Tens. Body (lbs)** | **Tens. Conn (lbs)** |
|---|---|---|---|---|---|---|---|---|
| Specs | 9.625 | 36.0 | J-55 | LTC | 2,020 | 3,520 | 564,000 | 453,000 |
| Loading | | | | | 1,403 | 1,304 | 211,919 | 211,919 |
| Min. S.F. | | | | | **1.44** | **2.70** | **2.66** | **2.14** |

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient
Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling production hole and 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull

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

| **Cement:** | **Type** | **Weight (ppg)** | **Yield (cuft/sk)** | **Water (gal/sk)** | **% Excess** | **Planned TOC (ft MD)** | **Total Cmt (sx)** |
|---|---|---|---|---|---|---|---|
| Lead | III:POZ Blend | 12.5 | 2.140 | 12.05 | 70% | 0 | 735 |
| Tail | Type III | 14.6 | 1.380 | 6.64 | 20% | 3,065 | 136 |

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

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

Drake Intermediate Cementing Program

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

| | | | | | |
|---|---|---|---|---|---|
| 3,565 | ft (MD) | to | 15,466 | ft (MD) | Hole Section Length: 11,901 ft |
| 3,213 | ft (TVD) | to | 5,251 | ft (TVD) | Casing Required: 15,466 ft |

| | | | | |
|---|---|---|---|---|
| Estimated KOP: | 5,652 | ft (MD) | 4,990 | ft (TVD) |
| Estimated Landing Point (FTP): | 6,133 | ft (MD) | 5,295 | ft (TVD) |
| Estimated Lateral Length: | 9,333 | ft (MD) | | |

| Fluid: | Type | MW (ppg) | FL (mL/30') | PV (cp) | YP (lb/100 sqft) | ES | OWR |
|---|---|---|---|---|---|---|---|
| | OBM | 8.7 - 9.0 | 10 - 15 | 10 - 20 | 6 - 10 | 500+ | 80:20 |

**Hole Size:** 8-1/2"

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

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

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

| Casing Specs: | Size (in) | Wt (lb/ft) | Grade | Conn. | Collapse (psi) | Burst (psi) | Tens. Body (lbs) | Tens. Conn (lbs) |
|---|---|---|---|---|---|---|---|---|
| Specs | 5.500 | 17.0 | P-110 | LTC | 7,460 | 10,640 | 546,000 | 445,000 |
| Loading | | | | | 2,594 | 8,991 | 326,878 | 326,878 |
| Min. S.F. | | | | | **2.88** | **1.18** | **1.67** | **1.36** |

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)
Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient
Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull

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

| Cement: | Type | Weight (ppg) | Yield (cuft/sk) | Water (gal/sk) | % Excess | Planned TOC (ft MD) | Total Cmt (sx) | Total Cmt (cu ft) |
|---|---|---|---|---|---|---|---|---|
| Spacer | IntegraGuard Star | 11 | | 31.6 | | 0 | 60 bbls | |
| Lead | Type III | 12.4 | 2.360 | 13.40 | 65% | 0 | 601 | 1,418 |
| Tail | G:POZ blend | 13.3 | 1.560 | 7.70 | 10% | 4,779 | 1,735 | 2,706 |

| | | | |
|---|---|---|---|
| Displacement | 357 | 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 |
| | 0.1305 | cuft/ft | 5-1/2" casing vol est shoe jt ft 100 |

Calculated cement volumes assume gauge hole and the excess noted in table
American Cementing Liner & Production Blend

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Spacer | S-8 Silica Flour 163.7 lbs/bbl | Avis 616 viscosifier 11.6 lb/bbl | FP24 Defoamer .5 lb/bbl | IntegraGuard Star Plus 3K LCM 15 lb/bbl | SS201 Surfactant 1 gal/bbl | | | |
| Lead | ASTM Type I/II | BA90 Bonding Agent 5.0 lb/sx | Bentonite Viscosifier 8% BWOB | FL24 Fluid Loss .5% BWOB | IntegraGuard GW86 Viscosifier .1% BWOB | R7C Retarder .2% BWOB | FP24 Defoamer 0.3% BWOB, Anti-Static .01 lb/sx | |
| Tail | Type G 50% | Pozzolan Fly Ash Extender 50% | BA90 Bonding Agent 3.0 lb/sx | Bentonite Viscosifier 4% BWOB | FL24 Fluid Loss .4% BWOB | IntegraGuard GW86 Viscosifier .1% BWOB | R3 Retarder .5% BWOB | FP24 Defoamer .3% BWOB, IntegraSeal 0.25 lb/sx |

**FINISH WELL:** **ND BOP, cap well, RDMO.**

**COMPLETION AND PRODUCTION PLAN:**

**Est Lateral Length:** 9,233

**Est Frac Inform:** 38 Frac Stages 148,000 bbls slick water 12,010,000 lbs proppant

**Frac:** 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

**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:** 5/1/2024

**Completion:** 6/30/2024

**Production:** 8/14/2024

| | | |
|---|---|---|
| **Prepared by:** | Greg Olson | 10/5/2023 |
| **Updated:** | Greg Olson | 11/29/2023 |
| | Greg Olson | 2/22/2024 |

**WELL NAME:** **NAGEEZI UNIT 218H**

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

**API Number:** *30-045-38298*

**AFE Number:** *Not yet assigned*

**ER Well Number:** *Not yet assigned*

**State:** New Mexico

**County:** San Juan

| | | | | | | |
|---|---|---|---|---|---|---|
| **Surface Elev.:** | 6,826 | ft ASL (GL) | 6,851 | ft ASL (KB) | | |
| **Surface Location:** | 26-24N-9W | Sec-Twn- Rng | 1,705 | ft FSL | 754 | ft FWL |
| **BH Location:** | 35-24-N9W | Sec-Twn- Rng | 1423 | ft FNL | 1105 | ft FEL |

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

South on US Hwy 550 for 32.5 miles to MM 119.5, Right (SouthWest) on D34 Road for 2.9 miles to fork, Left (East) on lease road for 0.75 miles to P&A location, Thru location (Southeast) on new access for 0.3 miles to Nageezi L26 Pad, There are 6 wells on this location from South to North(NU 217H, NU 218H, NU 215H, NU 213H, NU 216H, NU 214H).

| QUICK REFERENCE | | |
|---|---|---|
| Sur TD (MD) | 350 | ft |
| Int TD (MD) | 3,565 | ft |
| KOP (MD) | 5,652 | ft |
| KOP (TVD) | 4,990 | ft |
| Target (TVD) | 5,295 | ft |
| Curve BUR | 10 | °/100 ft |
| POE (MD) | 6,133 | ft |
| TD (MD) | 15,466 | ft |
| Lat Len (ft) | 9,333 | ft |

**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 | 3,565 | 9.625 | 36.0 | J-55 | LTC | 0 | 3,565 |
| *Production* | 8.750 | 15,466 | 5.500 | 17.0 | P-110 | LTC | 0 | 15,466 |

**CEMENT PROPERTIES SUMMARY:**

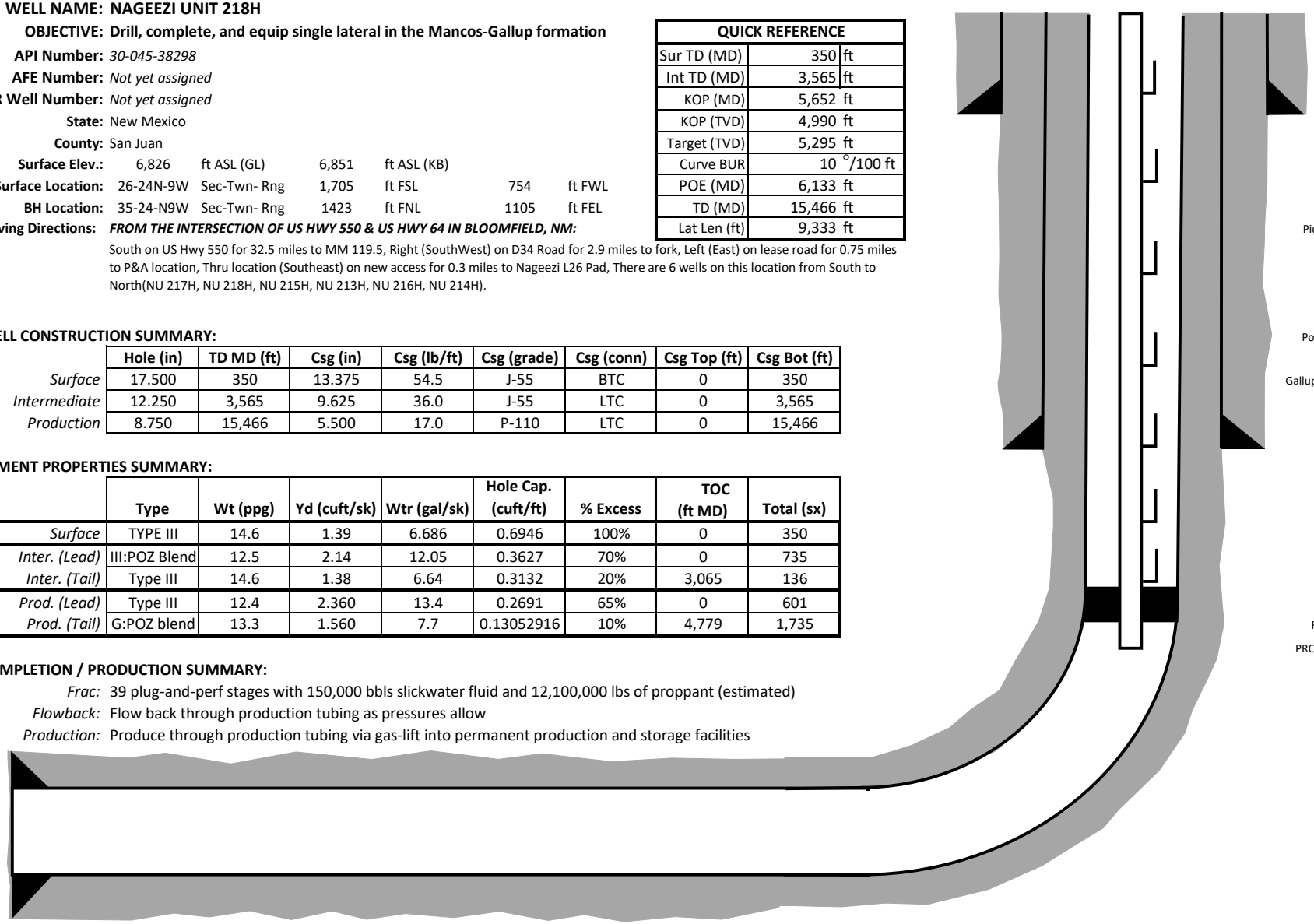
| | Type | Wt (ppg) | Yd (cuft/sk) | Wtr (gal/sk) | Hole Cap. (cuft/ft) | % Excess | TOC (ft MD) | Total (sx) |
|---|---|---|---|---|---|---|---|---|
| *Surface* | TYPE III | 14.6 | 1.39 | 6.686 | 0.6946 | 100% | 0 | 350 |
| *Inter. (Lead)* | III:POZ Blend | 12.5 | 2.14 | 12.05 | 0.3627 | 70% | 0 | 735 |
| *Inter. (Tail)* | Type III | 14.6 | 1.38 | 6.64 | 0.3132 | 20% | 3,065 | 136 |
| *Prod. (Lead)* | Type III | 12.4 | 2.360 | 13.4 | 0.2691 | 65% | 0 | 601 |
| *Prod. (Tail)* | G:POZ blend | 13.3 | 1.560 | 7.7 | 0.13052916 | 10% | 4,779 | 1,735 |

**COMPLETION / PRODUCTION SUMMARY:**

*Frac:* 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

*Flowback:* Flow back through production tubing as pressures allow

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



| Tops | TVD (ft KB) | MD (ft KB) |
|---|---|---|
| Ojo Alamo | 831 | 832 |
| Kirtland | 956 | 960 |
| Fruitland | 1,245 | 1,265 |
| Pictured Cliffs | 1,589 | 1,657 |
| Lewis | 1,698 | 1,786 |
| Chacra | 1,997 | 2,137 |
| Cliff House | 3,083 | 3,412 |
| Menefee | 3,113 | 3,447 |
| Point Lookout | 4,044 | 4,541 |
| Mancos | 4,246 | 4,779 |
| Gallup (MNCS_A) | 4,612 | 5,208 |
| MNCS_B | 4,695 | 5,305 |
| MNCS_C | 4,796 | 5,425 |
| MNCS_Cms | 4,841 | 5,477 |
| MNCS_D | 4,961 | 5,618 |
| MNCS_E | 5,073 | 5,754 |
| MNCS_F | 5,138 | 5,840 |
| MNCS_G | 5,217 | 5,963 |
| MNCS_H | 5,265 | 6,058 |
| MNCS_I | 5,311 | 6,187 |
| FTP TARGET | 5,295 | 6,133 |
| PROJECTED TD | 5,251 | 15,466 |

**Well:** Nageezi Unit 218H
**Site:** Nageezi Unit (213, 214, 215, 216, 217 & 218)
**Project:** San Juan County, New Mexico NAD83 NM W
**Design:** rev0

DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
|---|---|---|---|---|---|---|---|
| Nageezi 218H BHL 288 FSL 244 FEL 3330 ppd | 5251.00 | -6657.00 | 9559.67 | 1915511.01 | 2752685.30 | 36.26427700 | -107.73294700 |
| Nageezi 218H PPP/POE 1443 FSL 1769 FEL | 5295.05 | -290.62 | 2740.92 | 1921877.37 | 2745866.56 | 36.28178300 | -107.75606000 |
| Nageezi 218H vert | 5350.00 | 1211.93 | 1131.32 | 1923379.92 | 2744256.96 | 36.28591400 | -107.76151744 |

Section Details

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Annotation |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 3 | 1555.10 | 31.65 | 92.83 | 1502.25 | -14.01 | 283.76 | 3.00 | 92.83 | 216.99 | Begin 31.65° tangent |
| 4 | 5652.25 | 31.65 | 92.83 | 4989.90 | -120.03 | 2431.22 | 0.00 | 0.00 | 1859.12 | Begin 10°/100' build/turn |
| 5 | 6133.29 | 70.00 | 133.03 | 5295.05 | -290.62 | 2740.92 | 10.00 | 54.58 | 2201.92 | POE @ 6133.29 MD 5295.05 TVD |
| 6 | 6338.23 | 90.49 | 133.04 | 5329.58 | -427.71 | 2887.77 | 10.00 | 0.01 | 2402.81 | Begin 90.49° lateral |
| 7 | 15466.45 | 90.49 | 133.04 | 5251.00 | -6657.00 | 9559.67 | 0.00 | 0.00 | 11530.70 | PBHL @ 15466.45 MD 5251.00 TVD |

T G M

Azimuths to Grid North
True North: -0.04°
Magnetic North: 8.49°

Magnetic Field
Strength: 49065.9nT
Dip Angle: 62.73°
Date: 2/8/2024
Model: IGRF2020

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6826+25 @ 6851.00ft

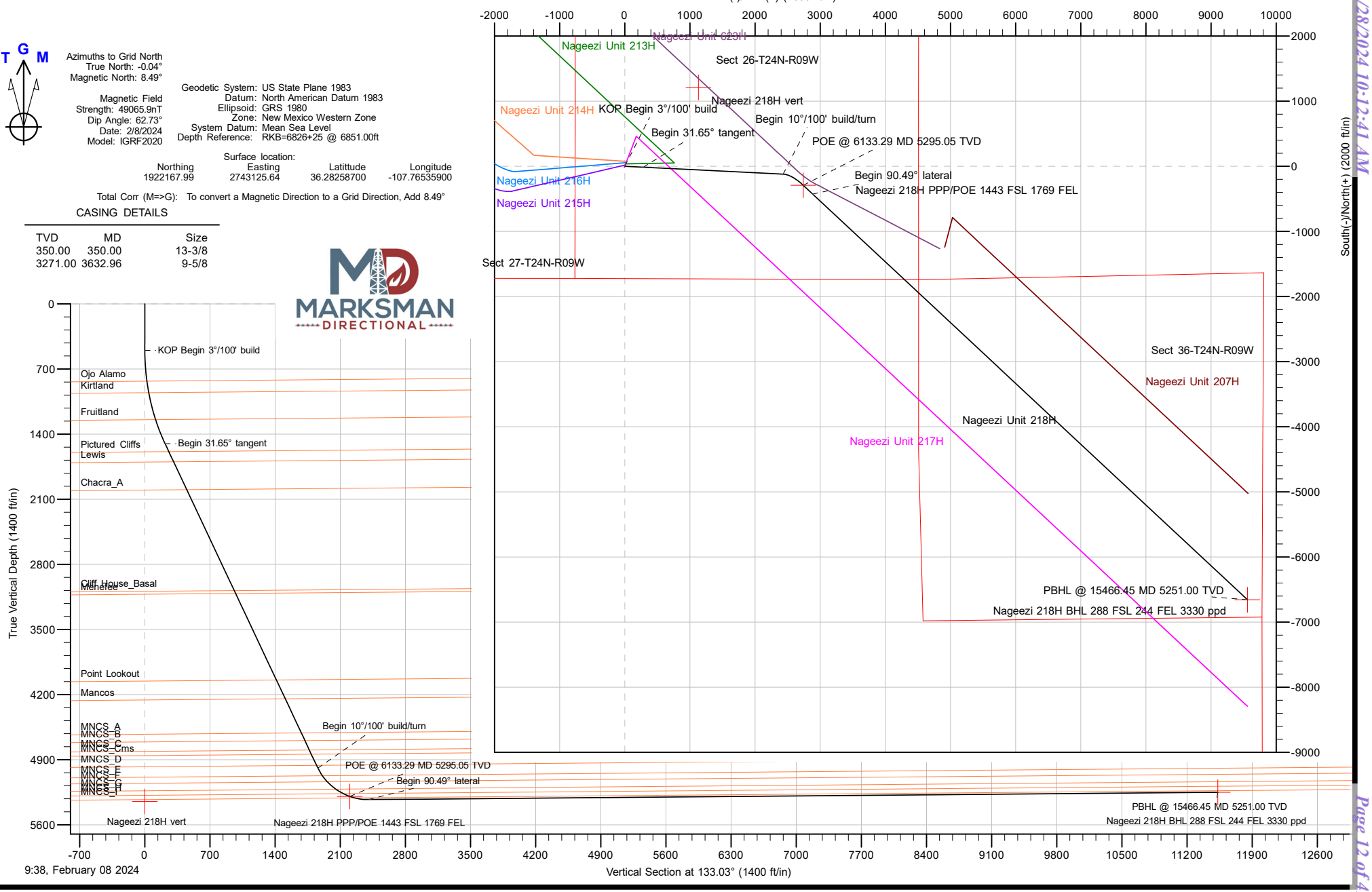
Surface location:

| Northing | Easting | Latittude | Longitude |
|---|---|---|---|
| 1922167.99 | 2743125.64 | 36.28258700 | -107.76535900 |

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.49°

CASING DETAILS

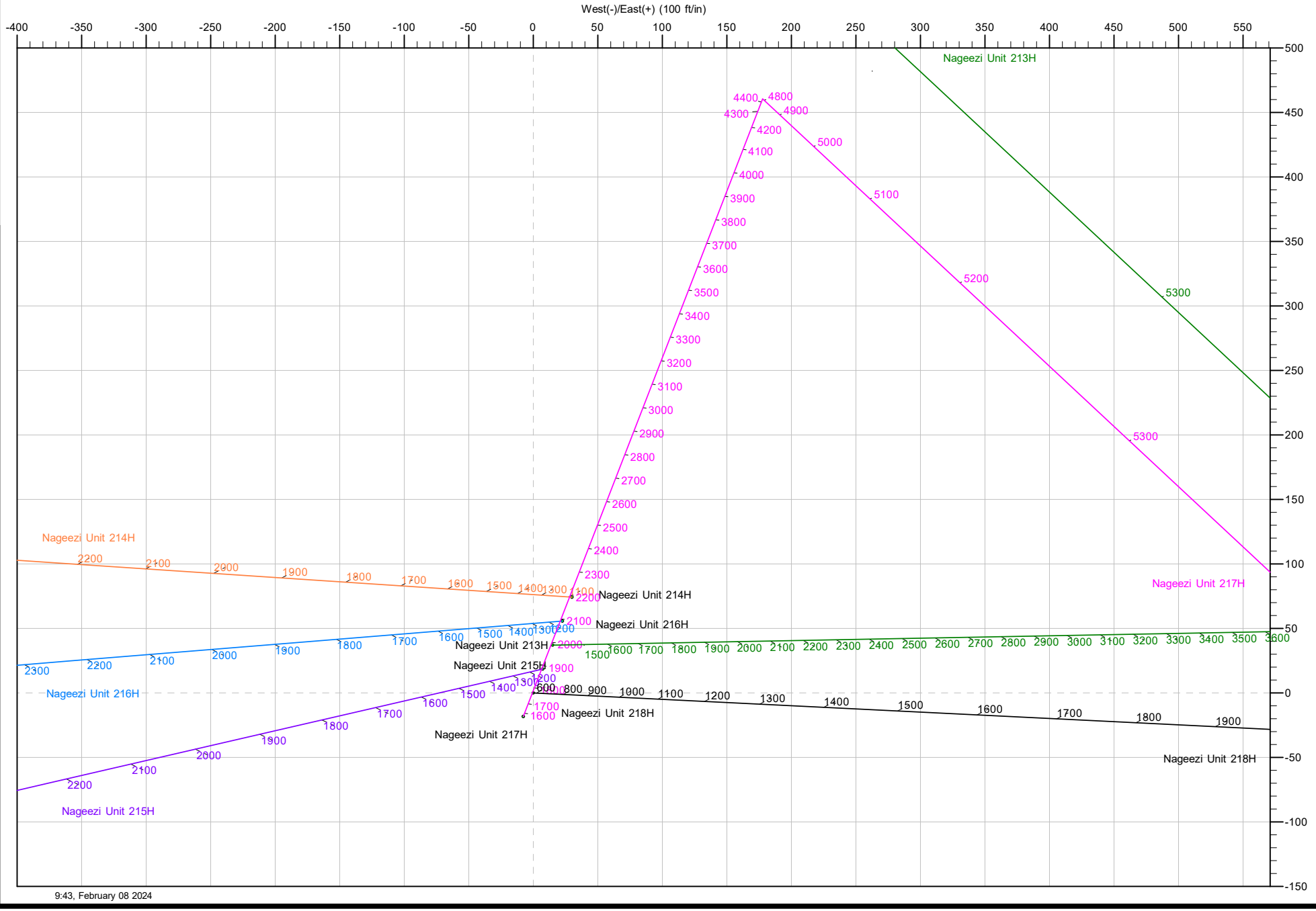
| TVD | MD | Size |
|---|---|---|
| 350.00 | 350.00 | 13-3/8 |
| 3271.00 | 3632.96 | 9-5/8 |




9:38, February 08 2024

**Well:** Nageezi Unit 218H
**Site:** Nageezi Unit (213, 214, 215, 216, 217 & 218)
**Project:** San Juan County, New Mexico NAD83 NM W
**Design:** rev0
**Rig:**

MARKSMAN DIRECTIONAL



# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Project** San Juan County, New Mexico NAD83 NM W

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Western Zone | | |

**Site** Nageezi Unit (213, 214, 215, 216, 217 & 218)

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 1,922,205.14 usft | **Latitude:** | 36.28268900 |
| **From:** | Lat/Long | **Easting:** | 2,743,140.65 usft | **Longitude:** | -107.76530800 |
| **Position Uncertainty:** | 0.00 ft | **Slot Radius:** | 13-3/16 " | | |

**Well** Nageezi Unit 218H, Surf loc: 1705 FSL 754 FWL Section 26-T24N-R09W

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 ft | **Northing:** | 1,922,167.99 usft | **Latitude:** | 36.28258700 |
| | **+E/-W** | 0.00 ft | **Easting:** | 2,743,125.64 usft | **Longitude:** | -107.76535900 |
| **Position Uncertainty** | | 0.00 ft | **Wellhead Elevation:** | ft | **Ground Level:** | 6,826.00 ft |
| **Grid Convergence:** | | 0.04 ° | | | | |

**Wellbore** Original Hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2020 | 2/8/2024 | 8.53 | 62.73 | 49,065.92430133 |

**Design** rev0

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 133.03 |

**Plan Survey Tool Program** **Date** 2/8/2024

| | Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 15,466.40 | rev0 (Original Hole) | MWD | |
| | | | | OWSG MWD - Standard | |

**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 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,555.10 | 31.65 | 92.83 | 1,502.25 | -14.01 | 283.76 | 3.00 | 3.00 | 0.00 | 92.83 | |
| 5,652.25 | 31.65 | 92.83 | 4,989.90 | -120.03 | 2,431.22 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,133.29 | 70.00 | 133.03 | 5,295.05 | -290.62 | 2,740.92 | 10.00 | 7.97 | 8.36 | 54.58 | Nageezi 218H PPP/P |
| 6,338.23 | 90.49 | 133.04 | 5,329.58 | -427.71 | 2,887.77 | 10.00 | 10.00 | 0.00 | 0.01 | |
| 15,466.45 | 90.49 | 133.04 | 5,251.00 | -6,657.00 | 9,559.67 | 0.00 | 0.00 | 0.00 | 0.00 | Nageezi 218H BHL 2 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350.00 | 0.00 | 0.00 | 350.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **KOP Begin 3°/100' build** | | | | | | | | | |
| 600.00 | 3.00 | 92.83 | 599.95 | -0.13 | 2.61 | 2.00 | 3.00 | 3.00 | 0.00 |
| 700.00 | 6.00 | 92.83 | 699.63 | -0.52 | 10.45 | 7.99 | 3.00 | 3.00 | 0.00 |
| 800.00 | 9.00 | 92.83 | 798.77 | -1.16 | 23.48 | 17.96 | 3.00 | 3.00 | 0.00 |
| 832.49 | 9.97 | 92.83 | 830.82 | -1.42 | 28.83 | 22.05 | 3.00 | 3.00 | 0.00 |
| **Ojo Alamo** | | | | | | | | | |
| 900.00 | 12.00 | 92.83 | 897.08 | -2.06 | 41.68 | 31.88 | 3.00 | 3.00 | 0.00 |
| 960.08 | 13.80 | 92.83 | 955.65 | -2.72 | 55.08 | 42.12 | 3.00 | 3.00 | 0.00 |
| **Kirtland** | | | | | | | | | |
| 1,000.00 | 15.00 | 92.83 | 994.31 | -3.21 | 65.00 | 49.70 | 3.00 | 3.00 | 0.00 |
| 1,100.00 | 18.00 | 92.83 | 1,090.18 | -4.61 | 93.36 | 71.39 | 3.00 | 3.00 | 0.00 |
| 1,200.00 | 21.00 | 92.83 | 1,184.43 | -6.25 | 126.70 | 96.88 | 3.00 | 3.00 | 0.00 |
| 1,265.35 | 22.96 | 92.83 | 1,245.03 | -7.46 | 151.13 | 115.56 | 3.00 | 3.00 | 0.00 |
| **Fruitland** | | | | | | | | | |
| 1,300.00 | 24.00 | 92.83 | 1,276.81 | -8.14 | 164.92 | 126.11 | 3.00 | 3.00 | 0.00 |
| 1,400.00 | 27.00 | 92.83 | 1,367.06 | -10.26 | 207.91 | 158.98 | 3.00 | 3.00 | 0.00 |
| 1,500.00 | 30.00 | 92.83 | 1,454.93 | -12.62 | 255.56 | 195.42 | 3.00 | 3.00 | 0.00 |
| 1,555.10 | 31.65 | 92.83 | 1,502.25 | -14.01 | 283.76 | 216.99 | 3.00 | 3.00 | 0.00 |
| **Begin 31.65° tangent** | | | | | | | | | |
| 1,600.00 | 31.65 | 92.83 | 1,540.46 | -15.17 | 307.30 | 234.98 | 0.00 | 0.00 | 0.00 |
| 1,656.83 | 31.65 | 92.83 | 1,588.84 | -16.64 | 337.08 | 257.76 | 0.00 | 0.00 | 0.00 |
| **Pictured Cliffs** | | | | | | | | | |
| 1,700.00 | 31.65 | 92.83 | 1,625.59 | -17.76 | 359.71 | 275.06 | 0.00 | 0.00 | 0.00 |
| 1,785.55 | 31.65 | 92.83 | 1,698.41 | -19.97 | 404.55 | 309.35 | 0.00 | 0.00 | 0.00 |
| **Lewis** | | | | | | | | | |
| 1,800.00 | 31.65 | 92.83 | 1,710.71 | -20.35 | 412.12 | 315.14 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 31.65 | 92.83 | 1,795.84 | -22.93 | 464.54 | 355.22 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 31.65 | 92.83 | 1,880.96 | -25.52 | 516.95 | 395.30 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 31.65 | 92.83 | 1,966.09 | -28.11 | 569.36 | 435.38 | 0.00 | 0.00 | 0.00 |
| 2,136.59 | 31.65 | 92.83 | 1,997.23 | -29.06 | 588.54 | 450.05 | 0.00 | 0.00 | 0.00 |
| **Chacra_A** | | | | | | | | | |
| 2,200.00 | 31.65 | 92.83 | 2,051.21 | -30.70 | 621.78 | 475.46 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 31.65 | 92.83 | 2,136.33 | -33.28 | 674.19 | 515.54 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 31.65 | 92.83 | 2,221.46 | -35.87 | 726.60 | 555.62 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 31.65 | 92.83 | 2,306.58 | -38.46 | 779.02 | 595.70 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 31.65 | 92.83 | 2,391.71 | -41.05 | 831.43 | 635.78 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 31.65 | 92.83 | 2,476.83 | -43.63 | 883.85 | 675.86 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 31.65 | 92.83 | 2,561.95 | -46.22 | 936.26 | 715.94 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 31.65 | 92.83 | 2,647.08 | -48.81 | 988.67 | 756.02 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 31.65 | 92.83 | 2,732.20 | -51.40 | 1,041.09 | 796.10 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 31.65 | 92.83 | 2,817.33 | -53.98 | 1,093.50 | 836.18 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 31.65 | 92.83 | 2,902.45 | -56.57 | 1,145.91 | 876.26 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 31.65 | 92.83 | 2,987.57 | -59.16 | 1,198.33 | 916.34 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 31.65 | 92.83 | 3,072.70 | -61.75 | 1,250.74 | 956.42 | 0.00 | 0.00 | 0.00 |
| 3,412.04 | 31.65 | 92.83 | 3,082.95 | -62.06 | 1,257.05 | 961.25 | 0.00 | 0.00 | 0.00 |
| **Cliff House_Basal** | | | | | | | | | |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 3,447.14 | 31.65 | 92.83 | 3,112.83 | -62.97 | 1,275.45 | 975.32 | 0.00 | 0.00 | 0.00 |
| **Menefee** | | | | | | | | | |
| 3,500.00 | 31.65 | 92.83 | 3,157.82 | -64.33 | 1,303.15 | 996.50 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 31.65 | 92.83 | 3,242.95 | -66.92 | 1,355.57 | 1,036.58 | 0.00 | 0.00 | 0.00 |
| 3,632.96 | 31.65 | 92.83 | 3,271.00 | -67.77 | 1,372.84 | 1,049.79 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 31.65 | 92.83 | 3,328.07 | -69.51 | 1,407.98 | 1,076.66 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 31.65 | 92.83 | 3,413.20 | -72.10 | 1,460.40 | 1,116.74 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 31.65 | 92.83 | 3,498.32 | -74.68 | 1,512.81 | 1,156.82 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 31.65 | 92.83 | 3,583.44 | -77.27 | 1,565.22 | 1,196.90 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 31.65 | 92.83 | 3,668.57 | -79.86 | 1,617.64 | 1,236.98 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 31.65 | 92.83 | 3,753.69 | -82.45 | 1,670.05 | 1,277.06 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 31.65 | 92.83 | 3,838.82 | -85.03 | 1,722.46 | 1,317.14 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 31.65 | 92.83 | 3,923.94 | -87.62 | 1,774.88 | 1,357.22 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 31.65 | 92.83 | 4,009.06 | -90.21 | 1,827.29 | 1,397.30 | 0.00 | 0.00 | 0.00 |
| 4,541.22 | 31.65 | 92.83 | 4,044.16 | -91.28 | 1,848.90 | 1,413.82 | 0.00 | 0.00 | 0.00 |
| **Point Lookout** | | | | | | | | | |
| 4,600.00 | 31.65 | 92.83 | 4,094.19 | -92.80 | 1,879.70 | 1,437.38 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 31.65 | 92.83 | 4,179.31 | -95.39 | 1,932.12 | 1,477.46 | 0.00 | 0.00 | 0.00 |
| 4,778.76 | 31.65 | 92.83 | 4,246.36 | -97.42 | 1,973.40 | 1,509.03 | 0.00 | 0.00 | 0.00 |
| **Mancos** | | | | | | | | | |
| 4,800.00 | 31.65 | 92.83 | 4,264.44 | -97.97 | 1,984.53 | 1,517.54 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 31.65 | 92.83 | 4,349.56 | -100.56 | 2,036.95 | 1,557.62 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 31.65 | 92.83 | 4,434.68 | -103.15 | 2,089.36 | 1,597.70 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 31.65 | 92.83 | 4,519.81 | -105.74 | 2,141.77 | 1,637.78 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 31.65 | 92.83 | 4,604.93 | -108.32 | 2,194.19 | 1,677.86 | 0.00 | 0.00 | 0.00 |
| 5,208.20 | 31.65 | 92.83 | 4,611.92 | -108.54 | 2,198.49 | 1,681.15 | 0.00 | 0.00 | 0.00 |
| **MNCS_A** | | | | | | | | | |
| 5,300.00 | 31.65 | 92.83 | 4,690.06 | -110.91 | 2,246.60 | 1,717.94 | 0.00 | 0.00 | 0.00 |
| 5,305.33 | 31.65 | 92.83 | 4,694.59 | -111.05 | 2,249.39 | 1,720.07 | 0.00 | 0.00 | 0.00 |
| **MNCS_B** | | | | | | | | | |
| 5,400.00 | 31.65 | 92.83 | 4,775.18 | -113.50 | 2,299.01 | 1,758.02 | 0.00 | 0.00 | 0.00 |
| 5,424.68 | 31.65 | 92.83 | 4,796.19 | -114.14 | 2,311.95 | 1,767.91 | 0.00 | 0.00 | 0.00 |
| **MNCS_C** | | | | | | | | | |
| 5,477.34 | 31.65 | 92.83 | 4,841.01 | -115.50 | 2,339.55 | 1,789.02 | 0.00 | 0.00 | 0.00 |
| **MNCS_Cms** | | | | | | | | | |
| 5,500.00 | 31.65 | 92.83 | 4,860.31 | -116.09 | 2,351.43 | 1,798.10 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 31.65 | 92.83 | 4,945.43 | -118.67 | 2,403.84 | 1,838.18 | 0.00 | 0.00 | 0.00 |
| 5,617.75 | 31.65 | 92.83 | 4,960.54 | -119.13 | 2,413.15 | 1,845.29 | 0.00 | 0.00 | 0.00 |
| **MNCS_D** | | | | | | | | | |
| 5,652.25 | 31.65 | 92.83 | 4,989.90 | -120.03 | 2,431.22 | 1,859.12 | 0.00 | 0.00 | 0.00 |
| **Begin 10°/100' build/turn** | | | | | | | | | |
| 5,700.00 | 34.62 | 99.68 | 5,029.90 | -122.93 | 2,457.13 | 1,880.03 | 10.00 | 6.21 | 14.36 |
| 5,750.00 | 38.07 | 105.79 | 5,070.18 | -129.52 | 2,485.98 | 1,905.62 | 10.00 | 6.91 | 12.21 |
| 5,753.61 | 38.33 | 106.20 | 5,073.02 | -130.13 | 2,488.12 | 1,907.61 | 10.00 | 7.22 | 11.18 |
| **MNCS_E** | | | | | | | | | |
| 5,800.00 | 41.80 | 111.00 | 5,108.53 | -139.69 | 2,516.39 | 1,934.79 | 10.00 | 7.47 | 10.35 |
| 5,839.95 | 44.92 | 114.63 | 5,137.58 | -150.34 | 2,541.65 | 1,960.53 | 10.00 | 7.82 | 9.09 |
| **MNCS_F** | | | | | | | | | |
| 5,850.00 | 45.72 | 115.47 | 5,144.64 | -153.36 | 2,548.12 | 1,967.32 | 10.00 | 7.99 | 8.46 |
| 5,900.00 | 49.80 | 119.38 | 5,178.25 | -170.44 | 2,580.94 | 2,002.97 | 10.00 | 8.16 | 7.82 |
| 5,950.00 | 54.00 | 122.84 | 5,209.10 | -190.79 | 2,614.59 | 2,041.45 | 10.00 | 8.39 | 6.92 |
| 5,963.29 | 55.13 | 123.70 | 5,216.81 | -196.74 | 2,623.65 | 2,052.13 | 10.00 | 8.51 | 6.44 |
| **MNCS_G** | | | | | | | | | |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 6,000.00 | 58.28 | 125.95 | 5,236.96 | -214.26 | 2,648.83 | 2,082.49 | 10.00 | 8.59 | 6.12 |
| 6,050.00 | 62.64 | 128.77 | 5,261.61 | -240.67 | 2,683.37 | 2,125.76 | 10.00 | 8.71 | 5.66 |
| 6,057.77 | 63.32 | 129.19 | 5,265.13 | -245.02 | 2,688.75 | 2,132.66 | 10.00 | 8.77 | 5.39 |
| **MNCS_H** | | | | | | | | | |
| 6,100.00 | 67.04 | 131.39 | 5,282.86 | -269.81 | 2,717.98 | 2,170.94 | 10.00 | 8.82 | 5.19 |
| 6,133.29 | 70.00 | 133.03 | 5,295.05 | -290.62 | 2,740.92 | 2,201.92 | 10.00 | 8.88 | 4.94 |
| **POE @ 6133.29 MD 5295.05 TVD** | | | | | | | | | |
| 6,150.00 | 71.67 | 133.03 | 5,300.53 | -301.39 | 2,752.46 | 2,217.70 | 10.00 | 10.00 | 0.00 |
| 6,187.37 | 75.41 | 133.03 | 5,311.12 | -325.84 | 2,778.64 | 2,253.53 | 10.00 | 10.00 | 0.00 |
| **MNCS_I** | | | | | | | | | |
| 6,200.00 | 76.67 | 133.03 | 5,314.17 | -334.20 | 2,787.61 | 2,265.79 | 10.00 | 10.00 | 0.00 |
| 6,250.00 | 81.67 | 133.03 | 5,323.56 | -367.71 | 2,823.49 | 2,314.88 | 10.00 | 10.00 | 0.00 |
| 6,300.00 | 86.67 | 133.03 | 5,328.64 | -401.64 | 2,859.84 | 2,364.61 | 10.00 | 10.00 | 0.00 |
| 6,338.23 | 90.49 | 133.04 | 5,329.58 | -427.71 | 2,887.77 | 2,402.81 | 10.00 | 10.00 | 0.00 |
| **Begin 90.49° lateral** | | | | | | | | | |
| 6,400.00 | 90.49 | 133.04 | 5,329.05 | -469.87 | 2,932.92 | 2,464.58 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 90.49 | 133.04 | 5,328.19 | -538.11 | 3,006.01 | 2,564.58 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 90.49 | 133.04 | 5,327.33 | -606.35 | 3,079.10 | 2,664.58 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 90.49 | 133.04 | 5,326.47 | -674.60 | 3,152.19 | 2,764.57 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.49 | 133.04 | 5,325.61 | -742.84 | 3,225.28 | 2,864.57 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.49 | 133.04 | 5,324.75 | -811.08 | 3,298.37 | 2,964.57 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.49 | 133.04 | 5,323.89 | -879.32 | 3,371.46 | 3,064.56 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.49 | 133.04 | 5,323.02 | -947.56 | 3,444.56 | 3,164.56 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.49 | 133.04 | 5,322.16 | -1,015.81 | 3,517.65 | 3,264.55 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.49 | 133.04 | 5,321.30 | -1,084.05 | 3,590.74 | 3,364.55 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.49 | 133.04 | 5,320.44 | -1,152.29 | 3,663.83 | 3,464.55 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.49 | 133.04 | 5,319.58 | -1,220.53 | 3,736.92 | 3,564.54 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.49 | 133.04 | 5,318.72 | -1,288.77 | 3,810.01 | 3,664.54 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.49 | 133.04 | 5,317.86 | -1,357.02 | 3,883.10 | 3,764.54 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.49 | 133.04 | 5,317.00 | -1,425.26 | 3,956.19 | 3,864.53 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.49 | 133.04 | 5,316.14 | -1,493.50 | 4,029.28 | 3,964.53 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.49 | 133.04 | 5,315.28 | -1,561.74 | 4,102.37 | 4,064.53 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.49 | 133.04 | 5,314.42 | -1,629.98 | 4,175.47 | 4,164.52 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.49 | 133.04 | 5,313.55 | -1,698.23 | 4,248.56 | 4,264.52 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.49 | 133.04 | 5,312.69 | -1,766.47 | 4,321.65 | 4,364.51 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.49 | 133.04 | 5,311.83 | -1,834.71 | 4,394.74 | 4,464.51 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.49 | 133.04 | 5,310.97 | -1,902.95 | 4,467.83 | 4,564.51 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.49 | 133.04 | 5,310.11 | -1,971.19 | 4,540.92 | 4,664.50 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.49 | 133.04 | 5,309.25 | -2,039.44 | 4,614.01 | 4,764.50 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.49 | 133.04 | 5,308.39 | -2,107.68 | 4,687.10 | 4,864.50 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.49 | 133.04 | 5,307.53 | -2,175.92 | 4,760.19 | 4,964.49 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.49 | 133.04 | 5,306.67 | -2,244.16 | 4,833.28 | 5,064.49 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.49 | 133.04 | 5,305.81 | -2,312.40 | 4,906.37 | 5,164.48 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.49 | 133.04 | 5,304.95 | -2,380.65 | 4,979.47 | 5,264.48 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.49 | 133.04 | 5,304.09 | -2,448.89 | 5,052.56 | 5,364.48 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.49 | 133.04 | 5,303.22 | -2,517.13 | 5,125.65 | 5,464.47 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.49 | 133.04 | 5,302.36 | -2,585.37 | 5,198.74 | 5,564.47 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.49 | 133.04 | 5,301.50 | -2,653.61 | 5,271.83 | 5,664.47 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.49 | 133.04 | 5,300.64 | -2,721.86 | 5,344.92 | 5,764.46 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.49 | 133.04 | 5,299.78 | -2,790.10 | 5,418.01 | 5,864.46 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.49 | 133.04 | 5,298.92 | -2,858.34 | 5,491.10 | 5,964.45 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.49 | 133.04 | 5,298.06 | -2,926.58 | 5,564.19 | 6,064.45 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.49 | 133.04 | 5,297.20 | -2,994.82 | 5,637.28 | 6,164.45 | 0.00 | 0.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 10,200.00 | 90.49 | 133.04 | 5,296.34 | -3,063.07 | 5,710.38 | 6,264.44 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.49 | 133.04 | 5,295.48 | -3,131.31 | 5,783.47 | 6,364.44 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.49 | 133.04 | 5,294.62 | -3,199.55 | 5,856.56 | 6,464.44 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.49 | 133.04 | 5,293.75 | -3,267.79 | 5,929.65 | 6,564.43 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.49 | 133.04 | 5,292.89 | -3,336.03 | 6,002.74 | 6,664.43 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.49 | 133.04 | 5,292.03 | -3,404.28 | 6,075.83 | 6,764.43 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.49 | 133.04 | 5,291.17 | -3,472.52 | 6,148.92 | 6,864.42 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.49 | 133.04 | 5,290.31 | -3,540.76 | 6,222.01 | 6,964.42 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 90.49 | 133.04 | 5,289.45 | -3,609.00 | 6,295.10 | 7,064.41 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 90.49 | 133.04 | 5,288.59 | -3,677.24 | 6,368.19 | 7,164.41 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 90.49 | 133.04 | 5,287.73 | -3,745.49 | 6,441.29 | 7,264.41 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 90.49 | 133.04 | 5,286.87 | -3,813.73 | 6,514.38 | 7,364.40 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 90.49 | 133.04 | 5,286.01 | -3,881.97 | 6,587.47 | 7,464.40 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 90.49 | 133.04 | 5,285.15 | -3,950.21 | 6,660.56 | 7,564.40 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 90.49 | 133.04 | 5,284.29 | -4,018.45 | 6,733.65 | 7,664.39 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 90.49 | 133.04 | 5,283.42 | -4,086.70 | 6,806.74 | 7,764.39 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 90.49 | 133.04 | 5,282.56 | -4,154.94 | 6,879.83 | 7,864.38 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 90.49 | 133.04 | 5,281.70 | -4,223.18 | 6,952.92 | 7,964.38 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 90.49 | 133.04 | 5,280.84 | -4,291.42 | 7,026.01 | 8,064.38 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 90.49 | 133.04 | 5,279.98 | -4,359.66 | 7,099.10 | 8,164.37 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 90.49 | 133.04 | 5,279.12 | -4,427.91 | 7,172.19 | 8,264.37 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 90.49 | 133.04 | 5,278.26 | -4,496.15 | 7,245.29 | 8,364.37 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 90.49 | 133.04 | 5,277.40 | -4,564.39 | 7,318.38 | 8,464.36 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 90.49 | 133.04 | 5,276.54 | -4,632.63 | 7,391.47 | 8,564.36 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 90.49 | 133.04 | 5,275.68 | -4,700.87 | 7,464.56 | 8,664.35 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 90.49 | 133.04 | 5,274.82 | -4,769.12 | 7,537.65 | 8,764.35 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 90.49 | 133.04 | 5,273.95 | -4,837.36 | 7,610.74 | 8,864.35 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 90.49 | 133.04 | 5,273.09 | -4,905.60 | 7,683.83 | 8,964.34 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 90.49 | 133.04 | 5,272.23 | -4,973.84 | 7,756.92 | 9,064.34 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 90.49 | 133.04 | 5,271.37 | -5,042.08 | 7,830.01 | 9,164.34 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 90.49 | 133.04 | 5,270.51 | -5,110.33 | 7,903.10 | 9,264.33 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 90.49 | 133.04 | 5,269.65 | -5,178.57 | 7,976.20 | 9,364.33 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 90.49 | 133.04 | 5,268.79 | -5,246.81 | 8,049.29 | 9,464.33 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 90.49 | 133.04 | 5,267.93 | -5,315.05 | 8,122.38 | 9,564.32 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 90.49 | 133.04 | 5,267.07 | -5,383.29 | 8,195.47 | 9,664.32 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 90.49 | 133.04 | 5,266.21 | -5,451.54 | 8,268.56 | 9,764.31 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 90.49 | 133.04 | 5,265.35 | -5,519.78 | 8,341.65 | 9,864.31 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 90.49 | 133.04 | 5,264.49 | -5,588.02 | 8,414.74 | 9,964.31 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 90.49 | 133.04 | 5,263.62 | -5,656.26 | 8,487.83 | 10,064.30 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 90.49 | 133.04 | 5,262.76 | -5,724.50 | 8,560.92 | 10,164.30 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 90.49 | 133.04 | 5,261.90 | -5,792.75 | 8,634.01 | 10,264.30 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 90.49 | 133.04 | 5,261.04 | -5,860.99 | 8,707.10 | 10,364.29 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 90.49 | 133.04 | 5,260.18 | -5,929.23 | 8,780.20 | 10,464.29 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 90.49 | 133.04 | 5,259.32 | -5,997.47 | 8,853.29 | 10,564.28 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 90.49 | 133.04 | 5,258.46 | -6,065.71 | 8,926.38 | 10,664.28 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 90.49 | 133.04 | 5,257.60 | -6,133.96 | 8,999.47 | 10,764.28 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 90.49 | 133.04 | 5,256.74 | -6,202.20 | 9,072.56 | 10,864.27 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 90.49 | 133.04 | 5,255.88 | -6,270.44 | 9,145.65 | 10,964.27 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 90.49 | 133.04 | 5,255.02 | -6,338.68 | 9,218.74 | 11,064.27 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 90.49 | 133.04 | 5,254.15 | -6,406.92 | 9,291.83 | 11,164.26 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 90.49 | 133.04 | 5,253.29 | -6,475.17 | 9,364.92 | 11,264.26 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 90.49 | 133.04 | 5,252.43 | -6,543.41 | 9,438.01 | 11,364.25 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 90.49 | 133.04 | 5,251.57 | -6,611.65 | 9,511.11 | 11,464.25 | 0.00 | 0.00 | 0.00 |
| 15,466.45 | 90.49 | 133.04 | 5,251.00 | -6,657.00 | 9,559.67 | 11,530.70 | 0.00 | 0.00 | 0.00 |

# Planning Report

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| **PBHL @ 15466.45 MD 5251.00 TVD** | | | | | | | | | |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 350.00 | 350.00 | | 13-3/8 | 17-1/2 |
| 3,632.96 | 3,271.00 | | 9-5/8 | 12-1/4 |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 832.49 | 830.82 | Ojo Alamo | | -0.48 | 133.03 |
| 960.08 | 955.65 | Kirtland | | -0.48 | 133.03 |
| 1,265.35 | 1,245.03 | Fruitland | | -0.48 | 133.03 |
| 1,656.83 | 1,588.84 | Pictured Cliffs | | -0.48 | 133.03 |
| 1,785.55 | 1,698.41 | Lewis | | -0.48 | 133.03 |
| 2,136.59 | 1,997.23 | Chacra_A | | -0.48 | 133.03 |
| 3,412.04 | 3,082.95 | Cliff House_Basal | | -0.48 | 133.03 |
| 3,447.14 | 3,112.83 | Menefee | | -0.48 | 133.03 |
| 4,541.22 | 4,044.16 | Point Lookout | | -0.48 | 133.03 |
| 4,778.76 | 4,246.36 | Mancos | | -0.48 | 133.03 |
| 5,208.20 | 4,611.92 | MNCS_A | | -0.48 | 133.03 |
| 5,305.33 | 4,694.59 | MNCS_B | | -0.48 | 133.03 |
| 5,424.68 | 4,796.19 | MNCS_C | | -0.48 | 133.03 |
| 5,477.34 | 4,841.01 | MNCS_Cms | | -0.48 | 133.03 |
| 5,617.75 | 4,960.54 | MNCS_D | | -0.48 | 133.03 |
| 5,753.61 | 5,073.02 | MNCS_E | | -0.48 | 133.03 |
| 5,839.95 | 5,137.58 | MNCS_F | | -0.48 | 133.03 |
| 5,963.29 | 5,216.81 | MNCS_G | | -0.48 | 133.03 |
| 6,057.77 | 5,265.13 | MNCS_H | | -0.48 | 133.03 |
| 6,187.37 | 5,311.12 | MNCS_I | | -0.48 | 133.03 |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 500.00 | 500.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 1,555.10 | 1,502.25 | -14.01 | 283.76 | Begin 31.65° tangent |
| 5,652.25 | 4,989.90 | -120.03 | 2,431.22 | Begin 10°/100' build/turn |
| 6,133.29 | 5,295.05 | -290.62 | 2,740.92 | POE @ 6133.29 MD 5295.05 TVD |
| 6,338.23 | 5,329.58 | -427.71 | 2,887.77 | Begin 90.49° lateral |
| 15,466.45 | 5,251.00 | -6,657.00 | 9,559.67 | PBHL @ 15466.45 MD 5251.00 TVD |

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Project** San Juan County, New Mexico NAD83 NM W

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | New Mexico Western Zone | | |

**Site** Nageezi Unit (213, 214, 215, 216, 217 & 218)

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 1,922,205.14 usft | **Latitude:** | 36.28268900 |
| **From:** | Lat/Long | **Easting:** | 2,743,140.65 usft | **Longitude:** | -107.76530800 |
| **Position Uncertainty:** | 0.00 ft | **Slot Radius:** | 13-3/16 " | | |

**Well** Nageezi Unit 218H, Surf loc: 1705 FSL 754 FWL Section 26-T24N-R09W

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.00 ft | **Northing:** | 1,922,167.99 usft | **Latitude:** | 36.28258700 |
| | **+E/-W** | 0.00 ft | **Easting:** | 2,743,125.64 usft | **Longitude:** | -107.76535900 |
| **Position Uncertainty** | | 0.00 ft | **Wellhead Elevation:** | ft | **Ground Level:** | 6,826.00 ft |
| **Grid Convergence:** | | 0.04 ° | | | | |

**Wellbore** Original Hole

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2020 | 2/8/2024 | 8.53 | 62.73 | 49,065.92430133 |

**Design** rev0

**Audit Notes:**

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

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.00 | 0.00 | 0.00 | 133.03 |

**Plan Survey Tool Program** **Date** 2/8/2024

| | Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks |
|---|---|---|---|---|---|
| 1 | 0.00 | 15,466.40 | rev0 (Original Hole) | MWD<br>OWSG MWD - Standard | |

**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 | |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,555.10 | 31.65 | 92.83 | 1,502.25 | -14.01 | 283.76 | 3.00 | 3.00 | 0.00 | 92.83 | |
| 5,652.25 | 31.65 | 92.83 | 4,989.90 | -120.03 | 2,431.22 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,133.29 | 70.00 | 133.03 | 5,295.05 | -290.62 | 2,740.92 | 10.00 | 7.97 | 8.36 | 54.58 | Nageezi 218H PPP/P |
| 6,338.23 | 90.49 | 133.04 | 5,329.58 | -427.71 | 2,887.77 | 10.00 | 10.00 | 0.00 | 0.01 | |
| 15,466.45 | 90.49 | 133.04 | 5,251.00 | -6,657.00 | 9,559.67 | 0.00 | 0.00 | 0.00 | 0.00 | Nageezi 218H BHL 2 |

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 350.00 | 0.00 | 0.00 | 350.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 1,922,167.99 | 2,743,125.64 | 36.28258700 | -107.76535900 |
| **KOP Begin 3°/100' build** | | | | | | | | | |
| 600.00 | 3.00 | 92.83 | 599.95 | -0.13 | 2.61 | 1,922,167.87 | 2,743,128.26 | 36.28258664 | -107.76535014 |
| 700.00 | 6.00 | 92.83 | 699.63 | -0.52 | 10.45 | 1,922,167.48 | 2,743,136.09 | 36.28258556 | -107.76532355 |
| 800.00 | 9.00 | 92.83 | 798.77 | -1.16 | 23.48 | 1,922,166.83 | 2,743,149.13 | 36.28258377 | -107.76527932 |
| 832.49 | 9.97 | 92.83 | 830.82 | -1.42 | 28.83 | 1,922,166.57 | 2,743,154.48 | 36.28258303 | -107.76526118 |
| **Ojo Alamo** | | | | | | | | | |
| 900.00 | 12.00 | 92.83 | 897.08 | -2.06 | 41.68 | 1,922,165.94 | 2,743,167.33 | 36.28258127 | -107.76521758 |
| 960.08 | 13.80 | 92.83 | 955.65 | -2.72 | 55.08 | 1,922,165.27 | 2,743,180.73 | 36.28257942 | -107.76517212 |
| **Kirtland** | | | | | | | | | |
| 1,000.00 | 15.00 | 92.83 | 994.31 | -3.21 | 65.00 | 1,922,164.79 | 2,743,190.64 | 36.28257806 | -107.76513848 |
| 1,100.00 | 18.00 | 92.83 | 1,090.18 | -4.61 | 93.36 | 1,922,163.39 | 2,743,219.01 | 36.28257416 | -107.76504225 |
| 1,200.00 | 21.00 | 92.83 | 1,184.43 | -6.25 | 126.70 | 1,922,161.74 | 2,743,252.34 | 36.28256957 | -107.76492914 |
| 1,265.35 | 22.96 | 92.83 | 1,245.03 | -7.46 | 151.13 | 1,922,160.53 | 2,743,276.77 | 36.28256621 | -107.76484626 |
| **Fruitland** | | | | | | | | | |
| 1,300.00 | 24.00 | 92.83 | 1,276.81 | -8.14 | 164.92 | 1,922,159.85 | 2,743,290.56 | 36.28256432 | -107.76479948 |
| 1,400.00 | 27.00 | 92.83 | 1,367.06 | -10.26 | 207.91 | 1,922,157.73 | 2,743,333.55 | 36.28255840 | -107.76465361 |
| 1,500.00 | 30.00 | 92.83 | 1,454.93 | -12.62 | 255.56 | 1,922,155.38 | 2,743,381.20 | 36.28255185 | -107.76449193 |
| 1,555.10 | 31.65 | 92.83 | 1,502.25 | -14.01 | 283.76 | 1,922,153.99 | 2,743,409.41 | 36.28254797 | -107.76439625 |
| **Begin 31.65° tangent** | | | | | | | | | |
| 1,600.00 | 31.65 | 92.83 | 1,540.46 | -15.17 | 307.30 | 1,922,152.82 | 2,743,432.94 | 36.28254473 | -107.76431641 |
| 1,656.83 | 31.65 | 92.83 | 1,588.84 | -16.64 | 337.08 | 1,922,151.35 | 2,743,462.73 | 36.28254063 | -107.76421535 |
| **Pictured Cliffs** | | | | | | | | | |
| 1,700.00 | 31.65 | 92.83 | 1,625.59 | -17.76 | 359.71 | 1,922,150.24 | 2,743,485.35 | 36.28253752 | -107.76413858 |
| 1,785.55 | 31.65 | 92.83 | 1,698.41 | -19.97 | 404.55 | 1,922,148.02 | 2,743,530.19 | 36.28253135 | -107.76398645 |
| **Lewis** | | | | | | | | | |
| 1,800.00 | 31.65 | 92.83 | 1,710.71 | -20.35 | 412.12 | 1,922,147.65 | 2,743,537.77 | 36.28253031 | -107.76396075 |
| 1,900.00 | 31.65 | 92.83 | 1,795.84 | -22.93 | 464.54 | 1,922,145.06 | 2,743,590.18 | 36.28252310 | -107.76378292 |
| 2,000.00 | 31.65 | 92.83 | 1,880.96 | -25.52 | 516.95 | 1,922,142.47 | 2,743,642.59 | 36.28251588 | -107.76360509 |
| 2,100.00 | 31.65 | 92.83 | 1,966.09 | -28.11 | 569.36 | 1,922,139.89 | 2,743,695.01 | 36.28250867 | -107.76342726 |
| 2,136.59 | 31.65 | 92.83 | 1,997.23 | -29.06 | 588.54 | 1,922,138.94 | 2,743,714.18 | 36.28250603 | -107.76336219 |
| **Chacra_A** | | | | | | | | | |
| 2,200.00 | 31.65 | 92.83 | 2,051.21 | -30.70 | 621.78 | 1,922,137.30 | 2,743,747.42 | 36.28250146 | -107.76324943 |
| 2,300.00 | 31.65 | 92.83 | 2,136.33 | -33.28 | 674.19 | 1,922,134.71 | 2,743,799.83 | 36.28249425 | -107.76307160 |
| 2,400.00 | 31.65 | 92.83 | 2,221.46 | -35.87 | 726.60 | 1,922,132.12 | 2,743,852.25 | 36.28248703 | -107.76289377 |
| 2,500.00 | 31.65 | 92.83 | 2,306.58 | -38.46 | 779.02 | 1,922,129.54 | 2,743,904.66 | 36.28247982 | -107.76271594 |
| 2,600.00 | 31.65 | 92.83 | 2,391.71 | -41.05 | 831.43 | 1,922,126.95 | 2,743,957.07 | 36.28247261 | -107.76253811 |
| 2,700.00 | 31.65 | 92.83 | 2,476.83 | -43.63 | 883.85 | 1,922,124.36 | 2,744,009.49 | 36.28246539 | -107.76236028 |
| 2,800.00 | 31.65 | 92.83 | 2,561.95 | -46.22 | 936.26 | 1,922,121.77 | 2,744,061.90 | 36.28245818 | -107.76218245 |
| 2,900.00 | 31.65 | 92.83 | 2,647.08 | -48.81 | 988.67 | 1,922,119.19 | 2,744,114.31 | 36.28245097 | -107.76200462 |
| 3,000.00 | 31.65 | 92.83 | 2,732.20 | -51.40 | 1,041.09 | 1,922,116.60 | 2,744,166.73 | 36.28244375 | -107.76182679 |
| 3,100.00 | 31.65 | 92.83 | 2,817.33 | -53.98 | 1,093.50 | 1,922,114.01 | 2,744,219.14 | 36.28243654 | -107.76164896 |
| 3,200.00 | 31.65 | 92.83 | 2,902.45 | -56.57 | 1,145.91 | 1,922,111.42 | 2,744,271.56 | 36.28242932 | -107.76147113 |
| 3,300.00 | 31.65 | 92.83 | 2,987.57 | -59.16 | 1,198.33 | 1,922,108.83 | 2,744,323.97 | 36.28242211 | -107.76129330 |
| 3,400.00 | 31.65 | 92.83 | 3,072.70 | -61.75 | 1,250.74 | 1,922,106.25 | 2,744,376.38 | 36.28241489 | -107.76111547 |
| 3,412.04 | 31.65 | 92.83 | 3,082.95 | -62.06 | 1,257.05 | 1,922,105.94 | 2,744,382.69 | 36.28241402 | -107.76109406 |
| **Cliff House_Basal** | | | | | | | | | |

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 3,447.14 | 31.65 | 92.83 | 3,112.83 | -62.97 | 1,275.45 | 1,922,105.03 | 2,744,401.09 | 36.28241149 | -107.76103163 |
| **Menefee** | | | | | | | | | |
| 3,500.00 | 31.65 | 92.83 | 3,157.82 | -64.33 | 1,303.15 | 1,922,103.66 | 2,744,428.80 | 36.28240768 | -107.76093764 |
| 3,600.00 | 31.65 | 92.83 | 3,242.95 | -66.92 | 1,355.57 | 1,922,101.07 | 2,744,481.21 | 36.28240046 | -107.76075981 |
| 3,632.96 | 31.65 | 92.83 | 3,271.00 | -67.77 | 1,372.84 | 1,922,100.22 | 2,744,498.48 | 36.28239808 | -107.76070121 |
| 3,700.00 | 31.65 | 92.83 | 3,328.07 | -69.51 | 1,407.98 | 1,922,098.48 | 2,744,533.62 | 36.28239324 | -107.76058198 |
| 3,800.00 | 31.65 | 92.83 | 3,413.20 | -72.10 | 1,460.40 | 1,922,095.90 | 2,744,586.04 | 36.28238603 | -107.76040415 |
| 3,900.00 | 31.65 | 92.83 | 3,498.32 | -74.68 | 1,512.81 | 1,922,093.31 | 2,744,638.45 | 36.28237881 | -107.76022632 |
| 4,000.00 | 31.65 | 92.83 | 3,583.44 | -77.27 | 1,565.22 | 1,922,090.72 | 2,744,690.86 | 36.28237159 | -107.76004849 |
| 4,100.00 | 31.65 | 92.83 | 3,668.57 | -79.86 | 1,617.64 | 1,922,088.13 | 2,744,743.28 | 36.28236438 | -107.75987066 |
| 4,200.00 | 31.65 | 92.83 | 3,753.69 | -82.45 | 1,670.05 | 1,922,085.55 | 2,744,795.69 | 36.28235716 | -107.75969283 |
| 4,300.00 | 31.65 | 92.83 | 3,838.82 | -85.03 | 1,722.46 | 1,922,082.96 | 2,744,848.10 | 36.28234994 | -107.75951500 |
| 4,400.00 | 31.65 | 92.83 | 3,923.94 | -87.62 | 1,774.88 | 1,922,080.37 | 2,744,900.52 | 36.28234272 | -107.75933718 |
| 4,500.00 | 31.65 | 92.83 | 4,009.06 | -90.21 | 1,827.29 | 1,922,077.78 | 2,744,952.93 | 36.28233550 | -107.75915935 |
| 4,541.22 | 31.65 | 92.83 | 4,044.16 | -91.28 | 1,848.90 | 1,922,076.72 | 2,744,974.54 | 36.28233253 | -107.75908604 |
| **Point Lookout** | | | | | | | | | |
| 4,600.00 | 31.65 | 92.83 | 4,094.19 | -92.80 | 1,879.70 | 1,922,075.20 | 2,745,005.34 | 36.28232828 | -107.75898152 |
| 4,700.00 | 31.65 | 92.83 | 4,179.31 | -95.39 | 1,932.12 | 1,922,072.61 | 2,745,057.76 | 36.28232107 | -107.75880369 |
| 4,778.76 | 31.65 | 92.83 | 4,246.36 | -97.42 | 1,973.40 | 1,922,070.57 | 2,745,099.04 | 36.28231538 | -107.75866363 |
| **Mancos** | | | | | | | | | |
| 4,800.00 | 31.65 | 92.83 | 4,264.44 | -97.97 | 1,984.53 | 1,922,070.02 | 2,745,110.17 | 36.28231385 | -107.75862586 |
| 4,900.00 | 31.65 | 92.83 | 4,349.56 | -100.56 | 2,036.95 | 1,922,067.43 | 2,745,162.59 | 36.28230663 | -107.75844803 |
| 5,000.00 | 31.65 | 92.83 | 4,434.68 | -103.15 | 2,089.36 | 1,922,064.85 | 2,745,215.00 | 36.28229941 | -107.75827020 |
| 5,100.00 | 31.65 | 92.83 | 4,519.81 | -105.74 | 2,141.77 | 1,922,062.26 | 2,745,267.41 | 36.28229219 | -107.75809237 |
| 5,200.00 | 31.65 | 92.83 | 4,604.93 | -108.32 | 2,194.19 | 1,922,059.67 | 2,745,319.83 | 36.28228497 | -107.75791454 |
| 5,208.20 | 31.65 | 92.83 | 4,611.92 | -108.54 | 2,198.49 | 1,922,059.46 | 2,745,324.13 | 36.28228438 | -107.75789995 |
| **MNCS_A** | | | | | | | | | |
| 5,300.00 | 31.65 | 92.83 | 4,690.06 | -110.91 | 2,246.60 | 1,922,057.08 | 2,745,372.24 | 36.28227775 | -107.75773671 |
| 5,305.33 | 31.65 | 92.83 | 4,694.59 | -111.05 | 2,249.39 | 1,922,056.95 | 2,745,375.03 | 36.28227736 | -107.75772724 |
| **MNCS_B** | | | | | | | | | |
| 5,400.00 | 31.65 | 92.83 | 4,775.18 | -113.50 | 2,299.01 | 1,922,054.50 | 2,745,424.65 | 36.28227053 | -107.75755888 |
| 5,424.68 | 31.65 | 92.83 | 4,796.19 | -114.14 | 2,311.95 | 1,922,053.86 | 2,745,437.59 | 36.28226874 | -107.75751500 |
| **MNCS_C** | | | | | | | | | |
| 5,477.34 | 31.65 | 92.83 | 4,841.01 | -115.50 | 2,339.55 | 1,922,052.50 | 2,745,465.19 | 36.28226494 | -107.75742136 |
| **MNCS_Cms** | | | | | | | | | |
| 5,500.00 | 31.65 | 92.83 | 4,860.31 | -116.09 | 2,351.43 | 1,922,051.91 | 2,745,477.07 | 36.28226331 | -107.75738106 |
| 5,600.00 | 31.65 | 92.83 | 4,945.43 | -118.67 | 2,403.84 | 1,922,049.32 | 2,745,529.48 | 36.28225608 | -107.75720323 |
| 5,617.75 | 31.65 | 92.83 | 4,960.54 | -119.13 | 2,413.15 | 1,922,048.86 | 2,745,538.78 | 36.28225480 | -107.75717166 |
| **MNCS_D** | | | | | | | | | |
| 5,652.25 | 31.65 | 92.83 | 4,989.90 | -120.03 | 2,431.22 | 1,922,047.97 | 2,745,556.86 | 36.28225231 | -107.75711032 |
| **Begin 10°/100' build/turn** | | | | | | | | | |
| 5,700.00 | 34.62 | 99.68 | 5,029.90 | -122.93 | 2,457.13 | 1,922,045.07 | 2,745,582.76 | 36.28224428 | -107.75702245 |
| 5,750.00 | 38.07 | 105.79 | 5,070.18 | -129.52 | 2,485.98 | 1,922,038.48 | 2,745,611.62 | 36.28222612 | -107.75692457 |
| 5,753.61 | 38.33 | 106.20 | 5,073.02 | -130.13 | 2,488.12 | 1,922,037.86 | 2,745,613.76 | 36.28222443 | -107.75691729 |
| **MNCS_E** | | | | | | | | | |
| 5,800.00 | 41.80 | 111.00 | 5,108.53 | -139.69 | 2,516.39 | 1,922,028.31 | 2,745,642.03 | 36.28219811 | -107.75682142 |
| 5,839.95 | 44.92 | 114.63 | 5,137.58 | -150.34 | 2,541.65 | 1,922,017.65 | 2,745,667.29 | 36.28216880 | -107.75673573 |
| **MNCS_F** | | | | | | | | | |
| 5,850.00 | 45.72 | 115.47 | 5,144.64 | -153.36 | 2,548.12 | 1,922,014.63 | 2,745,673.76 | 36.28216047 | -107.75671378 |
| 5,900.00 | 49.80 | 119.38 | 5,178.25 | -170.44 | 2,580.94 | 1,921,997.55 | 2,745,706.58 | 36.28211348 | -107.75660248 |
| 5,950.00 | 54.00 | 122.84 | 5,209.10 | -190.79 | 2,614.59 | 1,921,977.20 | 2,745,740.23 | 36.28205751 | -107.75648835 |
| 5,963.29 | 55.13 | 123.70 | 5,216.81 | -196.74 | 2,623.65 | 1,921,971.26 | 2,745,749.29 | 36.28204116 | -107.75645764 |
| **MNCS_G** | | | | | | | | | |

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 6,000.00 | 58.28 | 125.95 | 5,236.96 | -214.26 | 2,648.83 | 1,921,953.73 | 2,745,774.46 | 36.28199297 | -107.75637227 |
| 6,050.00 | 62.64 | 128.77 | 5,261.61 | -240.67 | 2,683.37 | 1,921,927.33 | 2,745,809.01 | 36.28192036 | -107.75625512 |
| 6,057.77 | 63.32 | 129.19 | 5,265.13 | -245.02 | 2,688.75 | 1,921,922.98 | 2,745,814.39 | 36.28190839 | -107.75623688 |
| **MNCS_H** | | | | | | | | | |
| 6,100.00 | 67.04 | 131.39 | 5,282.86 | -269.81 | 2,717.98 | 1,921,898.19 | 2,745,843.62 | 36.28184023 | -107.75613779 |
| 6,133.29 | 70.00 | 133.03 | 5,295.05 | -290.62 | 2,740.92 | 1,921,877.37 | 2,745,866.56 | 36.28178300 | -107.75606000 |
| **POE @ 6133.29 MD 5295.05 TVD** | | | | | | | | | |
| 6,150.00 | 71.67 | 133.03 | 5,300.53 | -301.39 | 2,752.46 | 1,921,866.61 | 2,745,878.09 | 36.28175340 | -107.75602090 |
| 6,187.37 | 75.41 | 133.03 | 5,311.12 | -325.84 | 2,778.64 | 1,921,842.16 | 2,745,904.28 | 36.28168618 | -107.75593210 |
| **MNCS_I** | | | | | | | | | |
| 6,200.00 | 76.67 | 133.03 | 5,314.17 | -334.20 | 2,787.61 | 1,921,833.79 | 2,745,913.25 | 36.28166317 | -107.75590172 |
| 6,250.00 | 81.67 | 133.03 | 5,323.56 | -367.71 | 2,823.49 | 1,921,800.29 | 2,745,949.13 | 36.28157106 | -107.75578005 |
| 6,300.00 | 86.67 | 133.03 | 5,328.64 | -401.64 | 2,859.84 | 1,921,766.35 | 2,745,985.48 | 36.28147776 | -107.75565682 |
| 6,338.23 | 90.49 | 133.04 | 5,329.58 | -427.71 | 2,887.77 | 1,921,740.28 | 2,746,013.41 | 36.28140607 | -107.75556214 |
| **Begin 90.49° lateral** | | | | | | | | | |
| 6,400.00 | 90.49 | 133.04 | 5,329.05 | -469.87 | 2,932.92 | 1,921,698.12 | 2,746,058.56 | 36.28129017 | -107.75540906 |
| 6,500.00 | 90.49 | 133.04 | 5,328.19 | -538.11 | 3,006.01 | 1,921,629.88 | 2,746,131.65 | 36.28110254 | -107.75516126 |
| 6,600.00 | 90.49 | 133.04 | 5,327.33 | -606.35 | 3,079.10 | 1,921,561.64 | 2,746,204.74 | 36.28091492 | -107.75491346 |
| 6,700.00 | 90.49 | 133.04 | 5,326.47 | -674.60 | 3,152.19 | 1,921,493.40 | 2,746,277.83 | 36.28072729 | -107.75466566 |
| 6,800.00 | 90.49 | 133.04 | 5,325.61 | -742.84 | 3,225.28 | 1,921,425.16 | 2,746,350.92 | 36.28053966 | -107.75441786 |
| 6,900.00 | 90.49 | 133.04 | 5,324.75 | -811.08 | 3,298.37 | 1,921,356.92 | 2,746,424.01 | 36.28035203 | -107.75417006 |
| 7,000.00 | 90.49 | 133.04 | 5,323.89 | -879.32 | 3,371.46 | 1,921,288.67 | 2,746,497.10 | 36.28016440 | -107.75392226 |
| 7,100.00 | 90.49 | 133.04 | 5,323.02 | -947.56 | 3,444.56 | 1,921,220.43 | 2,746,570.19 | 36.27997677 | -107.75367447 |
| 7,200.00 | 90.49 | 133.04 | 5,322.16 | -1,015.81 | 3,517.65 | 1,921,152.19 | 2,746,643.28 | 36.27978914 | -107.75342667 |
| 7,300.00 | 90.49 | 133.04 | 5,321.30 | -1,084.05 | 3,590.74 | 1,921,083.95 | 2,746,716.37 | 36.27960151 | -107.75317888 |
| 7,400.00 | 90.49 | 133.04 | 5,320.44 | -1,152.29 | 3,663.83 | 1,921,015.71 | 2,746,789.47 | 36.27941388 | -107.75293109 |
| 7,500.00 | 90.49 | 133.04 | 5,319.58 | -1,220.53 | 3,736.92 | 1,920,947.46 | 2,746,862.56 | 36.27922625 | -107.75268330 |
| 7,600.00 | 90.49 | 133.04 | 5,318.72 | -1,288.77 | 3,810.01 | 1,920,879.22 | 2,746,935.65 | 36.27903862 | -107.75243551 |
| 7,700.00 | 90.49 | 133.04 | 5,317.86 | -1,357.02 | 3,883.10 | 1,920,810.98 | 2,747,008.74 | 36.27885098 | -107.75218772 |
| 7,800.00 | 90.49 | 133.04 | 5,317.00 | -1,425.26 | 3,956.19 | 1,920,742.74 | 2,747,081.83 | 36.27866335 | -107.75193993 |
| 7,900.00 | 90.49 | 133.04 | 5,316.14 | -1,493.50 | 4,029.28 | 1,920,674.50 | 2,747,154.92 | 36.27847572 | -107.75169215 |
| 8,000.00 | 90.49 | 133.04 | 5,315.28 | -1,561.74 | 4,102.37 | 1,920,606.25 | 2,747,228.01 | 36.27828808 | -107.75144436 |
| 8,100.00 | 90.49 | 133.04 | 5,314.42 | -1,629.98 | 4,175.47 | 1,920,538.01 | 2,747,301.10 | 36.27810045 | -107.75119658 |
| 8,200.00 | 90.49 | 133.04 | 5,313.55 | -1,698.23 | 4,248.56 | 1,920,469.77 | 2,747,374.19 | 36.27791281 | -107.75094880 |
| 8,300.00 | 90.49 | 133.04 | 5,312.69 | -1,766.47 | 4,321.65 | 1,920,401.53 | 2,747,447.28 | 36.27772518 | -107.75070102 |
| 8,400.00 | 90.49 | 133.04 | 5,311.83 | -1,834.71 | 4,394.74 | 1,920,333.29 | 2,747,520.37 | 36.27753754 | -107.75045324 |
| 8,500.00 | 90.49 | 133.04 | 5,310.97 | -1,902.95 | 4,467.83 | 1,920,265.05 | 2,747,593.46 | 36.27734990 | -107.75020546 |
| 8,600.00 | 90.49 | 133.04 | 5,310.11 | -1,971.19 | 4,540.92 | 1,920,196.80 | 2,747,666.56 | 36.27716226 | -107.74995768 |
| 8,700.00 | 90.49 | 133.04 | 5,309.25 | -2,039.44 | 4,614.01 | 1,920,128.56 | 2,747,739.65 | 36.27697463 | -107.74970990 |
| 8,800.00 | 90.49 | 133.04 | 5,308.39 | -2,107.68 | 4,687.10 | 1,920,060.32 | 2,747,812.74 | 36.27678699 | -107.74946213 |
| 8,900.00 | 90.49 | 133.04 | 5,307.53 | -2,175.92 | 4,760.19 | 1,919,992.08 | 2,747,885.83 | 36.27659935 | -107.74921436 |
| 9,000.00 | 90.49 | 133.04 | 5,306.67 | -2,244.16 | 4,833.28 | 1,919,923.84 | 2,747,958.92 | 36.27641171 | -107.74896658 |
| 9,100.00 | 90.49 | 133.04 | 5,305.81 | -2,312.40 | 4,906.37 | 1,919,855.59 | 2,748,032.01 | 36.27622407 | -107.74871881 |
| 9,200.00 | 90.49 | 133.04 | 5,304.95 | -2,380.65 | 4,979.47 | 1,919,787.35 | 2,748,105.10 | 36.27603643 | -107.74847104 |
| 9,300.00 | 90.49 | 133.04 | 5,304.09 | -2,448.89 | 5,052.56 | 1,919,719.11 | 2,748,178.19 | 36.27584879 | -107.74822327 |
| 9,400.00 | 90.49 | 133.04 | 5,303.22 | -2,517.13 | 5,125.65 | 1,919,650.87 | 2,748,251.28 | 36.27566115 | -107.74797550 |
| 9,500.00 | 90.49 | 133.04 | 5,302.36 | -2,585.37 | 5,198.74 | 1,919,582.63 | 2,748,324.37 | 36.27547350 | -107.74772774 |
| 9,600.00 | 90.49 | 133.04 | 5,301.50 | -2,653.61 | 5,271.83 | 1,919,514.38 | 2,748,397.46 | 36.27528586 | -107.74747997 |
| 9,700.00 | 90.49 | 133.04 | 5,300.64 | -2,721.86 | 5,344.92 | 1,919,446.14 | 2,748,470.55 | 36.27509822 | -107.74723221 |
| 9,800.00 | 90.49 | 133.04 | 5,299.78 | -2,790.10 | 5,418.01 | 1,919,377.90 | 2,748,543.64 | 36.27491058 | -107.74698444 |
| 9,900.00 | 90.49 | 133.04 | 5,298.92 | -2,858.34 | 5,491.10 | 1,919,309.66 | 2,748,616.74 | 36.27472293 | -107.74673668 |
| 10,000.00 | 90.49 | 133.04 | 5,298.06 | -2,926.58 | 5,564.19 | 1,919,241.42 | 2,748,689.83 | 36.27453529 | -107.74648892 |
| 10,100.00 | 90.49 | 133.04 | 5,297.20 | -2,994.82 | 5,637.28 | 1,919,173.18 | 2,748,762.92 | 36.27434764 | -107.74624116 |
| 10,200.00 | 90.49 | 133.04 | 5,296.34 | -3,063.07 | 5,710.38 | 1,919,104.93 | 2,748,836.01 | 36.27416000 | -107.74599340 |

# Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Map Northing (usft) | Map Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| 10,300.00 | 90.49 | 133.04 | 5,295.48 | -3,131.31 | 5,783.47 | 1,919,036.69 | 2,748,909.10 | 36.27397235 | -107.74574564 |
| 10,400.00 | 90.49 | 133.04 | 5,294.62 | -3,199.55 | 5,856.56 | 1,918,968.45 | 2,748,982.19 | 36.27378470 | -107.74549789 |
| 10,500.00 | 90.49 | 133.04 | 5,293.75 | -3,267.79 | 5,929.65 | 1,918,900.21 | 2,749,055.28 | 36.27359705 | -107.74525013 |
| 10,600.00 | 90.49 | 133.04 | 5,292.89 | -3,336.03 | 6,002.74 | 1,918,831.97 | 2,749,128.37 | 36.27340941 | -107.74500238 |
| 10,700.00 | 90.49 | 133.04 | 5,292.03 | -3,404.28 | 6,075.83 | 1,918,763.72 | 2,749,201.46 | 36.27322176 | -107.74475463 |
| 10,800.00 | 90.49 | 133.04 | 5,291.17 | -3,472.52 | 6,148.92 | 1,918,695.48 | 2,749,274.55 | 36.27303411 | -107.74450688 |
| 10,900.00 | 90.49 | 133.04 | 5,290.31 | -3,540.76 | 6,222.01 | 1,918,627.24 | 2,749,347.64 | 36.27284646 | -107.74425913 |
| 11,000.00 | 90.49 | 133.04 | 5,289.45 | -3,609.00 | 6,295.10 | 1,918,559.00 | 2,749,420.73 | 36.27265881 | -107.74401138 |
| 11,100.00 | 90.49 | 133.04 | 5,288.59 | -3,677.24 | 6,368.19 | 1,918,490.76 | 2,749,493.83 | 36.27247116 | -107.74376363 |
| 11,200.00 | 90.49 | 133.04 | 5,287.73 | -3,745.49 | 6,441.29 | 1,918,422.51 | 2,749,566.92 | 36.27228351 | -107.74351588 |
| 11,300.00 | 90.49 | 133.04 | 5,286.87 | -3,813.73 | 6,514.38 | 1,918,354.27 | 2,749,640.01 | 36.27209586 | -107.74326814 |
| 11,400.00 | 90.49 | 133.04 | 5,286.01 | -3,881.97 | 6,587.47 | 1,918,286.03 | 2,749,713.10 | 36.27190821 | -107.74302039 |
| 11,500.00 | 90.49 | 133.04 | 5,285.15 | -3,950.21 | 6,660.56 | 1,918,217.79 | 2,749,786.19 | 36.27172055 | -107.74277265 |
| 11,600.00 | 90.49 | 133.04 | 5,284.29 | -4,018.45 | 6,733.65 | 1,918,149.55 | 2,749,859.28 | 36.27153290 | -107.74252491 |
| 11,700.00 | 90.49 | 133.04 | 5,283.42 | -4,086.70 | 6,806.74 | 1,918,081.31 | 2,749,932.37 | 36.27134525 | -107.74227717 |
| 11,800.00 | 90.49 | 133.04 | 5,282.56 | -4,154.94 | 6,879.83 | 1,918,013.06 | 2,750,005.46 | 36.27115759 | -107.74202943 |
| 11,900.00 | 90.49 | 133.04 | 5,281.70 | -4,223.18 | 6,952.92 | 1,917,944.82 | 2,750,078.55 | 36.27096994 | -107.74178169 |
| 12,000.00 | 90.49 | 133.04 | 5,280.84 | -4,291.42 | 7,026.01 | 1,917,876.58 | 2,750,151.64 | 36.27078228 | -107.74153395 |
| 12,100.00 | 90.49 | 133.04 | 5,279.98 | -4,359.66 | 7,099.10 | 1,917,808.34 | 2,750,224.73 | 36.27059463 | -107.74128622 |
| 12,200.00 | 90.49 | 133.04 | 5,279.12 | -4,427.91 | 7,172.19 | 1,917,740.10 | 2,750,297.82 | 36.27040697 | -107.74103848 |
| 12,300.00 | 90.49 | 133.04 | 5,278.26 | -4,496.15 | 7,245.29 | 1,917,671.85 | 2,750,370.92 | 36.27021932 | -107.74079075 |
| 12,400.00 | 90.49 | 133.04 | 5,277.40 | -4,564.39 | 7,318.38 | 1,917,603.61 | 2,750,444.01 | 36.27003166 | -107.74054301 |
| 12,500.00 | 90.49 | 133.04 | 5,276.54 | -4,632.63 | 7,391.47 | 1,917,535.37 | 2,750,517.10 | 36.26984400 | -107.74029528 |
| 12,600.00 | 90.49 | 133.04 | 5,275.68 | -4,700.87 | 7,464.56 | 1,917,467.13 | 2,750,590.19 | 36.26965634 | -107.74004755 |
| 12,700.00 | 90.49 | 133.04 | 5,274.82 | -4,769.12 | 7,537.65 | 1,917,398.89 | 2,750,663.28 | 36.26946868 | -107.73979982 |
| 12,800.00 | 90.49 | 133.04 | 5,273.95 | -4,837.36 | 7,610.74 | 1,917,330.65 | 2,750,736.37 | 36.26928102 | -107.73955210 |
| 12,900.00 | 90.49 | 133.04 | 5,273.09 | -4,905.60 | 7,683.83 | 1,917,262.40 | 2,750,809.46 | 36.26909337 | -107.73930437 |
| 13,000.00 | 90.49 | 133.04 | 5,272.23 | -4,973.84 | 7,756.92 | 1,917,194.16 | 2,750,882.55 | 36.26890570 | -107.73905664 |
| 13,100.00 | 90.49 | 133.04 | 5,271.37 | -5,042.08 | 7,830.01 | 1,917,125.92 | 2,750,955.64 | 36.26871804 | -107.73880892 |
| 13,200.00 | 90.49 | 133.04 | 5,270.51 | -5,110.33 | 7,903.10 | 1,917,057.68 | 2,751,028.73 | 36.26853038 | -107.73856120 |
| 13,300.00 | 90.49 | 133.04 | 5,269.65 | -5,178.57 | 7,976.20 | 1,916,989.44 | 2,751,101.82 | 36.26834272 | -107.73831348 |
| 13,400.00 | 90.49 | 133.04 | 5,268.79 | -5,246.81 | 8,049.29 | 1,916,921.19 | 2,751,174.91 | 36.26815506 | -107.73806576 |
| 13,500.00 | 90.49 | 133.04 | 5,267.93 | -5,315.05 | 8,122.38 | 1,916,852.95 | 2,751,248.00 | 36.26796740 | -107.73781804 |
| 13,600.00 | 90.49 | 133.04 | 5,267.07 | -5,383.29 | 8,195.47 | 1,916,784.71 | 2,751,321.10 | 36.26777973 | -107.73757032 |
| 13,700.00 | 90.49 | 133.04 | 5,266.21 | -5,451.54 | 8,268.56 | 1,916,716.47 | 2,751,394.19 | 36.26759207 | -107.73732260 |
| 13,800.00 | 90.49 | 133.04 | 5,265.35 | -5,519.78 | 8,341.65 | 1,916,648.23 | 2,751,467.28 | 36.26740440 | -107.73707488 |
| 13,900.00 | 90.49 | 133.04 | 5,264.49 | -5,588.02 | 8,414.74 | 1,916,579.98 | 2,751,540.37 | 36.26721674 | -107.73682717 |
| 14,000.00 | 90.49 | 133.04 | 5,263.62 | -5,656.26 | 8,487.83 | 1,916,511.74 | 2,751,613.46 | 36.26702907 | -107.73657946 |
| 14,100.00 | 90.49 | 133.04 | 5,262.76 | -5,724.50 | 8,560.92 | 1,916,443.50 | 2,751,686.55 | 36.26684141 | -107.73633174 |
| 14,200.00 | 90.49 | 133.04 | 5,261.90 | -5,792.75 | 8,634.01 | 1,916,375.26 | 2,751,759.64 | 36.26665374 | -107.73608403 |
| 14,300.00 | 90.49 | 133.04 | 5,261.04 | -5,860.99 | 8,707.10 | 1,916,307.02 | 2,751,832.73 | 36.26646608 | -107.73583632 |
| 14,400.00 | 90.49 | 133.04 | 5,260.18 | -5,929.23 | 8,780.20 | 1,916,238.78 | 2,751,905.82 | 36.26627841 | -107.73558861 |
| 14,500.00 | 90.49 | 133.04 | 5,259.32 | -5,997.47 | 8,853.29 | 1,916,170.53 | 2,751,978.91 | 36.26609074 | -107.73534091 |
| 14,600.00 | 90.49 | 133.04 | 5,258.46 | -6,065.71 | 8,926.38 | 1,916,102.29 | 2,752,052.00 | 36.26590307 | -107.73509320 |
| 14,700.00 | 90.49 | 133.04 | 5,257.60 | -6,133.96 | 8,999.47 | 1,916,034.05 | 2,752,125.09 | 36.26571540 | -107.73484550 |
| 14,800.00 | 90.49 | 133.04 | 5,256.74 | -6,202.20 | 9,072.56 | 1,915,965.81 | 2,752,198.19 | 36.26552773 | -107.73459779 |
| 14,900.00 | 90.49 | 133.04 | 5,255.88 | -6,270.44 | 9,145.65 | 1,915,897.57 | 2,752,271.28 | 36.26534006 | -107.73435009 |
| 15,000.00 | 90.49 | 133.04 | 5,255.02 | -6,338.68 | 9,218.74 | 1,915,829.32 | 2,752,344.37 | 36.26515239 | -107.73410239 |
| 15,100.00 | 90.49 | 133.04 | 5,254.15 | -6,406.92 | 9,291.83 | 1,915,761.08 | 2,752,417.46 | 36.26496472 | -107.73385469 |
| 15,200.00 | 90.49 | 133.04 | 5,253.29 | -6,475.17 | 9,364.92 | 1,915,692.84 | 2,752,490.55 | 36.26477705 | -107.73360699 |
| 15,300.00 | 90.49 | 133.04 | 5,252.43 | -6,543.41 | 9,438.01 | 1,915,624.60 | 2,752,563.64 | 36.26458938 | -107.73335929 |
| 15,400.00 | 90.49 | 133.04 | 5,251.57 | -6,611.65 | 9,511.11 | 1,915,556.36 | 2,752,636.73 | 36.26440170 | -107.73311159 |
| 15,466.45 | 90.49 | 133.04 | 5,251.00 | -6,657.00 | 9,559.67 | 1,915,511.01 | 2,752,685.30 | 36.26427700 | -107.73294700 |
| **PBHL @ 15466.45 MD 5251.00 TVD** | | | | | | | | | |

Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Design Targets**

| Target Name<br>- hit/miss target<br>- Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---|---|---|---|---|---|---|---|---|
| Nageezi 218H BHL 288<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 5,251.00 | -6,657.00 | 9,559.67 | 1,915,511.01 | 2,752,685.30 | 36.26427700 | -107.73294700 |
| Nageezi 218H PPP/POE<br>- plan hits target center<br>- Point | 0.00 | 0.00 | 5,295.05 | -290.62 | 2,740.92 | 1,921,877.37 | 2,745,866.56 | 36.28178300 | -107.75606000 |
| Nageezi 218H vert<br>- plan misses target center by 1850.95ft at 5242.98ft MD (4641.52 TVD, -109.44 N, 2216.71 E)<br>- Point | 0.00 | 0.00 | 5,350.00 | 1,211.93 | 1,131.32 | 1,923,379.92 | 2,744,256.96 | 36.28591400 | -107.76151745 |

**Casing Points**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") |
|---|---|---|---|---|
| 350.00 | 350.00 | | 13-3/8 | 17-1/2 |
| 3,632.96 | 3,271.00 | | 9-5/8 | 12-1/4 |

**Formations**

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---|---|---|---|---|---|
| 832.49 | 830.82 | Ojo Alamo | | -0.48 | 133.03 |
| 960.08 | 955.65 | Kirtland | | -0.48 | 133.03 |
| 1,265.35 | 1,245.03 | Fruitland | | -0.48 | 133.03 |
| 1,656.83 | 1,588.84 | Pictured Cliffs | | -0.48 | 133.03 |
| 1,785.55 | 1,698.41 | Lewis | | -0.48 | 133.03 |
| 2,136.59 | 1,997.23 | Chacra_A | | -0.48 | 133.03 |
| 3,412.04 | 3,082.95 | Cliff House_Basal | | -0.48 | 133.03 |
| 3,447.14 | 3,112.83 | Menefee | | -0.48 | 133.03 |
| 4,541.22 | 4,044.16 | Point Lookout | | -0.48 | 133.03 |
| 4,778.76 | 4,246.36 | Mancos | | -0.48 | 133.03 |
| 5,208.20 | 4,611.92 | MNCS_A | | -0.48 | 133.03 |
| 5,305.33 | 4,694.59 | MNCS_B | | -0.48 | 133.03 |
| 5,424.68 | 4,796.19 | MNCS_C | | -0.48 | 133.03 |
| 5,477.34 | 4,841.01 | MNCS_Cms | | -0.48 | 133.03 |
| 5,617.75 | 4,960.54 | MNCS_D | | -0.48 | 133.03 |
| 5,753.61 | 5,073.02 | MNCS_E | | -0.48 | 133.03 |
| 5,839.95 | 5,137.58 | MNCS_F | | -0.48 | 133.03 |
| 5,963.29 | 5,216.81 | MNCS_G | | -0.48 | 133.03 |
| 6,057.77 | 5,265.13 | MNCS_H | | -0.48 | 133.03 |
| 6,187.37 | 5,311.12 | MNCS_I | | -0.48 | 133.03 |

Planning Report - Geographic

| | | | |
|---|---|---|---|
| **Database:** | DT_Jan1924v17 | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Company:** | Enduring Resources LLC | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **North Reference:** | Grid |
| **Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Original Hole | | |
| **Design:** | rev0 | | |

**Plan Annotations**

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | Local Coordinates +E/-W (ft) | Comment |
|---|---|---|---|---|
| 500.00 | 500.00 | 0.00 | 0.00 | KOP Begin 3°/100' build |
| 1,555.10 | 1,502.25 | -14.01 | 283.76 | Begin 31.65° tangent |
| 5,652.25 | 4,989.90 | -120.03 | 2,431.22 | Begin 10°/100' build/turn |
| 6,133.29 | 5,295.05 | -290.62 | 2,740.92 | POE @ 6133.29 MD 5295.05 TVD |
| 6,338.23 | 5,329.58 | -427.71 | 2,887.77 | Begin 90.49° lateral |
| 15,466.45 | 5,251.00 | -6,657.00 | 9,559.67 | PBHL @ 15466.45 MD 5251.00 TVD |

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Reference** rev0

| | | | |
|---|---|---|---|
| **Filter type:** | GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference | | |
| **Interpolation Method:** | MD Interval 100.00ft | **Error Model:** | ISCWSA |
| **Depth Range:** | Unlimited | **Scan Method:** | Closest Approach 3D |
| **Results Limited by:** | Maximum centre distance of 1,746.73ft | **Error Surface:** | Ellipsoid Separation |
| **Warning Levels Evaluated at:** | 2.00 **Sigma** | **Casing Method:** | Not applied |

**Survey Tool Program** **Date** 2/8/2024

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 0.00 | 15,466.40 | rev0 (Original Hole) | MWD | OWSG MWD - Standard |

**Summary**

| Site Name / Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|
| Nageezi Unit (207, 209, 211, 623 & 626) | | | | | | |
| Nageezi Unit 207H - Original Hole - rev0 | 14,355.00 | 11,313.83 | 1,200.00 | 827.52 | 3.222 | CC |
| Nageezi Unit 207H - Original Hole - rev0 | 14,400.00 | 11,316.15 | 1,200.75 | 825.84 | 3.203 | ES |
| Nageezi Unit 207H - Original Hole - rev0 | 14,500.00 | 11,316.15 | 1,208.44 | 830.70 | 3.199 | SF |
| Nageezi Unit 623H - Original Hole - rev0 | 6,013.20 | 5,839.04 | 108.58 | 19.84 | 1.223 | Level 3<2.00, CC, ES, SF |
| Nageezi Unit (213, 214, 215, 216, 217 & 218) | | | | | | |
| Nageezi Unit 213H - Original Hole - rev0 | 724.29 | 723.77 | 37.84 | 32.84 | 7.567 | CC, ES |
| Nageezi Unit 213H - Original Hole - rev0 | 800.00 | 798.77 | 39.23 | 33.68 | 7.071 | SF |
| Nageezi Unit 214H - Original Hole - rev0 | 817.40 | 815.94 | 75.67 | 69.99 | 13.322 | CC, ES |
| Nageezi Unit 214H - Original Hole - rev0 | 1,000.00 | 994.31 | 85.02 | 77.96 | 12.039 | SF |
| Nageezi Unit 215H - Original Hole - rev0 | 656.77 | 656.59 | 18.91 | 14.39 | 4.186 | CC, ES |
| Nageezi Unit 215H - Original Hole - rev0 | 700.00 | 699.63 | 19.34 | 14.51 | 4.009 | SF |
| Nageezi Unit 216H - Original Hole - rev0 | 775.76 | 774.80 | 56.76 | 51.39 | 10.563 | CC |
| Nageezi Unit 216H - Original Hole - rev0 | 800.00 | 798.77 | 56.88 | 51.33 | 10.250 | ES |
| Nageezi Unit 216H - Original Hole - rev0 | 900.00 | 897.08 | 60.82 | 54.53 | 9.665 | SF |
| Nageezi Unit 217H - Original Hole - rev0 | 500.00 | 500.00 | 19.75 | 16.34 | 5.799 | CC, ES |
| Nageezi Unit 217H - Original Hole - rev0 | 15,467.26 | 16,848.51 | 1,195.34 | 669.88 | 2.275 | SF |

**Offset Design:** Nageezi Unit (207, 209, 211, 623 & 626) - Nageezi Unit 207H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD **Rule Assigned:** **Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7,000.00 | 5,323.89 | 4,950.00 | 4,907.59 | 72.73 | 18.90 | -72.21 | -804.20 | 5,049.47 | 1,725.57 | 1,671.43 | 54.14 | 31.872 | |
| 7,100.00 | 5,323.02 | 4,972.62 | 4,929.12 | 74.61 | 18.95 | -73.14 | -808.94 | 5,054.54 | 1,658.42 | 1,601.60 | 56.81 | 29.192 | |
| 7,200.00 | 5,322.16 | 5,000.00 | 4,954.78 | 76.52 | 19.01 | -74.28 | -815.45 | 5,061.51 | 1,594.88 | 1,535.01 | 59.87 | 26.639 | |
| 7,300.00 | 5,321.30 | 5,000.00 | 4,954.78 | 78.45 | 19.01 | -74.28 | -815.45 | 5,061.51 | 1,534.51 | 1,470.95 | 63.56 | 24.144 | |
| 7,400.00 | 5,320.44 | 5,000.00 | 4,954.78 | 80.40 | 19.01 | -74.28 | -815.45 | 5,061.51 | 1,478.44 | 1,410.76 | 67.68 | 21.845 | |
| 7,500.00 | 5,319.58 | 5,026.86 | 4,979.49 | 82.36 | 19.06 | -75.38 | -822.64 | 5,069.21 | 1,426.59 | 1,354.61 | 71.98 | 19.819 | |
| 7,600.00 | 5,318.72 | 5,050.00 | 5,000.35 | 84.35 | 19.10 | -76.32 | -829.46 | 5,076.52 | 1,379.65 | 1,303.01 | 76.65 | 18.000 | |
| 7,700.00 | 5,317.86 | 5,066.84 | 5,015.28 | 86.36 | 19.13 | -77.00 | -834.78 | 5,082.22 | 1,337.87 | 1,256.22 | 81.65 | 16.385 | |
| 7,800.00 | 5,317.00 | 5,100.00 | 5,043.96 | 88.38 | 19.19 | -78.31 | -846.13 | 5,094.37 | 1,301.68 | 1,215.01 | 86.67 | 15.019 | |
| 7,900.00 | 5,316.14 | 5,121.05 | 5,061.65 | 90.41 | 19.22 | -79.13 | -853.91 | 5,102.71 | 1,271.15 | 1,179.20 | 91.95 | 13.825 | |
| 8,000.00 | 5,315.28 | 5,150.00 | 5,085.28 | 92.46 | 19.26 | -80.23 | -865.33 | 5,114.94 | 1,246.57 | 1,149.45 | 97.12 | 12.835 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (207, 209, 211, 623 & 626) - Nageezi Unit 207H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8,100.00 | 5,314.42 | 5,200.00 | 5,123.98 | 94.52 | 19.33 | -82.04 | -886.92 | 5,138.05 | 1,227.77 | 1,125.89 | 101.88 | 12.052 | |
| 8,200.00 | 5,313.55 | 5,250.00 | 5,159.79 | 96.59 | 19.38 | -83.74 | -910.73 | 5,163.54 | 1,214.49 | 1,108.07 | 106.42 | 11.412 | |
| 8,300.00 | 5,312.69 | 5,305.92 | 5,196.05 | 98.68 | 19.44 | -85.47 | -939.75 | 5,194.63 | 1,206.11 | 1,095.50 | 110.61 | 10.904 | |
| 8,400.00 | 5,311.83 | 5,376.85 | 5,235.80 | 100.77 | 19.52 | -87.39 | -979.81 | 5,237.53 | 1,201.74 | 1,087.45 | 114.28 | 10.515 | |
| 8,500.00 | 5,310.97 | 5,460.12 | 5,272.79 | 102.88 | 19.80 | -89.18 | -1,030.67 | 5,291.99 | 1,200.17 | 1,082.66 | 117.51 | 10.213 | |
| 8,554.59 | 5,310.50 | 5,510.55 | 5,289.80 | 104.03 | 20.14 | -90.01 | -1,063.07 | 5,326.68 | 1,200.02 | 1,080.85 | 119.17 | 10.070 | |
| 8,600.00 | 5,310.11 | 5,554.80 | 5,301.23 | 104.99 | 20.49 | -90.58 | -1,092.24 | 5,357.92 | 1,200.08 | 1,079.57 | 120.51 | 9.958 | |
| 8,700.00 | 5,309.25 | 5,657.39 | 5,314.85 | 107.11 | 21.44 | -91.27 | -1,161.54 | 5,432.14 | 1,200.31 | 1,076.80 | 123.51 | 9.718 | |
| 8,800.00 | 5,308.39 | 5,758.83 | 5,314.65 | 109.25 | 22.57 | -91.30 | -1,230.76 | 5,506.27 | 1,200.32 | 1,073.53 | 126.79 | 9.467 | |
| 8,900.00 | 5,307.53 | 5,858.83 | 5,313.63 | 111.38 | 23.84 | -91.29 | -1,299.00 | 5,579.36 | 1,200.31 | 1,070.04 | 130.28 | 9.214 | |
| 9,000.00 | 5,306.67 | 5,958.83 | 5,312.61 | 113.53 | 25.26 | -91.29 | -1,367.24 | 5,652.45 | 1,200.31 | 1,066.39 | 133.92 | 8.963 | |
| 9,100.00 | 5,305.81 | 6,058.83 | 5,311.59 | 115.68 | 26.81 | -91.28 | -1,435.49 | 5,725.54 | 1,200.30 | 1,062.61 | 137.69 | 8.717 | |
| 9,200.00 | 5,304.95 | 6,158.83 | 5,310.57 | 117.84 | 28.45 | -91.27 | -1,503.73 | 5,798.62 | 1,200.30 | 1,058.72 | 141.58 | 8.478 | |
| 9,300.00 | 5,304.09 | 6,258.83 | 5,309.55 | 120.01 | 30.19 | -91.26 | -1,571.97 | 5,871.71 | 1,200.29 | 1,054.74 | 145.55 | 8.246 | |
| 9,400.00 | 5,303.22 | 6,358.83 | 5,308.53 | 122.18 | 32.00 | -91.26 | -1,640.22 | 5,944.80 | 1,200.28 | 1,050.67 | 149.61 | 8.023 | |
| 9,500.00 | 5,302.36 | 6,458.83 | 5,307.51 | 124.36 | 33.87 | -91.25 | -1,708.46 | 6,017.89 | 1,200.28 | 1,046.55 | 153.73 | 7.808 | |
| 9,600.00 | 5,301.50 | 6,558.83 | 5,306.49 | 126.54 | 35.79 | -91.24 | -1,776.70 | 6,090.98 | 1,200.27 | 1,042.36 | 157.91 | 7.601 | |
| 9,700.00 | 5,300.64 | 6,658.83 | 5,305.48 | 128.73 | 37.76 | -91.23 | -1,844.95 | 6,164.06 | 1,200.26 | 1,038.13 | 162.13 | 7.403 | |
| 9,800.00 | 5,299.78 | 6,758.83 | 5,304.46 | 130.92 | 39.76 | -91.23 | -1,913.19 | 6,237.15 | 1,200.26 | 1,033.86 | 166.40 | 7.213 | |
| 9,900.00 | 5,298.92 | 6,858.83 | 5,303.44 | 133.12 | 41.80 | -91.22 | -1,981.43 | 6,310.24 | 1,200.25 | 1,029.56 | 170.69 | 7.032 | |
| 10,000.00 | 5,298.06 | 6,958.83 | 5,302.42 | 135.32 | 43.87 | -91.21 | -2,049.67 | 6,383.33 | 1,200.25 | 1,025.22 | 175.02 | 6.858 | |
| 10,100.00 | 5,297.20 | 7,058.83 | 5,301.40 | 137.53 | 45.96 | -91.20 | -2,117.92 | 6,456.41 | 1,200.24 | 1,020.86 | 179.38 | 6.691 | |
| 10,200.00 | 5,296.34 | 7,158.83 | 5,300.38 | 139.74 | 48.07 | -91.20 | -2,186.16 | 6,529.50 | 1,200.23 | 1,016.48 | 183.76 | 6.532 | |
| 10,300.00 | 5,295.48 | 7,258.83 | 5,299.36 | 141.95 | 50.20 | -91.19 | -2,254.40 | 6,602.59 | 1,200.23 | 1,012.07 | 188.16 | 6.379 | |
| 10,400.00 | 5,294.62 | 7,358.83 | 5,298.34 | 144.17 | 52.34 | -91.18 | -2,322.65 | 6,675.68 | 1,200.22 | 1,007.65 | 192.57 | 6.233 | |
| 10,500.00 | 5,293.75 | 7,458.83 | 5,297.32 | 146.39 | 54.50 | -91.17 | -2,390.89 | 6,748.77 | 1,200.22 | 1,003.21 | 197.00 | 6.092 | |
| 10,600.00 | 5,292.89 | 7,558.83 | 5,296.30 | 148.61 | 56.68 | -91.17 | -2,459.13 | 6,821.85 | 1,200.21 | 998.76 | 201.45 | 5.958 | |
| 10,700.00 | 5,292.03 | 7,658.83 | 5,295.28 | 150.83 | 58.86 | -91.16 | -2,527.38 | 6,894.94 | 1,200.20 | 994.29 | 205.91 | 5.829 | |
| 10,800.00 | 5,291.17 | 7,758.83 | 5,294.26 | 153.06 | 61.06 | -91.15 | -2,595.62 | 6,968.03 | 1,200.20 | 989.82 | 210.38 | 5.705 | |
| 10,900.00 | 5,290.31 | 7,858.83 | 5,293.24 | 155.30 | 63.26 | -91.14 | -2,663.86 | 7,041.12 | 1,200.19 | 985.33 | 214.86 | 5.586 | |
| 11,000.00 | 5,289.45 | 7,958.83 | 5,292.22 | 157.53 | 65.47 | -91.14 | -2,732.10 | 7,114.20 | 1,200.19 | 980.84 | 219.35 | 5.472 | |
| 11,100.00 | 5,288.59 | 8,058.83 | 5,291.20 | 159.77 | 67.69 | -91.13 | -2,800.35 | 7,187.29 | 1,200.18 | 976.33 | 223.85 | 5.362 | |
| 11,200.00 | 5,287.73 | 8,158.83 | 5,290.18 | 162.01 | 69.92 | -91.12 | -2,868.59 | 7,260.38 | 1,200.17 | 971.82 | 228.35 | 5.256 | |
| 11,300.00 | 5,286.87 | 8,258.83 | 5,289.17 | 164.25 | 72.15 | -91.11 | -2,936.83 | 7,333.47 | 1,200.17 | 967.30 | 232.87 | 5.154 | |
| 11,400.00 | 5,286.01 | 8,358.83 | 5,288.15 | 166.49 | 74.38 | -91.10 | -3,005.08 | 7,406.56 | 1,200.16 | 962.78 | 237.39 | 5.056 | |
| 11,500.00 | 5,285.15 | 8,458.83 | 5,287.13 | 168.74 | 76.63 | -91.10 | -3,073.32 | 7,479.64 | 1,200.16 | 958.24 | 241.91 | 4.961 | |
| 11,600.00 | 5,284.29 | 8,558.83 | 5,286.11 | 170.99 | 78.87 | -91.09 | -3,141.56 | 7,552.73 | 1,200.15 | 953.71 | 246.44 | 4.870 | |
| 11,700.00 | 5,283.42 | 8,658.83 | 5,285.09 | 173.24 | 81.12 | -91.08 | -3,209.80 | 7,625.82 | 1,200.14 | 949.17 | 250.98 | 4.782 | |
| 11,800.00 | 5,282.56 | 8,758.83 | 5,284.07 | 175.49 | 83.38 | -91.07 | -3,278.05 | 7,698.91 | 1,200.14 | 944.62 | 255.52 | 4.697 | |
| 11,900.00 | 5,281.70 | 8,858.83 | 5,283.05 | 177.74 | 85.64 | -91.07 | -3,346.29 | 7,772.00 | 1,200.13 | 940.07 | 260.06 | 4.615 | |
| 12,000.00 | 5,280.84 | 8,958.83 | 5,282.03 | 180.00 | 87.90 | -91.06 | -3,414.53 | 7,845.08 | 1,200.13 | 935.51 | 264.61 | 4.535 | |
| 12,100.00 | 5,279.98 | 9,058.83 | 5,281.01 | 182.26 | 90.16 | -91.05 | -3,482.78 | 7,918.17 | 1,200.12 | 930.95 | 269.17 | 4.459 | |
| 12,200.00 | 5,279.12 | 9,158.83 | 5,279.99 | 184.51 | 92.43 | -91.04 | -3,551.02 | 7,991.26 | 1,200.11 | 926.39 | 273.72 | 4.384 | |
| 12,300.00 | 5,278.26 | 9,258.83 | 5,278.97 | 186.78 | 94.70 | -91.04 | -3,619.26 | 8,064.35 | 1,200.11 | 921.83 | 278.28 | 4.313 | |
| 12,400.00 | 5,277.40 | 9,358.83 | 5,277.95 | 189.04 | 96.97 | -91.03 | -3,687.51 | 8,137.43 | 1,200.10 | 917.26 | 282.85 | 4.243 | |
| 12,500.00 | 5,276.54 | 9,458.83 | 5,276.93 | 191.30 | 99.25 | -91.02 | -3,755.75 | 8,210.52 | 1,200.10 | 912.69 | 287.41 | 4.176 | |
| 12,600.00 | 5,275.68 | 9,558.83 | 5,275.91 | 193.57 | 101.52 | -91.01 | -3,823.99 | 8,283.61 | 1,200.09 | 908.11 | 291.98 | 4.110 | |
| 12,700.00 | 5,274.82 | 9,658.83 | 5,274.89 | 195.83 | 103.80 | -91.01 | -3,892.23 | 8,356.70 | 1,200.09 | 903.53 | 296.55 | 4.047 | |
| 12,800.00 | 5,273.95 | 9,758.83 | 5,273.87 | 198.10 | 106.08 | -91.00 | -3,960.48 | 8,429.79 | 1,200.08 | 898.96 | 301.13 | 3.985 | |
| 12,900.00 | 5,273.09 | 9,858.83 | 5,272.86 | 200.37 | 108.37 | -90.99 | -4,028.72 | 8,502.87 | 1,200.08 | 894.37 | 305.70 | 3.926 | |
| 13,000.00 | 5,272.23 | 9,958.83 | 5,271.84 | 202.64 | 110.65 | -90.98 | -4,096.96 | 8,575.96 | 1,200.07 | 889.79 | 310.28 | 3.868 | |
| 13,100.00 | 5,271.37 | 10,058.83 | 5,270.82 | 204.91 | 112.93 | -90.98 | -4,165.21 | 8,649.05 | 1,200.06 | 885.20 | 314.86 | 3.811 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (207, 209, 211, 623 & 626) - Nageezi Unit 207H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13,200.00 | 5,270.51 | 10,158.83 | 5,269.80 | 207.18 | 115.22 | -90.97 | -4,233.45 | 8,722.14 | 1,200.06 | 880.62 | 319.44 | 3.757 | |
| 13,300.00 | 5,269.65 | 10,258.83 | 5,268.78 | 209.46 | 117.51 | -90.96 | -4,301.69 | 8,795.23 | 1,200.05 | 876.03 | 324.03 | 3.704 | |
| 13,400.00 | 5,268.79 | 10,358.83 | 5,267.76 | 211.73 | 119.80 | -90.95 | -4,369.94 | 8,868.31 | 1,200.05 | 871.44 | 328.61 | 3.652 | |
| 13,500.00 | 5,267.93 | 10,458.83 | 5,266.74 | 214.01 | 122.09 | -90.95 | -4,438.18 | 8,941.40 | 1,200.04 | 866.84 | 333.20 | 3.602 | |
| 13,600.00 | 5,267.07 | 10,558.83 | 5,265.72 | 216.28 | 124.38 | -90.94 | -4,506.42 | 9,014.49 | 1,200.04 | 862.25 | 337.79 | 3.553 | |
| 13,700.00 | 5,266.21 | 10,658.83 | 5,264.70 | 218.56 | 126.67 | -90.93 | -4,574.66 | 9,087.58 | 1,200.03 | 857.65 | 342.38 | 3.505 | |
| 13,800.00 | 5,265.35 | 10,758.83 | 5,263.68 | 220.84 | 128.97 | -90.92 | -4,642.91 | 9,160.66 | 1,200.03 | 853.06 | 346.97 | 3.459 | |
| 13,900.00 | 5,264.49 | 10,858.83 | 5,262.66 | 223.12 | 131.26 | -90.92 | -4,711.15 | 9,233.75 | 1,200.02 | 848.46 | 351.56 | 3.413 | |
| 14,000.00 | 5,263.62 | 10,958.83 | 5,261.64 | 225.40 | 133.56 | -90.91 | -4,779.39 | 9,306.84 | 1,200.02 | 843.86 | 356.16 | 3.369 | |
| 14,100.00 | 5,262.76 | 11,058.83 | 5,260.62 | 227.68 | 135.86 | -90.90 | -4,847.64 | 9,379.93 | 1,200.01 | 839.26 | 360.75 | 3.326 | |
| 14,200.00 | 5,261.90 | 11,158.83 | 5,259.60 | 229.96 | 138.15 | -90.89 | -4,915.88 | 9,453.02 | 1,200.00 | 834.65 | 365.35 | 3.285 | |
| 14,300.00 | 5,261.04 | 11,258.83 | 5,258.58 | 232.25 | 140.45 | -90.89 | -4,984.12 | 9,526.10 | 1,200.00 | 830.05 | 369.95 | 3.244 | |
| 14,355.00 | 5,260.57 | 11,313.83 | 5,258.02 | 233.50 | 141.72 | -90.88 | -5,021.66 | 9,566.30 | 1,200.00 | 827.52 | 372.48 | 3.222 | CC |
| 14,400.00 | 5,260.18 | 11,316.15 | 5,258.00 | 234.53 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,200.75 | 825.84 | 374.91 | 3.203 | ES |
| 14,500.00 | 5,259.32 | 11,316.15 | 5,258.00 | 236.81 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,208.44 | 830.70 | 377.74 | 3.199 | SF |
| 14,600.00 | 5,258.46 | 11,316.15 | 5,258.00 | 239.10 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,224.28 | 847.34 | 376.94 | 3.248 | |
| 14,700.00 | 5,257.60 | 11,316.15 | 5,258.00 | 241.38 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,247.95 | 875.06 | 372.89 | 3.347 | |
| 14,800.00 | 5,256.74 | 11,316.15 | 5,258.00 | 243.67 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,279.02 | 912.88 | 366.14 | 3.493 | |
| 14,900.00 | 5,255.88 | 11,316.15 | 5,258.00 | 245.96 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,316.97 | 959.59 | 357.38 | 3.685 | |
| 15,000.00 | 5,255.02 | 11,316.15 | 5,258.00 | 248.25 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,361.23 | 1,013.98 | 347.25 | 3.920 | |
| 15,100.00 | 5,254.15 | 11,316.15 | 5,258.00 | 250.53 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,411.19 | 1,074.88 | 336.32 | 4.196 | |
| 15,200.00 | 5,253.29 | 11,316.15 | 5,258.00 | 252.82 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,466.28 | 1,141.24 | 325.04 | 4.511 | |
| 15,300.00 | 5,252.43 | 11,316.15 | 5,258.00 | 255.11 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,525.95 | 1,212.18 | 313.76 | 4.863 | |
| 15,400.00 | 5,251.57 | 11,316.15 | 5,258.00 | 257.40 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,589.66 | 1,286.94 | 302.72 | 5.251 | |
| 15,467.26 | 5,250.99 | 11,316.15 | 5,258.00 | 258.94 | 141.77 | -90.88 | -5,023.24 | 9,568.00 | 1,634.57 | 1,339.05 | 295.52 | 5.531 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (207, 209, 211, 623 & 626) - Nageezi Unit 623H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Rule Assigned:**

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,200.00 | 3,753.69 | 4,986.91 | 4,512.31 | 35.26 | 39.93 | 14.52 | -371.31 | 3,121.86 | 1,673.02 | 1,637.45 | 35.57 | 47.040 | |
| 4,300.00 | 3,838.82 | 5,038.61 | 4,557.63 | 36.34 | 40.43 | 14.58 | -359.83 | 3,099.81 | 1,587.42 | 1,551.28 | 36.14 | 43.926 | |
| 4,400.00 | 3,923.94 | 5,090.31 | 4,602.96 | 37.42 | 40.92 | 14.63 | -348.36 | 3,077.75 | 1,501.83 | 1,465.12 | 36.71 | 40.909 | |
| 4,500.00 | 4,009.06 | 5,142.00 | 4,648.28 | 38.50 | 41.42 | 14.70 | -336.88 | 3,055.69 | 1,416.23 | 1,378.95 | 37.28 | 37.986 | |
| 4,600.00 | 4,094.19 | 5,193.70 | 4,693.61 | 39.58 | 41.92 | 14.77 | -325.40 | 3,033.64 | 1,330.63 | 1,292.78 | 37.85 | 35.151 | |
| 4,700.00 | 4,179.31 | 5,245.40 | 4,738.93 | 40.66 | 42.42 | 14.86 | -313.93 | 3,011.58 | 1,245.04 | 1,206.61 | 38.43 | 32.400 | |
| 4,800.00 | 4,264.44 | 5,297.09 | 4,784.26 | 41.74 | 42.92 | 14.95 | -302.45 | 2,989.53 | 1,159.44 | 1,120.45 | 39.00 | 29.730 | |
| 4,900.00 | 4,349.56 | 5,348.79 | 4,829.58 | 42.82 | 43.42 | 15.06 | -290.97 | 2,967.47 | 1,073.85 | 1,034.28 | 39.57 | 27.138 | |
| 5,000.00 | 4,434.68 | 5,400.49 | 4,874.91 | 43.90 | 43.92 | 15.19 | -279.49 | 2,945.42 | 988.26 | 948.12 | 40.14 | 24.621 | |
| 5,100.00 | 4,519.81 | 6,301.63 | 5,317.24 | 44.98 | 58.09 | -128.21 | 164.09 | 2,399.02 | 899.34 | 856.89 | 42.45 | 21.187 | |
| 5,200.00 | 4,604.93 | 6,261.96 | 5,317.05 | 46.06 | 57.30 | -127.41 | 137.02 | 2,428.02 | 807.67 | 765.18 | 42.49 | 19.008 | |
| 5,300.00 | 4,690.06 | 6,222.29 | 5,316.86 | 47.14 | 56.51 | -126.41 | 109.95 | 2,457.02 | 716.03 | 673.48 | 42.55 | 16.828 | |
| 5,400.00 | 4,775.18 | 6,182.62 | 5,316.67 | 48.22 | 55.72 | -125.12 | 82.88 | 2,486.02 | 624.44 | 581.81 | 42.63 | 14.646 | |
| 5,500.00 | 4,860.31 | 5,978.82 | 5,281.52 | 49.30 | 51.74 | -87.14 | -53.36 | 2,631.96 | 527.43 | 491.46 | 35.97 | 14.662 | |
| 5,600.00 | 4,945.43 | 5,959.13 | 5,274.41 | 50.38 | 51.37 | -73.20 | -65.84 | 2,645.45 | 428.55 | 391.89 | 36.66 | 11.690 | |
| 5,700.00 | 5,029.90 | 5,946.47 | 5,269.53 | 51.48 | 51.14 | -86.57 | -73.72 | 2,654.06 | 330.35 | 292.29 | 38.06 | 8.680 | |
| 5,800.00 | 5,108.53 | 5,919.61 | 5,258.32 | 52.74 | 50.65 | -100.34 | -90.07 | 2,672.19 | 236.45 | 194.95 | 41.50 | 5.698 | |
| 5,900.00 | 5,178.25 | 5,884.05 | 5,241.78 | 54.15 | 50.02 | -99.87 | -110.86 | 2,695.82 | 154.57 | 102.71 | 51.86 | 2.980 | |
| 6,000.00 | 5,236.96 | 5,844.43 | 5,221.15 | 55.64 | 49.34 | -89.27 | -132.80 | 2,721.54 | 109.32 | 25.26 | 84.06 | 1.301 | Level 3<2.00 |
| 6,013.20 | 5,243.78 | 5,839.04 | 5,218.16 | 55.85 | 49.25 | -87.15 | -135.68 | 2,724.99 | 108.58 | 19.84 | 88.75 | 1.223 | Level 3<2.00, CC, ES, SF |
| 6,100.00 | 5,282.86 | 5,800.00 | 5,195.35 | 57.18 | 48.61 | -68.91 | -155.74 | 2,749.50 | 135.75 | 56.69 | 79.06 | 1.717 | Level 3<2.00 |
| 6,200.00 | 5,314.17 | 5,760.64 | 5,170.28 | 58.74 | 48.00 | -49.30 | -174.49 | 2,773.33 | 202.03 | 130.73 | 71.30 | 2.833 | |
| 6,300.00 | 5,328.64 | 5,716.82 | 5,140.06 | 60.38 | 47.36 | -35.21 | -193.51 | 2,798.71 | 274.11 | 205.19 | 68.92 | 3.977 | |
| 6,400.00 | 5,329.05 | 5,673.53 | 5,107.98 | 62.04 | 46.77 | -29.48 | -210.28 | 2,822.43 | 345.86 | 277.21 | 68.66 | 5.037 | |
| 6,500.00 | 5,328.19 | 5,636.36 | 5,078.81 | 63.74 | 46.31 | -27.06 | -223.01 | 2,841.64 | 422.45 | 353.83 | 68.63 | 6.156 | |
| 6,600.00 | 5,327.33 | 5,600.00 | 5,048.96 | 65.47 | 45.88 | -25.10 | -233.90 | 2,859.29 | 503.27 | 434.87 | 68.39 | 7.359 | |
| 6,700.00 | 5,326.47 | 5,577.68 | 5,030.04 | 67.24 | 45.65 | -24.06 | -239.81 | 2,869.55 | 587.19 | 518.60 | 68.59 | 8.561 | |
| 6,800.00 | 5,325.61 | 5,553.84 | 5,009.36 | 69.04 | 45.41 | -23.07 | -245.45 | 2,879.99 | 673.64 | 605.11 | 68.53 | 9.830 | |
| 6,900.00 | 5,324.75 | 5,507.87 | 4,969.05 | 70.87 | 44.96 | -21.46 | -255.65 | 2,899.60 | 761.27 | 693.38 | 67.89 | 11.213 | |
| 7,000.00 | 5,323.89 | 5,460.78 | 4,927.77 | 72.73 | 44.51 | -20.14 | -266.11 | 2,919.69 | 849.02 | 781.69 | 67.33 | 12.610 | |
| 7,100.00 | 5,323.02 | 5,413.69 | 4,886.48 | 74.61 | 44.05 | -19.05 | -276.56 | 2,939.78 | 936.86 | 870.01 | 66.85 | 14.014 | |
| 7,200.00 | 5,322.16 | 5,366.60 | 4,845.20 | 76.52 | 43.60 | -18.15 | -287.02 | 2,959.87 | 1,024.77 | 958.34 | 66.43 | 15.427 | |
| 7,300.00 | 5,321.30 | 5,319.52 | 4,803.92 | 78.45 | 43.14 | -17.39 | -297.47 | 2,979.96 | 1,112.72 | 1,046.67 | 66.05 | 16.846 | |
| 7,400.00 | 5,320.44 | 5,272.43 | 4,762.63 | 80.40 | 42.69 | -16.74 | -307.93 | 3,000.05 | 1,200.72 | 1,135.00 | 65.71 | 18.272 | |
| 7,500.00 | 5,319.58 | 5,225.34 | 4,721.35 | 82.36 | 42.23 | -16.17 | -318.38 | 3,020.14 | 1,288.74 | 1,223.34 | 65.40 | 19.704 | |
| 7,600.00 | 5,318.72 | 5,178.25 | 4,680.06 | 84.35 | 41.78 | -15.68 | -328.83 | 3,040.23 | 1,376.79 | 1,311.67 | 65.12 | 21.142 | |
| 7,700.00 | 5,317.86 | 5,131.16 | 4,638.78 | 86.36 | 41.32 | -15.25 | -339.29 | 3,060.32 | 1,464.86 | 1,400.00 | 64.86 | 22.585 | |
| 7,800.00 | 5,317.00 | 5,084.07 | 4,597.49 | 88.38 | 40.86 | -14.86 | -349.74 | 3,080.41 | 1,552.95 | 1,488.33 | 64.62 | 24.033 | |
| 7,900.00 | 5,316.14 | 5,036.98 | 4,556.21 | 90.41 | 40.41 | -14.51 | -360.20 | 3,100.50 | 1,641.05 | 1,576.66 | 64.39 | 25.486 | |
| 8,000.00 | 5,315.28 | 4,989.90 | 4,514.92 | 92.46 | 39.95 | -14.20 | -370.65 | 3,120.59 | 1,729.16 | 1,664.98 | 64.18 | 26.944 | |

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 213H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.00 | 37.14 | 15.01 | 40.06 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | 22.00 | 37.14 | 15.01 | 40.06 | 39.52 | 0.54 | 74.497 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | 22.00 | 37.14 | 15.01 | 40.06 | 38.80 | 1.25 | 31.927 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | 22.00 | 37.14 | 15.01 | 40.06 | 38.09 | 1.97 | 20.317 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | 22.00 | 37.14 | 15.01 | 40.06 | 37.37 | 2.69 | 14.899 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | 22.00 | 37.14 | 15.01 | 40.06 | 36.65 | 3.41 | 11.763 | |
| 600.00 | 599.95 | 599.95 | 599.95 | 2.05 | 2.06 | -74.46 | 37.14 | 15.01 | 39.28 | 35.16 | 4.11 | 9.546 | |
| 700.00 | 699.63 | 699.63 | 699.63 | 2.41 | 2.42 | -85.95 | 37.14 | 15.01 | 37.93 | 33.11 | 4.82 | 7.864 | |
| 724.29 | 723.77 | 723.77 | 723.77 | 2.50 | 2.50 | -90.00 | 37.14 | 15.01 | 37.84 | 32.84 | 5.00 | 7.567 | CC, ES |
| 800.00 | 798.77 | 798.77 | 798.77 | 2.78 | 2.77 | -105.13 | 37.14 | 15.01 | 39.23 | 33.68 | 5.55 | 7.071 | SF |
| 900.00 | 897.08 | 897.08 | 897.08 | 3.18 | 3.13 | -126.46 | 37.14 | 15.01 | 47.42 | 41.14 | 6.28 | 7.549 | |
| 1,000.00 | 994.31 | 994.31 | 994.31 | 3.62 | 3.47 | -142.97 | 37.14 | 15.01 | 64.24 | 57.24 | 7.01 | 9.168 | |
| 1,100.00 | 1,090.18 | 1,090.18 | 1,090.18 | 4.11 | 3.82 | -153.65 | 37.14 | 15.01 | 88.79 | 81.06 | 7.72 | 11.493 | |
| 1,200.00 | 1,184.43 | 1,184.43 | 1,184.43 | 4.68 | 4.16 | -160.38 | 37.14 | 15.01 | 119.83 | 111.39 | 8.44 | 14.201 | |
| 1,300.00 | 1,276.81 | 1,283.26 | 1,283.23 | 5.32 | 4.50 | -164.81 | 37.18 | 16.82 | 155.01 | 145.84 | 9.17 | 16.913 | |
| 1,400.00 | 1,367.06 | 1,385.15 | 1,384.86 | 6.05 | 4.86 | -167.53 | 37.31 | 23.97 | 190.82 | 180.92 | 9.90 | 19.280 | |
| 1,500.00 | 1,454.93 | 1,489.26 | 1,488.16 | 6.88 | 5.23 | -169.29 | 37.55 | 36.87 | 226.82 | 216.19 | 10.64 | 21.323 | |
| 1,600.00 | 1,540.46 | 1,595.96 | 1,593.13 | 7.81 | 5.63 | -170.53 | 37.90 | 55.90 | 262.28 | 250.89 | 11.39 | 23.033 | |
| 1,700.00 | 1,625.59 | 1,702.43 | 1,696.69 | 8.78 | 6.05 | -171.32 | 38.36 | 80.55 | 293.49 | 281.34 | 12.14 | 24.171 | |
| 1,800.00 | 1,710.71 | 1,797.87 | 1,789.16 | 9.77 | 6.46 | -171.82 | 38.80 | 104.19 | 323.23 | 310.30 | 12.93 | 25.006 | |
| 1,900.00 | 1,795.84 | 1,893.31 | 1,881.62 | 10.79 | 6.88 | -172.24 | 39.25 | 127.83 | 352.98 | 339.26 | 13.72 | 25.726 | |
| 2,000.00 | 1,880.96 | 1,988.75 | 1,974.09 | 11.81 | 7.32 | -172.59 | 39.69 | 151.47 | 382.75 | 368.23 | 14.53 | 26.350 | |
| 2,100.00 | 1,966.09 | 2,084.19 | 2,066.55 | 12.85 | 7.77 | -172.89 | 40.13 | 175.11 | 412.54 | 397.20 | 15.34 | 26.896 | |
| 2,200.00 | 2,051.21 | 2,179.63 | 2,159.02 | 13.89 | 8.23 | -173.16 | 40.57 | 198.75 | 442.33 | 426.17 | 16.16 | 27.376 | |
| 2,300.00 | 2,136.33 | 2,275.07 | 2,251.49 | 14.94 | 8.69 | -173.38 | 41.01 | 222.39 | 472.13 | 455.15 | 16.98 | 27.800 | |
| 2,400.00 | 2,221.46 | 2,370.51 | 2,343.95 | 15.99 | 9.16 | -173.59 | 41.45 | 246.03 | 501.93 | 484.12 | 17.81 | 28.178 | |
| 2,500.00 | 2,306.58 | 2,465.95 | 2,436.42 | 17.05 | 9.64 | -173.76 | 41.89 | 269.67 | 531.74 | 513.10 | 18.65 | 28.515 | |
| 2,600.00 | 2,391.71 | 2,561.39 | 2,528.88 | 18.10 | 10.12 | -173.92 | 42.33 | 293.31 | 561.56 | 542.07 | 19.49 | 28.819 | |
| 2,700.00 | 2,476.83 | 2,656.84 | 2,621.35 | 19.17 | 10.61 | -174.07 | 42.77 | 316.95 | 591.38 | 571.05 | 20.33 | 29.093 | |
| 2,800.00 | 2,561.95 | 2,752.28 | 2,713.82 | 20.23 | 11.10 | -174.20 | 43.21 | 340.59 | 621.20 | 600.03 | 21.17 | 29.342 | |
| 2,900.00 | 2,647.08 | 2,847.72 | 2,806.28 | 21.30 | 11.59 | -174.31 | 43.65 | 364.23 | 651.02 | 629.00 | 22.02 | 29.568 | |
| 3,000.00 | 2,732.20 | 2,943.16 | 2,898.75 | 22.37 | 12.09 | -174.42 | 44.10 | 387.86 | 680.85 | 657.98 | 22.87 | 29.775 | |
| 3,100.00 | 2,817.33 | 3,038.60 | 2,991.21 | 23.44 | 12.59 | -174.52 | 44.54 | 411.50 | 710.68 | 686.96 | 23.72 | 29.964 | |
| 3,200.00 | 2,902.45 | 3,134.04 | 3,083.68 | 24.51 | 13.09 | -174.61 | 44.98 | 435.14 | 740.51 | 715.94 | 24.57 | 30.138 | |
| 3,300.00 | 2,987.57 | 3,229.48 | 3,176.15 | 25.58 | 13.59 | -174.69 | 45.42 | 458.78 | 770.34 | 744.91 | 25.43 | 30.298 | |
| 3,400.00 | 3,072.70 | 3,324.92 | 3,268.61 | 26.65 | 14.10 | -174.77 | 45.86 | 482.42 | 800.17 | 773.89 | 26.28 | 30.446 | |
| 3,500.00 | 3,157.82 | 3,420.36 | 3,361.08 | 27.73 | 14.60 | -174.84 | 46.30 | 506.06 | 830.00 | 802.86 | 27.14 | 30.583 | |
| 3,600.00 | 3,242.95 | 3,515.80 | 3,453.54 | 28.80 | 15.11 | -174.91 | 46.74 | 529.70 | 859.84 | 831.84 | 28.00 | 30.710 | |
| 3,700.00 | 3,328.07 | 3,611.25 | 3,546.01 | 29.88 | 15.62 | -174.97 | 47.18 | 553.34 | 889.68 | 860.82 | 28.86 | 30.829 | |
| 3,800.00 | 3,413.20 | 3,706.69 | 3,638.48 | 30.95 | 16.13 | -175.03 | 47.62 | 576.98 | 919.51 | 889.79 | 29.72 | 30.939 | |
| 3,900.00 | 3,498.32 | 3,802.13 | 3,730.94 | 32.03 | 16.64 | -175.09 | 48.06 | 600.62 | 949.35 | 918.77 | 30.58 | 31.043 | |
| 4,000.00 | 3,583.44 | 3,897.57 | 3,823.41 | 33.11 | 17.15 | -175.14 | 48.50 | 624.26 | 979.19 | 947.74 | 31.44 | 31.140 | |
| 4,100.00 | 3,668.57 | 3,993.01 | 3,915.87 | 34.18 | 17.66 | -175.19 | 48.95 | 647.90 | 1,009.03 | 976.72 | 32.31 | 31.231 | |
| 4,200.00 | 3,753.69 | 4,088.45 | 4,008.34 | 35.26 | 18.18 | -175.23 | 49.39 | 671.54 | 1,038.87 | 1,005.69 | 33.17 | 31.316 | |
| 4,300.00 | 3,838.82 | 4,183.89 | 4,100.81 | 36.34 | 18.69 | -175.27 | 49.83 | 695.18 | 1,068.71 | 1,034.67 | 34.04 | 31.397 | |
| 4,400.00 | 3,923.94 | 4,254.46 | 4,169.30 | 37.42 | 19.06 | -175.31 | 50.14 | 712.17 | 1,099.32 | 1,064.60 | 34.73 | 31.654 | |
| 4,500.00 | 4,009.06 | 4,300.00 | 4,213.78 | 38.50 | 19.29 | -175.34 | 50.33 | 721.91 | 1,132.92 | 1,097.73 | 35.20 | 32.189 | |
| 4,600.00 | 4,094.19 | 4,372.51 | 4,285.06 | 39.58 | 19.63 | -175.40 | 50.57 | 735.22 | 1,169.11 | 1,133.27 | 35.84 | 32.616 | |
| 4,700.00 | 4,179.31 | 4,429.45 | 4,341.35 | 40.66 | 19.87 | -175.47 | 50.73 | 743.77 | 1,208.21 | 1,171.88 | 36.33 | 33.254 | |
| 4,800.00 | 4,264.44 | 4,500.00 | 4,411.40 | 41.74 | 20.16 | -175.56 | 50.89 | 752.03 | 1,250.13 | 1,213.20 | 36.93 | 33.852 | |
| 4,900.00 | 4,349.56 | 4,538.92 | 4,450.17 | 42.82 | 20.30 | -175.61 | 50.95 | 755.48 | 1,294.31 | 1,257.13 | 37.18 | 34.811 | |
| 5,000.00 | 4,434.68 | 4,600.00 | 4,511.13 | 43.90 | 20.51 | -175.71 | 51.02 | 759.30 | 1,341.15 | 1,303.50 | 37.64 | 35.627 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 213H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,100.00 | 4,519.81 | 4,642.32 | 4,553.42 | 44.98 | 20.64 | -175.78 | 51.05 | 760.80 | 1,390.25 | 1,352.38 | 37.87 | 36.707 | |
| 5,200.00 | 4,604.93 | 4,693.84 | 4,604.93 | 46.06 | 20.79 | -175.87 | 51.06 | 761.37 | 1,441.66 | 1,403.47 | 38.19 | 37.746 | |
| 5,300.00 | 4,690.06 | 4,778.96 | 4,690.06 | 47.14 | 21.03 | -176.01 | 51.06 | 761.37 | 1,494.04 | 1,455.13 | 38.91 | 38.400 | |
| 5,400.00 | 4,775.18 | 4,851.12 | 4,762.22 | 48.22 | 21.23 | -176.13 | 51.06 | 761.37 | 1,546.48 | 1,507.01 | 39.47 | 39.181 | |
| 5,500.00 | 4,860.31 | 4,881.48 | 4,792.57 | 49.30 | 21.31 | -176.15 | 51.61 | 760.78 | 1,600.90 | 1,561.38 | 39.52 | 40.506 | |
| 5,600.00 | 4,945.43 | 4,900.00 | 4,811.04 | 50.38 | 21.35 | -176.15 | 52.48 | 759.84 | 1,658.34 | 1,618.94 | 39.40 | 42.087 | |
| 5,700.00 | 5,029.90 | 4,930.03 | 4,840.88 | 51.48 | 21.42 | 175.11 | 54.76 | 757.40 | 1,719.41 | 1,679.98 | 39.43 | 43.612 | |

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 214H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.00 | 74.28 | 30.01 | 80.12 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | 22.00 | 74.28 | 30.01 | 80.12 | 79.58 | 0.54 | 148.994 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | 22.00 | 74.28 | 30.01 | 80.12 | 78.86 | 1.25 | 63.855 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | 22.00 | 74.28 | 30.01 | 80.12 | 78.14 | 1.97 | 40.635 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | 22.00 | 74.28 | 30.01 | 80.12 | 77.43 | 2.69 | 29.799 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | 22.00 | 74.28 | 30.01 | 80.12 | 76.71 | 3.41 | 23.525 | |
| 600.00 | 599.95 | 599.95 | 599.95 | 2.05 | 2.06 | -72.64 | 74.28 | 30.01 | 79.29 | 75.18 | 4.11 | 19.272 | |
| 700.00 | 699.63 | 699.63 | 699.63 | 2.41 | 2.42 | -78.23 | 74.28 | 30.01 | 77.31 | 72.49 | 4.82 | 16.028 | |
| 800.00 | 798.77 | 798.77 | 798.77 | 2.78 | 2.77 | -87.91 | 74.28 | 30.01 | 75.72 | 70.17 | 5.55 | 13.646 | |
| 817.40 | 815.94 | 815.94 | 815.94 | 2.85 | 2.84 | -90.00 | 74.28 | 30.01 | 75.67 | 69.99 | 5.68 | 13.322 | CC, ES |
| 900.00 | 897.08 | 897.08 | 897.08 | 3.18 | 3.13 | -101.28 | 74.28 | 30.01 | 77.23 | 70.93 | 6.30 | 12.262 | |
| 1,000.00 | 994.31 | 994.31 | 994.31 | 3.62 | 3.47 | -116.33 | 74.28 | 30.01 | 85.02 | 77.96 | 7.06 | 12.039 | SF |
| 1,100.00 | 1,090.18 | 1,087.00 | 1,086.97 | 4.11 | 3.80 | -130.55 | 74.41 | 28.03 | 102.58 | 94.79 | 7.79 | 13.161 | |
| 1,200.00 | 1,184.43 | 1,174.61 | 1,174.37 | 4.68 | 4.11 | -142.19 | 74.81 | 22.05 | 132.75 | 124.29 | 8.46 | 15.686 | |
| 1,300.00 | 1,276.81 | 1,256.35 | 1,255.58 | 5.32 | 4.40 | -150.43 | 75.42 | 12.87 | 174.79 | 165.72 | 9.07 | 19.266 | |
| 1,400.00 | 1,367.06 | 1,331.57 | 1,329.91 | 6.05 | 4.68 | -155.96 | 76.18 | 1.36 | 226.97 | 217.34 | 9.63 | 23.571 | |
| 1,500.00 | 1,454.93 | 1,400.00 | 1,397.08 | 6.88 | 4.94 | -159.66 | 77.05 | -11.63 | 287.71 | 277.58 | 10.14 | 28.384 | |
| 1,600.00 | 1,540.46 | 1,461.60 | 1,457.12 | 7.81 | 5.19 | -162.50 | 77.96 | -25.38 | 355.38 | 344.77 | 10.60 | 33.521 | |
| 1,700.00 | 1,625.59 | 1,519.05 | 1,512.68 | 8.78 | 5.44 | -164.89 | 78.93 | -39.93 | 426.39 | 415.38 | 11.01 | 38.727 | |
| 1,800.00 | 1,710.71 | 1,572.99 | 1,564.43 | 9.77 | 5.68 | -166.64 | 79.93 | -55.11 | 499.76 | 488.37 | 11.39 | 43.877 | |
| 1,900.00 | 1,795.84 | 1,623.66 | 1,612.64 | 10.79 | 5.92 | -167.97 | 80.97 | -70.69 | 575.18 | 563.42 | 11.75 | 48.932 | |
| 2,000.00 | 1,880.96 | 1,671.28 | 1,657.55 | 11.81 | 6.17 | -169.02 | 82.02 | -86.50 | 652.40 | 640.30 | 12.10 | 53.935 | |
| 2,100.00 | 1,966.09 | 1,716.07 | 1,699.41 | 12.85 | 6.41 | -169.86 | 83.07 | -102.37 | 731.24 | 718.82 | 12.42 | 58.880 | |
| 2,200.00 | 2,051.21 | 1,758.22 | 1,738.46 | 13.89 | 6.65 | -170.55 | 84.12 | -118.20 | 811.52 | 798.80 | 12.72 | 63.777 | |
| 2,300.00 | 2,136.33 | 1,800.00 | 1,776.81 | 14.94 | 6.89 | -171.15 | 85.22 | -134.74 | 893.13 | 880.09 | 13.04 | 68.507 | |
| 2,400.00 | 2,221.46 | 1,835.35 | 1,808.97 | 15.99 | 7.12 | -171.60 | 86.19 | -149.39 | 975.91 | 962.62 | 13.29 | 73.436 | |
| 2,500.00 | 2,306.58 | 1,870.67 | 1,840.83 | 17.05 | 7.36 | -172.02 | 87.21 | -164.61 | 1,059.79 | 1,046.24 | 13.55 | 78.206 | |
| 2,600.00 | 2,391.71 | 1,900.00 | 1,867.06 | 18.10 | 7.55 | -172.33 | 88.07 | -177.69 | 1,144.67 | 1,130.91 | 13.76 | 83.217 | |
| 2,700.00 | 2,476.83 | 1,939.59 | 1,902.16 | 19.17 | 7.84 | -172.72 | 89.29 | -195.97 | 1,230.41 | 1,216.33 | 14.08 | 87.363 | |
| 2,800.00 | 2,561.95 | 1,990.30 | 1,946.98 | 20.23 | 8.21 | -173.16 | 90.86 | -219.63 | 1,316.46 | 1,301.91 | 14.54 | 90.517 | |
| 2,900.00 | 2,647.08 | 2,041.00 | 1,991.80 | 21.30 | 8.61 | -173.54 | 92.43 | -243.29 | 1,402.52 | 1,387.51 | 15.01 | 93.445 | |
| 3,000.00 | 2,732.20 | 2,091.71 | 2,036.62 | 22.37 | 9.00 | -173.88 | 94.00 | -266.95 | 1,488.60 | 1,473.12 | 15.48 | 96.171 | |
| 3,100.00 | 2,817.33 | 2,142.41 | 2,081.44 | 23.44 | 9.41 | -174.19 | 95.57 | -290.61 | 1,574.69 | 1,558.74 | 15.95 | 98.707 | |
| 3,200.00 | 2,902.45 | 2,193.12 | 2,126.26 | 24.51 | 9.82 | -174.46 | 97.14 | -314.27 | 1,660.79 | 1,644.36 | 16.43 | 101.075 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 215H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.61 | 18.57 | 7.36 | 19.97 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | 21.61 | 18.57 | 7.36 | 19.97 | 19.44 | 0.54 | 37.147 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | 21.61 | 18.57 | 7.36 | 19.97 | 18.72 | 1.25 | 15.920 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | 21.61 | 18.57 | 7.36 | 19.97 | 18.00 | 1.97 | 10.131 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | 21.61 | 18.57 | 7.36 | 19.97 | 17.29 | 2.69 | 7.429 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | 21.61 | 18.57 | 7.36 | 19.97 | 16.57 | 3.41 | 5.865 | |
| 600.00 | 599.95 | 599.95 | 599.95 | 2.05 | 2.06 | -78.61 | 18.57 | 7.36 | 19.29 | 15.18 | 4.11 | 4.689 | |
| 656.77 | 656.59 | 656.59 | 656.59 | 2.25 | 2.26 | -90.00 | 18.57 | 7.36 | 18.91 | 14.39 | 4.52 | 4.186 | CC, ES |
| 700.00 | 699.63 | 699.63 | 699.63 | 2.41 | 2.42 | -101.97 | 18.57 | 7.36 | 19.34 | 14.51 | 4.82 | 4.009 | SF |
| 800.00 | 798.77 | 798.77 | 798.77 | 2.78 | 2.77 | -131.74 | 18.57 | 7.36 | 25.48 | 19.94 | 5.54 | 4.598 | |
| 900.00 | 897.08 | 897.08 | 897.08 | 3.18 | 3.13 | -151.29 | 18.57 | 7.36 | 40.05 | 33.79 | 6.26 | 6.396 | |
| 1,000.00 | 994.31 | 994.31 | 994.31 | 3.62 | 3.47 | -161.54 | 18.57 | 7.36 | 61.62 | 54.64 | 6.98 | 8.830 | |
| 1,100.00 | 1,090.18 | 1,086.56 | 1,086.53 | 4.11 | 3.80 | -167.58 | 18.13 | 5.44 | 90.88 | 83.21 | 7.67 | 11.850 | |
| 1,200.00 | 1,184.43 | 1,173.85 | 1,173.61 | 4.68 | 4.10 | -171.76 | 16.79 | -0.35 | 129.57 | 121.25 | 8.32 | 15.575 | |
| 1,300.00 | 1,276.81 | 1,255.43 | 1,254.67 | 5.32 | 4.39 | -174.60 | 14.73 | -9.26 | 177.06 | 168.14 | 8.93 | 19.832 | |
| 1,400.00 | 1,367.06 | 1,330.67 | 1,329.02 | 6.05 | 4.66 | -176.59 | 12.15 | -20.47 | 232.60 | 223.11 | 9.49 | 24.498 | |
| 1,500.00 | 1,454.93 | 1,400.00 | 1,397.08 | 6.88 | 4.92 | -178.06 | 9.18 | -33.31 | 295.41 | 285.39 | 10.02 | 29.473 | |
| 1,600.00 | 1,540.46 | 1,461.18 | 1,456.71 | 7.81 | 5.17 | -179.16 | 6.11 | -46.64 | 364.33 | 353.83 | 10.50 | 34.714 | |
| 1,700.00 | 1,625.59 | 1,519.03 | 1,512.66 | 8.78 | 5.42 | 179.96 | 2.81 | -60.94 | 436.03 | 425.11 | 10.92 | 39.935 | |
| 1,800.00 | 1,710.71 | 1,573.44 | 1,564.86 | 9.77 | 5.66 | 179.26 | -0.65 | -75.90 | 509.73 | 498.42 | 11.32 | 45.048 | |
| 1,900.00 | 1,795.84 | 1,624.62 | 1,613.54 | 10.79 | 5.91 | 178.68 | -4.20 | -91.28 | 585.25 | 573.55 | 11.70 | 50.035 | |
| 2,000.00 | 1,880.96 | 1,672.79 | 1,658.96 | 11.81 | 6.15 | 178.19 | -7.81 | -106.92 | 662.43 | 650.37 | 12.06 | 54.945 | |
| 2,100.00 | 1,966.09 | 1,718.15 | 1,701.35 | 12.85 | 6.39 | 177.78 | -11.44 | -122.66 | 741.12 | 728.73 | 12.40 | 59.781 | |
| 2,200.00 | 2,051.21 | 1,760.89 | 1,740.92 | 13.89 | 6.64 | 177.41 | -15.07 | -138.39 | 821.20 | 808.48 | 12.72 | 64.555 | |
| 2,300.00 | 2,136.33 | 1,800.00 | 1,776.81 | 14.94 | 6.86 | 177.10 | -18.57 | -153.53 | 902.55 | 889.54 | 13.01 | 69.351 | |
| 2,400.00 | 2,221.46 | 1,839.23 | 1,812.48 | 15.99 | 7.12 | 176.81 | -22.24 | -169.44 | 985.06 | 971.73 | 13.32 | 73.943 | |
| 2,500.00 | 2,306.58 | 1,875.16 | 1,844.85 | 17.05 | 7.36 | 176.55 | -25.74 | -184.63 | 1,068.63 | 1,055.03 | 13.60 | 78.568 | |
| 2,600.00 | 2,391.71 | 1,911.26 | 1,877.08 | 18.10 | 7.60 | 176.30 | -29.40 | -200.48 | 1,153.17 | 1,139.28 | 13.89 | 83.011 | |
| 2,700.00 | 2,476.83 | 1,963.94 | 1,923.95 | 19.17 | 7.98 | 175.98 | -34.81 | -223.91 | 1,238.10 | 1,223.71 | 14.38 | 86.095 | |
| 2,800.00 | 2,561.95 | 2,016.63 | 1,970.82 | 20.23 | 8.36 | 175.70 | -40.22 | -247.35 | 1,323.03 | 1,308.15 | 14.88 | 88.942 | |
| 2,900.00 | 2,647.08 | 2,069.31 | 2,017.69 | 21.30 | 8.76 | 175.45 | -45.63 | -270.79 | 1,407.97 | 1,392.59 | 15.38 | 91.572 | |
| 3,000.00 | 2,732.20 | 2,121.99 | 2,064.57 | 22.37 | 9.17 | 175.23 | -51.04 | -294.22 | 1,492.91 | 1,477.03 | 15.88 | 94.007 | |
| 3,100.00 | 2,817.33 | 2,174.68 | 2,111.44 | 23.44 | 9.58 | 175.03 | -56.45 | -317.66 | 1,577.86 | 1,561.47 | 16.39 | 96.265 | |
| 3,200.00 | 2,902.45 | 2,227.36 | 2,158.31 | 24.51 | 10.00 | 174.86 | -61.86 | -341.10 | 1,662.82 | 1,645.91 | 16.91 | 98.362 | |

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 216H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.13 | 55.71 | 22.66 | 60.14 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | 22.13 | 55.71 | 22.66 | 60.14 | 59.60 | 0.54 | 111.849 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | 22.13 | 55.71 | 22.66 | 60.14 | 58.89 | 1.25 | 47.935 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | 22.13 | 55.71 | 22.66 | 60.14 | 58.17 | 1.97 | 30.504 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | 22.13 | 55.71 | 22.66 | 60.14 | 57.45 | 2.69 | 22.370 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | 22.13 | 55.71 | 22.66 | 60.14 | 56.74 | 3.41 | 17.660 | |
| 600.00 | 599.95 | 599.95 | 599.95 | 2.05 | 2.06 | -73.11 | 55.71 | 22.66 | 59.33 | 55.21 | 4.11 | 14.419 | |
| 700.00 | 699.63 | 699.63 | 699.63 | 2.41 | 2.42 | -80.63 | 55.71 | 22.66 | 57.54 | 52.71 | 4.82 | 11.928 | |
| 775.76 | 774.80 | 774.80 | 774.80 | 2.69 | 2.69 | -89.99 | 55.71 | 22.66 | 56.76 | 51.39 | 5.37 | 10.563 | CC |
| 800.00 | 798.77 | 798.77 | 798.77 | 2.78 | 2.77 | -93.62 | 55.71 | 22.66 | 56.88 | 51.33 | 5.55 | 10.250 | ES |
| 900.00 | 897.08 | 897.08 | 897.08 | 3.18 | 3.13 | -110.64 | 55.71 | 22.66 | 60.82 | 54.53 | 6.29 | 9.665 | SF |
| 1,000.00 | 994.31 | 994.31 | 994.31 | 3.62 | 3.47 | -127.56 | 55.71 | 22.66 | 72.56 | 65.52 | 7.04 | 10.307 | |
| 1,100.00 | 1,090.18 | 1,087.12 | 1,087.09 | 4.11 | 3.80 | -141.45 | 55.55 | 20.67 | 94.40 | 86.66 | 7.75 | 12.185 | |
| 1,200.00 | 1,184.43 | 1,174.88 | 1,174.63 | 4.68 | 4.10 | -151.76 | 55.07 | 14.68 | 128.08 | 119.68 | 8.40 | 15.245 | |
| 1,300.00 | 1,276.81 | 1,256.77 | 1,256.00 | 5.32 | 4.40 | -158.70 | 54.32 | 5.48 | 172.50 | 163.49 | 9.01 | 19.153 | |
| 1,400.00 | 1,367.06 | 1,332.16 | 1,330.49 | 6.05 | 4.67 | -163.29 | 53.39 | -6.06 | 226.21 | 216.65 | 9.56 | 23.652 | |
| 1,500.00 | 1,454.93 | 1,400.00 | 1,397.08 | 6.88 | 4.93 | -166.34 | 52.35 | -18.94 | 287.96 | 277.89 | 10.07 | 28.603 | |
| 1,600.00 | 1,540.46 | 1,462.53 | 1,458.02 | 7.81 | 5.19 | -168.74 | 51.22 | -32.90 | 356.28 | 345.74 | 10.54 | 33.790 | |
| 1,700.00 | 1,625.59 | 1,520.16 | 1,513.75 | 8.78 | 5.43 | -170.68 | 50.04 | -47.51 | 427.71 | 416.75 | 10.96 | 39.039 | |
| 1,800.00 | 1,710.71 | 1,574.28 | 1,565.66 | 9.77 | 5.68 | -172.14 | 48.80 | -62.76 | 501.33 | 489.99 | 11.34 | 44.210 | |
| 1,900.00 | 1,795.84 | 1,625.12 | 1,614.02 | 10.79 | 5.92 | -173.26 | 47.54 | -78.41 | 576.90 | 565.19 | 11.71 | 49.273 | |
| 2,000.00 | 1,880.96 | 1,672.92 | 1,659.08 | 11.81 | 6.16 | -174.16 | 46.25 | -94.29 | 654.21 | 642.16 | 12.05 | 54.274 | |
| 2,100.00 | 1,966.09 | 1,717.87 | 1,701.08 | 12.85 | 6.41 | -174.89 | 44.96 | -110.24 | 733.10 | 720.72 | 12.38 | 59.211 | |
| 2,200.00 | 2,051.21 | 1,760.18 | 1,740.27 | 13.89 | 6.65 | -175.51 | 43.68 | -126.16 | 813.40 | 800.71 | 12.69 | 64.094 | |
| 2,300.00 | 2,136.33 | 1,800.00 | 1,776.81 | 14.94 | 6.88 | -176.02 | 42.40 | -141.92 | 895.00 | 882.02 | 12.98 | 68.933 | |
| 2,400.00 | 2,221.46 | 1,837.62 | 1,811.03 | 15.99 | 7.12 | -176.47 | 41.14 | -157.51 | 977.78 | 964.51 | 13.26 | 73.719 | |
| 2,500.00 | 2,306.58 | 1,877.84 | 1,847.28 | 17.05 | 7.38 | -176.90 | 39.74 | -174.88 | 1,061.60 | 1,048.01 | 13.58 | 78.160 | |
| 2,600.00 | 2,391.71 | 1,931.64 | 1,895.66 | 18.10 | 7.76 | -177.41 | 37.84 | -198.33 | 1,145.73 | 1,131.66 | 14.06 | 81.473 | |
| 2,700.00 | 2,476.83 | 1,985.44 | 1,944.04 | 19.17 | 8.13 | -177.85 | 35.94 | -221.78 | 1,229.88 | 1,215.33 | 14.55 | 84.533 | |
| 2,800.00 | 2,561.95 | 2,039.23 | 1,992.42 | 20.23 | 8.53 | -178.23 | 34.05 | -245.23 | 1,314.05 | 1,299.01 | 15.04 | 87.363 | |
| 2,900.00 | 2,647.08 | 2,093.03 | 2,040.80 | 21.30 | 8.92 | -178.57 | 32.15 | -268.68 | 1,398.23 | 1,382.70 | 15.54 | 89.989 | |
| 3,000.00 | 2,732.20 | 2,146.83 | 2,089.18 | 22.37 | 9.33 | -178.87 | 30.26 | -292.13 | 1,482.43 | 1,466.39 | 16.04 | 92.423 | |
| 3,100.00 | 2,817.33 | 2,200.62 | 2,137.55 | 23.44 | 9.74 | -179.13 | 28.36 | -315.58 | 1,566.64 | 1,550.10 | 16.54 | 94.690 | |
| 3,200.00 | 2,902.45 | 2,254.42 | 2,185.93 | 24.51 | 10.16 | -179.37 | 26.46 | -339.03 | 1,650.86 | 1,633.81 | 17.05 | 96.799 | |
| 3,300.00 | 2,987.57 | 2,308.21 | 2,234.31 | 25.58 | 10.58 | -179.59 | 24.57 | -362.48 | 1,735.09 | 1,717.52 | 17.57 | 98.772 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 217H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -157.21 | -18.21 | -7.65 | 19.75 | | | | |
| 100.00 | 100.00 | 100.00 | 100.00 | 0.27 | 0.27 | -157.21 | -18.21 | -7.65 | 19.75 | 19.21 | 0.54 | 36.727 | |
| 200.00 | 200.00 | 200.00 | 200.00 | 0.63 | 0.63 | -157.21 | -18.21 | -7.65 | 19.75 | 18.49 | 1.25 | 15.740 | |
| 300.00 | 300.00 | 300.00 | 300.00 | 0.99 | 0.99 | -157.21 | -18.21 | -7.65 | 19.75 | 17.78 | 1.97 | 10.017 | |
| 400.00 | 400.00 | 400.00 | 400.00 | 1.34 | 1.34 | -157.21 | -18.21 | -7.65 | 19.75 | 17.06 | 2.69 | 7.345 | |
| 500.00 | 500.00 | 500.00 | 500.00 | 1.70 | 1.70 | -157.21 | -18.21 | -7.65 | 19.75 | 16.34 | 3.41 | 5.799 | CC, ES |
| 600.00 | 599.95 | 599.95 | 599.95 | 2.05 | 2.06 | 116.73 | -18.21 | -7.65 | 20.79 | 16.67 | 4.11 | 5.052 | |
| 700.00 | 699.63 | 699.63 | 699.63 | 2.41 | 2.42 | 132.67 | -18.21 | -7.65 | 25.31 | 20.49 | 4.82 | 5.246 | |
| 800.00 | 798.77 | 798.77 | 798.77 | 2.78 | 2.77 | 148.15 | -18.21 | -7.65 | 35.50 | 29.95 | 5.54 | 6.405 | |
| 900.00 | 897.08 | 897.08 | 897.08 | 3.18 | 3.13 | 158.62 | -18.21 | -7.65 | 51.91 | 45.65 | 6.26 | 8.290 | |
| 1,000.00 | 994.31 | 994.31 | 994.31 | 3.62 | 3.47 | 165.02 | -18.21 | -7.65 | 74.18 | 67.20 | 6.98 | 10.626 | |
| 1,100.00 | 1,090.18 | 1,090.18 | 1,090.18 | 4.11 | 3.82 | 168.98 | -18.21 | -7.65 | 101.92 | 94.22 | 7.70 | 13.241 | |
| 1,200.00 | 1,184.43 | 1,184.43 | 1,184.43 | 4.68 | 4.16 | 171.54 | -18.21 | -7.65 | 134.88 | 126.47 | 8.41 | 16.033 | |
| 1,300.00 | 1,276.81 | 1,276.81 | 1,276.81 | 5.32 | 4.49 | 173.26 | -18.21 | -7.65 | 172.86 | 163.73 | 9.12 | 18.943 | |
| 1,400.00 | 1,367.06 | 1,367.06 | 1,367.06 | 6.05 | 4.81 | 174.46 | -18.21 | -7.65 | 215.71 | 205.87 | 9.83 | 21.936 | |
| 1,500.00 | 1,454.93 | 1,454.93 | 1,454.93 | 6.88 | 5.13 | 175.33 | -18.21 | -7.65 | 263.27 | 252.74 | 10.54 | 24.989 | |
| 1,600.00 | 1,540.46 | 1,543.09 | 1,543.08 | 7.81 | 5.44 | 176.15 | -17.75 | -7.47 | 314.79 | 303.54 | 11.25 | 27.987 | |
| 1,700.00 | 1,625.59 | 1,634.77 | 1,634.66 | 8.78 | 5.77 | 177.45 | -13.77 | -5.93 | 365.78 | 353.81 | 11.96 | 30.575 | |
| 1,800.00 | 1,710.71 | 1,727.54 | 1,727.00 | 9.77 | 6.10 | 179.10 | -5.58 | -2.76 | 415.47 | 402.77 | 12.69 | 32.731 | |
| 1,900.00 | 1,795.84 | 1,820.96 | 1,819.45 | 10.79 | 6.44 | -179.02 | 6.88 | 2.07 | 464.03 | 450.59 | 13.44 | 34.522 | |
| 2,000.00 | 1,880.96 | 1,911.16 | 1,908.09 | 11.81 | 6.77 | -177.09 | 22.46 | 8.10 | 511.83 | 497.63 | 14.19 | 36.062 | |
| 2,100.00 | 1,966.09 | 1,997.88 | 1,993.20 | 12.85 | 7.10 | -175.49 | 37.95 | 14.10 | 559.84 | 544.89 | 14.95 | 37.456 | |
| 2,200.00 | 2,051.21 | 2,084.59 | 2,078.30 | 13.89 | 7.44 | -174.14 | 53.44 | 20.10 | 608.14 | 592.42 | 15.72 | 38.684 | |
| 2,300.00 | 2,136.33 | 2,171.30 | 2,163.41 | 14.94 | 7.79 | -172.98 | 68.93 | 26.09 | 656.67 | 640.16 | 16.51 | 39.773 | |
| 2,400.00 | 2,221.46 | 2,258.01 | 2,248.51 | 15.99 | 8.14 | -171.98 | 84.42 | 32.09 | 705.37 | 688.06 | 17.31 | 40.738 | |
| 2,500.00 | 2,306.58 | 2,344.72 | 2,333.62 | 17.05 | 8.50 | -171.11 | 99.91 | 38.09 | 754.22 | 736.09 | 18.13 | 41.595 | |
| 2,600.00 | 2,391.71 | 2,431.43 | 2,418.72 | 18.10 | 8.86 | -170.34 | 115.40 | 44.09 | 803.19 | 784.23 | 18.96 | 42.359 | |
| 2,700.00 | 2,476.83 | 2,518.14 | 2,503.83 | 19.17 | 9.22 | -169.66 | 130.89 | 50.09 | 852.25 | 832.45 | 19.80 | 43.042 | |
| 2,800.00 | 2,561.95 | 2,604.85 | 2,588.94 | 20.23 | 9.59 | -169.06 | 146.38 | 56.09 | 901.40 | 880.75 | 20.65 | 43.655 | |
| 2,900.00 | 2,647.08 | 2,691.57 | 2,674.04 | 21.30 | 9.96 | -168.51 | 161.87 | 62.09 | 950.62 | 929.11 | 21.50 | 44.205 | |
| 3,000.00 | 2,732.20 | 2,778.28 | 2,759.15 | 22.37 | 10.33 | -168.02 | 177.36 | 68.08 | 999.89 | 977.53 | 22.37 | 44.703 | |
| 3,100.00 | 2,817.33 | 2,864.99 | 2,844.25 | 23.44 | 10.71 | -167.58 | 192.85 | 74.08 | 1,049.22 | 1,025.98 | 23.24 | 45.154 | |
| 3,200.00 | 2,902.45 | 2,951.70 | 2,929.36 | 24.51 | 11.08 | -167.18 | 208.34 | 80.08 | 1,098.59 | 1,074.48 | 24.11 | 45.564 | |
| 3,300.00 | 2,987.57 | 3,038.41 | 3,014.46 | 25.58 | 11.46 | -166.81 | 223.83 | 86.08 | 1,148.00 | 1,123.01 | 24.99 | 45.937 | |
| 3,400.00 | 3,072.70 | 3,125.12 | 3,099.57 | 26.65 | 11.85 | -166.47 | 239.32 | 92.08 | 1,197.44 | 1,171.57 | 25.87 | 46.279 | |
| 3,500.00 | 3,157.82 | 3,211.83 | 3,184.67 | 27.73 | 12.23 | -166.15 | 254.81 | 98.08 | 1,246.91 | 1,220.15 | 26.76 | 46.591 | |
| 3,600.00 | 3,242.95 | 3,298.54 | 3,269.78 | 28.80 | 12.61 | -165.86 | 270.30 | 104.07 | 1,296.41 | 1,268.75 | 27.65 | 46.879 | |
| 3,700.00 | 3,328.07 | 3,385.26 | 3,354.88 | 29.88 | 13.00 | -165.60 | 285.79 | 110.07 | 1,345.93 | 1,317.38 | 28.55 | 47.143 | |
| 3,800.00 | 3,413.20 | 3,471.97 | 3,439.99 | 30.95 | 13.39 | -165.35 | 301.28 | 116.07 | 1,395.47 | 1,366.02 | 29.45 | 47.387 | |
| 3,900.00 | 3,498.32 | 3,558.68 | 3,525.09 | 32.03 | 13.77 | -165.11 | 316.77 | 122.07 | 1,445.03 | 1,414.68 | 30.35 | 47.613 | |
| 4,000.00 | 3,583.44 | 3,645.39 | 3,610.20 | 33.11 | 14.16 | -164.90 | 332.26 | 128.07 | 1,494.60 | 1,463.35 | 31.25 | 47.822 | |
| 4,100.00 | 3,668.57 | 3,732.10 | 3,695.31 | 34.18 | 14.55 | -164.69 | 347.75 | 134.07 | 1,544.20 | 1,512.04 | 32.16 | 48.017 | |
| 4,200.00 | 3,753.69 | 3,818.81 | 3,780.41 | 35.26 | 14.94 | -164.50 | 363.24 | 140.07 | 1,593.80 | 1,560.73 | 33.07 | 48.198 | |
| 4,300.00 | 3,838.82 | 6,647.11 | 5,322.06 | 36.34 | 37.41 | 155.75 | -572.89 | 1,285.65 | 1,621.37 | 1,583.63 | 37.74 | 42.967 | |
| 4,400.00 | 3,923.94 | 6,686.43 | 5,321.71 | 37.42 | 38.19 | 154.17 | -599.72 | 1,314.40 | 1,558.21 | 1,517.75 | 40.46 | 38.510 | |
| 4,500.00 | 4,009.06 | 6,725.75 | 5,321.35 | 38.50 | 38.98 | 152.56 | -626.54 | 1,343.16 | 1,498.04 | 1,454.60 | 43.45 | 34.479 | |
| 4,600.00 | 4,094.19 | 6,765.08 | 5,321.00 | 39.58 | 39.77 | 150.93 | -653.36 | 1,371.91 | 1,441.23 | 1,394.54 | 46.70 | 30.865 | |
| 4,700.00 | 4,179.31 | 6,804.40 | 5,320.64 | 40.66 | 40.56 | 149.26 | -680.18 | 1,400.66 | 1,388.19 | 1,337.98 | 50.21 | 27.649 | |
| 4,800.00 | 4,264.44 | 6,843.72 | 5,320.29 | 41.74 | 41.36 | 147.57 | -707.00 | 1,429.41 | 1,339.37 | 1,285.39 | 53.97 | 24.815 | |
| 4,900.00 | 4,349.56 | 6,883.04 | 5,319.93 | 42.82 | 42.17 | 145.86 | -733.82 | 1,458.16 | 1,295.24 | 1,237.27 | 57.97 | 22.345 | |
| 5,000.00 | 4,434.68 | 6,922.36 | 5,319.58 | 43.90 | 42.97 | 144.12 | -760.65 | 1,486.92 | 1,256.30 | 1,194.15 | 62.14 | 20.217 | |
| 5,100.00 | 4,519.81 | 6,961.68 | 5,319.23 | 44.98 | 43.79 | 142.37 | -787.47 | 1,515.67 | 1,223.04 | 1,156.60 | 66.44 | 18.408 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 217H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Rule Assigned: Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5,200.00 | 4,604.93 | 7,001.01 | 5,318.87 | 46.06 | 44.60 | 140.60 | -814.29 | 1,544.42 | 1,195.95 | 1,125.17 | 70.78 | 16.897 | |
| 5,300.00 | 4,690.06 | 7,040.33 | 5,318.52 | 47.14 | 45.42 | 138.82 | -841.11 | 1,573.17 | 1,175.44 | 1,100.38 | 75.06 | 15.659 | |
| 5,400.00 | 4,775.18 | 7,079.65 | 5,318.16 | 48.22 | 46.25 | 137.04 | -867.93 | 1,601.92 | 1,161.87 | 1,082.69 | 79.18 | 14.674 | |
| 5,500.00 | 4,860.31 | 7,118.97 | 5,317.81 | 49.30 | 47.07 | 135.24 | -894.76 | 1,630.68 | 1,155.47 | 1,072.45 | 83.03 | 13.917 | |
| 5,537.60 | 4,892.31 | 7,133.76 | 5,317.67 | 49.70 | 47.39 | 134.57 | -904.84 | 1,641.49 | 1,154.95 | 1,070.57 | 84.38 | 13.687 | |
| 5,600.00 | 4,945.43 | 7,158.29 | 5,317.45 | 50.38 | 47.91 | 133.45 | -921.58 | 1,659.43 | 1,156.38 | 1,069.87 | 86.51 | 13.367 | |
| 5,700.00 | 5,029.90 | 7,199.39 | 5,317.08 | 51.48 | 48.77 | 125.42 | -949.61 | 1,689.48 | 1,164.11 | 1,074.51 | 89.61 | 12.991 | |
| 5,800.00 | 5,108.53 | 7,253.45 | 5,316.59 | 52.74 | 49.93 | 113.23 | -986.48 | 1,729.01 | 1,174.87 | 1,082.18 | 92.70 | 12.675 | |
| 5,900.00 | 5,178.25 | 7,321.00 | 5,315.98 | 54.15 | 51.37 | 103.91 | -1,032.56 | 1,778.40 | 1,185.87 | 1,089.98 | 95.89 | 12.367 | |
| 6,000.00 | 5,236.96 | 7,400.00 | 5,315.27 | 55.64 | 53.07 | 96.91 | -1,086.44 | 1,836.16 | 1,194.68 | 1,095.44 | 99.24 | 12.038 | |
| 6,100.00 | 5,282.86 | 7,488.04 | 5,314.48 | 57.18 | 54.97 | 92.02 | -1,146.50 | 1,900.53 | 1,199.08 | 1,096.30 | 102.78 | 11.667 | |
| 6,200.00 | 5,314.17 | 7,582.59 | 5,313.62 | 58.74 | 57.02 | 89.97 | -1,210.99 | 1,969.67 | 1,199.07 | 1,092.56 | 106.51 | 11.258 | |
| 6,205.67 | 5,315.45 | 7,588.10 | 5,313.58 | 58.84 | 57.14 | 89.91 | -1,214.75 | 1,973.70 | 1,199.07 | 1,092.34 | 106.73 | 11.234 | |
| 6,300.00 | 5,328.64 | 7,681.28 | 5,312.73 | 60.38 | 59.18 | 89.24 | -1,278.31 | 2,041.83 | 1,199.14 | 1,088.67 | 110.47 | 10.855 | |
| 6,400.00 | 5,329.05 | 7,781.25 | 5,311.83 | 62.04 | 61.37 | 89.18 | -1,346.50 | 2,114.93 | 1,199.12 | 1,084.54 | 114.58 | 10.465 | |
| 6,500.00 | 5,328.19 | 7,881.25 | 5,310.93 | 63.74 | 63.57 | 89.18 | -1,414.71 | 2,188.05 | 1,199.08 | 1,080.35 | 118.73 | 10.099 | |
| 6,600.00 | 5,327.33 | 7,981.25 | 5,310.03 | 65.47 | 65.78 | 89.17 | -1,482.92 | 2,261.17 | 1,199.03 | 1,076.12 | 122.92 | 9.755 | |
| 6,700.00 | 5,326.47 | 8,081.25 | 5,309.13 | 67.24 | 68.00 | 89.17 | -1,551.13 | 2,334.29 | 1,198.99 | 1,071.85 | 127.14 | 9.431 | |
| 6,800.00 | 5,325.61 | 8,181.25 | 5,308.22 | 69.04 | 70.23 | 89.17 | -1,619.34 | 2,407.41 | 1,198.95 | 1,067.56 | 131.39 | 9.125 | |
| 6,900.00 | 5,324.75 | 8,281.25 | 5,307.32 | 70.87 | 72.46 | 89.17 | -1,687.55 | 2,480.53 | 1,198.91 | 1,063.25 | 135.66 | 8.837 | |
| 7,000.00 | 5,323.89 | 8,381.25 | 5,306.42 | 72.73 | 74.69 | 89.17 | -1,755.76 | 2,553.65 | 1,198.87 | 1,058.90 | 139.96 | 8.566 | |
| 7,100.00 | 5,323.02 | 8,481.25 | 5,305.52 | 74.61 | 76.93 | 89.16 | -1,823.97 | 2,626.77 | 1,198.82 | 1,054.54 | 144.28 | 8.309 | |
| 7,200.00 | 5,322.16 | 8,581.25 | 5,304.62 | 76.52 | 79.18 | 89.16 | -1,892.19 | 2,699.89 | 1,198.78 | 1,050.16 | 148.62 | 8.066 | |
| 7,300.00 | 5,321.30 | 8,681.25 | 5,303.72 | 78.45 | 81.43 | 89.16 | -1,960.40 | 2,773.01 | 1,198.74 | 1,045.76 | 152.98 | 7.836 | |
| 7,400.00 | 5,320.44 | 8,781.25 | 5,302.81 | 80.40 | 83.69 | 89.16 | -2,028.61 | 2,846.13 | 1,198.70 | 1,041.34 | 157.36 | 7.618 | |
| 7,500.00 | 5,319.58 | 8,881.25 | 5,301.91 | 82.36 | 85.94 | 89.16 | -2,096.82 | 2,919.24 | 1,198.66 | 1,036.91 | 161.75 | 7.411 | |
| 7,600.00 | 5,318.72 | 8,981.25 | 5,301.01 | 84.35 | 88.20 | 89.15 | -2,165.03 | 2,992.36 | 1,198.62 | 1,032.46 | 166.15 | 7.214 | |
| 7,700.00 | 5,317.86 | 9,081.25 | 5,300.11 | 86.36 | 90.47 | 89.15 | -2,233.24 | 3,065.48 | 1,198.57 | 1,028.00 | 170.57 | 7.027 | |
| 7,800.00 | 5,317.00 | 9,181.25 | 5,299.21 | 88.38 | 92.73 | 89.15 | -2,301.45 | 3,138.60 | 1,198.53 | 1,023.53 | 175.00 | 6.849 | |
| 7,900.00 | 5,316.14 | 9,281.25 | 5,298.30 | 90.41 | 95.00 | 89.15 | -2,369.66 | 3,211.72 | 1,198.49 | 1,019.05 | 179.44 | 6.679 | |
| 8,000.00 | 5,315.28 | 9,381.25 | 5,297.40 | 92.46 | 97.28 | 89.15 | -2,437.87 | 3,284.84 | 1,198.45 | 1,014.56 | 183.89 | 6.517 | |
| 8,100.00 | 5,314.42 | 9,481.25 | 5,296.50 | 94.52 | 99.55 | 89.14 | -2,506.08 | 3,357.96 | 1,198.41 | 1,010.06 | 188.35 | 6.363 | |
| 8,200.00 | 5,313.55 | 9,581.25 | 5,295.60 | 96.59 | 101.83 | 89.14 | -2,574.29 | 3,431.08 | 1,198.37 | 1,005.55 | 192.82 | 6.215 | |
| 8,300.00 | 5,312.69 | 9,681.25 | 5,294.70 | 98.68 | 104.11 | 89.14 | -2,642.50 | 3,504.20 | 1,198.32 | 1,001.03 | 197.29 | 6.074 | |
| 8,400.00 | 5,311.83 | 9,781.25 | 5,293.79 | 100.77 | 106.39 | 89.14 | -2,710.71 | 3,577.32 | 1,198.28 | 996.51 | 201.78 | 5.939 | |
| 8,500.00 | 5,310.97 | 9,881.25 | 5,292.89 | 102.88 | 108.67 | 89.14 | -2,778.93 | 3,650.44 | 1,198.24 | 991.97 | 206.27 | 5.809 | |
| 8,600.00 | 5,310.11 | 9,981.25 | 5,291.99 | 104.99 | 110.95 | 89.13 | -2,847.14 | 3,723.56 | 1,198.20 | 987.43 | 210.77 | 5.685 | |
| 8,700.00 | 5,309.25 | 10,081.25 | 5,291.09 | 107.11 | 113.24 | 89.13 | -2,915.35 | 3,796.68 | 1,198.16 | 982.89 | 215.27 | 5.566 | |
| 8,800.00 | 5,308.39 | 10,181.25 | 5,290.19 | 109.25 | 115.52 | 89.13 | -2,983.56 | 3,869.80 | 1,198.12 | 978.34 | 219.78 | 5.451 | |
| 8,900.00 | 5,307.53 | 10,281.25 | 5,289.28 | 111.38 | 117.81 | 89.13 | -3,051.77 | 3,942.92 | 1,198.07 | 973.78 | 224.29 | 5.342 | |
| 9,000.00 | 5,306.67 | 10,381.25 | 5,288.38 | 113.53 | 120.10 | 89.13 | -3,119.98 | 4,016.04 | 1,198.03 | 969.22 | 228.81 | 5.236 | |
| 9,100.00 | 5,305.81 | 10,481.25 | 5,287.48 | 115.68 | 122.39 | 89.12 | -3,188.19 | 4,089.16 | 1,197.99 | 964.65 | 233.34 | 5.134 | |
| 9,200.00 | 5,304.95 | 10,581.25 | 5,286.58 | 117.84 | 124.69 | 89.12 | -3,256.40 | 4,162.28 | 1,197.95 | 960.08 | 237.86 | 5.036 | |
| 9,300.00 | 5,304.09 | 10,681.25 | 5,285.68 | 120.01 | 126.98 | 89.12 | -3,324.61 | 4,235.40 | 1,197.91 | 955.51 | 242.40 | 4.942 | |
| 9,400.00 | 5,303.22 | 10,781.25 | 5,284.77 | 122.18 | 129.27 | 89.12 | -3,392.82 | 4,308.52 | 1,197.87 | 950.93 | 246.93 | 4.851 | |
| 9,500.00 | 5,302.36 | 10,881.25 | 5,283.87 | 124.36 | 131.57 | 89.12 | -3,461.03 | 4,381.64 | 1,197.82 | 946.35 | 251.48 | 4.763 | |
| 9,600.00 | 5,301.50 | 10,981.25 | 5,282.97 | 126.54 | 133.86 | 89.11 | -3,529.24 | 4,454.76 | 1,197.78 | 941.76 | 256.02 | 4.678 | |
| 9,700.00 | 5,300.64 | 11,081.25 | 5,282.07 | 128.73 | 136.16 | 89.11 | -3,597.46 | 4,527.88 | 1,197.74 | 937.17 | 260.57 | 4.597 | |
| 9,800.00 | 5,299.78 | 11,181.25 | 5,281.17 | 130.92 | 138.46 | 89.11 | -3,665.67 | 4,600.99 | 1,197.70 | 932.58 | 265.12 | 4.518 | |
| 9,900.00 | 5,298.92 | 11,281.25 | 5,280.26 | 133.12 | 140.76 | 89.11 | -3,733.88 | 4,674.11 | 1,197.66 | 927.98 | 269.67 | 4.441 | |
| 10,000.00 | 5,298.06 | 11,381.25 | 5,279.36 | 135.32 | 143.06 | 89.11 | -3,802.09 | 4,747.23 | 1,197.61 | 923.39 | 274.23 | 4.367 | |
| 10,100.00 | 5,297.20 | 11,481.25 | 5,278.46 | 137.53 | 145.35 | 89.10 | -3,870.30 | 4,820.35 | 1,197.57 | 918.78 | 278.79 | 4.296 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 217H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Rule Assigned: Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10,200.00 | 5,296.34 | 11,581.25 | 5,277.56 | 139.74 | 147.66 | 89.10 | -3,938.51 | 4,893.47 | 1,197.53 | 914.18 | 283.35 | 4.226 | |
| 10,300.00 | 5,295.48 | 11,681.25 | 5,276.66 | 141.95 | 149.96 | 89.10 | -4,006.72 | 4,966.59 | 1,197.49 | 909.57 | 287.92 | 4.159 | |
| 10,400.00 | 5,294.62 | 11,781.25 | 5,275.75 | 144.17 | 152.26 | 89.10 | -4,074.93 | 5,039.71 | 1,197.45 | 904.97 | 292.48 | 4.094 | |
| 10,500.00 | 5,293.75 | 11,881.25 | 5,274.85 | 146.39 | 154.56 | 89.10 | -4,143.14 | 5,112.83 | 1,197.41 | 900.36 | 297.05 | 4.031 | |
| 10,600.00 | 5,292.89 | 11,981.25 | 5,273.95 | 148.61 | 156.86 | 89.09 | -4,211.35 | 5,185.95 | 1,197.36 | 895.74 | 301.62 | 3.970 | |
| 10,700.00 | 5,292.03 | 12,081.25 | 5,273.05 | 150.83 | 159.17 | 89.09 | -4,279.56 | 5,259.07 | 1,197.32 | 891.13 | 306.20 | 3.910 | |
| 10,800.00 | 5,291.17 | 12,181.25 | 5,272.15 | 153.06 | 161.47 | 89.09 | -4,347.77 | 5,332.19 | 1,197.28 | 886.51 | 310.77 | 3.853 | |
| 10,900.00 | 5,290.31 | 12,281.25 | 5,271.24 | 155.30 | 163.78 | 89.09 | -4,415.98 | 5,405.31 | 1,197.24 | 881.89 | 315.35 | 3.797 | |
| 11,000.00 | 5,289.45 | 12,381.25 | 5,270.34 | 157.53 | 166.08 | 89.09 | -4,484.20 | 5,478.43 | 1,197.20 | 877.27 | 319.93 | 3.742 | |
| 11,100.00 | 5,288.59 | 12,481.25 | 5,269.44 | 159.77 | 168.39 | 89.08 | -4,552.41 | 5,551.55 | 1,197.16 | 872.65 | 324.51 | 3.689 | |
| 11,200.00 | 5,287.73 | 12,581.25 | 5,268.54 | 162.01 | 170.69 | 89.08 | -4,620.62 | 5,624.67 | 1,197.11 | 868.03 | 329.09 | 3.638 | |
| 11,300.00 | 5,286.87 | 12,681.25 | 5,267.64 | 164.25 | 173.00 | 89.08 | -4,688.83 | 5,697.79 | 1,197.07 | 863.40 | 333.67 | 3.588 | |
| 11,400.00 | 5,286.01 | 12,781.25 | 5,266.73 | 166.49 | 175.31 | 89.08 | -4,757.04 | 5,770.91 | 1,197.03 | 858.77 | 338.26 | 3.539 | |
| 11,500.00 | 5,285.15 | 12,881.25 | 5,265.83 | 168.74 | 177.61 | 89.08 | -4,825.25 | 5,844.03 | 1,196.99 | 854.15 | 342.84 | 3.491 | |
| 11,600.00 | 5,284.29 | 12,981.25 | 5,264.93 | 170.99 | 179.92 | 89.07 | -4,893.46 | 5,917.15 | 1,196.95 | 849.52 | 347.43 | 3.445 | |
| 11,700.00 | 5,283.42 | 13,081.25 | 5,264.03 | 173.24 | 182.23 | 89.07 | -4,961.67 | 5,990.27 | 1,196.91 | 844.89 | 352.02 | 3.400 | |
| 11,800.00 | 5,282.56 | 13,181.25 | 5,263.13 | 175.49 | 184.54 | 89.07 | -5,029.88 | 6,063.39 | 1,196.86 | 840.26 | 356.61 | 3.356 | |
| 11,900.00 | 5,281.70 | 13,281.25 | 5,262.22 | 177.74 | 186.85 | 89.07 | -5,098.09 | 6,136.51 | 1,196.82 | 835.62 | 361.20 | 3.313 | |
| 12,000.00 | 5,280.84 | 13,381.25 | 5,261.32 | 180.00 | 189.16 | 89.07 | -5,166.30 | 6,209.63 | 1,196.78 | 830.99 | 365.79 | 3.272 | |
| 12,100.00 | 5,279.98 | 13,481.25 | 5,260.42 | 182.26 | 191.46 | 89.06 | -5,234.51 | 6,282.74 | 1,196.74 | 826.35 | 370.39 | 3.231 | |
| 12,200.00 | 5,279.12 | 13,581.25 | 5,259.52 | 184.51 | 193.77 | 89.06 | -5,302.72 | 6,355.86 | 1,196.70 | 821.72 | 374.98 | 3.191 | |
| 12,300.00 | 5,278.26 | 13,681.25 | 5,258.62 | 186.78 | 196.08 | 89.06 | -5,370.94 | 6,428.98 | 1,196.66 | 817.08 | 379.57 | 3.153 | |
| 12,400.00 | 5,277.40 | 13,781.25 | 5,257.71 | 189.04 | 198.39 | 89.06 | -5,439.15 | 6,502.10 | 1,196.61 | 812.44 | 384.17 | 3.115 | |
| 12,500.00 | 5,276.54 | 13,881.25 | 5,256.81 | 191.30 | 200.71 | 89.06 | -5,507.36 | 6,575.22 | 1,196.57 | 807.81 | 388.77 | 3.078 | |
| 12,600.00 | 5,275.68 | 13,981.25 | 5,255.91 | 193.57 | 203.02 | 89.05 | -5,575.57 | 6,648.34 | 1,196.53 | 803.17 | 393.37 | 3.042 | |
| 12,700.00 | 5,274.82 | 14,081.25 | 5,255.01 | 195.83 | 205.33 | 89.05 | -5,643.78 | 6,721.46 | 1,196.49 | 798.53 | 397.96 | 3.007 | |
| 12,800.00 | 5,273.95 | 14,181.25 | 5,254.11 | 198.10 | 207.64 | 89.05 | -5,711.99 | 6,794.58 | 1,196.45 | 793.88 | 402.56 | 2.972 | |
| 12,900.00 | 5,273.09 | 14,281.25 | 5,253.20 | 200.37 | 209.95 | 89.05 | -5,780.20 | 6,867.70 | 1,196.41 | 789.24 | 407.16 | 2.938 | |
| 13,000.00 | 5,272.23 | 14,381.25 | 5,252.30 | 202.64 | 212.26 | 89.05 | -5,848.41 | 6,940.82 | 1,196.36 | 784.60 | 411.77 | 2.905 | |
| 13,100.00 | 5,271.37 | 14,481.25 | 5,251.40 | 204.91 | 214.57 | 89.04 | -5,916.62 | 7,013.94 | 1,196.32 | 779.96 | 416.37 | 2.873 | |
| 13,200.00 | 5,270.51 | 14,581.25 | 5,250.50 | 207.18 | 216.89 | 89.04 | -5,984.83 | 7,087.06 | 1,196.28 | 775.31 | 420.97 | 2.842 | |
| 13,300.00 | 5,269.65 | 14,681.25 | 5,249.60 | 209.46 | 219.20 | 89.04 | -6,053.04 | 7,160.18 | 1,196.24 | 770.67 | 425.57 | 2.811 | |
| 13,400.00 | 5,268.79 | 14,781.25 | 5,248.69 | 211.73 | 221.51 | 89.04 | -6,121.25 | 7,233.30 | 1,196.20 | 766.02 | 430.18 | 2.781 | |
| 13,500.00 | 5,267.93 | 14,881.25 | 5,247.79 | 214.01 | 223.82 | 89.04 | -6,189.47 | 7,306.42 | 1,196.16 | 761.37 | 434.78 | 2.751 | |
| 13,600.00 | 5,267.07 | 14,981.25 | 5,246.89 | 216.28 | 226.14 | 89.03 | -6,257.68 | 7,379.54 | 1,196.11 | 756.73 | 439.39 | 2.722 | |
| 13,700.00 | 5,266.21 | 15,081.25 | 5,245.99 | 218.56 | 228.45 | 89.03 | -6,325.89 | 7,452.66 | 1,196.07 | 752.08 | 443.99 | 2.694 | |
| 13,800.00 | 5,265.35 | 15,181.25 | 5,245.09 | 220.84 | 230.76 | 89.03 | -6,394.10 | 7,525.78 | 1,196.03 | 747.43 | 448.60 | 2.666 | |
| 13,900.00 | 5,264.49 | 15,281.25 | 5,244.18 | 223.12 | 233.08 | 89.03 | -6,462.31 | 7,598.90 | 1,195.99 | 742.78 | 453.21 | 2.639 | |
| 14,000.00 | 5,263.62 | 15,381.25 | 5,243.28 | 225.40 | 235.39 | 89.03 | -6,530.52 | 7,672.02 | 1,195.95 | 738.14 | 457.81 | 2.612 | |
| 14,100.00 | 5,262.76 | 15,481.25 | 5,242.38 | 227.68 | 237.70 | 89.02 | -6,598.73 | 7,745.14 | 1,195.91 | 733.49 | 462.42 | 2.586 | |
| 14,200.00 | 5,261.90 | 15,581.25 | 5,241.48 | 229.96 | 240.02 | 89.02 | -6,666.94 | 7,818.26 | 1,195.86 | 728.84 | 467.03 | 2.561 | |
| 14,300.00 | 5,261.04 | 15,681.25 | 5,240.58 | 232.25 | 242.33 | 89.02 | -6,735.15 | 7,891.38 | 1,195.82 | 724.19 | 471.64 | 2.535 | |
| 14,400.00 | 5,260.18 | 15,781.25 | 5,239.67 | 234.53 | 244.65 | 89.02 | -6,803.36 | 7,964.50 | 1,195.78 | 719.54 | 476.25 | 2.511 | |
| 14,500.00 | 5,259.32 | 15,881.25 | 5,238.77 | 236.81 | 246.96 | 89.02 | -6,871.57 | 8,037.61 | 1,195.74 | 714.88 | 480.86 | 2.487 | |
| 14,600.00 | 5,258.46 | 15,981.25 | 5,237.87 | 239.10 | 249.27 | 89.01 | -6,939.78 | 8,110.73 | 1,195.70 | 710.23 | 485.47 | 2.463 | |
| 14,700.00 | 5,257.60 | 16,081.25 | 5,236.97 | 241.38 | 251.59 | 89.01 | -7,007.99 | 8,183.85 | 1,195.66 | 705.58 | 490.08 | 2.440 | |
| 14,800.00 | 5,256.74 | 16,181.25 | 5,236.07 | 243.67 | 253.90 | 89.01 | -7,076.21 | 8,256.97 | 1,195.62 | 700.93 | 494.69 | 2.417 | |
| 14,900.00 | 5,255.88 | 16,281.25 | 5,235.16 | 245.96 | 256.22 | 89.01 | -7,144.42 | 8,330.09 | 1,195.57 | 696.28 | 499.30 | 2.395 | |
| 15,000.00 | 5,255.02 | 16,381.25 | 5,234.26 | 248.25 | 258.53 | 89.01 | -7,212.63 | 8,403.21 | 1,195.53 | 691.63 | 503.91 | 2.373 | |
| 15,100.00 | 5,254.15 | 16,481.25 | 5,233.36 | 250.53 | 260.85 | 89.00 | -7,280.84 | 8,476.33 | 1,195.49 | 686.97 | 508.52 | 2.351 | |
| 15,200.00 | 5,253.29 | 16,581.25 | 5,232.46 | 252.82 | 263.16 | 89.00 | -7,349.05 | 8,549.45 | 1,195.45 | 682.32 | 513.13 | 2.330 | |
| 15,300.00 | 5,252.43 | 16,681.25 | 5,231.56 | 255.11 | 265.48 | 89.00 | -7,417.26 | 8,622.57 | 1,195.41 | 677.67 | 517.74 | 2.309 | |

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

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

**Offset Design:** Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 217H - Original Hole - rev0

**Offset Site Error:** 0.00 ft

**Survey Program:** 0-MWD

**Offset Well Error:** 0.00 ft

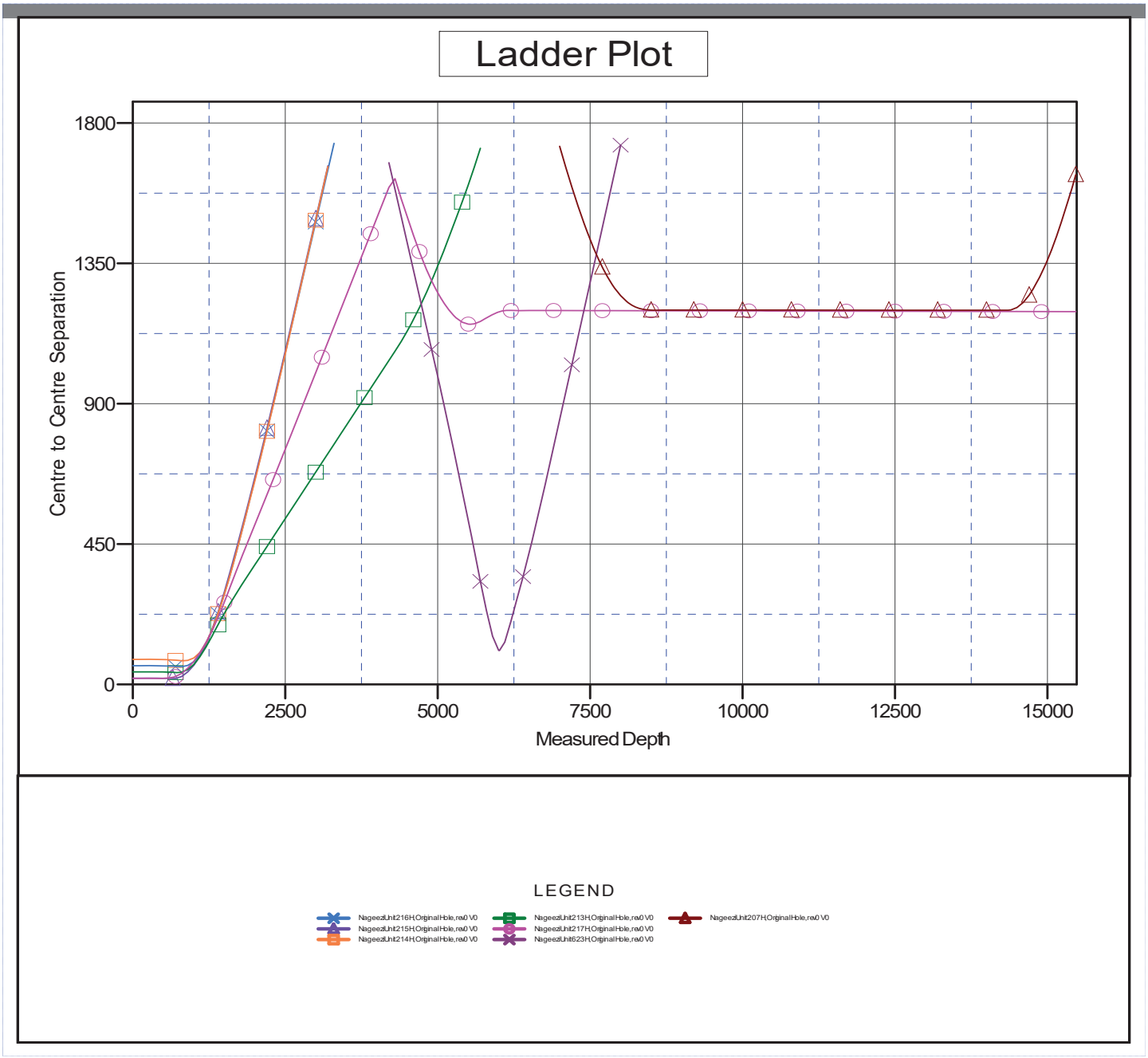
| Reference Measured Depth (ft) | Reference Vertical Depth (ft) | Offset Measured Depth (ft) | Offset Vertical Depth (ft) | Semi Major Axis Reference (ft) | Semi Major Axis Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Offset Wellbore Centre +E/-W (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15,400.00 | 5,251.57 | 16,781.25 | 5,230.65 | 257.40 | 267.79 | 89.00 | -7,485.47 | 8,695.69 | 1,195.37 | 673.01 | 522.35 | 2.288 | |
| 15,467.26 | 5,250.99 | 16,848.51 | 5,230.05 | 258.94 | 269.35 | 89.00 | -7,531.35 | 8,744.87 | 1,195.34 | 669.88 | 525.46 | 2.275 SF | |

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB=6826+25 @ 6851.00ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: Nageezi Unit 218H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.04°



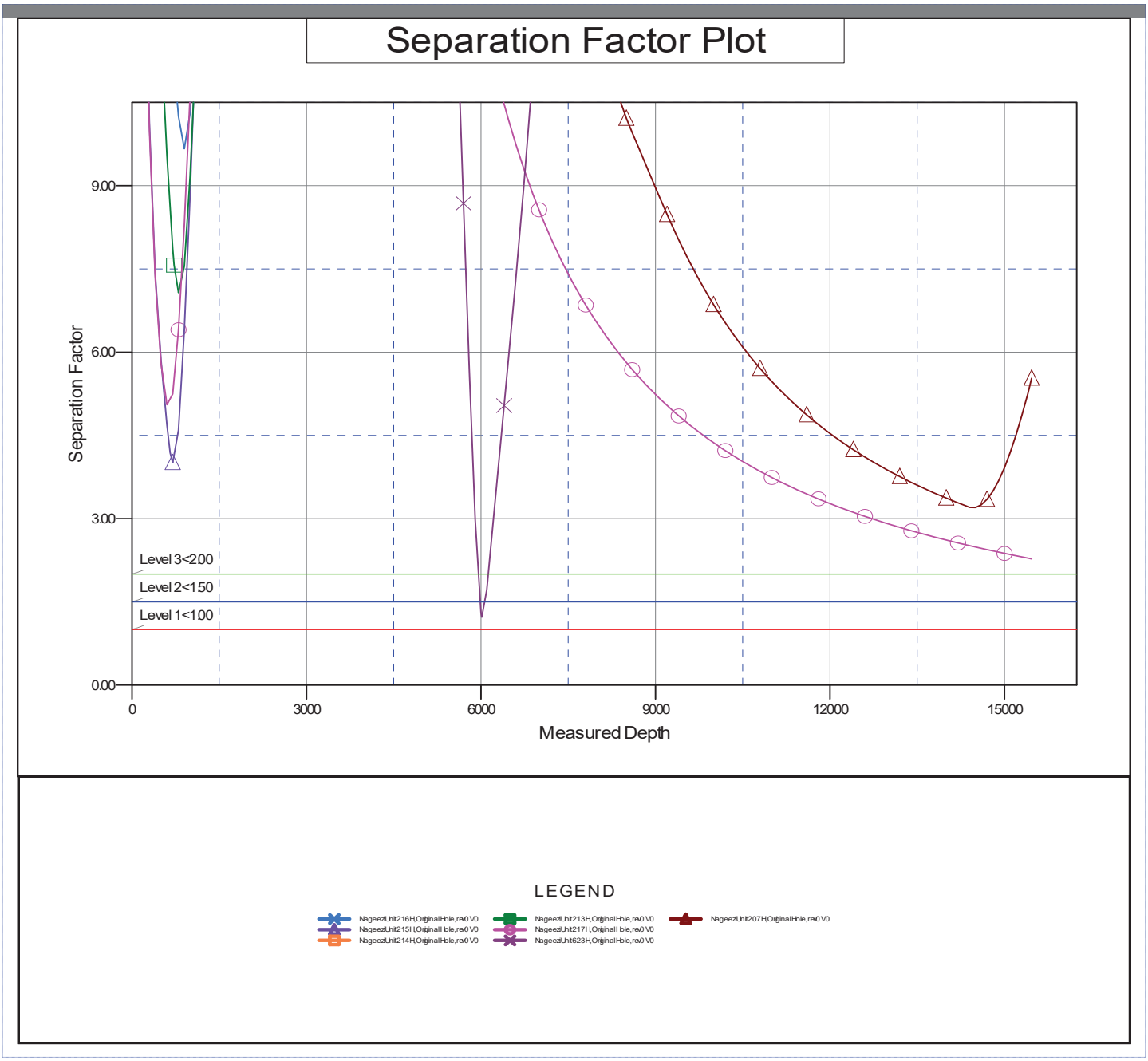

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

# Anticollision Report

| | | | |
|---|---|---|---|
| **Company:** | Enduring Resources LLC | **Local Co-ordinate Reference:** | Well Nageezi Unit 218H |
| **Project:** | San Juan County, New Mexico NAD83 NM W | **TVD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Reference Site:** | Nageezi Unit (213, 214, 215, 216, 217 & 218) | **MD Reference:** | RKB=6826+25 @ 6851.00ft |
| **Site Error:** | 0.00 ft | **North Reference:** | Grid |
| **Reference Well:** | Nageezi Unit 218H | **Survey Calculation Method:** | Minimum Curvature |
| **Well Error:** | 0.00 ft | **Output errors are at** | 2.00 sigma |
| **Reference Wellbore** | Original Hole | **Database:** | DT_Jan1924v17 |
| **Reference Design:** | rev0 | **Offset TVD Reference:** | Offset Datum |

Reference Depths are relative to RKB=6826+25 @ 6851.00ft
Offset Depths are relative to Offset Datum
Central Meridian is -107.83333333

Coordinates are relative to: Nageezi Unit 218H
Coordinate System is US State Plane 1983, New Mexico Western Zone
Grid Convergence at Surface is: 0.04°



**District I**
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**District III**
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Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 318493

## CONDITIONS

| | |
|---|---|
| Operator:<br>DJR OPERATING, LLC<br>200 Energy Court<br>Farmington, NM 87401 | OGRID:<br>371838 |
| | Action Number:<br>318493 |
| | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required. | 7/11/2024 |