

Well Name: NAGEEZI UNIT	Well Location: T24N / R9W / SEC 26 / NWSW / 36.282689 / -107.765308	County or Parish/State: SAN JUAN / NM
Well Number: 213H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NOG14021898	Unit or CA Name:	Unit or CA Number: NMNM132981A
US Well Number: 3004538293	Operator: DJR OPERATING LLC	

Notice of Intent

Sundry ID: 2795492

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 06/14/2024

Time Sundry Submitted: 01:27

Date proposed operation will begin: 06/25/2024

Procedure Description: DJR (wholly owned subsidiary of Enduring Resources, LLC.) respectfully requests to adjust the BHL, lateral length, cement volumes and liner set depth for the subject well. Attached please find an updated C102, revised drilling plan, directional design and proposed wellbore diagram.

NOI Attachments

Procedure Description

Nageezi_Unit_213H_Drilling_Package_6_14_24_20240614132728.pdf

C102_Well_Plat_NU213H_20240614132531.pdf

Well Name: NAGEEZI UNIT

Well Location: T24N / R9W / SEC 26 / NWSW / 36.282689 / -107.765308

County or Parish/State: SAN JUAN / NM

Well Number: 213H

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: NOG14021898

Unit or CA Name:

Unit or CA Number: NMNM132981A

US Well Number: 3004538293

Operator: DJR OPERATING LLC

Conditions of Approval

Additional

DJR_Operating_LLC_Nageezi_Unit_213H_APD_Change_2795492_MHK_20240617090756.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: SHAW-MARIE FORD

Signed on: JUN 14, 2024 01:27 PM

Name: DJR OPERATING LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC

State: NM

Phone: (505) 632-3476

Email address: SFORD@ENDURINGRESOURCES.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647736

BLM POC Email Address: MKADE@BLM.GOV

Disposition: Approved

Disposition Date: 06/17/2024

Signature: Matthew Kade

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: (505) 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) 476-3482

State of New Mexico
 Energy, Minerals & Natural Resources Department

Form C-102
 Revised August 1, 2011

Submit one copy to appropriate
 District Office

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-38293		² Pool Code 98080		³ Pool Name NAGEEZI UNIT MANCOS OIL POOL	
⁴ Property Code 325268		⁵ Property Name NAGEEZI UNIT			⁶ Well Number 213H
⁷ OGRID No. 371838		⁸ Operator Name DJR OPERATING, LLC			⁹ Elevation 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		1798'	SOUTH	792'	WEST	SAN JUAN

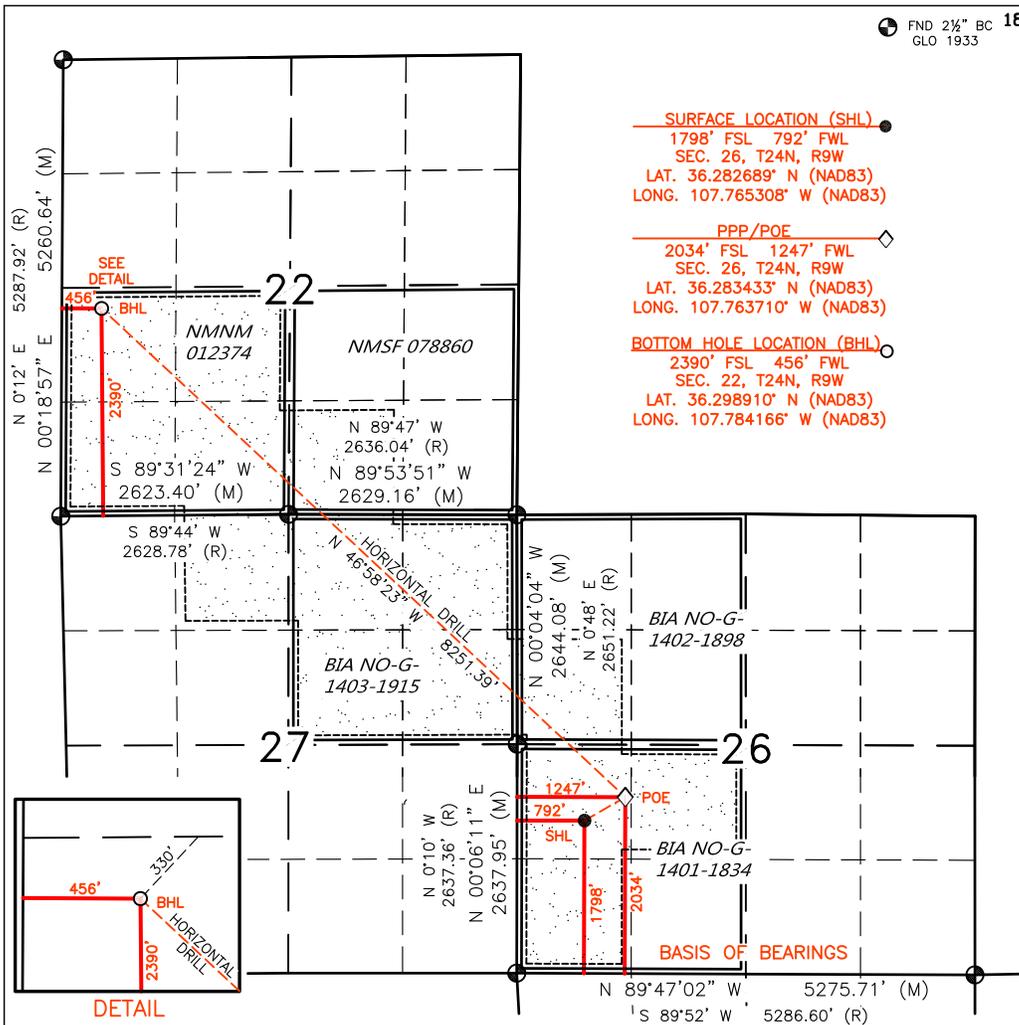
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	24N	9W		2390'	SOUTH	456'	WEST	SAN JUAN

¹² Dedicated Acres PENETRATED SPACING UNIT; SEC 26: NW/SW, NE/SW & SW/NW (120 AC.); SEC 27: NE/4 & NE/NW (200 AC.); SEC 22: SW/SE & SW/4 (200 AC.) = 520 ACRES	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13856 R-13856A
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
 OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



18 FND 2 1/2" BC
 GLO 1933

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 6/14/24
 Signature Date

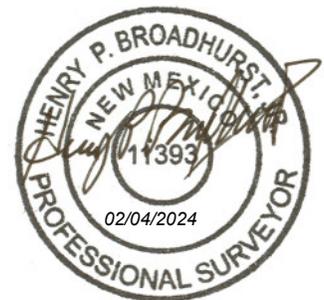
Shaw-Marie Ford
 Printed Name
 sford@enduringresources.com
 E-mail Address

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

H₂S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 7" casing to TD; gas detection from drillout of 9-5/8" casing to TD.

MWD / LWD: Gamma Ray from drillout of 9-5/8" casing to TD

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

Cased Hole Logs: CBL on 7" casing from deepest free-fall depth to surface

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 140

Draw Works: Pacific Rim 1500AC (1,500 hp)

Mast: Process MFG Corp Swing Up Triple (136 ft, 750,000 lbs)

Top Drive: Tesco 400-EXI-600 (400 ton)

Prime Movers: 3 - CAT 3512C (1,350 hp)

Pumps: 2 - Gardner Denver PZ-11 (7,500 psi)

BOPE 1: T3 Annular & Shaffer double gate ram (11", 5,000 psi)

BOPE 2: T3 annular(11", 5,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 23.5

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

STATE AND FEDERAL NOTIFICATIONS

BLM State

	BLM	State
Construction and Reclamation:	BLM is to be notified minimum of 48 hours prior to start of construction or reclamation.	
	Grazing permittee is to be notified 10 days in advance.	(505) 564-7600
Spud	BLM and state are to be notified minimum of 24 hours prior to spud.	(505) 564-7750 (505) 334-6178
BOP	BLM is to be notified minimum of 24 hours prior to BOPE testing.	(505) 564-7750 see note
Casing / cementing	BLM and state are to be notified minimum of 24 hours prior to running casing and cementing.	(505) 564-7750 (505) 334-6178
Plugging	BLM and state are to be notified minimum of 24 hours prior to plugging ops.	(505) 564-7750 see note

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

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when 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 minimize the amount of fluids and solids that require disposal.

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

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

Fluid Program: See "Detailed Drilling Plan" section 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: 12-1/4"

Bit / Motor: Mill Tooth or PDC, no motor

MWD / Survey: No MWD, deviation survey

Logging: None

Procedure: Drill to TD. After reaching TD, run gyro survey in 100' stations from TD to surface. Wiper trip. Condition hole and fluid for casing running. TOH. Run casing. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface. Install cellar and wellhead.

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000
Loading					153	1,138	110,988	110,988
Min. S.F.					13.21	3.09	5.08	3.81

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

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

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	Hole Cap. (cuft/ft)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Redi-Mix	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114	184

Calculated cement volumes assume gauge hole and the excess noted in table
 Mesa Ready Mix or first available
 Csg ID 8.921
 Shoe Track L 44

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

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

350 ft (MD)	to	5,651 ft (MD)	Hole Section Length:	5,301 ft
350 ft (TVD)	to	5,326 ft (TVD)	Casing Required:	5,651 ft

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	LSND (KCl)	8.8 - 9.2	15	8 - 14	12-Jun	10.8 - 11.2	No OBM

Procedure: Mud system is to have a 7% KCl base and 3% blown asphalt type product added for additional hole stability. Bulk KCl is to be used. When mixing mud, all safety equipment is to be used including face shields. Fluid loss control should be moderate and in the 15 ml range. Control GPM (350 to 400 if possible) from BSC to ±2,000' MD in order to minimize washout in the less consolidated surface formations.

Hole Size: 8.75

Bit / Motor: 8-3/4" PDC bit w/mud motor

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

Logging: None

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

Procedure: Drill to TD following directional plan (20' rat-hole past casing setting depth). Steer as needed to keep well on plan. Keep DLS < 3 deg/100' and keep slide length < 10', when possible during back build and hold section. Build is planned at 10°/100' and landing is to be at ±80° inclination. Take surveys every stand, at a minimum. Target flow-rates of 400 to 600 GPM after 2,000' MD. Minimum desired flow-rate is 450 GPM. At TD, condition hole and fluid for casing running but keep to a minimum due to uphole instability problems that are possible. Confirm landing target, planned BUR for curve, and KOP with Geology and Engineering. Drill curve following directional plan and updated landing target. Take survey every joint during curve. Land curve. TOO. Run casing using a CRT and washing / circulating as required. Land casing. ND BOPE. Walk rig to next well. Perform off-line cement job if possible. Pump cement as detailed below. Monitor returns during cement job and note cement volume to surface.

Casing Specs:	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)	
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,326	1,445	228,127	228,127
Min. S.F.					1.86	3.45	1.82	1.61

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

Casing Summary: Float shoe, 1 jt casing, float collar, casing to surface (FLOAT EQUIPMENT FROM WEATHERFORD) (all casing must be drifted as OD of liner hanger system is 5.818")

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

Centralizers: 1 centralizers jt stop-banded 10' from float shoe on bottom 1 jt & 1 centralizer floating on bottom joint, 1 centralizer per jt (floating) to KOP ; 1 centralizer per 3 jts to surface (Centralizers from Scepter Supply - SLIP'N'SLIDE 9-5/8" x 12" SOLID BODY POLYMER)

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	493	1,055
Tail	Type III	14.6	1.380	6.64	20%	4,249	190	262
Annular Capacity	0.16681	cuft/ft	7" casing x 9-5/8" casing annulus			Shoe Track L		44
	0.1503	cuft/ft	9-5/8" casing x 12-1/4" hole annulus			Casing ID		6.276
	0.2148	cuft/ft	7" casing casing volume					

Calculated cement volumes assume gauge hole and the excess noted in table
 Drake Intermediate Cementing Program

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

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

5,651	ft (MD)	to	13,807	ft (MD)	Hole Section Length:	8,156	ft
5,326	ft (TVD)	to	5,376	ft (TVD)	Casing Required:	8,306	ft
Estimated KOP:			4,851	ft (MD)	4,762	ft (TVD)	
Estimated Liner Top:			5,501	ft (MD)	5,281	ft (TVD)	
Estimated Landing Point (FTP):			5,551	ft (MD)	5,301	ft (TVD)	
Estimated Lateral Length:			8,256	ft (MD)			

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
	WBM	8.7 - 9.0	NC	+20	±2	9-9.5	prod water	OBM as contingency

Fluids / Solids Notes: Drilling fluid will be production water and Newpark lubricant NDFT 487. Corrosion inhibitor is to be used. As a contingency only: Newpark OptiDrill OBM system. Ensure that drying shakers are rigged up after the rig (2nd set) of shakers. Solids control will burn retorts on cuttings samples one per tour to check % ROC. Add diesel and products as required to maintain mud in program specs. Reference Newpark's mud program for additional details. No asphalt products are to be added to the OBM system. Any changes to the mud systems are to be discussed with engineering prior to application.

Hole Size: 6.125

Bit / Motor: 6-1/8" 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

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

Procedure: Target flow-rate is 250 - 400 GPM. Target differential is pressure is 700 - 1,000 psig. Target ROP 300 - 600 ft/hr. Steer as needed to keep well on plan. Keep DLS < 1 deg/100' and keep slide length < 10', when feasible. Take surveys every stand, at a minimum. After reaching TD, perform clean-up cycle to condition hole for casing running. Spot lube as needed and TOO (ROOH, if required; should NOT be required with OBM system). Run liner as described below. Verify make up torque when running casing. Space out liner getting the toe sleeve as close to LTP as possible while maintaining ±150' of liner lap. Follow liner setting procedure. Circulate as required. Perform cement job. Pump cement as detailed below. Note cement volume circulated to surface.

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
	Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000
Loading					2,656	8,808	238,205	238,205
Min. S.F.					2.85	1.21	1.54	1.62

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. Tension calculations assume vertical hole to approximate drag in lateral.

MU Torque (ft lbs): Minimum: BTC Optimum: BTC Maximum: BTC

Liner Summary: Float shoe, 1 jt casing, double float -float collar (Weatherford float equipment), landing collar, 1 joint csg, toe-initiation sleeve (**Weatherford (WFT) RD 8,500 psi**), casing to shoe of 7" and overlap to liner top at 65° inclination or 150' MD from base of intermediate casing to top of liner hanger / packer / liner tie back sleeve per plan with 20' marker joints spaced evenly in lateral every ~2,000'. Run liner dry, do not use a floatation sub but have one on location as a back up(**NCS Air-Lock 2,500 psi from WFT**), drill pipe to surface. The toe-initiation sleeve shall be placed no closer to the unit boundary than 330' measured perpendicular to the East or West lease lines for a East-West azimuth drilled wellbore. Wellbore path must be no closer than 330' from the parallel lease lines. **Note: the LTP is the maximum depth of the toe sleeve and is noted on the Well Plan. Drill past the LTP as required for necessary rat-hole and shoe-track length to place the toe sleeve as close to (but not past) the planned LTP as possible.**

Liner Procedure Prior to TD, record pump rate and pressure, torque and RPM, PU, SO and static weights with and w/o pumps. Plan TD and liner tally to ensure liner hanger is not placed across any 7" casing connection. Rabbit drill pipe on last trip and ensure recovery of drift. Run liner as above, PU last joint and record PU/SO weights. PU hanger assembly and install liner wiper plug system. MU joint of DP and circulate liner volume. TIH to set depth. Break circ slowly, C&C. On depth drop setting ball, pump <2 bpm. With ball on seat, increase pressure to 20% higher than pinned press, hold 3 minutes. Slack off to check liner hanger has been set. If not set, increase pressure 200 psi and repeat process. Once set, slack off liner weight plus 5 k#'s. Rotate 20 rounds to right to release from hanger. PU no more than 3' to ensure liner release. Slack off 20 k#'s. Increase pump pressure to ±2,500 psi to shear ball and regain circulation. Record pressures. Increase SO weight to 40 k#'s for cement job. Pump cement, launch DP wiper plug, engage with liner wiper plug and record shear pressure. Bump plug, RD cement head. PU DP to expose liner packer dogs above PBR. Lower DP, mark DP when dogs are on PBR. Slack off to shear packer pins and energize packing element and slips. Pull PBR packoff out of PBR while slowly engaging pumps to ensure cement does not fall into PBR. Clear PBR, pump ±10 bbls to clear cement, pressure test hanger seals to 2,000 psi. Release, check for flow and circulate BU and record cement volume to surface.

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

Lateral: 1 centralizer per 3 joints (purchase centralizers from Scepter Supply) and one per joint in liner lap.

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu)
Spacer	IntegraGuard Star	11		31.6		0	20 bbls	
Tail	G:POZ blend	13.3	1.560	7.70	30%	5,501	683	1,066
Displacement		184	est bbls					
Annular Capacities	0.1044	cuft/ft	4-1/2" casing x 7" casing annulus					
	0.09417	cuft/ft	4-1/2" casing x 6-1/8" hole annulus					
	0.0873	cuft/ft	4-1/2" casing volume				est shoe jt ft 100	
	0.0102	bbls/ft	4" DP capacity					

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

American Cementing Liner & Production Blend

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

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

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

Note: This well will not be considered an unorthodox well location as defined by NMAC19.15.16.15.C.5. As defined in

FINISH WELL: ND BOP, cap well, RDMO.

Procedure: After off-line cement job, cap and cover well. Continue drilling operations on subsequent wells on pad.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 8,156
Est Frac Inform: 34 Frac Stages 131,000 bbls slick water 10,610,000 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: 5/16/2024
Completion: 7/15/2024
Production: 8/29/2024

Prepared by: Greg Olson 1/25/2024
Updated: Greg Olson 4/11/2024
 Greg Olson 6/14/2024

WELL NAME: NAGEEZI UNIT 213H

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

API Number: 30-045-38293

AFE Number: DV03215

ER Well Number: NM08650.01

State: New Mexico

County: San Juan

Surface Elev.: 6,826 ft ASL (GL) 6,850 ft ASL (KB)

Surface Location: 26-24-9 Sec-Twn- Rng 1,798 ft FSL 792 ft FWL

BH Location: 22-24-9 Sec-Twn- Rng 2,390 ft FSL 456 ft FWL

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)	5,651 ft
KOP (MD)	4,851 ft
KOP (TVD)	4,762 ft
Target (TVD)	5,301 ft
Curve BUR	10 °/100 ft
POE (MD)	5,551 ft
TD (MD)	13,807 ft
Lat Len (ft)	8,256 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	12.250	350	9.625	36	K-55	STC	0	350
Intermediate	8.750	5,651	7	26.0	K-55	LTC	0	5,651
Production	6.125	13,807	4.500	11.6	P-110	BTC	5,501	13,807

CEMENT PROPERTIES SUMMARY:

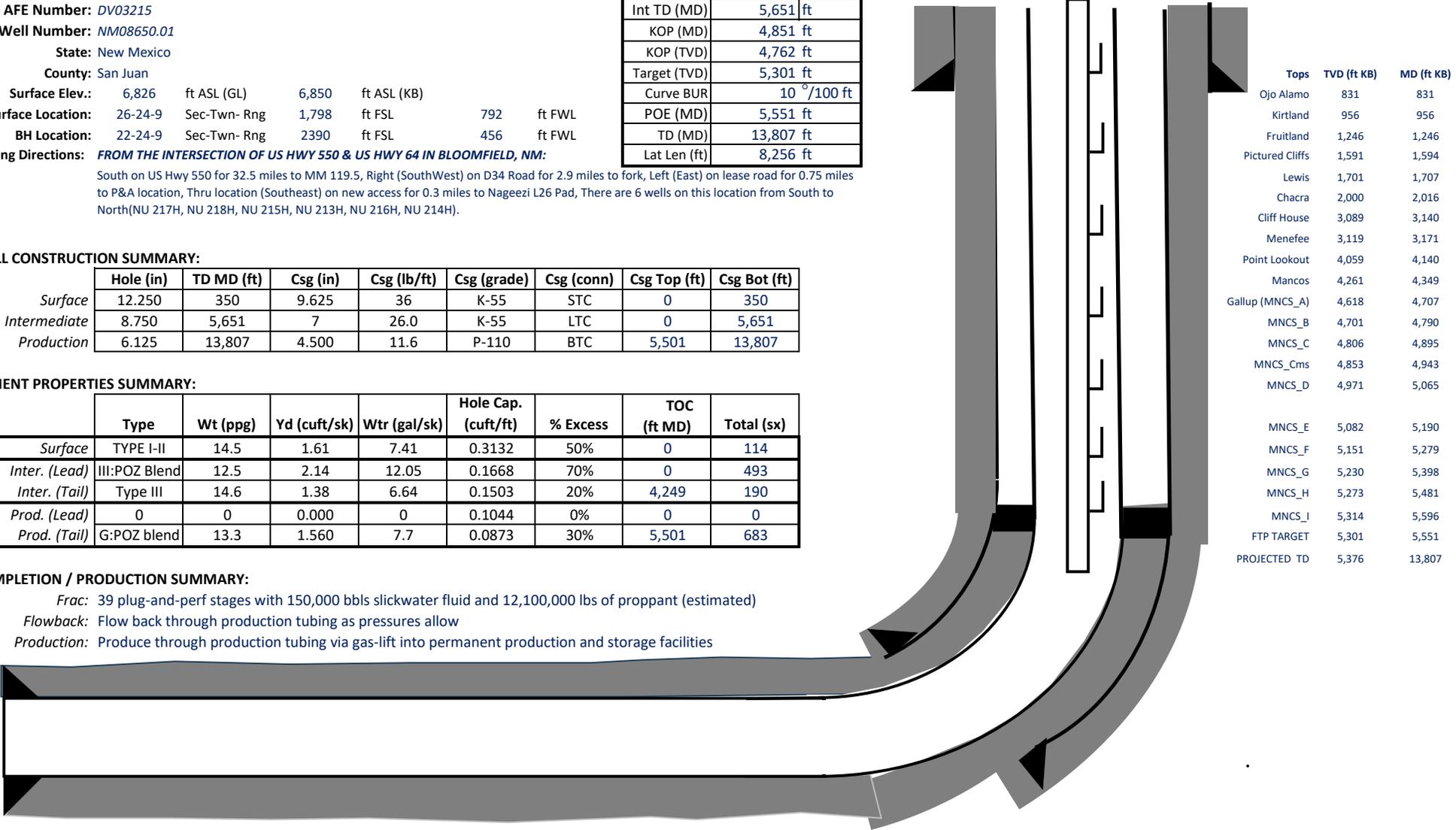
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	Hole Cap. (cuft/ft)	% Excess	TOC (ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.1668	70%	0	493
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	4,249	190
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.0873	30%	5,501	683

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





Well: Nageezi Unit 213H
Site: Nageezi Unit (213, 214, 215, 216, 217 & 218)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig:

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

CASING DETAILS

TVD	MD	Size
350.00	350.00	9-5/8
5326.47	5651.12	7

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1200.00	0.00	0.000	1200.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1678.11	14.34	88.932	1673.13	1.11	59.52	3.00	88.93	-42.75	Begin 14.34° tangent
4	4210.79	14.34	88.932	4126.87	12.81	686.84	0.00	0.00	-493.33	Begin 3°/100' drop
5	4688.90	0.00	0.005	4600.00	13.92	746.36	3.00	180.00	-536.09	Begin vertical hold
6	4851.12	0.00	0.005	4762.22	13.92	746.36	0.00	0.00	-536.09	Begin 10°/100' build
7	5551.12	70.00	313.030	5300.62	271.17	470.78	10.00	313.03	-159.09	POE @ 5551.12 MD 5300.62 TVD
8	5748.19	89.71	313.028	5335.17	402.89	329.67	10.00	0.00	33.93	Begin 89.71° lateral
9	13806.50	89.71	313.028	5376.46	5901.50	-5560.99	0.00	0.00	8092.14	PBHL/TD @ 13806.50 MD 5376.46 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nageezi 213 0 VS	5335.00	379.74	354.48	1922584.87	2743495.13	36.28373148	-107.76410435
Nageezi 213 BHL 2390 FSL 456 FWL 330 ppd r1	5376.46	5901.50	-5560.99	1928106.62	2737579.66	36.29891000	-107.78416600
Nageezi 213 PPP/POE 2034 FSL 1247 FWL	5300.62	271.17	470.78	1922476.30	2743611.43	36.28343300	-107.76371000
Nageezi 213 vert	4600.00	13.92	746.36	1922219.05	2743887.01	36.28272577	-107.76277560

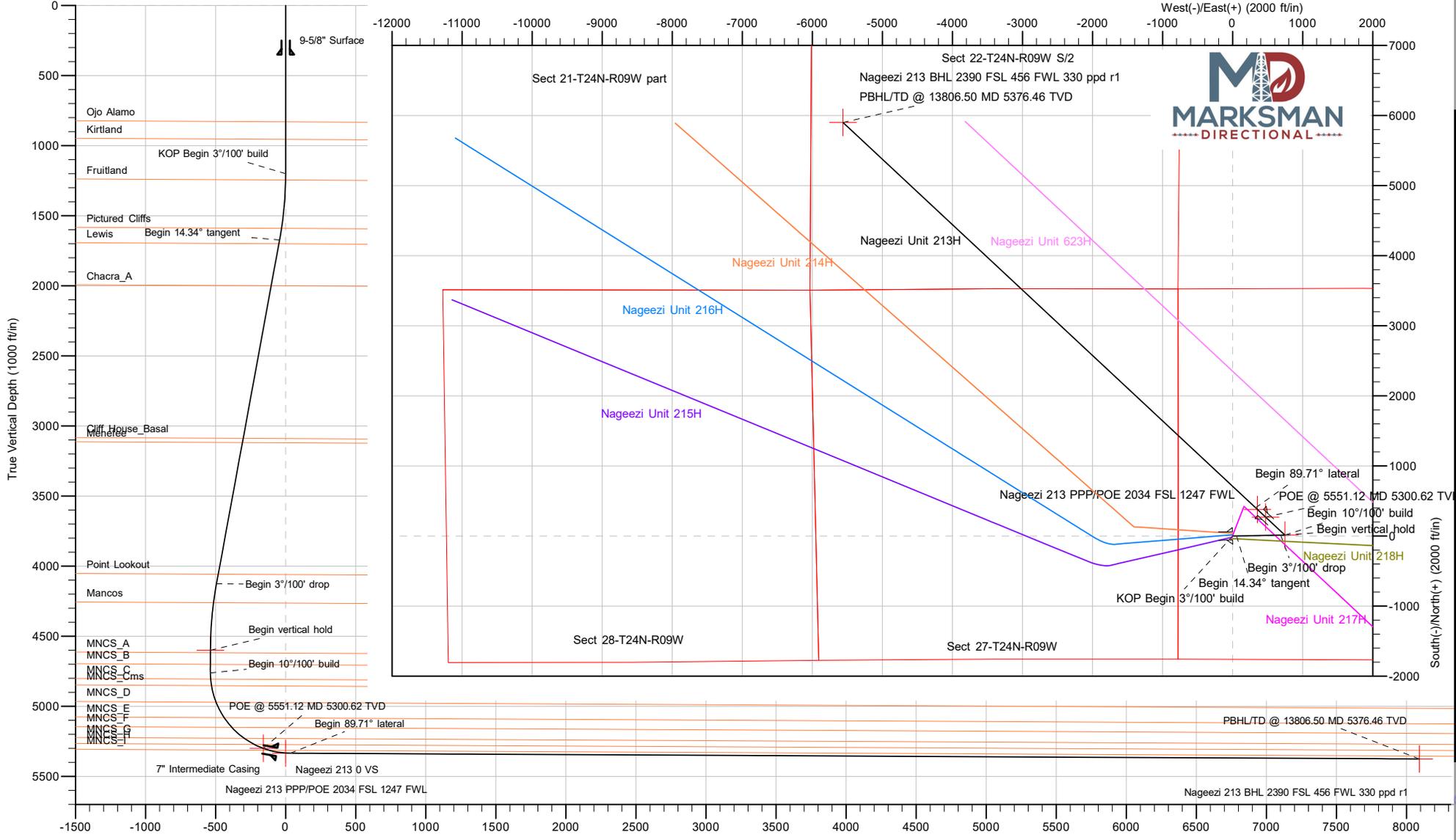


Azimuths to Grid North
 True North: -0.04°
 Magnetic North: 8.49°

Magnetic Field
 Strength: 49066.3nT
 Dip Angle: 62.73°
 Date: 2/7/2024
 Model: IGRF2020

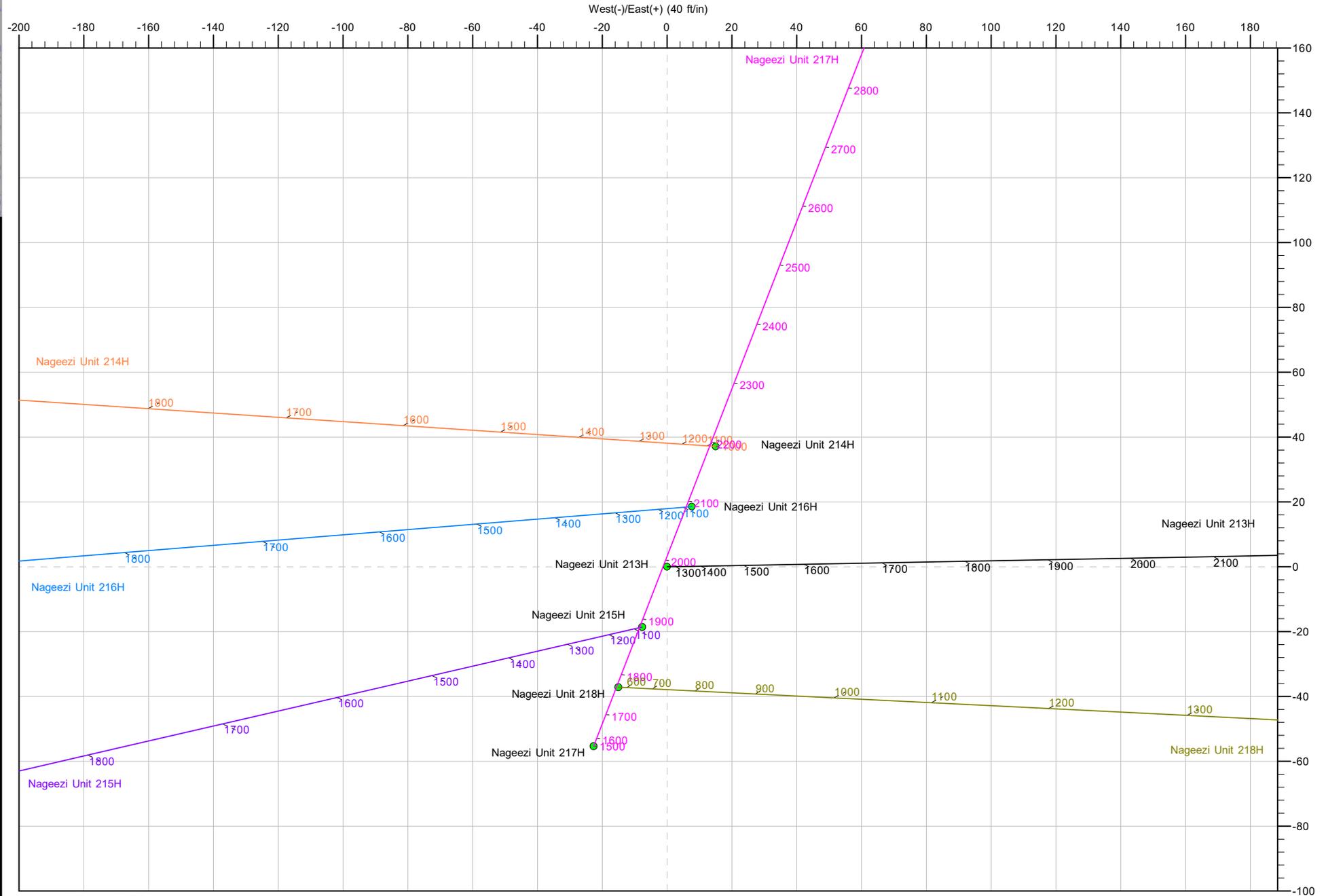
Surface location:
 Northing: 1922205.13
 Easting: 2743140.65
 Latitude: 36.28268900
 Longitude: -107.76530800

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





Well: Nageezi Unit 213H
Site: Nageezi Unit (213, 214, 215, 216, 217 & 218)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev1
Rig:





Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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 213H, Surf loc: 1798 FSL 792 FWL Section 26-T24N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,922,205.14 usft	Latitude:	36.28268900
	+E/-W	0.00 ft	Easting:	2,743,140.65 usft	Longitude:	-107.76530800
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	2/7/2024	8.53	62.73	49,066.26707429

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	313.030

Plan Survey Tool Program	Date	6/14/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,806.50	rev1 (Original Hole)	MWD OWSG MWD - Standard



Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,678.11	14.34	88.932	1,673.13	1.11	59.52	3.00	3.00	0.00	88.93	
4,210.79	14.34	88.932	4,126.87	12.81	686.84	0.00	0.00	0.00	0.00	
4,688.90	0.00	0.005	4,600.00	13.92	746.36	3.00	-3.00	0.00	180.00	Nageezi 213 vert
4,851.12	0.00	0.005	4,762.22	13.92	746.36	0.00	0.00	0.00	0.01	
5,551.12	70.00	313.030	5,300.62	271.17	470.78	10.00	10.00	0.00	313.03	
5,748.19	89.71	313.028	5,335.17	402.89	329.67	10.00	10.00	0.00	0.00	
13,806.50	89.71	313.028	5,376.46	5,901.50	-5,560.99	0.00	0.00	0.00	0.00	Nageezi 213 BHL 239



Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	0.00	0.000	350.00	0.00	0.00	0.00	0.00	0.00	0.00	
9-5/8" Surface Casing										
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
831.00	0.00	0.000	831.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ojo Alamo										
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
956.00	0.00	0.000	956.00	0.00	0.00	0.00	0.00	0.00	0.00	
Kirtland										
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
KOP Begin 3°/100' build										
1,246.00	1.38	88.932	1,246.00	0.01	0.55	-0.40	3.00	3.00	0.00	
Fruitland										
1,300.00	3.00	88.932	1,299.95	0.05	2.62	-1.88	3.00	3.00	0.00	
1,400.00	6.00	88.932	1,399.63	0.20	10.46	-7.51	3.00	3.00	0.00	
1,500.00	9.00	88.932	1,498.77	0.44	23.51	-16.89	3.00	3.00	0.00	
1,593.63	11.81	88.932	1,590.85	0.75	40.41	-29.03	3.00	3.00	0.00	
Pictured Cliffs										
1,600.00	12.00	88.932	1,597.08	0.78	41.73	-29.97	3.00	3.00	0.00	
1,678.11	14.34	88.932	1,673.13	1.11	59.52	-42.75	3.00	3.00	0.00	
Begin 14.34° tangent										
1,700.00	14.34	88.932	1,694.34	1.21	64.94	-46.65	0.00	0.00	0.00	
1,706.62	14.34	88.932	1,700.76	1.24	66.59	-47.83	0.00	0.00	0.00	
Lewis										
1,800.00	14.34	88.932	1,791.22	1.67	89.71	-64.44	0.00	0.00	0.00	
1,900.00	14.34	88.932	1,888.11	2.14	114.48	-82.23	0.00	0.00	0.00	
2,000.00	14.34	88.932	1,984.99	2.60	139.25	-100.02	0.00	0.00	0.00	
2,015.99	14.34	88.932	2,000.48	2.67	143.21	-102.86	0.00	0.00	0.00	
Chacra_A										
2,100.00	14.34	88.932	2,081.87	3.06	164.02	-117.81	0.00	0.00	0.00	
2,200.00	14.34	88.932	2,178.75	3.52	188.79	-135.60	0.00	0.00	0.00	
2,300.00	14.34	88.932	2,275.64	3.98	213.56	-153.39	0.00	0.00	0.00	
2,400.00	14.34	88.932	2,372.52	4.44	238.33	-171.18	0.00	0.00	0.00	
2,500.00	14.34	88.932	2,469.40	4.91	263.09	-188.97	0.00	0.00	0.00	
2,600.00	14.34	88.932	2,566.29	5.37	287.86	-206.76	0.00	0.00	0.00	
2,700.00	14.34	88.932	2,663.17	5.83	312.63	-224.55	0.00	0.00	0.00	
2,800.00	14.34	88.932	2,760.05	6.29	337.40	-242.34	0.00	0.00	0.00	
2,900.00	14.34	88.932	2,856.93	6.75	362.17	-260.14	0.00	0.00	0.00	
3,000.00	14.34	88.932	2,953.82	7.22	386.94	-277.93	0.00	0.00	0.00	
3,100.00	14.34	88.932	3,050.70	7.68	411.71	-295.72	0.00	0.00	0.00	
3,140.01	14.34	88.932	3,089.47	7.86	421.62	-302.84	0.00	0.00	0.00	
Cliff House_Basal										
3,170.95	14.34	88.932	3,119.44	8.01	429.28	-308.34	0.00	0.00	0.00	
Menefee										



Planning Report

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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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,200.00	14.34	88.932	3,147.58	8.14	436.48	-313.51	0.00	0.00	0.00	
3,300.00	14.34	88.932	3,244.47	8.60	461.25	-331.30	0.00	0.00	0.00	
3,400.00	14.34	88.932	3,341.35	9.06	486.01	-349.09	0.00	0.00	0.00	
3,500.00	14.34	88.932	3,438.23	9.53	510.78	-366.88	0.00	0.00	0.00	
3,600.00	14.34	88.932	3,535.11	9.99	535.55	-384.67	0.00	0.00	0.00	
3,700.00	14.34	88.932	3,632.00	10.45	560.32	-402.46	0.00	0.00	0.00	
3,800.00	14.34	88.932	3,728.88	10.91	585.09	-420.25	0.00	0.00	0.00	
3,900.00	14.34	88.932	3,825.76	11.37	609.86	-438.04	0.00	0.00	0.00	
4,000.00	14.34	88.932	3,922.65	11.84	634.63	-455.83	0.00	0.00	0.00	
4,100.00	14.34	88.932	4,019.53	12.30	659.40	-473.62	0.00	0.00	0.00	
4,140.29	14.34	88.932	4,058.57	12.48	669.38	-480.79	0.00	0.00	0.00	
Point Lookout										
4,200.00	14.34	88.932	4,116.41	12.76	684.16	-491.41	0.00	0.00	0.00	
4,210.79	14.34	88.932	4,126.87	12.81	686.84	-493.33	0.00	0.00	0.00	
Begin 3°/100' drop										
4,300.00	11.67	88.932	4,213.78	13.18	706.91	-507.75	3.00	-3.00	0.00	
4,348.50	10.21	88.932	4,261.40	13.36	716.11	-514.36	3.00	-3.00	0.00	
Mancos										
4,400.00	8.67	88.932	4,312.20	13.51	724.55	-520.43	3.00	-3.00	0.00	
4,500.00	5.67	88.932	4,411.40	13.75	737.03	-529.38	3.00	-3.00	0.00	
4,600.00	2.67	88.932	4,511.13	13.88	744.29	-534.60	3.00	-3.00	0.00	
4,688.90	0.00	0.005	4,600.00	13.92	746.36	-536.09	3.00	-3.00	0.00	
Begin vertical hold										
4,700.00	0.00	0.000	4,611.10	13.92	746.36	-536.09	0.00	0.00	0.00	
4,707.19	0.00	0.000	4,618.29	13.92	746.36	-536.09	0.00	0.00	0.00	
MNCS_A										
4,790.19	0.00	0.000	4,701.29	13.92	746.36	-536.09	0.00	0.00	0.00	
MNCS_B										
4,800.00	0.00	0.000	4,711.10	13.92	746.36	-536.09	0.00	0.00	0.00	
4,851.12	0.00	0.000	4,762.22	13.92	746.36	-536.09	0.00	0.00	0.00	
Begin 10°/100' build										
4,895.24	4.41	313.030	4,806.30	15.08	745.12	-534.39	10.00	10.00	0.00	
MNCS_C										
4,900.00	4.89	313.030	4,811.04	15.34	744.84	-534.00	10.00	10.00	0.00	
4,942.62	9.15	313.030	4,853.32	18.89	741.03	-528.80	10.00	10.00	0.00	
MNCS_Cms										
4,950.00	9.89	313.030	4,860.61	19.73	740.14	-527.58	10.00	10.00	0.00	
5,000.00	14.89	313.030	4,909.43	27.04	732.30	-516.85	10.00	10.00	0.00	
5,050.00	19.89	313.030	4,957.13	37.24	721.38	-501.92	10.00	10.00	0.00	
5,065.35	21.42	313.030	4,971.49	40.93	717.42	-496.50	10.00	10.00	0.00	
MNCS_D										
5,100.00	24.89	313.030	5,003.34	50.23	707.47	-482.88	10.00	10.00	0.00	
5,150.00	29.89	313.030	5,047.73	65.92	690.66	-459.89	10.00	10.00	0.00	
5,190.12	33.90	313.030	5,081.78	80.38	675.17	-438.70	10.00	10.00	0.00	
MNCS_E										
5,200.00	34.89	313.030	5,089.93	84.19	671.09	-433.11	10.00	10.00	0.00	
5,250.00	39.89	313.030	5,129.65	104.90	648.90	-402.76	10.00	10.00	0.00	
5,278.50	42.74	313.030	5,151.06	117.74	635.15	-383.95	10.00	10.00	0.00	
MNCS_F										
5,300.00	44.89	313.030	5,166.57	127.89	624.27	-369.07	10.00	10.00	0.00	
5,350.00	49.89	313.030	5,200.41	152.99	597.38	-332.28	10.00	10.00	0.00	
5,397.56	54.64	313.030	5,229.51	178.66	569.89	-294.68	10.00	10.00	0.00	



Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
MNCS_G									
5,400.00	54.89	313.030	5,230.91	180.01	568.43	-292.68	10.00	10.00	0.00
5,450.00	59.89	313.030	5,257.85	208.74	537.66	-250.58	10.00	10.00	0.00
5,481.44	63.03	313.030	5,272.87	227.59	517.47	-222.97	10.00	10.00	0.00
MNCS_H									
5,500.00	64.89	313.030	5,281.02	238.97	505.28	-206.29	10.00	10.00	0.00
5,551.12	70.00	313.030	5,300.62	271.17	470.78	-159.09	10.00	10.00	0.00
POE @ 5551.12 MD 5300.62 TVD									
5,596.40	74.53	313.030	5,314.41	300.59	439.26	-115.98	10.00	10.00	0.00
MNCS_I									
5,600.00	74.89	313.030	5,315.36	302.96	436.72	-112.51	10.00	10.00	0.00
5,650.00	79.89	313.029	5,326.28	336.25	401.07	-63.73	10.00	10.00	0.00
5,651.12	80.00	313.029	5,326.47	337.00	400.26	-62.63	10.00	10.00	0.00
7" Intermediate Casing									
5,700.00	84.89	313.029	5,332.90	370.06	364.85	-14.19	10.00	10.00	0.00
5,748.19	89.71	313.028	5,335.17	402.89	329.67	33.93	10.00	10.00	0.00
Begin 89.71° lateral									
5,800.00	89.71	313.028	5,335.44	438.24	291.80	85.75	0.00	0.00	0.00
5,900.00	89.71	313.028	5,335.95	506.48	218.70	185.74	0.00	0.00	0.00
6,000.00	89.71	313.028	5,336.46	574.72	145.60	285.74	0.00	0.00	0.00
6,100.00	89.71	313.028	5,336.97	642.95	72.50	385.74	0.00	0.00	0.00
6,200.00	89.71	313.028	5,337.49	711.19	-0.60	485.74	0.00	0.00	0.00
6,300.00	89.71	313.028	5,338.00	779.42	-73.70	585.74	0.00	0.00	0.00
6,400.00	89.71	313.028	5,338.51	847.66	-146.80	685.74	0.00	0.00	0.00
6,500.00	89.71	313.028	5,339.02	915.89	-219.90	785.74	0.00	0.00	0.00
6,600.00	89.71	313.028	5,339.53	984.13	-293.01	885.74	0.00	0.00	0.00
6,700.00	89.71	313.028	5,340.05	1,052.36	-366.11	985.73	0.00	0.00	0.00
6,800.00	89.71	313.028	5,340.56	1,120.60	-439.21	1,085.73	0.00	0.00	0.00
6,900.00	89.71	313.028	5,341.07	1,188.83	-512.31	1,185.73	0.00	0.00	0.00
7,000.00	89.71	313.028	5,341.58	1,257.07	-585.41	1,285.73	0.00	0.00	0.00
7,100.00	89.71	313.028	5,342.10	1,325.30	-658.51	1,385.73	0.00	0.00	0.00
7,200.00	89.71	313.028	5,342.61	1,393.54	-731.61	1,485.73	0.00	0.00	0.00
7,300.00	89.71	313.028	5,343.12	1,461.77	-804.71	1,585.73	0.00	0.00	0.00
7,400.00	89.71	313.028	5,343.63	1,530.01	-877.81	1,685.73	0.00	0.00	0.00
7,500.00	89.71	313.028	5,344.15	1,598.24	-950.91	1,785.72	0.00	0.00	0.00
7,600.00	89.71	313.028	5,344.66	1,666.48	-1,024.01	1,885.72	0.00	0.00	0.00
7,700.00	89.71	313.028	5,345.17	1,734.72	-1,097.11	1,985.72	0.00	0.00	0.00
7,800.00	89.71	313.028	5,345.68	1,802.95	-1,170.21	2,085.72	0.00	0.00	0.00
7,900.00	89.71	313.028	5,346.20	1,871.19	-1,243.31	2,185.72	0.00	0.00	0.00
8,000.00	89.71	313.028	5,346.71	1,939.42	-1,316.41	2,285.72	0.00	0.00	0.00
8,100.00	89.71	313.028	5,347.22	2,007.66	-1,389.51	2,385.72	0.00	0.00	0.00
8,200.00	89.71	313.028	5,347.73	2,075.89	-1,462.61	2,485.71	0.00	0.00	0.00
8,300.00	89.71	313.028	5,348.25	2,144.13	-1,535.71	2,585.71	0.00	0.00	0.00
8,400.00	89.71	313.028	5,348.76	2,212.36	-1,608.81	2,685.71	0.00	0.00	0.00
8,500.00	89.71	313.028	5,349.27	2,280.60	-1,681.91	2,785.71	0.00	0.00	0.00
8,600.00	89.71	313.028	5,349.78	2,348.83	-1,755.02	2,885.71	0.00	0.00	0.00
8,700.00	89.71	313.028	5,350.30	2,417.07	-1,828.12	2,985.71	0.00	0.00	0.00
8,800.00	89.71	313.028	5,350.81	2,485.30	-1,901.22	3,085.71	0.00	0.00	0.00
8,900.00	89.71	313.028	5,351.32	2,553.54	-1,974.32	3,185.71	0.00	0.00	0.00
9,000.00	89.71	313.028	5,351.83	2,621.77	-2,047.42	3,285.70	0.00	0.00	0.00
9,100.00	89.71	313.028	5,352.34	2,690.01	-2,120.52	3,385.70	0.00	0.00	0.00
9,200.00	89.71	313.028	5,352.86	2,758.24	-2,193.62	3,485.70	0.00	0.00	0.00
9,300.00	89.71	313.028	5,353.37	2,826.48	-2,266.72	3,585.70	0.00	0.00	0.00



Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	89.71	313.028	5,353.88	2,894.72	-2,339.82	3,685.70	0.00	0.00	0.00
9,500.00	89.71	313.028	5,354.39	2,962.95	-2,412.92	3,785.70	0.00	0.00	0.00
9,600.00	89.71	313.028	5,354.91	3,031.19	-2,486.02	3,885.70	0.00	0.00	0.00
9,700.00	89.71	313.028	5,355.42	3,099.42	-2,559.12	3,985.70	0.00	0.00	0.00
9,800.00	89.71	313.028	5,355.93	3,167.66	-2,632.22	4,085.69	0.00	0.00	0.00
9,900.00	89.71	313.028	5,356.44	3,235.89	-2,705.32	4,185.69	0.00	0.00	0.00
10,000.00	89.71	313.028	5,356.96	3,304.13	-2,778.42	4,285.69	0.00	0.00	0.00
10,100.00	89.71	313.028	5,357.47	3,372.36	-2,851.52	4,385.69	0.00	0.00	0.00
10,200.00	89.71	313.028	5,357.98	3,440.60	-2,924.62	4,485.69	0.00	0.00	0.00
10,300.00	89.71	313.028	5,358.49	3,508.83	-2,997.72	4,585.69	0.00	0.00	0.00
10,400.00	89.71	313.028	5,359.01	3,577.07	-3,070.82	4,685.69	0.00	0.00	0.00
10,500.00	89.71	313.028	5,359.52	3,645.30	-3,143.92	4,785.68	0.00	0.00	0.00
10,600.00	89.71	313.028	5,360.03	3,713.54	-3,217.03	4,885.68	0.00	0.00	0.00
10,700.00	89.71	313.028	5,360.54	3,781.77	-3,290.13	4,985.68	0.00	0.00	0.00
10,800.00	89.71	313.028	5,361.06	3,850.01	-3,363.23	5,085.68	0.00	0.00	0.00
10,900.00	89.71	313.028	5,361.57	3,918.24	-3,436.33	5,185.68	0.00	0.00	0.00
11,000.00	89.71	313.028	5,362.08	3,986.48	-3,509.43	5,285.68	0.00	0.00	0.00
11,100.00	89.71	313.028	5,362.59	4,054.72	-3,582.53	5,385.68	0.00	0.00	0.00
11,200.00	89.71	313.028	5,363.10	4,122.95	-3,655.63	5,485.68	0.00	0.00	0.00
11,300.00	89.71	313.028	5,363.62	4,191.19	-3,728.73	5,585.67	0.00	0.00	0.00
11,400.00	89.71	313.028	5,364.13	4,259.42	-3,801.83	5,685.67	0.00	0.00	0.00
11,500.00	89.71	313.028	5,364.64	4,327.66	-3,874.93	5,785.67	0.00	0.00	0.00
11,600.00	89.71	313.028	5,365.15	4,395.89	-3,948.03	5,885.67	0.00	0.00	0.00
11,700.00	89.71	313.028	5,365.67	4,464.13	-4,021.13	5,985.67	0.00	0.00	0.00
11,800.00	89.71	313.028	5,366.18	4,532.36	-4,094.23	6,085.67	0.00	0.00	0.00
11,900.00	89.71	313.028	5,366.69	4,600.60	-4,167.33	6,185.67	0.00	0.00	0.00
12,000.00	89.71	313.028	5,367.20	4,668.83	-4,240.43	6,285.66	0.00	0.00	0.00
12,100.00	89.71	313.028	5,367.72	4,737.07	-4,313.53	6,385.66	0.00	0.00	0.00
12,200.00	89.71	313.028	5,368.23	4,805.30	-4,386.63	6,485.66	0.00	0.00	0.00
12,300.00	89.71	313.028	5,368.74	4,873.54	-4,459.73	6,585.66	0.00	0.00	0.00
12,400.00	89.71	313.028	5,369.25	4,941.77	-4,532.83	6,685.66	0.00	0.00	0.00
12,500.00	89.71	313.028	5,369.77	5,010.01	-4,605.94	6,785.66	0.00	0.00	0.00
12,600.00	89.71	313.028	5,370.28	5,078.24	-4,679.04	6,885.66	0.00	0.00	0.00
12,700.00	89.71	313.028	5,370.79	5,146.48	-4,752.14	6,985.66	0.00	0.00	0.00
12,800.00	89.71	313.028	5,371.30	5,214.71	-4,825.24	7,085.65	0.00	0.00	0.00
12,900.00	89.71	313.028	5,371.82	5,282.95	-4,898.34	7,185.65	0.00	0.00	0.00
13,000.00	89.71	313.028	5,372.33	5,351.19	-4,971.44	7,285.65	0.00	0.00	0.00
13,100.00	89.71	313.028	5,372.84	5,419.42	-5,044.54	7,385.65	0.00	0.00	0.00
13,200.00	89.71	313.028	5,373.35	5,487.66	-5,117.64	7,485.65	0.00	0.00	0.00
13,300.00	89.71	313.028	5,373.86	5,555.89	-5,190.74	7,585.65	0.00	0.00	0.00
13,400.00	89.71	313.028	5,374.38	5,624.13	-5,263.84	7,685.65	0.00	0.00	0.00
13,500.00	89.71	313.028	5,374.89	5,692.36	-5,336.94	7,785.65	0.00	0.00	0.00
13,600.00	89.71	313.028	5,375.40	5,760.60	-5,410.04	7,885.64	0.00	0.00	0.00
13,700.00	89.71	313.028	5,375.91	5,828.83	-5,483.14	7,985.64	0.00	0.00	0.00
13,806.50	89.71	313.028	5,376.46	5,901.50	-5,560.99	8,092.14	0.00	0.00	0.00
PBHL/TD @ 13806.50 MD 5376.46 TVD									



Planning Report

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4	
5,651.12	5,326.47	7" Intermediate Casing	7	8-1/2	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
831.00	831.00	Ojo Alamo		0.29	313.030
956.00	956.00	Kirtland		0.29	313.030
1,246.00	1,246.00	Fruitland		0.29	313.030
1,593.63	1,590.85	Pictured Cliffs		0.29	313.030
1,706.62	1,700.76	Lewis		0.29	313.030
2,015.99	2,000.48	Chacra_A		0.29	313.030
3,140.01	3,089.47	Cliff House_Basal		0.29	313.030
3,170.95	3,119.44	Menefee		0.29	313.030
4,140.29	4,058.57	Point Lookout		0.29	313.030
4,348.50	4,261.40	Mancos		0.29	313.030
4,707.19	4,618.29	MNCS_A		0.29	313.030
4,790.19	4,701.29	MNCS_B		0.29	313.030
4,895.24	4,806.30	MNCS_C		0.29	313.030
4,942.62	4,853.32	MNCS_Cms		0.29	313.030
5,065.35	4,971.49	MNCS_D		0.29	313.030
5,190.12	5,081.78	MNCS_E		0.29	313.030
5,278.50	5,151.06	MNCS_F		0.29	313.030
5,397.56	5,229.51	MNCS_G		0.29	313.030
5,481.44	5,272.87	MNCS_H		0.29	313.030
5,596.40	5,314.41	MNCS_I		0.29	313.030

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,678.11	1,673.13	1.11	59.52	Begin 14.34° tangent	
4,210.79	4,126.87	12.81	686.84	Begin 3°/100' drop	
4,688.90	4,600.00	13.92	746.36	Begin vertical hold	
4,851.12	4,762.22	13.92	746.36	Begin 10°/100' build	
5,551.12	5,300.62	271.17	470.78	POE @ 5551.12 MD 5300.62 TVD	
5,748.19	5,335.17	402.89	329.67	Begin 89.71° lateral	
13,806.50	5,376.46	5,901.50	-5,560.99	PBHL/TD @ 13806.50 MD 5376.46 TVD	



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

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 213H, Surf loc: 1798 FSL 792 FWL Section 26-T24N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,922,205.14 usft	Latitude:	36.28268900
	+E/-W	0.00 ft	Easting:	2,743,140.65 usft	Longitude:	-107.76530800
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	2/7/2024	8.53	62.73	49,066.26707429

Design	rev1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	313.030

Plan Survey Tool Program	Date	6/14/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,806.50 rev1 (Original Hole)	MWD	OWSG MWD - Standard



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,678.11	14.34	88.932	1,673.13	1.11	59.52	3.00	3.00	0.00	88.93	
4,210.79	14.34	88.932	4,126.87	12.81	686.84	0.00	0.00	0.00	0.00	
4,688.90	0.00	0.005	4,600.00	13.92	746.36	3.00	-3.00	0.00	180.00	Nageezi 213 vert
4,851.12	0.00	0.005	4,762.22	13.92	746.36	0.00	0.00	0.00	0.01	
5,551.12	70.00	313.030	5,300.62	271.17	470.78	10.00	10.00	0.00	313.03	
5,748.19	89.71	313.028	5,335.17	402.89	329.67	10.00	10.00	0.00	0.00	
13,806.50	89.71	313.028	5,376.46	5,901.50	-5,560.99	0.00	0.00	0.00	0.00	Nageezi 213 BHL 239



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
100.00	0.00	0.000	100.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
200.00	0.00	0.000	200.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
300.00	0.00	0.000	300.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
350.00	0.00	0.000	350.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
9-5/8" Surface Casing										
400.00	0.00	0.000	400.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
500.00	0.00	0.000	500.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
600.00	0.00	0.000	600.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
700.00	0.00	0.000	700.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
800.00	0.00	0.000	800.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
831.00	0.00	0.000	831.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
Ojo Alamo										
900.00	0.00	0.000	900.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
956.00	0.00	0.000	956.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
Kirtland										
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
1,100.00	0.00	0.000	1,100.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	1,922,205.14	2,743,140.65	36.28268900	-107.76530800	
KOP Begin 3"/100' build										
1,246.00	1.38	88.932	1,246.00	0.01	0.55	1,922,205.15	2,743,141.20	36.28268903	-107.76530613	
Fruitland										
1,300.00	3.00	88.932	1,299.95	0.05	2.62	1,922,205.18	2,743,143.27	36.28268913	-107.76529913	
1,400.00	6.00	88.932	1,399.63	0.20	10.46	1,922,205.33	2,743,151.11	36.28268952	-107.76527251	
1,500.00	9.00	88.932	1,498.77	0.44	23.51	1,922,205.57	2,743,164.16	36.28269016	-107.76522824	
1,593.63	11.81	88.932	1,590.85	0.75	40.41	1,922,205.89	2,743,181.06	36.28269099	-107.76517088	
Pictured Cliffs										
1,600.00	12.00	88.932	1,597.08	0.78	41.73	1,922,205.91	2,743,182.38	36.28269106	-107.76516642	
1,678.11	14.34	88.932	1,673.13	1.11	59.52	1,922,206.25	2,743,200.17	36.28269194	-107.76510605	
Begin 14.34° tangent										
1,700.00	14.34	88.932	1,694.34	1.21	64.94	1,922,206.35	2,743,205.59	36.28269220	-107.76508765	
1,706.62	14.34	88.932	1,700.76	1.24	66.59	1,922,206.38	2,743,207.23	36.28269228	-107.76508208	
Lewis										
1,800.00	14.34	88.932	1,791.22	1.67	89.71	1,922,206.81	2,743,230.36	36.28269342	-107.76500361	
1,900.00	14.34	88.932	1,888.11	2.14	114.48	1,922,207.27	2,743,255.13	36.28269464	-107.76491957	
2,000.00	14.34	88.932	1,984.99	2.60	139.25	1,922,207.73	2,743,279.90	36.28269587	-107.76483553	
2,015.99	14.34	88.932	2,000.48	2.67	143.21	1,922,207.81	2,743,283.86	36.28269606	-107.76482209	
Chacra_A										
2,100.00	14.34	88.932	2,081.87	3.06	164.02	1,922,208.19	2,743,304.67	36.28269709	-107.76475149	
2,200.00	14.34	88.932	2,178.75	3.52	188.79	1,922,208.66	2,743,329.44	36.28269831	-107.76466745	
2,300.00	14.34	88.932	2,275.64	3.98	213.56	1,922,209.12	2,743,354.21	36.28269953	-107.76458341	
2,400.00	14.34	88.932	2,372.52	4.44	238.33	1,922,209.58	2,743,378.97	36.28270075	-107.76449937	
2,500.00	14.34	88.932	2,469.40	4.91	263.09	1,922,210.04	2,743,403.74	36.28270197	-107.76441533	
2,600.00	14.34	88.932	2,566.29	5.37	287.86	1,922,210.50	2,743,428.51	36.28270319	-107.76433129	
2,700.00	14.34	88.932	2,663.17	5.83	312.63	1,922,210.97	2,743,453.28	36.28270441	-107.76424725	
2,800.00	14.34	88.932	2,760.05	6.29	337.40	1,922,211.43	2,743,478.05	36.28270563	-107.76416321	
2,900.00	14.34	88.932	2,856.93	6.75	362.17	1,922,211.89	2,743,502.82	36.28270685	-107.76407916	
3,000.00	14.34	88.932	2,953.82	7.22	386.94	1,922,212.35	2,743,527.59	36.28270807	-107.76399512	
3,100.00	14.34	88.932	3,050.70	7.68	411.71	1,922,212.81	2,743,552.36	36.28270929	-107.76391108	
3,140.01	14.34	88.932	3,089.47	7.86	421.62	1,922,213.00	2,743,562.27	36.28270978	-107.76387746	
Cliff House_Basal										
3,170.95	14.34	88.932	3,119.44	8.01	429.28	1,922,213.14	2,743,569.93	36.28271016	-107.76385146	
Menefee										



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,200.00	14.34	88.932	3,147.58	8.14	436.48	1,922,213.28	2,743,577.12	36.28271051	-107.76382704	
3,300.00	14.34	88.932	3,244.47	8.60	461.25	1,922,213.74	2,743,601.89	36.28271173	-107.76374300	
3,400.00	14.34	88.932	3,341.35	9.06	486.01	1,922,214.20	2,743,626.66	36.28271295	-107.76365896	
3,500.00	14.34	88.932	3,438.23	9.53	510.78	1,922,214.66	2,743,651.43	36.28271417	-107.76357492	
3,600.00	14.34	88.932	3,535.11	9.99	535.55	1,922,215.12	2,743,676.20	36.28271539	-107.76349088	
3,700.00	14.34	88.932	3,632.00	10.45	560.32	1,922,215.59	2,743,700.97	36.28271661	-107.76340684	
3,800.00	14.34	88.932	3,728.88	10.91	585.09	1,922,216.05	2,743,725.74	36.28271783	-107.76332280	
3,900.00	14.34	88.932	3,825.76	11.37	609.86	1,922,216.51	2,743,750.51	36.28271905	-107.76323876	
4,000.00	14.34	88.932	3,922.65	11.84	634.63	1,922,216.97	2,743,775.27	36.28272027	-107.76315472	
4,100.00	14.34	88.932	4,019.53	12.30	659.40	1,922,217.43	2,743,800.04	36.28272149	-107.76307068	
4,140.29	14.34	88.932	4,058.57	12.48	669.38	1,922,217.62	2,743,810.02	36.28272198	-107.76303682	
Point Lookout										
4,200.00	14.34	88.932	4,116.41	12.76	684.16	1,922,217.90	2,743,824.81	36.28272271	-107.76298664	
4,210.79	14.34	88.932	4,126.87	12.81	686.84	1,922,217.95	2,743,827.49	36.28272284	-107.76297757	
Begin 3°/100' drop										
4,300.00	11.67	88.932	4,213.78	13.18	706.91	1,922,218.32	2,743,847.56	36.28272383	-107.76290947	
4,348.50	10.21	88.932	4,261.40	13.36	716.11	1,922,218.49	2,743,856.76	36.28272428	-107.76287825	
Mancos										
4,400.00	8.67	88.932	4,312.20	13.51	724.55	1,922,218.65	2,743,865.20	36.28272470	-107.76284960	
4,500.00	5.67	88.932	4,411.40	13.75	737.03	1,922,218.88	2,743,877.67	36.28272531	-107.76280728	
4,600.00	2.67	88.932	4,511.13	13.88	744.29	1,922,219.02	2,743,884.94	36.28272567	-107.76278263	
4,688.90	0.00	0.005	4,600.00	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
Begin vertical hold										
4,700.00	0.00	0.000	4,611.10	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
4,707.19	0.00	0.000	4,618.29	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
MNCS_A										
4,790.19	0.00	0.000	4,701.29	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
MNCS_B										
4,800.00	0.00	0.000	4,711.10	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
4,851.12	0.00	0.000	4,762.22	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561	
Begin 10°/100' build										
4,895.24	4.41	313.030	4,806.30	15.08	745.12	1,922,220.21	2,743,885.77	36.28272896	-107.76277982	
MNCS_C										
4,900.00	4.89	313.030	4,811.04	15.34	744.84	1,922,220.48	2,743,885.48	36.28272968	-107.76278077	
4,942.62	9.15	313.030	4,853.32	18.89	741.03	1,922,224.03	2,743,881.68	36.28273945	-107.76279368	
MNCS_Cms										
4,950.00	9.89	313.030	4,860.61	19.73	740.14	1,922,224.86	2,743,880.79	36.28274174	-107.76279670	
5,000.00	14.89	313.030	4,909.43	27.04	732.30	1,922,232.18	2,743,872.95	36.28276185	-107.76282328	
5,050.00	19.89	313.030	4,957.13	37.24	721.38	1,922,242.37	2,743,862.03	36.28278988	-107.76286030	
5,065.35	21.42	313.030	4,971.49	40.93	717.42	1,922,246.07	2,743,858.07	36.28280003	-107.76287372	
MNCS_D										
5,100.00	24.89	313.030	5,003.34	50.23	707.47	1,922,255.36	2,743,848.11	36.28282559	-107.76290749	
5,150.00	29.89	313.030	5,047.73	65.92	690.66	1,922,271.05	2,743,831.30	36.28286873	-107.76296448	
5,190.12	33.90	313.030	5,081.78	80.38	675.17	1,922,285.51	2,743,815.81	36.28290848	-107.76301700	
MNCS_E										
5,200.00	34.89	313.030	5,089.93	84.19	671.09	1,922,289.32	2,743,811.73	36.28291895	-107.76303084	
5,250.00	39.89	313.030	5,129.65	104.90	648.90	1,922,310.03	2,743,789.55	36.28297589	-107.76310606	
5,278.50	42.74	313.030	5,151.06	117.74	635.15	1,922,322.87	2,743,775.79	36.28301119	-107.76315270	
MNCS_F										
5,300.00	44.89	313.030	5,166.57	127.89	624.27	1,922,333.03	2,743,764.92	36.28303911	-107.76318958	
5,350.00	49.89	313.030	5,200.41	152.99	597.38	1,922,358.13	2,743,738.03	36.28310812	-107.76328076	
5,397.56	54.64	313.030	5,229.51	178.66	569.89	1,922,383.79	2,743,710.54	36.28317866	-107.76337397	
MNCS_G										



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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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,400.00	54.89	313.030	5,230.91	180.01	568.43	1,922,385.15	2,743,709.08	36.28318240	-107.76337890	
5,450.00	59.89	313.030	5,257.85	208.74	537.66	1,922,413.88	2,743,678.30	36.28326138	-107.76348326	
5,481.44	63.03	313.030	5,272.87	227.59	517.47	1,922,432.72	2,743,658.12	36.28331318	-107.76355170	
MNCS_H										
5,500.00	64.89	313.030	5,281.02	238.97	505.28	1,922,444.10	2,743,645.93	36.28334447	-107.76359304	
5,551.12	70.00	313.030	5,300.62	271.17	470.78	1,922,476.31	2,743,611.43	36.28343301	-107.76371002	
POE @ 5551.12 MD 5300.62 TVD										
5,596.40	74.53	313.030	5,314.41	300.59	439.26	1,922,505.73	2,743,579.91	36.28351389	-107.76381687	
MNCS_I										
5,600.00	74.89	313.030	5,315.36	302.96	436.72	1,922,508.10	2,743,577.37	36.28352041	-107.76382549	
5,650.00	79.89	313.029	5,326.28	336.25	401.07	1,922,541.38	2,743,541.72	36.28361191	-107.76394639	
5,651.12	80.00	313.029	5,326.47	337.00	400.26	1,922,542.14	2,743,540.91	36.28361398	-107.76394912	
7" Intermediate Casing										
5,700.00	84.89	313.029	5,332.90	370.06	364.85	1,922,575.19	2,743,505.50	36.28370485	-107.76406919	
5,748.19	89.71	313.028	5,335.17	402.89	329.67	1,922,608.02	2,743,470.32	36.28379512	-107.76418846	
Begin 89.71° lateral										
5,800.00	89.71	313.028	5,335.44	438.24	291.80	1,922,643.38	2,743,432.45	36.28389232	-107.76431689	
5,900.00	89.71	313.028	5,335.95	506.48	218.70	1,922,711.61	2,743,359.35	36.28407991	-107.76456475	
6,000.00	89.71	313.028	5,336.46	574.72	145.60	1,922,779.85	2,743,286.25	36.28426749	-107.76481262	
6,100.00	89.71	313.028	5,336.97	642.95	72.50	1,922,848.08	2,743,213.15	36.28445508	-107.76506049	
6,200.00	89.71	313.028	5,337.49	711.19	-0.60	1,922,916.32	2,743,140.05	36.28464267	-107.76530836	
6,300.00	89.71	313.028	5,338.00	779.42	-73.70	1,922,984.56	2,743,066.95	36.28483026	-107.76555623	
6,400.00	89.71	313.028	5,338.51	847.66	-146.80	1,923,052.79	2,742,993.85	36.28501784	-107.76580410	
6,500.00	89.71	313.028	5,339.02	915.89	-219.90	1,923,121.03	2,742,920.74	36.28520543	-107.76605197	
6,600.00	89.71	313.028	5,339.53	984.13	-293.01	1,923,189.26	2,742,847.64	36.28539302	-107.76629984	
6,700.00	89.71	313.028	5,340.05	1,052.36	-366.11	1,923,257.50	2,742,774.54	36.28558060	-107.76654772	
6,800.00	89.71	313.028	5,340.56	1,120.60	-439.21	1,923,325.73	2,742,701.44	36.28576818	-107.76679560	
6,900.00	89.71	313.028	5,341.07	1,188.83	-512.31	1,923,393.97	2,742,628.34	36.28595577	-107.76704347	
7,000.00	89.71	313.028	5,341.58	1,257.07	-585.41	1,923,462.20	2,742,555.24	36.28614335	-107.76729135	
7,100.00	89.71	313.028	5,342.10	1,325.30	-658.51	1,923,530.44	2,742,482.14	36.28633094	-107.76753923	
7,200.00	89.71	313.028	5,342.61	1,393.54	-731.61	1,923,598.67	2,742,409.04	36.28651852	-107.76778711	
7,300.00	89.71	313.028	5,343.12	1,461.77	-804.71	1,923,666.91	2,742,335.94	36.28670610	-107.76803500	
7,400.00	89.71	313.028	5,343.63	1,530.01	-877.81	1,923,735.14	2,742,262.84	36.28689368	-107.76828288	
7,500.00	89.71	313.028	5,344.15	1,598.24	-950.91	1,923,803.38	2,742,189.74	36.28708126	-107.76853076	
7,600.00	89.71	313.028	5,344.66	1,666.48	-1,024.01	1,923,871.61	2,742,116.64	36.28726884	-107.76877865	
7,700.00	89.71	313.028	5,345.17	1,734.72	-1,097.11	1,923,939.85	2,742,043.54	36.28745642	-107.76902654	
7,800.00	89.71	313.028	5,345.68	1,802.95	-1,170.21	1,924,008.08	2,741,970.44	36.28764400	-107.76927442	
7,900.00	89.71	313.028	5,346.20	1,871.19	-1,243.31	1,924,076.32	2,741,897.34	36.28783158	-107.76952231	
8,000.00	89.71	313.028	5,346.71	1,939.42	-1,316.41	1,924,144.55	2,741,824.24	36.28801916	-107.76977020	
8,100.00	89.71	313.028	5,347.22	2,007.66	-1,389.51	1,924,212.79	2,741,751.14	36.28820674	-107.77001810	
8,200.00	89.71	313.028	5,347.73	2,075.89	-1,462.61	1,924,281.02	2,741,678.04	36.28839431	-107.77026599	
8,300.00	89.71	313.028	5,348.25	2,144.13	-1,535.71	1,924,349.26	2,741,604.94	36.28858189	-107.77051388	
8,400.00	89.71	313.028	5,348.76	2,212.36	-1,608.81	1,924,417.49	2,741,531.84	36.28876947	-107.77076178	
8,500.00	89.71	313.028	5,349.27	2,280.60	-1,681.91	1,924,485.73	2,741,458.74	36.28895704	-107.77100967	
8,600.00	89.71	313.028	5,349.78	2,348.83	-1,755.02	1,924,553.96	2,741,385.64	36.28914462	-107.77125757	
8,700.00	89.71	313.028	5,350.30	2,417.07	-1,828.12	1,924,622.20	2,741,312.54	36.28933219	-107.77150547	
8,800.00	89.71	313.028	5,350.81	2,485.30	-1,901.22	1,924,690.43	2,741,239.44	36.28951976	-107.77175337	
8,900.00	89.71	313.028	5,351.32	2,553.54	-1,974.32	1,924,758.67	2,741,166.34	36.28970734	-107.77200127	
9,000.00	89.71	313.028	5,351.83	2,621.77	-2,047.42	1,924,826.90	2,741,093.24	36.28989491	-107.77224917	
9,100.00	89.71	313.028	5,352.34	2,690.01	-2,120.52	1,924,895.14	2,741,020.14	36.29008248	-107.77249708	
9,200.00	89.71	313.028	5,352.86	2,758.24	-2,193.62	1,924,963.37	2,740,947.04	36.29027006	-107.77274498	
9,300.00	89.71	313.028	5,353.37	2,826.48	-2,266.72	1,925,031.61	2,740,873.93	36.29045763	-107.77299289	
9,400.00	89.71	313.028	5,353.88	2,894.72	-2,339.82	1,925,099.84	2,740,800.83	36.29064520	-107.77324080	
9,500.00	89.71	313.028	5,354.39	2,962.95	-2,412.92	1,925,168.08	2,740,727.73	36.29083277	-107.77348870	



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
9,600.00	89.71	313.028	5,354.91	3,031.19	-2,486.02	1,925,236.31	2,740,654.63	36.29102034	-107.77373661	
9,700.00	89.71	313.028	5,355.42	3,099.42	-2,559.12	1,925,304.55	2,740,581.53	36.29120791	-107.77398452	
9,800.00	89.71	313.028	5,355.93	3,167.66	-2,632.22	1,925,372.79	2,740,508.43	36.29139548	-107.77423244	
9,900.00	89.71	313.028	5,356.44	3,235.89	-2,705.32	1,925,441.02	2,740,435.33	36.29158305	-107.77448035	
10,000.00	89.71	313.028	5,356.96	3,304.13	-2,778.42	1,925,509.26	2,740,362.23	36.29177061	-107.77472826	
10,100.00	89.71	313.028	5,357.47	3,372.36	-2,851.52	1,925,577.49	2,740,289.13	36.29195818	-107.77497618	
10,200.00	89.71	313.028	5,357.98	3,440.60	-2,924.62	1,925,645.73	2,740,216.03	36.29214575	-107.77522408	
10,300.00	89.71	313.028	5,358.49	3,508.83	-2,997.72	1,925,713.96	2,740,142.93	36.29233331	-107.77547200	
10,400.00	89.71	313.028	5,359.01	3,577.07	-3,070.82	1,925,782.20	2,740,069.83	36.29252088	-107.77571992	
10,500.00	89.71	313.028	5,359.52	3,645.30	-3,143.92	1,925,850.43	2,739,996.73	36.29270844	-107.77596784	
10,600.00	89.71	313.028	5,360.03	3,713.54	-3,217.03	1,925,918.67	2,739,923.63	36.29289601	-107.77621576	
10,700.00	89.71	313.028	5,360.54	3,781.77	-3,290.13	1,925,986.90	2,739,850.53	36.29308357	-107.77646369	
10,800.00	89.71	313.028	5,361.06	3,850.01	-3,363.23	1,926,055.14	2,739,777.43	36.29327114	-107.77671161	
10,900.00	89.71	313.028	5,361.57	3,918.24	-3,436.33	1,926,123.37	2,739,704.33	36.29345870	-107.77695953	
11,000.00	89.71	313.028	5,362.08	3,986.48	-3,509.43	1,926,191.61	2,739,631.23	36.29364626	-107.77720746	
11,100.00	89.71	313.028	5,362.59	4,054.72	-3,582.53	1,926,259.84	2,739,558.13	36.29383383	-107.77745539	
11,200.00	89.71	313.028	5,363.10	4,122.95	-3,655.63	1,926,328.08	2,739,485.03	36.29402139	-107.77770332	
11,300.00	89.71	313.028	5,363.62	4,191.19	-3,728.73	1,926,396.31	2,739,411.93	36.29420895	-107.77795125	
11,400.00	89.71	313.028	5,364.13	4,259.42	-3,801.83	1,926,464.55	2,739,338.83	36.29439651	-107.77819918	
11,500.00	89.71	313.028	5,364.64	4,327.66	-3,874.93	1,926,532.78	2,739,265.73	36.29458407	-107.77844711	
11,600.00	89.71	313.028	5,365.15	4,395.89	-3,948.03	1,926,601.02	2,739,192.63	36.29477163	-107.77869504	
11,700.00	89.71	313.028	5,365.67	4,464.13	-4,021.13	1,926,669.25	2,739,119.53	36.29495919	-107.77894298	
11,800.00	89.71	313.028	5,366.18	4,532.36	-4,094.23	1,926,737.49	2,739,046.43	36.29514675	-107.77919091	
11,900.00	89.71	313.028	5,366.69	4,600.60	-4,167.33	1,926,805.72	2,738,973.33	36.29533430	-107.77943885	
12,000.00	89.71	313.028	5,367.20	4,668.83	-4,240.43	1,926,873.96	2,738,900.23	36.29552186	-107.77968679	
12,100.00	89.71	313.028	5,367.72	4,737.07	-4,313.53	1,926,942.19	2,738,827.12	36.29570942	-107.77993473	
12,200.00	89.71	313.028	5,368.23	4,805.30	-4,386.63	1,927,010.43	2,738,754.02	36.29589697	-107.78018267	
12,300.00	89.71	313.028	5,368.74	4,873.54	-4,459.73	1,927,078.66	2,738,680.92	36.29608453	-107.78043061	
12,400.00	89.71	313.028	5,369.25	4,941.77	-4,532.83	1,927,146.90	2,738,607.82	36.29627209	-107.78067855	
12,500.00	89.71	313.028	5,369.77	5,010.01	-4,605.94	1,927,215.13	2,738,534.72	36.29645964	-107.78092649	
12,600.00	89.71	313.028	5,370.28	5,078.24	-4,679.04	1,927,283.37	2,738,461.62	36.29664719	-107.78117444	
12,700.00	89.71	313.028	5,370.79	5,146.48	-4,752.14	1,927,351.60	2,738,388.52	36.29683475	-107.78142239	
12,800.00	89.71	313.028	5,371.30	5,214.71	-4,825.24	1,927,419.84	2,738,315.42	36.29702230	-107.78167033	
12,900.00	89.71	313.028	5,371.82	5,282.95	-4,898.34	1,927,488.07	2,738,242.32	36.29720985	-107.78191828	
13,000.00	89.71	313.028	5,372.33	5,351.19	-4,971.44	1,927,556.31	2,738,169.22	36.29739741	-107.78216623	
13,100.00	89.71	313.028	5,372.84	5,419.42	-5,044.54	1,927,624.55	2,738,096.12	36.29758496	-107.78241418	
13,200.00	89.71	313.028	5,373.35	5,487.66	-5,117.64	1,927,692.78	2,738,023.02	36.29777251	-107.78266213	
13,300.00	89.71	313.028	5,373.86	5,555.89	-5,190.74	1,927,761.02	2,737,949.92	36.29796006	-107.78291009	
13,400.00	89.71	313.028	5,374.38	5,624.13	-5,263.84	1,927,829.25	2,737,876.82	36.29814761	-107.78315804	
13,500.00	89.71	313.028	5,374.89	5,692.36	-5,336.94	1,927,897.49	2,737,803.72	36.29833516	-107.78340600	
13,600.00	89.71	313.028	5,375.40	5,760.60	-5,410.04	1,927,965.72	2,737,730.62	36.29852271	-107.78365396	
13,700.00	89.71	313.028	5,375.91	5,828.83	-5,483.14	1,928,033.96	2,737,657.52	36.29871026	-107.78390191	
13,806.50	89.71	313.028	5,376.46	5,901.50	-5,560.99	1,928,106.63	2,737,579.67	36.29891000	-107.78416600	

PBHL/TD @ 13806.50 MD 5376.46 TVD



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Nageezi 213 vert - plan hits target center - Point	0.00	0.000	4,600.00	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561
Nageezi 213 PPP/POE ; - plan hits target center - Point	0.00	0.000	5,300.62	271.17	470.78	1,922,476.30	2,743,611.43	36.28343300	-107.76371000
Nageezi 213 0 VS - plan misses target center by 1.01ft at 5714.28ft MD (5333.99 TVD, 379.77 N, 354.44 E) - Point	0.00	0.000	5,335.00	379.74	354.48	1,922,584.87	2,743,495.13	36.28373148	-107.76410435
Nageezi 213 BHL 2390 I - plan hits target center - Point	0.00	0.000	5,376.46	5,901.50	-5,560.99	1,928,106.63	2,737,579.67	36.29891000	-107.78416600

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
350.00	350.00	9-5/8" Surface Casing	9-5/8	12-1/4	
5,651.12	5,326.47	7" Intermediate Casing	7	8-1/2	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
831.00	831.00	Ojo Alamo		0.29	313.030
956.00	956.00	Kirtland		0.29	313.030
1,246.00	1,246.00	Fruitland		0.29	313.030
1,593.63	1,590.85	Pictured Cliffs		0.29	313.030
1,706.62	1,700.76	Lewis		0.29	313.030
2,015.99	2,000.48	Chacra_A		0.29	313.030
3,140.01	3,089.47	Cliff House_Basal		0.29	313.030
3,170.95	3,119.44	Menefee		0.29	313.030
4,140.29	4,058.57	Point Lookout		0.29	313.030
4,348.50	4,261.40	Mancos		0.29	313.030
4,707.19	4,618.29	MNCS_A		0.29	313.030
4,790.19	4,701.29	MNCS_B		0.29	313.030
4,895.24	4,806.30	MNCS_C		0.29	313.030
4,942.62	4,853.32	MNCS_Cms		0.29	313.030
5,065.35	4,971.49	MNCS_D		0.29	313.030
5,190.12	5,081.78	MNCS_E		0.29	313.030
5,278.50	5,151.06	MNCS_F		0.29	313.030
5,397.56	5,229.51	MNCS_G		0.29	313.030
5,481.44	5,272.87	MNCS_H		0.29	313.030
5,596.40	5,314.41	MNCS_I		0.29	313.030



Planning Report - Geographic

Database:	DT_May1924_v17	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev1		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,678.11	1,673.13	1.11	59.52	Begin 14.34° tangent	
4,210.79	4,126.87	12.81	686.84	Begin 3°/100' drop	
4,688.90	4,600.00	13.92	746.36	Begin vertical hold	
4,851.12	4,762.22	13.92	746.36	Begin 10°/100' build	
5,551.12	5,300.62	271.17	470.78	POE @ 5551.12 MD 5300.62 TVD	
5,748.19	5,335.17	402.89	329.67	Begin 89.71° lateral	
13,806.50	5,376.46	5,901.50	-5,560.99	PBHL/TD @ 13806.50 MD 5376.46 TVD	



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Reference	rev1		
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference		
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,580.65ft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	6/14/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,806.50	rev1 (Original Hole)	MWD	OWSG MWD - Standard

Site Name Offset Well - Wellbore - Design	Reference Measured	Offset Measured	Distance		Separation Factor	Warning
	Depth (ft)	Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
Nageezi Unit (207, 209, 211, 623 & 626)						
Nageezi Unit 623H - Original Hole - rev0	5,798.32	8,041.70	1,200.14	1,082.63	10.213	CC
Nageezi Unit 623H - Original Hole - rev0	12,600.00	14,784.80	1,201.66	785.59	2.888	ES, SF
Nageezi Unit (213, 214, 215, 216, 217 & 218)						
Nageezi Unit 214H - Original Hole - rev0	1,219.69	1,220.15	38.05	29.50	4.450	CC, ES
Nageezi Unit 214H - Original Hole - rev0	13,500.00	12,012.11	1,580.57	1,217.65	4.355	SF
Nageezi Unit 215H - Original Hole - rev0	1,000.00	1,000.00	20.08	13.09	2.873	CC, ES
Nageezi Unit 215H - Original Hole - rev0	1,100.00	1,099.31	21.69	14.00	2.821	SF
Nageezi Unit 216H - Original Hole - rev0	1,186.44	1,186.73	17.89	9.58	2.154	CC
Nageezi Unit 216H - Original Hole - rev0	1,200.00	1,200.22	17.95	9.54	2.135	ES, SF
Nageezi Unit 217H - Original Hole - rev0	1,200.00	1,200.00	59.81	51.38	7.099	CC, ES
Nageezi Unit 217H - Original Hole - rev0	5,519.31	5,485.31	98.74	58.09	2.429	SF
Nageezi Unit 218H - Original Hole - rev0	723.78	724.30	37.84	32.84	7.567	CC, ES
Nageezi Unit 218H - Original Hole - rev0	800.00	799.60	39.25	33.70	7.074	SF

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											Offset Well Error:	0.00 ft	
Measured Depth (ft)	Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	Warning
	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)			
4,500.00	4,411.40	7,423.88	5,322.63	20.16	81.69	-49.15	892.73	1,563.65	1,524.79	1,445.19	79.59	19.157		
4,600.00	4,511.13	7,419.14	5,322.61	20.51	81.59	-47.10	889.49	1,567.12	1,461.77	1,379.20	82.56	17.705		
4,700.00	4,611.10	7,418.14	5,322.61	20.81	81.57	43.20	888.81	1,567.85	1,406.00	1,320.29	85.72	16.403		
4,800.00	4,711.10	7,418.62	5,322.61	21.09	81.58	43.17	889.13	1,567.50	1,356.59	1,267.69	88.90	15.259		
4,900.00	4,811.04	7,421.18	5,322.62	21.35	81.64	92.29	890.88	1,565.63	1,312.98	1,220.97	92.01	14.269		
5,000.00	4,909.43	7,438.80	5,322.71	21.55	82.02	95.41	902.91	1,552.75	1,276.27	1,181.16	95.11	13.419		
5,100.00	5,003.34	7,473.23	5,322.87	21.68	82.77	96.88	926.40	1,527.58	1,247.49	1,149.39	98.10	12.716		
5,200.00	5,089.93	7,523.41	5,323.11	21.76	83.86	96.95	960.64	1,490.90	1,226.73	1,125.81	100.92	12.155		
5,300.00	5,166.57	7,587.82	5,323.42	21.81	85.26	96.00	1,004.60	1,443.81	1,213.22	1,109.64	103.58	11.713		
5,400.00	5,230.91	7,664.51	5,323.79	21.87	86.94	94.45	1,056.93	1,387.75	1,205.50	1,099.34	106.16	11.356		
5,500.00	5,281.02	7,751.15	5,324.21	21.98	88.84	92.78	1,116.04	1,324.42	1,201.82	1,093.05	108.77	11.049		
5,600.00	5,315.36	7,845.09	5,324.66	22.19	90.90	91.40	1,180.15	1,255.75	1,200.49	1,088.96	111.52	10.764		
5,700.00	5,332.90	7,943.50	5,325.13	22.60	93.07	90.63	1,247.30	1,183.81	1,200.18	1,085.71	114.46	10.485		
5,798.32	5,337.60	8,041.70	5,325.60	23.24	95.24	90.43	1,314.31	1,112.03	1,200.14	1,082.63	117.51	10.213	CC	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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											Offset Well Error:	0.00 ft	
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,800.00	5,335.44	8,043.44	5,325.61	23.25	95.28	90.53	1,315.49	1,110.76	1,200.16	1,082.59	117.56	10.209	
5,900.00	5,335.95	8,143.44	5,326.09	24.19	97.49	90.53	1,383.73	1,037.66	1,200.16	1,079.30	120.85	9.931	
6,000.00	5,336.46	8,243.44	5,326.57	25.36	99.71	90.53	1,451.97	964.56	1,200.16	1,075.84	124.32	9.654	
6,100.00	5,336.97	8,343.44	5,327.05	26.71	101.93	90.53	1,520.20	891.46	1,200.16	1,072.23	127.93	9.381	
6,200.00	5,337.49	8,443.44	5,327.53	28.19	104.16	90.53	1,588.44	818.36	1,200.16	1,068.49	131.68	9.115	
6,300.00	5,338.00	8,543.44	5,328.01	29.80	106.39	90.53	1,656.67	745.26	1,200.16	1,064.64	135.53	8.856	
6,400.00	5,338.51	8,643.44	5,328.49	31.49	108.63	90.52	1,724.91	672.16	1,200.16	1,060.69	139.47	8.605	
6,500.00	5,339.02	8,743.44	5,328.97	33.27	110.87	90.52	1,793.15	599.06	1,200.17	1,056.67	143.49	8.364	
6,600.00	5,339.53	8,843.44	5,329.45	35.10	113.11	90.52	1,861.38	525.96	1,200.17	1,052.58	147.58	8.132	
6,700.00	5,340.05	8,943.44	5,329.93	37.00	115.35	90.52	1,929.62	452.86	1,200.17	1,048.44	151.73	7.910	
6,800.00	5,340.56	9,043.44	5,330.42	38.94	117.60	90.52	1,997.86	379.76	1,200.17	1,044.24	155.92	7.697	
6,900.00	5,341.07	9,143.44	5,330.90	40.91	119.85	90.52	2,066.09	306.66	1,200.17	1,040.01	160.16	7.493	
7,000.00	5,341.58	9,243.44	5,331.38	42.93	122.11	90.52	2,134.33	233.56	1,200.17	1,035.73	164.44	7.299	
7,100.00	5,342.10	9,343.44	5,331.86	44.97	124.36	90.51	2,202.57	160.46	1,200.17	1,031.43	168.75	7.112	
7,200.00	5,342.61	9,443.44	5,332.34	47.04	126.62	90.51	2,270.80	87.36	1,200.17	1,027.09	173.08	6.934	
7,300.00	5,343.12	9,543.44	5,332.82	49.13	128.88	90.51	2,339.04	14.26	1,200.17	1,022.73	177.44	6.764	
7,400.00	5,343.63	9,643.44	5,333.30	51.24	131.15	90.51	2,407.27	-58.84	1,200.17	1,018.35	181.82	6.601	
7,500.00	5,344.15	9,743.44	5,333.78	53.37	133.41	90.51	2,475.51	-131.94	1,200.18	1,013.95	186.22	6.445	
7,600.00	5,344.66	9,843.44	5,334.26	55.51	135.68	90.51	2,543.75	-205.04	1,200.18	1,009.54	190.64	6.295	
7,700.00	5,345.17	9,943.44	5,334.74	57.67	137.95	90.50	2,611.98	-278.14	1,200.18	1,005.10	195.07	6.152	
7,800.00	5,345.68	10,043.44	5,335.22	59.84	140.22	90.50	2,680.22	-351.24	1,200.18	1,000.66	199.52	6.015	
7,900.00	5,346.20	10,143.44	5,335.70	62.02	142.49	90.50	2,748.46	-424.34	1,200.18	996.20	203.98	5.884	
8,000.00	5,346.71	10,243.44	5,336.18	64.21	144.77	90.50	2,816.69	-497.44	1,200.18	991.73	208.45	5.758	
8,100.00	5,347.22	10,343.44	5,336.66	66.40	147.04	90.50	2,884.93	-570.54	1,200.18	987.25	212.93	5.636	
8,200.00	5,347.73	10,443.44	5,337.14	68.61	149.32	90.50	2,953.16	-643.64	1,200.18	982.76	217.42	5.520	
8,300.00	5,348.25	10,543.44	5,337.62	70.83	151.60	90.50	3,021.40	-716.74	1,200.18	978.26	221.92	5.408	
8,400.00	5,348.76	10,643.44	5,338.10	73.05	153.88	90.49	3,089.64	-789.84	1,200.18	973.75	226.43	5.300	
8,500.00	5,349.27	10,743.44	5,338.58	75.27	156.16	90.49	3,157.87	-862.94	1,200.19	969.24	230.94	5.197	
8,600.00	5,349.78	10,843.44	5,339.06	77.51	158.44	90.49	3,226.11	-936.04	1,200.19	964.72	235.46	5.097	
8,700.00	5,350.30	10,943.44	5,339.54	79.74	160.72	90.49	3,294.35	-1,009.14	1,200.19	960.20	239.99	5.001	
8,800.00	5,350.81	11,043.44	5,340.02	81.98	163.01	90.49	3,362.58	-1,082.24	1,200.19	955.67	244.52	4.908	
8,900.00	5,351.32	11,143.44	5,340.50	84.23	165.29	90.49	3,430.82	-1,155.34	1,200.19	951.13	249.06	4.819	
9,000.00	5,351.83	11,243.44	5,340.99	86.48	167.58	90.48	3,499.06	-1,228.44	1,200.19	946.59	253.60	4.733	
9,100.00	5,352.34	11,343.44	5,341.47	88.74	169.86	90.48	3,567.29	-1,301.54	1,200.19	942.04	258.15	4.649	
9,200.00	5,352.86	11,443.44	5,341.95	90.99	172.15	90.48	3,635.53	-1,374.63	1,200.19	937.49	262.70	4.569	
9,300.00	5,353.37	11,543.44	5,342.43	93.25	174.44	90.48	3,703.76	-1,447.73	1,200.19	932.94	267.25	4.491	
9,400.00	5,353.88	11,643.44	5,342.91	95.52	176.73	90.48	3,772.00	-1,520.83	1,200.19	928.38	271.81	4.416	
9,500.00	5,354.39	11,743.44	5,343.39	97.78	179.02	90.48	3,840.24	-1,593.93	1,200.20	923.82	276.37	4.343	
9,600.00	5,354.91	11,843.44	5,343.87	100.05	181.31	90.48	3,908.47	-1,667.03	1,200.20	919.26	280.94	4.272	
9,700.00	5,355.42	11,943.44	5,344.35	102.32	183.61	90.47	3,976.71	-1,740.13	1,200.20	914.69	285.51	4.204	
9,800.00	5,355.93	12,043.44	5,344.83	104.60	185.90	90.47	4,044.95	-1,813.23	1,200.20	910.12	290.08	4.138	
9,900.00	5,356.44	12,143.44	5,345.31	106.87	188.19	90.47	4,113.18	-1,886.33	1,200.20	905.55	294.65	4.073	
10,000.00	5,356.96	12,243.44	5,345.79	109.15	190.49	90.47	4,181.42	-1,959.43	1,200.20	900.98	299.23	4.011	
10,100.00	5,357.47	12,343.44	5,346.27	111.43	192.78	90.47	4,249.66	-2,032.53	1,200.20	896.40	303.80	3.951	
10,200.00	5,357.98	12,443.44	5,346.75	113.71	195.08	90.47	4,317.89	-2,105.63	1,200.20	891.82	308.38	3.892	
10,300.00	5,358.49	12,543.44	5,347.23	115.99	197.37	90.46	4,386.13	-2,178.73	1,200.20	887.24	312.97	3.835	
10,400.00	5,359.01	12,643.44	5,347.71	118.27	199.67	90.46	4,454.36	-2,251.83	1,200.21	882.65	317.55	3.780	
10,500.00	5,359.52	12,743.44	5,348.19	120.56	201.97	90.46	4,522.60	-2,324.93	1,200.21	878.07	322.14	3.726	
10,600.00	5,360.03	12,843.44	5,348.67	122.85	204.26	90.46	4,590.84	-2,398.03	1,200.21	873.48	326.72	3.673	
10,700.00	5,360.54	12,943.44	5,349.15	125.13	206.56	90.46	4,659.07	-2,471.13	1,200.21	868.89	331.31	3.623	
10,800.00	5,361.06	13,043.44	5,349.63	127.42	208.86	90.46	4,727.31	-2,544.23	1,200.21	864.30	335.91	3.573	
10,900.00	5,361.57	13,143.44	5,350.11	129.71	211.16	90.46	4,795.55	-2,617.33	1,200.21	859.71	340.50	3.525	

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Reference Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
11,000.00	5,362.08	13,243.44	5,350.59	132.00	213.46	90.45	4,863.78	-2,690.43	1,200.21	855.12	345.09	3.478		
11,100.00	5,362.59	13,343.44	5,351.08	134.30	215.76	90.45	4,932.02	-2,763.53	1,200.21	850.52	349.69	3.432		
11,200.00	5,363.10	13,443.44	5,351.56	136.59	218.06	90.45	5,000.26	-2,836.63	1,200.21	845.93	354.29	3.388		
11,300.00	5,363.62	13,543.44	5,352.04	138.88	220.36	90.45	5,068.49	-2,909.73	1,200.21	841.33	358.88	3.344		
11,400.00	5,364.13	13,643.44	5,352.52	141.18	222.67	90.45	5,136.73	-2,982.83	1,200.22	836.73	363.48	3.302		
11,500.00	5,364.64	13,743.44	5,353.00	143.48	224.97	90.45	5,204.96	-3,055.93	1,200.22	832.13	368.09	3.261		
11,600.00	5,365.15	13,843.44	5,353.48	145.77	227.27	90.45	5,273.20	-3,129.03	1,200.22	827.53	372.69	3.220		
11,700.00	5,365.67	13,943.44	5,353.96	148.07	229.57	90.44	5,341.44	-3,202.13	1,200.22	822.93	377.29	3.181		
11,800.00	5,366.18	14,043.44	5,354.44	150.37	231.88	90.44	5,409.67	-3,275.23	1,200.22	818.33	381.89	3.143		
11,900.00	5,366.69	14,143.44	5,354.92	152.67	234.18	90.44	5,477.91	-3,348.33	1,200.22	813.72	386.50	3.105		
12,000.00	5,367.20	14,243.44	5,355.40	154.97	236.48	90.44	5,546.15	-3,421.43	1,200.22	809.12	391.11	3.069		
12,100.00	5,367.72	14,343.44	5,355.88	157.27	238.79	90.44	5,614.38	-3,494.53	1,200.22	804.51	395.71	3.033		
12,200.00	5,368.23	14,443.44	5,356.36	159.57	241.09	90.44	5,682.62	-3,567.63	1,200.22	799.90	400.32	2.998		
12,300.00	5,368.74	14,543.44	5,356.84	161.87	243.40	90.43	5,750.85	-3,640.73	1,200.23	795.30	404.93	2.964		
12,400.00	5,369.25	14,643.44	5,357.32	164.17	245.70	90.43	5,819.09	-3,713.83	1,200.23	790.69	409.54	2.931		
12,500.00	5,369.77	14,743.44	5,357.80	166.47	248.01	90.43	5,887.33	-3,786.93	1,200.23	786.08	414.15	2.898		
12,504.45	5,369.79	14,747.89	5,357.82	166.58	248.11	90.43	5,890.36	-3,790.18	1,200.23	785.87	414.35	2.897		
12,600.00	5,370.28	14,784.80	5,358.00	168.78	248.96	90.43	5,915.55	-3,817.16	1,201.66	785.59	416.07	2.888	ES, SF	
12,700.00	5,370.79	14,784.80	5,358.00	171.08	248.96	90.43	5,915.55	-3,817.16	1,210.67	797.93	412.74	2.933		
12,800.00	5,371.30	14,784.80	5,358.00	173.39	248.96	90.43	5,915.55	-3,817.16	1,227.78	822.23	405.55	3.027		
12,900.00	5,371.82	14,784.80	5,358.00	175.69	248.96	90.43	5,915.55	-3,817.16	1,252.67	857.49	395.18	3.170		
13,000.00	5,372.33	14,784.80	5,358.00	178.00	248.96	90.43	5,915.55	-3,817.16	1,284.88	902.42	382.46	3.360		
13,100.00	5,372.84	14,784.80	5,358.00	180.30	248.96	90.43	5,915.55	-3,817.16	1,323.87	955.66	368.22	3.595		
13,200.00	5,373.35	14,784.80	5,358.00	182.61	248.96	90.43	5,915.55	-3,817.16	1,369.08	1,015.89	353.19	3.876		
13,300.00	5,373.86	14,784.80	5,358.00	184.91	248.96	90.43	5,915.55	-3,817.16	1,419.90	1,081.96	337.94	4.202		
13,400.00	5,374.38	14,784.80	5,358.00	187.22	248.96	90.43	5,915.55	-3,817.16	1,475.75	1,152.86	322.89	4.570		
13,500.00	5,374.89	14,784.80	5,358.00	189.53	248.96	90.43	5,915.55	-3,817.16	1,536.09	1,227.75	308.34	4.982		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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													Rule Assigned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	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	600.00	600.00	600.00	2.06	2.06	22.00	37.14	15.01	40.06	35.94	4.12	9.717				
700.00	700.00	700.00	700.00	2.42	2.42	22.00	37.14	15.01	40.06	35.22	4.84	8.277				
800.00	800.00	800.00	800.00	2.78	2.78	22.00	37.14	15.01	40.06	34.50	5.56	7.209				
900.00	900.00	900.00	900.00	3.14	3.14	22.00	37.14	15.01	40.06	33.78	6.27	6.385				
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	22.00	37.14	15.01	40.06	33.07	6.99	5.731				
1,100.00	1,100.00	1,100.57	1,100.52	3.85	3.85	18.33	37.32	12.36	39.31	31.61	7.70	5.105				
1,200.00	1,200.00	1,200.58	1,200.21	4.21	4.20	6.79	37.84	4.51	38.11	29.70	8.41	4.532				
1,219.69	1,219.69	1,220.15	1,219.66	4.28	4.27	-85.53	37.98	2.36	38.05	29.50	8.55	4.450	CC, ES			
1,300.00	1,299.95	1,299.05	1,297.83	4.56	4.55	-104.55	38.69	-8.31	40.21	31.11	9.10	4.417				
1,400.00	1,399.63	1,394.37	1,391.57	4.91	4.92	-130.29	39.83	-25.48	54.11	44.39	9.72	5.566				
1,500.00	1,498.77	1,485.22	1,480.01	5.27	5.29	-147.14	41.20	-46.17	82.87	72.60	10.27	8.066				
1,600.00	1,597.08	1,570.53	1,562.08	5.64	5.67	-156.37	42.75	-69.39	123.83	113.04	10.79	11.474				
1,700.00	1,694.34	1,649.60	1,637.14	6.04	6.06	-161.66	44.39	-94.17	174.51	163.22	11.29	15.461				
1,800.00	1,791.22	1,723.83	1,706.62	6.47	6.45	-165.09	46.12	-120.23	230.67	218.94	11.72	19.674				
1,900.00	1,888.11	1,800.00	1,776.81	6.91	6.89	-167.40	48.08	-149.75	290.37	278.13	12.24	23.727				
2,000.00	1,984.99	1,860.52	1,831.70	7.37	7.29	-168.72	49.77	-175.18	352.97	340.45	12.52	28.183				
2,100.00	2,081.87	1,923.28	1,887.73	7.84	7.72	-169.76	51.64	-203.37	418.36	405.47	12.89	32.457				
2,200.00	2,178.75	1,996.04	1,952.06	8.32	8.26	-170.69	53.90	-237.31	485.28	471.83	13.44	36.100				
2,300.00	2,275.64	2,070.14	2,017.55	8.81	8.83	-171.41	56.19	-271.89	552.26	538.23	14.03	39.374				
2,400.00	2,372.52	2,144.23	2,083.04	9.31	9.43	-171.97	58.49	-306.46	619.28	604.66	14.62	42.366				
2,500.00	2,469.40	2,218.32	2,148.54	9.81	10.03	-172.42	60.78	-341.03	686.33	671.11	15.22	45.108				
2,600.00	2,566.29	2,292.42	2,214.03	10.32	10.65	-172.80	63.08	-375.61	753.40	737.58	15.82	47.626				
2,700.00	2,663.17	2,366.51	2,279.52	10.83	11.28	-173.11	65.37	-410.18	820.48	804.05	16.43	49.943				
2,800.00	2,760.05	2,440.61	2,345.02	11.35	11.92	-173.37	67.67	-444.75	887.57	870.53	17.04	52.080				
2,900.00	2,856.93	2,514.70	2,410.51	11.86	12.56	-173.60	69.96	-479.32	954.67	937.01	17.66	54.055				
3,000.00	2,953.82	2,588.79	2,476.00	12.39	13.21	-173.80	72.26	-513.90	1,021.78	1,003.50	18.28	55.884				
3,100.00	3,050.70	2,662.89	2,541.50	12.91	13.87	-173.97	74.56	-548.47	1,088.90	1,069.99	18.91	57.581				
3,200.00	3,147.58	2,736.98	2,606.99	13.44	14.53	-174.13	76.85	-583.04	1,156.02	1,136.48	19.54	59.160				
3,300.00	3,244.47	2,811.08	2,672.48	13.96	15.20	-174.26	79.15	-617.61	1,223.14	1,202.97	20.17	60.632				
3,400.00	3,341.35	2,885.17	2,737.98	14.49	15.87	-174.38	81.44	-652.19	1,290.27	1,269.46	20.81	62.006				
3,500.00	3,438.23	2,959.26	2,803.47	15.03	16.54	-174.49	83.74	-686.76	1,357.40	1,335.96	21.45	63.292				
3,600.00	3,535.11	3,033.36	2,868.96	15.56	17.21	-174.59	86.03	-721.33	1,424.53	1,402.45	22.09	64.497				
3,700.00	3,632.00	3,107.45	2,934.45	16.09	17.89	-174.68	88.33	-755.91	1,491.67	1,468.94	22.73	65.628				
3,800.00	3,728.88	3,181.54	2,999.95	16.63	18.57	-174.77	90.63	-790.48	1,558.81	1,535.43	23.37	66.691				
6,300.00	5,338.00	5,335.67	5,008.74	29.80	32.91	-76.52	173.79	-1,457.07	1,545.60	1,494.44	51.16	30.211				
6,400.00	5,338.51	5,350.00	5,021.40	31.49	33.01	-77.02	178.23	-1,462.12	1,509.55	1,455.71	53.84	28.039				
6,500.00	5,339.02	5,383.14	5,049.98	33.27	33.28	-78.15	189.30	-1,474.69	1,478.50	1,421.66	56.84	26.011				
6,600.00	5,339.53	5,412.73	5,074.66	35.10	33.53	-79.13	200.09	-1,486.95	1,452.72	1,392.77	59.95	24.231				
6,700.00	5,340.05	5,450.00	5,104.48	37.00	33.87	-80.32	214.84	-1,503.73	1,432.17	1,368.96	63.21	22.657				
6,800.00	5,340.56	5,488.17	5,133.45	38.94	34.26	-81.48	231.26	-1,522.38	1,416.72	1,350.18	66.54	21.292				
6,900.00	5,341.07	5,536.35	5,167.54	40.91	34.79	-82.86	253.73	-1,547.93	1,406.07	1,336.12	69.95	20.100				
7,000.00	5,341.58	5,593.23	5,203.94	42.93	35.48	-84.34	282.57	-1,580.72	1,399.72	1,326.29	73.43	19.061				
7,100.00	5,342.10	5,659.93	5,240.87	44.97	36.37	-85.84	319.23	-1,622.39	1,396.96	1,319.96	77.00	18.143				
7,152.95	5,342.37	5,700.00	5,259.86	46.06	36.94	-86.61	342.54	-1,648.87	1,396.65	1,317.72	78.93	17.695				
7,200.00	5,342.61	5,736.93	5,275.14	47.04	37.50	-87.23	364.74	-1,674.11	1,396.89	1,316.22	80.66	17.317				
7,300.00	5,343.12	5,823.42	5,302.23	49.13	38.86	-88.33	418.93	-1,735.71	1,398.56	1,314.11	84.45	16.561				

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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													Rule Assigned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning			
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)						
7,400.00	5,343.63	5,916.70	5,317.27	51.24	40.42	-88.93	479.68	-1,804.75	1,401.11	1,312.77	88.34	15.860				
7,500.00	5,344.15	6,014.70	5,319.38	53.37	42.10	-89.00	544.38	-1,878.30	1,404.03	1,311.71	92.32	15.209				
7,600.00	5,344.66	6,114.66	5,319.86	55.51	43.87	-89.00	610.41	-1,953.34	1,406.97	1,310.60	96.37	14.600				
7,700.00	5,345.17	6,214.62	5,320.34	57.67	45.68	-89.00	676.43	-2,028.38	1,409.91	1,309.43	100.48	14.032				
7,800.00	5,345.68	6,314.57	5,320.81	59.84	47.55	-89.00	742.46	-2,103.43	1,412.85	1,308.21	104.64	13.502				
7,900.00	5,346.20	6,414.53	5,321.29	62.02	49.46	-89.00	808.49	-2,178.47	1,415.79	1,306.95	108.85	13.007				
8,000.00	5,346.71	6,514.49	5,321.77	64.21	51.40	-89.00	874.51	-2,253.52	1,418.74	1,305.65	113.09	12.546				
8,100.00	5,347.22	6,614.45	5,322.24	66.40	53.38	-89.00	940.54	-2,328.56	1,421.68	1,304.32	117.36	12.114				
8,200.00	5,347.73	6,714.40	5,322.72	68.61	55.38	-89.00	1,006.57	-2,403.60	1,424.62	1,302.95	121.67	11.709				
8,300.00	5,348.25	6,814.36	5,323.20	70.83	57.42	-89.00	1,072.59	-2,478.65	1,427.56	1,301.56	126.00	11.330				
8,400.00	5,348.76	6,914.32	5,323.67	73.05	59.47	-89.00	1,138.62	-2,553.69	1,430.51	1,300.15	130.36	10.974				
8,500.00	5,349.27	7,014.27	5,324.15	75.27	61.55	-89.00	1,204.64	-2,628.74	1,433.45	1,298.71	134.73	10.639				
8,600.00	5,349.78	7,114.23	5,324.63	77.51	63.64	-89.00	1,270.67	-2,703.78	1,436.39	1,297.26	139.13	10.324				
8,700.00	5,350.30	7,214.19	5,325.10	79.74	65.75	-89.01	1,336.70	-2,778.82	1,439.33	1,295.79	143.55	10.027				
8,800.00	5,350.81	7,314.14	5,325.58	81.98	67.88	-89.01	1,402.72	-2,853.87	1,442.28	1,294.30	147.98	9.747				
8,900.00	5,351.32	7,414.10	5,326.06	84.23	70.02	-89.01	1,468.75	-2,928.91	1,445.22	1,292.80	152.42	9.482				
9,000.00	5,351.83	7,514.06	5,326.53	86.48	72.18	-89.01	1,534.78	-3,003.96	1,448.16	1,291.28	156.88	9.231				
9,100.00	5,352.34	7,614.01	5,327.01	88.74	74.34	-89.01	1,600.80	-3,079.00	1,451.10	1,289.75	161.35	8.993				
9,200.00	5,352.86	7,713.97	5,327.49	90.99	76.52	-89.01	1,666.83	-3,154.04	1,454.05	1,288.21	165.83	8.768				
9,300.00	5,353.37	7,813.93	5,327.97	93.25	78.70	-89.01	1,732.86	-3,229.09	1,456.99	1,286.66	170.32	8.554				
9,400.00	5,353.88	7,913.88	5,328.44	95.52	80.90	-89.01	1,798.88	-3,304.13	1,459.93	1,285.11	174.82	8.351				
9,500.00	5,354.39	8,013.84	5,328.92	97.78	83.10	-89.01	1,864.91	-3,379.18	1,462.87	1,283.54	179.33	8.157				
9,600.00	5,354.91	8,113.80	5,329.40	100.05	85.31	-89.01	1,930.94	-3,454.22	1,465.81	1,281.97	183.85	7.973				
9,700.00	5,355.42	8,213.75	5,329.87	102.32	87.53	-89.01	1,996.96	-3,529.27	1,468.76	1,280.38	188.37	7.797				
9,800.00	5,355.93	8,313.71	5,330.35	104.60	89.76	-89.01	2,062.99	-3,604.31	1,471.70	1,278.80	192.90	7.629				
9,900.00	5,356.44	8,413.67	5,330.83	106.87	91.99	-89.01	2,129.02	-3,679.35	1,474.64	1,277.20	197.44	7.469				
10,000.00	5,356.96	8,513.62	5,331.30	109.15	94.22	-89.01	2,195.04	-3,754.40	1,477.58	1,275.60	201.98	7.315				
10,100.00	5,357.47	8,613.58	5,331.78	111.43	96.46	-89.01	2,261.07	-3,829.44	1,480.53	1,274.00	206.53	7.169				
10,200.00	5,357.98	8,713.54	5,332.26	113.71	98.71	-89.01	2,327.10	-3,904.49	1,483.47	1,272.38	211.08	7.028				
10,300.00	5,358.49	8,813.49	5,332.73	115.99	100.96	-89.02	2,393.12	-3,979.53	1,486.41	1,270.77	215.64	6.893				
10,400.00	5,359.01	8,913.45	5,333.21	118.27	103.21	-89.02	2,459.15	-4,054.57	1,489.35	1,269.15	220.20	6.763				
10,500.00	5,359.52	9,013.41	5,333.69	120.56	105.47	-89.02	2,525.17	-4,129.62	1,492.30	1,267.52	224.77	6.639				
10,600.00	5,360.03	9,113.36	5,334.16	122.85	107.73	-89.02	2,591.20	-4,204.66	1,495.24	1,265.90	229.34	6.520				
10,700.00	5,360.54	9,213.32	5,334.64	125.13	110.00	-89.02	2,657.23	-4,279.71	1,498.18	1,264.26	233.92	6.405				
10,800.00	5,361.06	9,313.28	5,335.12	127.42	112.27	-89.02	2,723.25	-4,354.75	1,501.12	1,262.63	238.49	6.294				
10,900.00	5,361.57	9,413.23	5,335.60	129.71	114.54	-89.02	2,789.28	-4,429.79	1,504.07	1,260.99	243.08	6.188				
11,000.00	5,362.08	9,513.19	5,336.07	132.00	116.81	-89.02	2,855.31	-4,504.84	1,507.01	1,259.35	247.66	6.085				
11,100.00	5,362.59	9,613.15	5,336.55	134.30	119.09	-89.02	2,921.33	-4,579.88	1,509.95	1,257.70	252.25	5.986				
11,200.00	5,363.10	9,713.10	5,337.03	136.59	121.37	-89.02	2,987.36	-4,654.93	1,512.89	1,256.05	256.84	5.890				
11,300.00	5,363.62	9,813.06	5,337.50	138.88	123.65	-89.02	3,053.39	-4,729.97	1,515.83	1,254.40	261.43	5.798				
11,400.00	5,364.13	9,913.02	5,337.98	141.18	125.94	-89.02	3,119.41	-4,805.02	1,518.78	1,252.75	266.03	5.709				
11,500.00	5,364.64	10,012.97	5,338.46	143.48	128.22	-89.02	3,185.44	-4,880.06	1,521.72	1,251.10	270.62	5.623				
11,600.00	5,365.15	10,112.93	5,338.93	145.77	130.51	-89.02	3,251.47	-4,955.10	1,524.66	1,249.44	275.22	5.540				
11,700.00	5,365.67	10,212.89	5,339.41	148.07	132.80	-89.02	3,317.49	-5,030.15	1,527.60	1,247.78	279.82	5.459				
11,800.00	5,366.18	10,312.84	5,339.89	150.37	135.09	-89.02	3,383.52	-5,105.19	1,530.55	1,246.12	284.43	5.381				
11,900.00	5,366.69	10,412.80	5,340.36	152.67	137.39	-89.02	3,449.55	-5,180.24	1,533.49	1,244.46	289.03	5.306				
12,000.00	5,367.20	10,512.76	5,340.84	154.97	139.68	-89.03	3,515.57	-5,255.28	1,536.43	1,242.79	293.64	5.232				
12,100.00	5,367.72	10,612.71	5,341.32	157.27	141.98	-89.03	3,581.60	-5,330.32	1,539.37	1,241.12	298.25	5.161				
12,200.00	5,368.23	10,712.67	5,341.80	159.57	144.28	-89.03	3,647.63	-5,405.37	1,542.32	1,239.46	302.86	5.093				
12,300.00	5,368.74	10,812.63	5,342.27	161.87	146.58	-89.03	3,713.65	-5,480.41	1,545.26	1,237.79	307.47	5.026				
12,400.00	5,369.25	10,912.58	5,342.75	164.17	148.88	-89.03	3,779.68	-5,555.46	1,548.20	1,236.12	312.09	4.961				
12,500.00	5,369.77	11,012.54	5,343.23	166.47	151.18	-89.03	3,845.70	-5,630.50	1,551.14	1,234.44	316.70	4.898				

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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
Measured Depth (ft)	Vertical Reference Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
12,600.00	5,370.28	11,112.50	5,343.70	168.78	153.48	-89.03	3,911.73	-5,705.54	1,554.09	1,232.77	321.32	4.837		
12,700.00	5,370.79	11,212.45	5,344.18	171.08	155.79	-89.03	3,977.76	-5,780.59	1,557.03	1,231.09	325.93	4.777		
12,800.00	5,371.30	11,312.41	5,344.66	173.39	158.09	-89.03	4,043.78	-5,855.63	1,559.97	1,229.42	330.55	4.719		
12,900.00	5,371.82	11,412.37	5,345.13	175.69	160.40	-89.03	4,109.81	-5,930.68	1,562.91	1,227.74	335.17	4.663		
13,000.00	5,372.33	11,512.32	5,345.61	178.00	162.71	-89.03	4,175.84	-6,005.72	1,565.85	1,226.06	339.79	4.608		
13,100.00	5,372.84	11,612.28	5,346.09	180.30	165.02	-89.03	4,241.86	-6,080.77	1,568.80	1,224.38	344.42	4.555		
13,200.00	5,373.35	11,712.24	5,346.56	182.61	167.33	-89.03	4,307.89	-6,155.81	1,571.74	1,222.70	349.04	4.503		
13,300.00	5,373.86	11,812.19	5,347.04	184.91	169.64	-89.03	4,373.92	-6,230.85	1,574.68	1,221.02	353.66	4.452		
13,400.00	5,374.38	11,912.15	5,347.52	187.22	171.95	-89.03	4,439.94	-6,305.90	1,577.62	1,219.33	358.29	4.403		
13,500.00	5,374.89	12,012.11	5,347.99	189.53	174.26	-89.03	4,505.97	-6,380.94	1,580.57	1,217.65	362.92	4.355 SF		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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
Measured Depth (ft)	Vertical Reference Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	-157.61	-18.57	-7.65	20.08					
100.00	100.00	100.00	100.00	0.27	0.27	-157.61	-18.57	-7.65	20.08	19.55	0.54	37.352		
200.00	200.00	200.00	200.00	0.63	0.63	-157.61	-18.57	-7.65	20.08	18.83	1.25	16.008		
300.00	300.00	300.00	300.00	0.99	0.99	-157.61	-18.57	-7.65	20.08	18.11	1.97	10.187		
400.00	400.00	400.00	400.00	1.34	1.34	-157.61	-18.57	-7.65	20.08	17.40	2.69	7.470		
500.00	500.00	500.00	500.00	1.70	1.70	-157.61	-18.57	-7.65	20.08	16.68	3.41	5.898		
600.00	600.00	600.00	600.00	2.06	2.06	-157.61	-18.57	-7.65	20.08	15.96	4.12	4.872		
700.00	700.00	700.00	700.00	2.42	2.42	-157.61	-18.57	-7.65	20.08	15.25	4.84	4.150		
800.00	800.00	800.00	800.00	2.78	2.78	-157.61	-18.57	-7.65	20.08	14.53	5.56	3.615		
900.00	900.00	900.00	900.00	3.14	3.14	-157.61	-18.57	-7.65	20.08	13.81	6.27	3.202		
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-157.61	-18.57	-7.65	20.08	13.09	6.99	2.873 CC, ES		
1,100.00	1,100.00	1,099.31	1,099.26	3.85	3.84	-152.04	-19.15	-10.16	21.69	14.00	7.69	2.821 SF		
1,200.00	1,200.00	1,198.08	1,197.72	4.21	4.18	-139.79	-20.88	-17.65	27.43	19.07	8.37	3.279		
1,300.00	1,299.95	1,295.36	1,294.19	4.56	4.53	144.61	-23.70	-29.86	40.64	31.64	9.00	4.514		
1,400.00	1,399.63	1,389.61	1,386.92	4.91	4.88	154.41	-27.48	-46.24	64.36	54.75	9.61	6.698		
1,500.00	1,498.77	1,479.54	1,474.52	5.27	5.25	160.12	-32.04	-66.00	98.26	88.08	10.18	9.648		
1,600.00	1,597.08	1,564.12	1,555.95	5.64	5.62	163.41	-37.17	-88.24	141.50	130.79	10.72	13.202		
1,700.00	1,694.34	1,642.64	1,630.58	6.04	6.00	165.46	-42.66	-112.01	193.14	181.91	11.22	17.206		
1,800.00	1,791.22	1,716.46	1,699.77	6.47	6.38	166.95	-48.44	-137.06	249.60	237.93	11.67	21.387		
1,900.00	1,888.11	1,786.42	1,764.38	6.91	6.79	167.87	-54.48	-163.20	309.22	297.13	12.09	25.776		
2,000.00	1,984.99	1,852.64	1,824.59	7.37	7.21	168.49	-60.67	-190.04	371.70	359.21	12.49	29.567		
2,100.00	2,081.87	1,917.49	1,882.62	7.84	7.64	168.92	-67.18	-218.25	436.77	423.87	12.89	33.872		
2,200.00	2,178.75	1,992.62	1,949.46	8.32	8.18	169.29	-74.90	-251.67	502.72	489.24	13.48	37.290		
2,300.00	2,275.64	2,067.75	2,016.31	8.81	8.75	169.58	-82.61	-285.10	568.69	554.61	14.08	40.398		
2,400.00	2,372.52	2,142.88	2,083.15	9.31	9.33	169.81	-90.33	-318.52	634.66	619.98	14.68	43.231		
2,500.00	2,469.40	2,218.01	2,149.99	9.81	9.92	170.00	-98.04	-351.94	700.64	685.35	15.29	45.823		
2,600.00	2,566.29	2,293.14	2,216.83	10.32	10.53	170.15	-105.76	-385.36	766.62	750.71	15.91	48.198		
2,700.00	2,663.17	2,368.27	2,283.68	10.83	11.15	170.28	-113.47	-418.79	832.60	816.07	16.53	50.377		
2,800.00	2,760.05	2,443.40	2,350.52	11.35	11.77	170.39	-121.19	-452.21	898.58	881.43	17.15	52.385		
2,900.00	2,856.93	2,518.53	2,417.36	11.86	12.40	170.48	-128.90	-485.63	964.57	946.78	17.78	54.238		
3,000.00	2,953.82	2,593.66	2,484.20	12.39	13.04	170.57	-136.62	-519.05	1,030.56	1,012.14	18.42	55.951		
3,100.00	3,050.70	2,668.79	2,551.05	12.91	13.68	170.64	-144.33	-552.48	1,096.54	1,077.49	19.06	57.539		
3,200.00	3,147.58	2,743.92	2,617.89	13.44	14.33	170.70	-152.05	-585.90	1,162.53	1,142.84	19.70	59.016		
3,300.00	3,244.47	2,819.05	2,684.73	13.96	14.98	170.76	-159.76	-619.32	1,228.52	1,208.18	20.34	60.391		
3,400.00	3,341.35	2,894.18	2,751.57	14.49	15.63	170.81	-167.48	-652.74	1,294.51	1,273.52	20.99	61.674		
3,500.00	3,438.23	2,969.31	2,818.42	15.03	16.29	170.86	-175.19	-686.17	1,360.51	1,338.87	21.64	62.871		
3,600.00	3,535.11	3,044.44	2,885.26	15.56	16.95	170.90	-182.91	-719.59	1,426.50	1,404.21	22.29	63.993		
3,700.00	3,632.00	3,119.57	2,952.10	16.09	17.61	170.94	-190.62	-753.01	1,492.49	1,469.54	22.95	65.044		
3,800.00	3,728.88	3,194.70	3,018.94	16.63	18.27	170.98	-198.34	-786.43	1,558.48	1,534.88	23.60	66.032		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	22.39	18.57	7.65	20.08					
100.00	100.00	100.00	100.00	0.27	0.27	22.39	18.57	7.65	20.08	19.55	0.54	37.352		
200.00	200.00	200.00	200.00	0.63	0.63	22.39	18.57	7.65	20.08	18.83	1.25	16.008		
300.00	300.00	300.00	300.00	0.99	0.99	22.39	18.57	7.65	20.08	18.11	1.97	10.187		
400.00	400.00	400.00	400.00	1.34	1.34	22.39	18.57	7.65	20.08	17.40	2.69	7.470		
500.00	500.00	500.00	500.00	1.70	1.70	22.39	18.57	7.65	20.08	16.68	3.41	5.898		
600.00	600.00	600.00	600.00	2.06	2.06	22.39	18.57	7.65	20.08	15.96	4.12	4.872		
700.00	700.00	700.00	700.00	2.42	2.42	22.39	18.57	7.65	20.08	15.25	4.84	4.150		
800.00	800.00	800.00	800.00	2.78	2.78	22.39	18.57	7.65	20.08	14.53	5.56	3.615		
900.00	900.00	900.00	900.00	3.14	3.14	22.39	18.57	7.65	20.08	13.81	6.27	3.202		
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	22.39	18.57	7.65	20.08	13.09	6.99	2.873		
1,100.00	1,100.00	1,100.39	1,100.34	3.85	3.85	15.30	18.36	5.02	19.04	11.34	7.70	2.473		
1,186.44	1,186.44	1,186.73	1,186.44	4.16	4.15	-4.62	17.84	-1.44	17.89	9.58	8.31	2.154	CC	
1,200.00	1,200.00	1,200.22	1,199.86	4.21	4.19	-8.98	17.73	-2.80	17.95	9.54	8.40	2.135	ES, SF	
1,300.00	1,299.95	1,298.53	1,297.31	4.56	4.55	-136.18	16.69	-15.56	24.79	15.73	9.05	2.738		
1,400.00	1,399.63	1,393.69	1,390.90	4.91	4.91	-159.10	15.31	-32.65	46.51	36.87	9.64	4.823		
1,500.00	1,498.77	1,484.39	1,479.21	5.27	5.28	-168.59	13.65	-53.25	80.30	70.09	10.21	7.861		
1,600.00	1,597.08	1,569.57	1,561.17	5.64	5.66	-173.02	11.78	-76.38	123.94	113.19	10.75	11.531		
1,700.00	1,694.34	1,648.53	1,636.14	6.04	6.04	-175.44	9.78	-101.05	176.11	164.86	11.25	15.650		
1,800.00	1,791.22	1,722.66	1,705.54	6.47	6.43	-176.95	7.68	-127.01	233.12	221.43	11.70	19.933		
1,900.00	1,888.11	1,792.84	1,770.26	6.91	6.84	-177.92	5.49	-154.04	293.26	281.15	12.11	24.216		
2,000.00	1,984.99	1,859.19	1,830.50	7.37	7.26	-178.60	3.25	-181.76	356.25	343.75	12.50	28.497		
2,100.00	2,081.87	1,934.53	1,898.26	7.84	7.78	-179.18	0.60	-214.59	420.79	407.72	13.07	32.200		
2,200.00	2,178.75	2,010.84	1,966.89	8.32	8.32	-179.61	-2.09	-247.86	485.36	471.70	13.66	35.531		
2,300.00	2,275.64	2,087.16	2,035.52	8.81	8.88	-179.94	-4.78	-281.12	549.95	535.69	14.26	38.566		
2,400.00	2,372.52	2,163.47	2,104.14	9.31	9.46	179.80	-7.47	-314.39	614.54	599.67	14.87	41.335		
2,500.00	2,469.40	2,239.78	2,172.77	9.81	10.05	179.59	-10.16	-347.65	679.14	663.66	15.48	43.872		
2,600.00	2,566.29	2,316.10	2,241.40	10.32	10.64	179.42	-12.85	-380.92	743.74	727.64	16.10	46.201		
2,700.00	2,663.17	2,392.41	2,310.03	10.83	11.25	179.27	-15.54	-414.18	808.35	791.63	16.72	48.344		
2,800.00	2,760.05	2,468.73	2,378.66	11.35	11.87	179.15	-18.23	-447.45	872.96	855.61	17.35	50.318		
2,900.00	2,856.93	2,545.04	2,447.29	11.86	12.49	179.04	-20.92	-480.72	937.57	919.59	17.98	52.143		
3,000.00	2,953.82	2,621.35	2,515.92	12.39	13.12	178.95	-23.61	-513.98	1,002.18	983.56	18.62	53.835		
3,100.00	3,050.70	2,697.67	2,584.55	12.91	13.75	178.87	-26.30	-547.25	1,066.79	1,047.54	19.25	55.405		
3,200.00	3,147.58	2,773.98	2,653.18	13.44	14.38	178.79	-28.99	-580.51	1,131.41	1,111.51	19.90	56.865		
3,300.00	3,244.47	2,850.30	2,721.81	13.96	15.02	178.73	-31.68	-613.78	1,196.02	1,175.48	20.54	58.228		
3,400.00	3,341.35	2,926.61	2,790.44	14.49	15.66	178.67	-34.37	-647.04	1,260.64	1,239.45	21.19	59.501		
3,500.00	3,438.23	3,002.92	2,859.07	15.03	16.31	178.62	-37.06	-680.31	1,325.26	1,303.42	21.84	60.692		
3,600.00	3,535.11	3,079.24	2,927.70	15.56	16.96	178.57	-39.75	-713.57	1,389.87	1,367.39	22.49	61.808		
3,700.00	3,632.00	3,155.55	2,996.32	16.09	17.61	178.53	-42.45	-746.84	1,454.49	1,431.35	23.14	62.856		
3,800.00	3,728.88	3,231.86	3,064.95	16.63	18.26	178.49	-45.14	-780.11	1,519.11	1,495.32	23.80	63.841		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference	Offset		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.00	0.00	0.00	0.00	0.00	0.00	-157.74	-55.35	-22.66	59.81					
100.00	100.00	100.00	100.00	0.27	0.27	-157.74	-55.35	-22.66	59.81	59.27	0.54	111.222		
200.00	200.00	200.00	200.00	0.63	0.63	-157.74	-55.35	-22.66	59.81	58.55	1.25	47.667		
300.00	300.00	300.00	300.00	0.99	0.99	-157.74	-55.35	-22.66	59.81	57.83	1.97	30.333		
400.00	400.00	400.00	400.00	1.34	1.34	-157.74	-55.35	-22.66	59.81	57.12	2.69	22.244		
500.00	500.00	500.00	500.00	1.70	1.70	-157.74	-55.35	-22.66	59.81	56.40	3.41	17.561		
600.00	600.00	600.00	600.00	2.06	2.06	-157.74	-55.35	-22.66	59.81	55.68	4.12	14.507		
700.00	700.00	700.00	700.00	2.42	2.42	-157.74	-55.35	-22.66	59.81	54.97	4.84	12.358		
800.00	800.00	800.00	800.00	2.78	2.78	-157.74	-55.35	-22.66	59.81	54.25	5.56	10.763		
900.00	900.00	900.00	900.00	3.14	3.14	-157.74	-55.35	-22.66	59.81	53.53	6.27	9.533		
1,000.00	1,000.00	1,000.00	1,000.00	3.50	3.50	-157.74	-55.35	-22.66	59.81	52.81	6.99	8.556		
1,100.00	1,100.00	1,100.00	1,100.00	3.85	3.85	-157.74	-55.35	-22.66	59.81	52.10	7.71	7.760		
1,200.00	1,200.00	1,200.00	1,200.00	4.21	4.21	-157.74	-55.35	-22.66	59.81	51.38	8.42	7.099	CC, ES	
1,300.00	1,299.95	1,299.95	1,299.95	4.56	4.57	115.56	-55.35	-22.66	60.89	51.76	9.13	6.667		
1,400.00	1,399.63	1,399.63	1,399.63	4.91	4.93	121.73	-55.35	-22.66	64.67	54.83	9.84	6.574		
1,500.00	1,498.77	1,498.77	1,498.77	5.27	5.28	130.33	-55.35	-22.66	72.41	61.86	10.55	6.866		
1,600.00	1,597.08	1,600.99	1,600.94	5.64	5.65	140.58	-52.86	-21.69	83.15	71.89	11.26	7.385		
1,700.00	1,694.34	1,702.56	1,702.18	6.04	6.01	151.80	-45.34	-18.78	96.12	84.16	11.96	8.039		
1,800.00	1,791.22	1,803.67	1,802.39	6.47	6.38	162.56	-32.88	-13.96	109.85	97.20	12.65	8.686		
1,900.00	1,888.11	1,902.95	1,900.03	6.91	6.74	172.49	-16.15	-7.47	123.89	110.53	13.36	9.274		
2,000.00	1,984.99	1,999.83	1,995.12	7.37	7.11	-179.51	1.16	-0.77	140.40	126.30	14.10	9.959		
2,100.00	2,081.87	2,096.72	2,090.21	7.84	7.49	-173.24	18.47	5.93	159.06	144.21	14.85	10.711		
2,200.00	2,178.75	2,193.60	2,185.30	8.32	7.88	-168.31	35.78	12.63	179.20	163.59	15.62	11.475		
2,300.00	2,275.64	2,290.49	2,280.39	8.81	8.27	-164.37	53.08	19.33	200.39	183.99	16.40	12.219		
2,400.00	2,372.52	2,387.37	2,375.48	9.31	8.67	-161.19	70.39	26.04	222.32	205.12	17.20	12.929		
2,500.00	2,469.40	2,484.26	2,470.57	9.81	9.08	-158.58	87.70	32.74	244.78	226.78	18.00	13.597		
2,600.00	2,566.29	2,581.14	2,565.66	10.32	9.49	-156.41	105.00	39.44	267.66	248.84	18.82	14.221		
2,700.00	2,663.17	2,678.03	2,660.75	10.83	9.90	-154.57	122.31	46.14	290.84	271.20	19.65	14.803		
2,800.00	2,760.05	2,774.91	2,755.84	11.35	10.32	-153.01	139.62	52.85	314.27	293.79	20.48	15.343		
2,900.00	2,856.93	2,871.79	2,850.93	11.86	10.74	-151.67	156.93	59.55	337.89	316.56	21.32	15.846		
3,000.00	2,953.82	2,968.68	2,946.02	12.39	11.16	-150.50	174.23	66.25	361.66	339.49	22.17	16.312		
3,100.00	3,050.70	3,065.56	3,041.11	12.91	11.58	-149.47	191.54	72.95	385.55	362.53	23.02	16.746		
3,200.00	3,147.58	3,162.45	3,136.20	13.44	12.01	-148.57	208.85	79.65	409.55	385.67	23.88	17.151		
3,300.00	3,244.47	3,259.33	3,231.29	13.96	12.44	-147.76	226.15	86.36	433.64	408.90	24.74	17.528		
3,400.00	3,341.35	3,356.22	3,326.38	14.49	12.87	-147.04	243.46	93.06	457.80	432.19	25.60	17.879		
3,500.00	3,438.23	3,453.10	3,421.47	15.03	13.30	-146.39	260.77	99.76	482.02	455.55	26.47	18.208		
3,600.00	3,535.11	3,549.99	3,516.56	15.56	13.73	-145.80	278.08	106.46	506.29	478.95	27.34	18.517		
3,700.00	3,632.00	3,646.87	3,611.65	16.09	14.17	-145.27	295.38	113.17	530.61	502.39	28.22	18.806		
3,800.00	3,728.88	3,743.76	3,706.74	16.63	14.61	-144.78	312.69	119.87	554.97	525.88	29.09	19.077		
3,900.00	3,825.76	3,840.64	3,801.83	17.16	15.04	-144.33	330.00	126.57	579.36	549.39	29.97	19.332		
4,000.00	3,922.65	3,937.53	3,896.93	17.70	15.48	-143.92	347.30	133.27	603.79	572.94	30.85	19.573		
4,100.00	4,019.53	4,034.41	3,992.02	18.24	15.92	-143.55	364.61	139.97	628.24	596.51	31.73	19.800		
4,200.00	4,116.41	4,131.29	4,087.11	18.78	16.36	-143.20	381.92	146.68	652.71	620.10	32.61	20.014		
4,300.00	4,213.28	4,228.16	4,187.16	19.29	16.81	-143.17	399.41	153.45	675.42	641.90	33.52	20.148		
4,400.00	4,312.20	4,340.89	4,293.94	19.76	17.26	-143.25	413.07	158.74	692.91	658.49	34.41	20.134		
4,500.00	4,411.40	4,449.92	4,402.61	20.16	17.67	-143.44	421.15	161.87	704.88	669.66	35.23	20.010		
4,600.00	4,511.13	4,558.48	4,511.13	20.51	18.03	-143.74	423.46	162.76	711.29	675.33	35.95	19.783		
4,700.00	4,611.10	4,658.45	4,611.10	20.81	18.35	-54.94	423.46	162.76	712.96	676.37	36.59	19.487		
4,800.00	4,711.10	5,843.66	5,329.31	21.09	23.68	-140.23	-62.00	683.17	626.05	607.36	18.69	33.494		
4,900.00	4,811.04	5,840.67	5,329.34	21.35	23.64	-116.35	-59.96	680.98	527.62	508.26	19.36	27.260		
5,000.00	4,909.43	5,822.64	5,329.50	21.55	23.41	-138.54	-47.66	667.80	431.51	411.31	20.20	21.365		
5,100.00	5,003.34	5,787.82	5,329.81	21.68	22.98	-144.85	-23.91	642.34	341.06	319.66	21.40	15.938		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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
Measured Depth (ft)	Vertical Reference Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.00	5,089.93	5,737.27	5,330.27	21.76	22.39	-144.69	10.57	605.38	259.80	236.48	23.32	11.140		
5,300.00	5,166.57	5,657.58	5,328.58	21.81	21.56	-136.74	64.89	547.15	190.17	163.53	26.64	7.138		
5,400.00	5,230.91	5,573.81	5,315.60	21.87	20.82	-120.42	121.30	486.68	131.54	98.17	33.37	3.942		
5,500.00	5,281.02	5,499.02	5,293.94	21.98	20.33	-95.58	170.08	434.39	99.69	58.87	40.81	2.442		
5,519.31	5,288.92	5,485.31	5,288.96	22.01	20.26	-90.02	178.80	425.04	98.74	58.09	40.65	2.429 SF		
5,600.00	5,315.36	5,429.87	5,265.77	22.19	20.06	-67.39	213.13	388.24	113.49	78.90	34.59	3.281		
5,700.00	5,332.90	5,364.45	5,232.32	22.60	19.93	-46.38	251.45	347.16	156.51	126.28	30.23	5.177		
5,800.00	5,335.44	5,300.00	5,193.31	23.25	19.84	-34.92	286.42	309.67	208.74	178.72	30.02	6.954		
5,900.00	5,335.95	5,250.00	5,159.22	24.19	19.77	-29.34	311.36	282.94	270.98	239.36	31.63	8.569		
6,000.00	5,336.46	5,200.00	5,122.08	25.36	19.70	-24.88	334.18	258.48	341.41	308.71	32.70	10.441		
6,100.00	5,336.97	5,167.95	5,096.80	26.71	19.65	-22.51	347.60	244.08	417.56	383.27	34.29	12.177		
6,200.00	5,337.49	5,136.19	5,070.69	28.19	19.60	-20.47	359.94	230.86	498.12	462.81	35.31	14.107		
6,300.00	5,338.00	5,100.00	5,039.78	29.80	19.53	-18.48	372.77	217.11	582.13	546.26	35.87	16.231		
6,400.00	5,338.51	5,085.78	5,027.32	31.49	19.51	-17.78	377.44	212.10	668.40	631.61	36.78	18.171		
6,500.00	5,339.02	5,065.59	5,009.34	33.27	19.47	-16.85	383.71	205.38	756.82	719.51	37.31	20.284		
6,600.00	5,339.53	5,050.00	4,995.24	35.10	19.44	-16.19	388.25	200.51	846.85	809.08	37.77	22.422		
6,700.00	5,340.05	5,032.48	4,979.20	37.00	19.40	-15.50	393.04	195.37	938.18	900.09	38.09	24.632		
6,800.00	5,340.56	5,018.79	4,966.51	38.94	19.37	-14.99	396.55	191.61	1,030.58	992.20	38.38	26.853		
6,900.00	5,341.07	5,000.00	4,948.90	40.91	19.33	-14.34	401.03	186.81	1,123.92	1,085.36	38.56	29.148		
7,000.00	5,341.58	5,000.00	4,948.90	42.93	19.33	-14.34	401.03	186.81	1,217.92	1,179.06	38.86	31.341		
7,100.00	5,342.10	5,000.00	4,948.90	44.97	19.33	-14.34	401.03	186.81	1,312.80	1,273.70	39.10	33.575		
7,200.00	5,342.61	4,977.04	4,927.11	47.04	19.28	-13.60	405.96	181.52	1,407.75	1,368.60	39.15	35.955		
7,300.00	5,343.12	4,969.00	4,919.41	49.13	19.26	-13.36	407.55	179.82	1,503.41	1,464.12	39.29	38.268		

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 218H - Original Hole - rev0													Offset Site Error:	0.00 ft		
Survey Program: 0-MWD													Rule Assigned:		Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	-158.00	-37.14	-15.01	40.06							
100.00	100.00	100.00	100.00	0.27	0.27	-158.00	-37.14	-15.01	40.06	39.52	0.54	74.497				
200.00	200.00	200.00	200.00	0.63	0.63	-158.00	-37.14	-15.01	40.06	38.80	1.25	31.927				
300.00	300.00	300.00	300.00	0.99	0.99	-158.00	-37.14	-15.01	40.06	38.09	1.97	20.317				
400.00	400.00	400.00	400.00	1.34	1.34	-158.00	-37.14	-15.01	40.06	37.37	2.69	14.899				
500.00	500.00	500.00	500.00	1.70	1.70	-158.00	-37.14	-15.01	40.06	36.65	3.41	11.763				
600.00	600.00	600.60	600.55	2.06	2.06	-161.65	-37.27	-12.36	39.27	35.15	4.12	9.539				
700.00	700.00	700.65	700.28	2.42	2.41	-173.20	-37.66	-4.49	37.93	33.10	4.83	7.857				
723.78	723.78	724.30	723.78	2.50	2.50	-177.17	-37.79	-1.87	37.84	32.84	5.00	7.567 CC, ES				
800.00	800.00	799.60	798.37	2.78	2.77	167.60	-38.30	8.42	39.25	33.70	5.55	7.074 SF				
900.00	900.00	896.96	894.11	3.14	3.16	146.37	-39.17	26.05	47.41	41.16	6.25	7.588				
1,000.00	1,000.00	992.27	986.84	3.50	3.58	129.98	-40.25	48.01	64.02	57.12	6.90	9.276				
1,100.00	1,100.00	1,085.14	1,076.03	3.85	4.04	119.36	-41.53	73.82	88.03	80.51	7.52	11.706				
1,200.00	1,200.00	1,175.24	1,161.26	4.21	4.54	112.65	-42.97	102.98	118.12	110.01	8.11	14.563				
1,300.00	1,299.95	1,263.21	1,243.06	4.56	5.08	19.28	-44.56	135.29	151.09	142.42	8.67	17.428				
1,400.00	1,399.63	1,349.94	1,322.17	4.91	5.69	16.54	-46.31	170.79	184.04	174.83	9.21	19.989				
1,500.00	1,498.77	1,435.51	1,398.55	5.27	6.35	14.73	-48.21	209.30	216.63	206.89	9.74	22.247				
1,600.00	1,597.08	1,520.00	1,472.20	5.64	7.07	13.47	-50.26	250.63	248.68	238.42	10.26	24.232				
1,700.00	1,694.34	1,610.44	1,549.35	6.04	7.91	12.58	-52.58	297.76	279.50	268.59	10.91	25.612				
1,800.00	1,791.22	1,705.88	1,630.59	6.47	8.84	12.03	-55.05	347.79	309.23	297.53	11.69	26.446				
1,900.00	1,888.11	1,801.32	1,711.84	6.91	9.79	11.57	-57.52	397.81	338.98	326.49	12.49	27.147				
2,000.00	1,984.99	1,896.76	1,793.08	7.37	10.75	11.19	-59.99	447.83	368.74	355.45	13.29	27.744				
2,100.00	2,081.87	1,992.20	1,874.32	7.84	11.73	10.87	-62.46	497.86	398.52	384.41	14.10	28.255				
2,200.00	2,178.75	2,087.64	1,955.57	8.32	12.72	10.59	-64.93	547.88	428.31	413.38	14.93	28.697				
2,300.00	2,275.64	2,183.09	2,036.81	8.81	13.71	10.35	-67.40	597.91	458.10	442.35	15.75	29.082				
2,400.00	2,372.52	2,278.53	2,118.05	9.31	14.71	10.13	-69.87	647.93	487.91	471.32	16.58	29.419				
2,500.00	2,469.40	2,373.97	2,199.30	9.81	15.71	9.94	-72.34	697.95	517.71	500.29	17.42	29.717				
2,600.00	2,566.29	2,469.41	2,280.54	10.32	16.72	9.78	-74.81	747.98	547.53	529.26	18.26	29.980				
2,700.00	2,663.17	2,564.85	2,361.78	10.83	17.73	9.63	-77.28	798.00	577.34	558.24	19.11	30.217				
2,800.00	2,760.05	2,660.29	2,443.03	11.35	18.75	9.49	-79.75	848.03	607.16	587.21	19.95	30.428				
2,900.00	2,856.93	2,755.73	2,524.27	11.86	19.76	9.37	-82.22	898.05	636.98	616.18	20.80	30.619				
3,000.00	2,953.82	2,851.17	2,605.51	12.39	20.78	9.25	-84.69	948.08	666.81	645.15	21.66	30.792				
3,100.00	3,050.70	2,946.61	2,686.76	12.91	21.80	9.15	-87.16	998.10	696.64	674.13	22.51	30.949				
3,200.00	3,147.58	3,042.05	2,768.00	13.44	22.82	9.06	-89.63	1,048.12	726.47	703.10	23.37	31.092				
3,300.00	3,244.47	3,137.50	2,849.24	13.96	23.84	8.97	-92.10	1,098.15	756.30	732.07	24.22	31.223				
3,400.00	3,341.35	3,232.94	2,930.49	14.49	24.86	8.89	-94.57	1,148.17	786.13	761.05	25.08	31.343				
3,500.00	3,438.23	3,328.38	3,011.73	15.03	25.89	8.82	-97.03	1,198.20	815.96	790.02	25.94	31.453				
3,600.00	3,535.11	3,423.82	3,092.97	15.56	26.91	8.75	-99.50	1,248.22	845.80	818.99	26.80	31.555				
3,700.00	3,632.00	3,519.26	3,174.22	16.09	27.93	8.68	-101.97	1,298.24	875.63	847.97	27.67	31.649				
3,800.00	3,728.88	3,614.70	3,255.46	16.63	28.96	8.62	-104.44	1,348.27	905.47	876.94	28.53	31.737				
3,900.00	3,825.76	3,710.14	3,336.70	17.16	29.99	8.57	-106.91	1,398.29	935.31	905.91	29.40	31.818				
4,000.00	3,922.65	3,805.58	3,417.95	17.70	31.01	8.51	-109.38	1,448.32	965.15	934.88	30.26	31.894				
4,100.00	4,019.53	3,901.02	3,499.19	18.24	32.04	8.46	-111.85	1,498.34	994.98	963.86	31.13	31.965				
4,200.00	4,116.41	3,996.46	3,580.43	18.78	33.07	8.42	-114.32	1,548.36	1,024.82	992.83	31.99	32.031				
4,300.00	4,213.78	4,091.26	3,661.12	19.29	34.09	8.49	-116.77	1,598.05	1,056.62	1,023.77	32.85	32.161				
4,400.00	4,312.20	4,184.28	3,740.31	19.76	35.09	8.56	-119.18	1,646.80	1,093.26	1,059.57	33.69	32.452				
4,500.00	4,411.40	4,275.26	3,817.75	20.16	36.07	8.63	-121.54	1,694.49	1,134.66	1,100.17	34.49	32.895				
4,600.00	4,511.13	4,363.95	3,893.25	20.51	37.03	8.70	-123.83	1,740.98	1,180.73	1,145.46	35.27	33.480				
4,700.00	4,611.10	4,450.13	3,966.61	20.81	37.96	97.67	-126.06	1,786.15	1,231.30	1,195.30	36.01	34.198				
4,800.00	4,711.10	4,535.25	4,039.07	21.09	38.88	97.47	-128.26	1,830.76	1,283.65	1,246.93	36.72	34.959				
4,900.00	4,811.04	4,619.49	4,110.78	21.35	39.79	142.39	-130.44	1,874.92	1,337.42	1,299.99	37.43	35.730				
5,000.00	4,909.43	4,696.37	4,176.22	21.55	40.62	137.45	-132.43	1,915.21	1,400.82	1,362.71	38.11	36.761				

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



Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	Offset TVD Reference:	Offset Datum

Offset Design: Nageezi Unit (213, 214, 215, 216, 217 & 218) - Nageezi Unit 218H - Original Hole - rev0													Offset Site Error:	0.00 ft
Survey Program: 0-MWD													Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (ft)	Separation Factor	Warning	
		Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Between Centres (ft)	Between Ellipses (ft)						
5,100.00	5,003.34	4,762.70	4,232.69	21.68	41.33	130.72	-134.15	1,949.98	1,473.68	1,434.96	38.72	38.056		
5,200.00	5,089.93	4,816.46	4,278.45	21.76	41.91	121.18	-135.54	1,978.16	1,554.10	1,514.81	39.29	39.553		

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

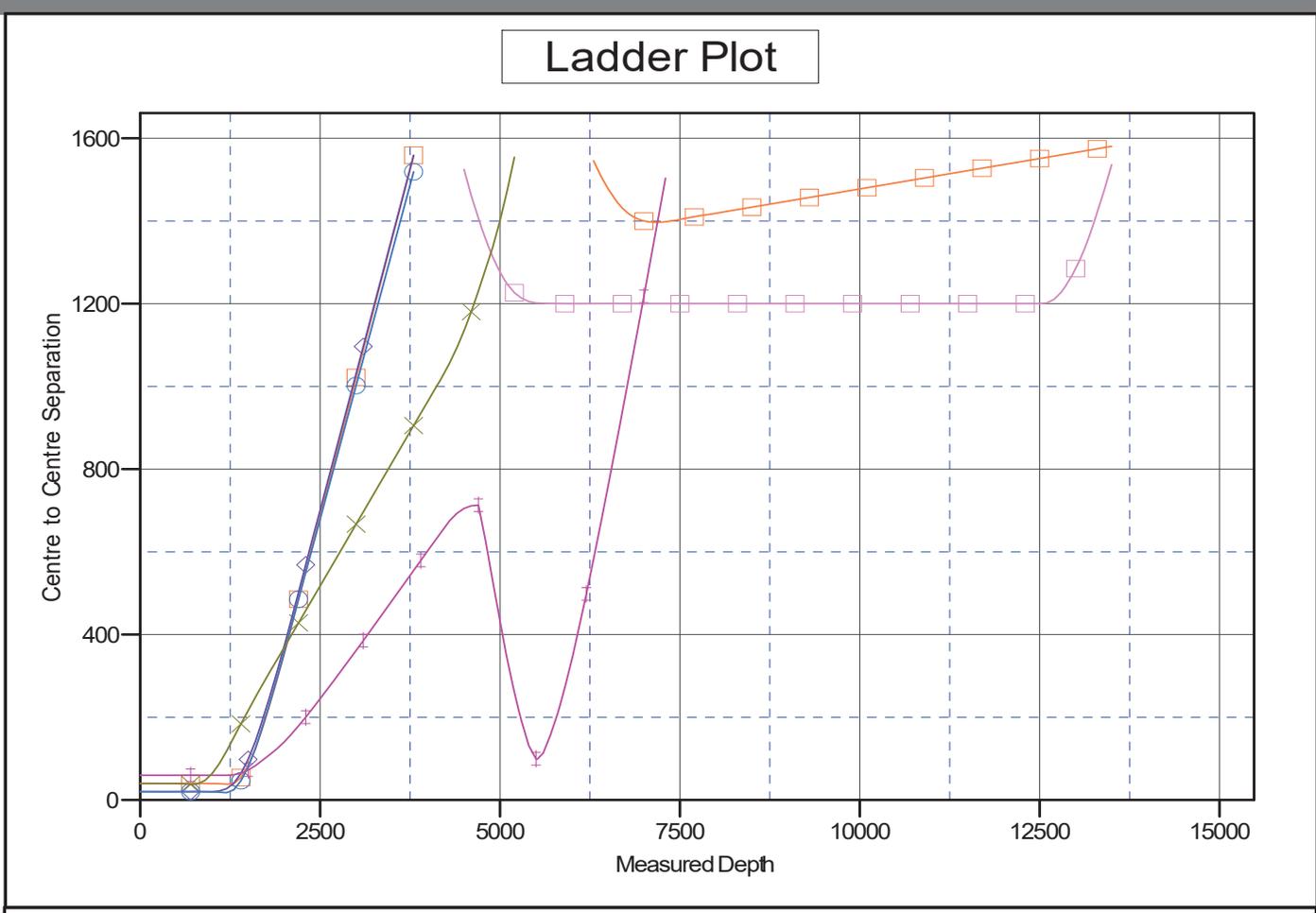


Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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 -107.8333333

Coordinates are relative to: Nageezi Unit 213H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.04°



LEGEND

	NageezLnt213HOriginalHble.ra0.V0		NageezLnt215HOriginalHble.ra0.V0		NageezLnt217HOriginalHble.ra0.V0
	NageezLnt214HOriginalHble.ra0.V0		NageezLnt216HOriginalHble.ra0.V0		NageezLnt218HOriginalHble.ra0.V0

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



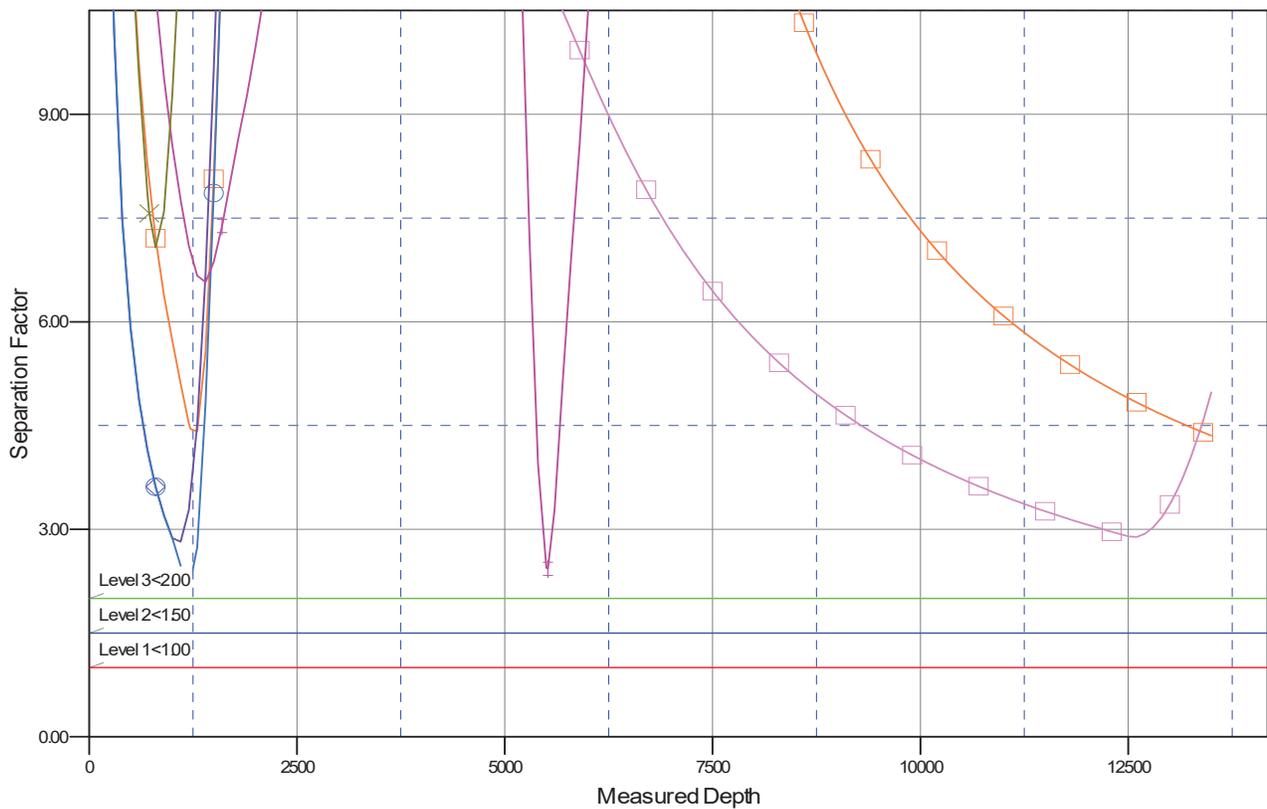
Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Well Nageezi Unit 213H
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 213H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_May1924_v17
Reference Design:	rev1	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 213H
 Coordinate System is US State Plane 1983, New Mexico Western Zone
 Grid Convergence at Surface is: 0.04°

Separation Factor Plot



LEGEND

- Nageezi Unit 213H Original Hole, ra0 V0
- Nageezi Unit 215H Original Hole, ra0 V0
- × Nageezi Unit 217H Original Hole, ra0 V0
- Nageezi Unit 214H Original Hole, ra0 V0
- Nageezi Unit 216H Original Hole, ra0 V0
- × Nageezi Unit 218H Original Hole, ra0 V0

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



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



June 17, 2024

CONDITIONS OF APPROVAL

Sundry Notice of Intent ID # 2795492 Request for APD Changes

Operator: DJR Operating LLC
Lease: NOG14011834
Agreement: NMNM 132981A
Well: Nageezi Unit 213H (API # 30-045-38293)
Location: NWSW Sec 26 T24N R9W (San Juan County, NM)

The requested change to the Application for Permit to Drill is approved with the following Conditions of Approval:

1. This approval is only for the sundry notice and well listed above.
2. No changes to the original APD or COA are granted with the approval of this Sundry Notice other than the directional plan, bottomhole location change, hole size, mud program, casing size, and cement volumes.

If you have any questions regarding this, please feel free to contact Matthew Kade of this office at (505) 564-7736 or mkade@blm.gov.

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

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

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

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

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

CONDITIONS

Action 354926

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 354926
	Action Type: [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