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

Sundry Print Report

04/19/2024

Well Name: NAGEEZI UNIT

Well Location: T24N / R9W / SEC 25 / SWSW / 36.279153 / -107.748758

County or Parish/State: SAN JUAN / NM

Well Number: 211H

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: NMSF78860

Unit or CA Name:

Unit or CA Number: NMNM132981A

US Well Number: 3004538301

Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2785950

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/19/2024

Time Sundry Submitted: 08:54

Date proposed operation will begin: 04/19/2024

Procedure Description: DJR respectfully requests approval to change the casing and cement design for the subject well. Attached please find a Revised Drilling Plan; reflecting new casing size, set depth, and cement slurry assumptions. Please note, effective December 21, 2023, Enduring Resources, LLC & DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources, LLC. Leases, rights of way, wells, and other property interests will continue to be held in their current entity names.

NOI Attachments

Procedure Description

NU_211H_DPR_Rev2_20240419085417.pdf

Well Name: NAGEEZI UNIT

Well Location: T24N / R9W / SEC 25 / SWSW / 36.279153 / -107.748758

County or Parish/State: SAN JUAN / NM

Well Number: 211H

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: NMSF78860

Unit or CA Name:

Unit or CA Number: NMNM132981A

US Well Number:

Operator: DJR OPERATING LLC

Operator

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

Operator Electronic Signature: SHAW-MARIE FORD

Signed on: APR 19, 2024 08:54 AM

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: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 04/19/2024

Signature: Kenneth Rennick

C-102

Submit Electronically
Via OCD Permitting

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

Revised July 9, 2024

Submittal Type: ☒ Initial Submittal ☐ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-045-38301	98080	NAGEEZI UNIT MANCOS OIL POOL

Property Code	Property Name	Well Number
325268	NAGEEZI UNIT	211H

OGRID No.	Operator Name	Ground Level Elevation
371838	DJR OPERATING, LLC	6805'

Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal Mineral Owner: ☐ State ☐ Fee ☒ Tribal ☒ Federal

Surface Location (SHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
M	25	24N	9W		487' SOUTH	384' WEST	36.279153° N	107.748758° W	SAN JUAN

Bottom Hole Location (BHL)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	23	24N	9W		2409' SOUTH	438' WEST	36.298993° N	107.766383° W	SAN JUAN

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
PENETRATED SPACING UNIT; SEC 25: NW/SW & SW/NW (80 AC.); SEC 26: SE/NE, NE/NE, NW/NE & NE/NW (160 AC.); SEC 23: SW/SE & SW/4 (200 AC.) = 440 ACRES			N	

Order Numbers: R-13856 R-13856A Well Setbacks are under Common Ownership: ☐ Yes ☐ No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	25	24N	9W		1972' SOUTH	1101' WEST	36.283269° N	107.746322° W	SAN JUAN

Fist Take Point (FTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	25	24N	9W		2344' SOUTH	918' WEST	36.284282° N	107.746945° W	SAN JUAN

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft from the N/S	Ft from the E/W	Latitude	Longitude	County
L	23	24N	9W		2409' SOUTH	438' WEST	36.298993° N	107.766383° W	SAN JUAN

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation
NAGEEZI		

OPERATOR CERTIFICATIONS

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

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

Shaw-Marie Ford 8/6/24
Signature Date

Shaw-Marie Ford
Printed Name

sford@enduringresources.com
E-mail Address

SURVEYOR CERTIFICATIONS

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.

HENRY P. BROADHURST NEW MEXICO 11393 08/05/2024 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor:

Certificate Number	Date of Survey
11393	NOVEMBER 9, 2020

Note: 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.

FND 2½" BC
GLO 1933

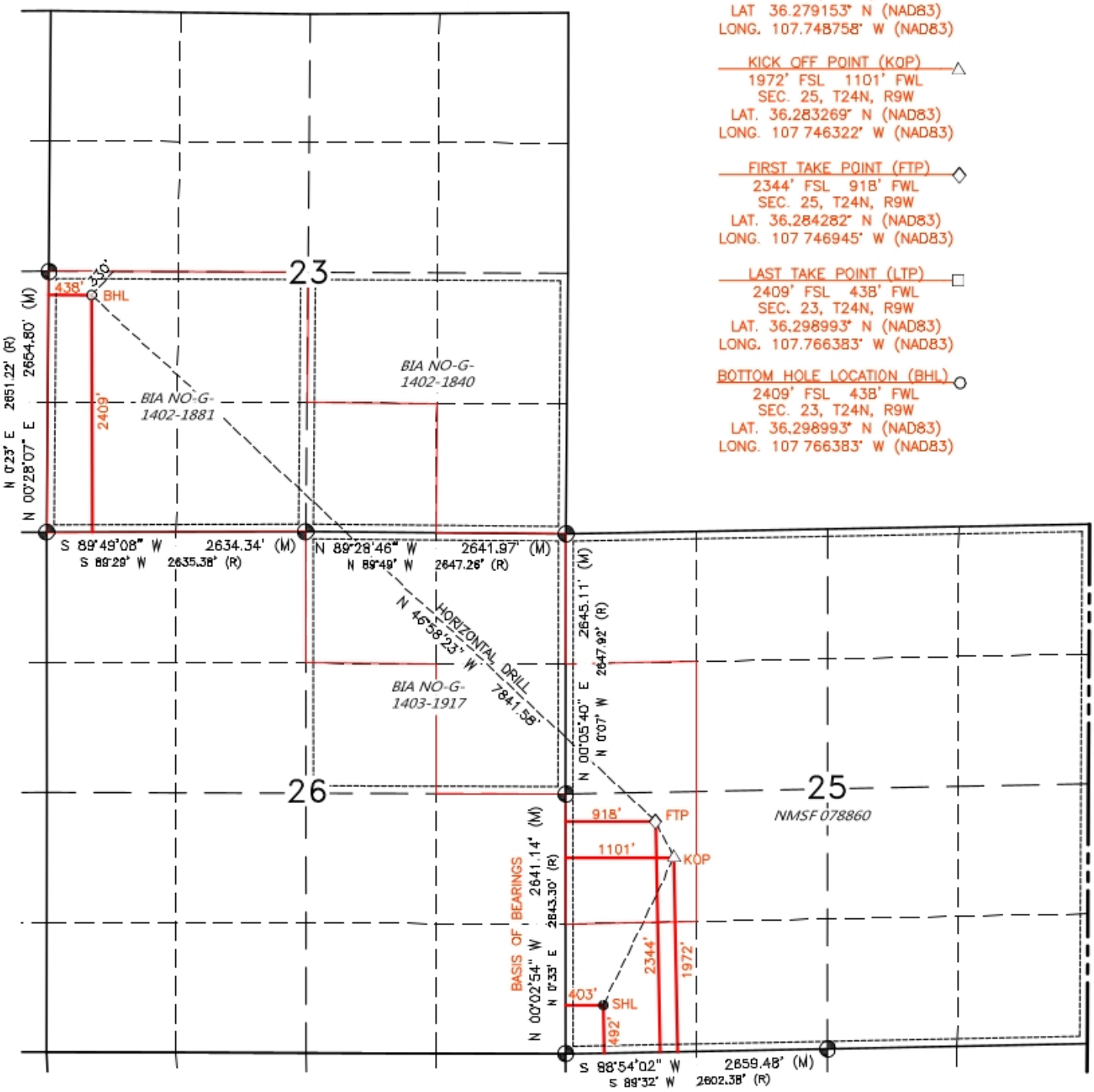
SURFACE LOCATION (SHL)
487' FSL 384' FWL
SEC. 25, T24N, R9W
LAT 36.279153° N (NAD83)
LONG. 107.748758° W (NAD83)

KICK OFF POINT (KOP)
1972' FSL 1101' FWL
SEC. 25, T24N, R9W
LAT. 36.283269° N (NAD83)
LONG. 107 746322° W (NAD83)

FIRST TAKE POINT (FTP)
2344' FSL 918' FWL
SEC. 25, T24N, R9W
LAT. 36.284282° N (NAD83)
LONG. 107 746945° W (NAD83)

LAST TAKE POINT (LTP)
2409' FSL 438' FWL
SEC. 23, T24N, R9W
LAT. 36.298993° N (NAD83)
LONG. 107.766383° W (NAD83)

BOTTOM HOLE LOCATION (BHL)
2409' FSL 438' FWL
SEC. 23, T24N, R9W
LAT. 36.298993° N (NAD83)
LONG. 107 766383° W (NAD83)



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

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

WELL INFORMATION:

Name: **NAGEEZI UNIT 211H**
API Number: 30-045-38301
AFE Number: *Not yet assigned*
ER Well Number: *Not yet assigned*
State: New Mexico
County: San Juan
Surface Elevation: 6,805 ft ASL (GL) 6,830 ft ASL (KB)
Surface Location: 45924 Sec-Twn-Rng 487 ft FSL 384 ft FWL
36.279153 ○ N latitude 107.748758 ○ W longitude (NAD 83)
BH Location: 45193 Sec-Twn-Rng 2,409 ft FSL 438 ft FEL
36.298993 ○ N latitude 107.766383 ○ W longitude (NAD 83)
Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 35.0 miles to MM 117.0, Right (SouthWest) on IR7786 Road for 200 feet; Left (SouthEast) on new accessfor 0.4 miles to Nageezi M25 Pad, There are 5 wells on this location from West to East (NU 623H, NU 209H, NU 626H, NU 211H, NU 207H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	5,995	835	835	W	normal
Kirtland	5,867	963	963	W	normal
Fruitland	5,590	1,240	1,244	G, W	sub
Pictured Cliffs	5,247	1,583	1,607	G, W	sub
Lewis	5,130	1,700	1,736	G, W	normal
Chacra	4,847	1,983	2,047	G, W	normal
Cliff House	3,769	3,061	3,232	G, W	sub
Menefee	3,739	3,091	3,265	G, W	normal
Point Lookout	2,776	4,054	4,324	G, W	normal
Mancos	2,566	4,264	4,555	O,G	sub (~0.38)
Gallup (MNCS_A)	2,191	4,639	4,967	O,G	sub (~0.38)
MNCS_B	2,111	4,719	5,055	O,G	sub (~0.38)
MNCS_C	2,008	4,822	5,169	O,G	sub (~0.38)
MNCS_Cms	1,964	4,866	5,217	O,G	sub (~0.38)
MNCS_D	1,851	4,979	5,344	O,G	sub (~0.38)
FTP TARGET	**1,528**	**5,302**	**5,844**	**O,G**	**sub (~0.38)**
PROJECTED TD	**1,462**	**5,368**	**13,690**	**O,G**	**sub (~0.38)**

Surface: Nacimiento
Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup
Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations
Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft
Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,310 psi
Maximum anticipated surface pressure, assuming partially evacuated hole: 1,130 psi
Temperature: **Maximum anticipated BHT is 125○ F or less**

H2S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

Mud Logs: None planned; remote geo-steering from drill out of 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.

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

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

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

2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.

3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.

4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.

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

FLUIDS AND SOLIDS CONTROL PROGRAM:

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

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

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

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

Fluid Program: See "Detailed Drilling Plan" section and attached Newpark mud program for additional details.

DETAILED DRILLING PLAN:

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

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

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

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2-Aug	45,628	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

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	1,139	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): *Minumum: 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 Csg ID 8.921

Mesa Ready Mix or first available 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	5,944 ft (MD)	Hole Section Length:	5,594 ft
350 ft (TVD)	to	5,328 ft (TVD)	Casing Required:	5,944 ft

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

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.

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					2,327	1,435	234,770	234,770
Min. S.F.					**1.86**	**3.47**	**1.77**	**1.56**

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

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

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

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	518	1,107
Tail	Type III	14.6	1.380	6.64	20%	4,455	201	278

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.*

5,944	ft (MD)	to	13,690	ft (MD)	Hole Section Length:	7,746 ft	
5,328	ft (TVD)	to	5,368	ft (TVD)	Casing Required:	7,896 ft	
		Estimated KOP:	5,198	ft (MD)	4,848	ft (TVD)	
		Estimated Liner Top:	5,794	ft (MD)	5,283	ft (TVD)	
		Estimated Landing Point (FTP):	5,844	ft (MD)	5,302	ft (TVD)	
		Estimated Lateral Length:	7,846	ft (MD)			

Fluid:	Type	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	pH	Comments	Comments
	WBM	8.7 - 9.0	NC	20.00	±2	9-9.5	prod water	OBM as contingency

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.

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	385,000
Loading					2,652	8,807	237,033	237,033
Min. S.F.					**2.85**	**1.21**	**1.55**	**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): *Minumum: BTC Optimum: BTC Maximum: BTC*

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

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Tail	G:POZ blend	13.3	1.560	7.70	25%	5,794	628	979
Displacement	180	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

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

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

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

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

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 7,746

Est Frac Inform: *32 Frac Stages 124,000 bbls slick water 10,070,000 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**

Well: Nageezi Unit 211H
Site: Nageezi Unit (207, 209, 211, 623 & 626)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:

Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	KOp Begin 3°/100' build
3	1619.41	24.58	25.549	1594.50	156.17	74.66	3.00	25.55	52.00	Begin 24.58° tangent
4	5197.58	24.58	25.549	4848.37	1499.14	716.63	0.00	0.00	499.13	Begin 10°/100' build/turn
5	5843.89	70.00	313.030	5301.90	1867.56	532.70	10.00	-82.73	884.99	POE Begin 10°/100' build
6	6041.53	89.76	313.027	5336.45	1999.66	391.18	10.00	-0.01	1078.59	Begin 89.76° lateral
7	13689.63	89.76	313.027	5368.00	7218.21	-5199.82	0.00	0.00	8726.63	PBHL @ 13689.63 MD 5368.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nageezi 211H 0 VS	5332.00	1263.70	1179.65	1922185.48	2749199.17	36.28262156	-107.74475177
Nageezi 211H BHL 2409 FSL 438 FWL 330 ppd	5368.00	7218.21	-5199.82	1928139.98	2742819.71	36.29899300	-107.76638300
Nageezi 211H PPP/POE 2344 FSL 918 FWL	5332.00	1867.56	532.70	1922789.34	2748552.22	36.28428200	-107.74694500

T G M

Azimuths to Grid North
True North: -0.05°
Magnetic North: 8.48°

Magnetic Field
Strength: 49067.1nT
Dip Angle: 62.73°
Date: 2/5/2024
Model: IGRF2020

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Depth Reference: RKB=6805+25 @ 6830.00ft

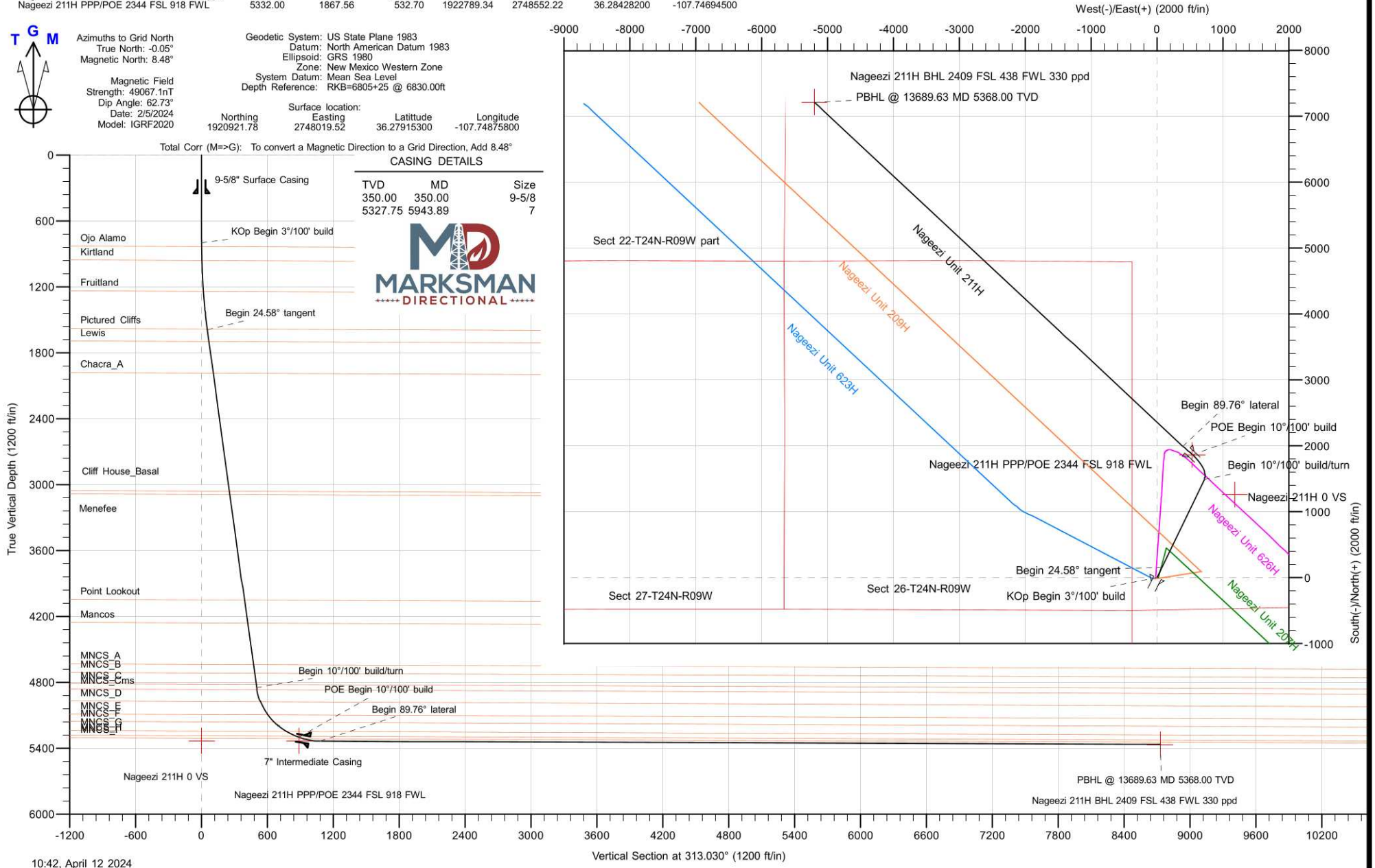
Surface location:

Northing	Easting	Latittude	Longitude
1920921.78	2748019.52	36.27915300	-107.74875800

Total Corr (M=>G): To convert a Magnetic Direction to a Grid Direction, Add 8.48°

CASING DETAILS

TVD	MD	Size
350.00	350.00	9-5/8
5327.75	5943.89	7



MARKSMAN DIRECTIONAL

10:42, April 12 2024

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

Site Nageezi Unit (207, 209, 211, 623 & 626)

Site Position:		**Northing:**	1,920,927.26 usft	**Latitude:**	36.27916800
From:	Lat/Long	**Easting:**	2,748,038.68 usft	**Longitude:**	-107.74869300
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well Nageezi Unit 211H, Surf loc: 487 FSL 384 FWL Section 25-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,920,921.79 usft	**Latitude:**	36.27915300
	+E/-W	0.00 ft	**Easting:**	2,748,019.53 usft	**Longitude:**	-107.74875800
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,805.00 ft
Grid Convergence:		0.05 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/5/2024	8.53	62.73	49,067.06510672

Design rev0

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	313.030

Plan Survey Tool Program **Date** 4/12/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,689.63	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	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	
1,619.41	24.58	25.549	1,594.50	156.17	74.66	3.00	3.00	0.00	25.55	
5,197.58	24.58	25.549	4,848.37	1,499.14	716.63	0.00	0.00	0.00	0.00	
5,843.89	70.00	313.030	5,301.90	1,867.56	532.70	10.00	7.03	-11.22	-82.73	
6,041.53	89.76	313.027	5,336.45	1,999.66	391.18	10.00	10.00	0.00	-0.01	
13,689.63	89.76	313.027	5,368.00	7,218.21	-5,199.82	0.00	0.00	0.00	0.00	Nageezi 211H BHL 2

Planning Report

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Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	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
KOp Begin 3°/100' build									
835.00	1.05	25.549	835.00	0.29	0.14	0.10	3.00	3.00	0.00
Ojo Alamo									
900.00	3.00	25.549	899.95	2.36	1.13	0.79	3.00	3.00	0.00
963.21	4.90	25.549	963.01	6.29	3.01	2.09	3.00	3.00	0.00
Kirtland									
1,000.00	6.00	25.549	999.63	9.44	4.51	3.14	3.00	3.00	0.00
1,100.00	9.00	25.549	1,098.77	21.21	10.14	7.06	3.00	3.00	0.00
1,200.00	12.00	25.549	1,197.08	37.65	18.00	12.54	3.00	3.00	0.00
1,244.05	13.32	25.549	1,240.06	46.37	22.16	15.44	3.00	3.00	0.00
Fruitland									
1,300.00	15.00	25.549	1,294.31	58.71	28.07	19.55	3.00	3.00	0.00
1,400.00	18.00	25.549	1,390.18	84.33	40.31	28.08	3.00	3.00	0.00
1,500.00	21.00	25.549	1,484.43	114.45	54.71	38.10	3.00	3.00	0.00
1,600.00	24.00	25.549	1,576.81	148.97	71.21	49.60	3.00	3.00	0.00
1,607.01	24.21	25.549	1,583.21	151.55	72.45	50.46	3.00	3.00	0.00
Pictured Cliffs									
1,619.41	24.58	25.549	1,594.50	156.17	74.66	52.00	3.00	3.00	0.00
Begin 24.58° tangent									
1,700.00	24.58	25.549	1,667.79	186.42	89.11	62.07	0.00	0.00	0.00
1,735.73	24.58	25.549	1,700.28	199.83	95.53	66.53	0.00	0.00	0.00
Lewis									
1,800.00	24.58	25.549	1,758.72	223.95	107.06	74.56	0.00	0.00	0.00
1,900.00	24.58	25.549	1,849.66	261.49	125.00	87.06	0.00	0.00	0.00
2,000.00	24.58	25.549	1,940.60	299.02	142.94	99.56	0.00	0.00	0.00
2,047.12	24.58	25.549	1,983.44	316.70	151.39	105.44	0.00	0.00	0.00
Chacra_A									
2,100.00	24.58	25.549	2,031.53	336.55	160.88	112.05	0.00	0.00	0.00
2,200.00	24.58	25.549	2,122.47	374.08	178.82	124.55	0.00	0.00	0.00
2,300.00	24.58	25.549	2,213.41	411.61	196.76	137.04	0.00	0.00	0.00
2,400.00	24.58	25.549	2,304.34	449.15	214.70	149.54	0.00	0.00	0.00
2,500.00	24.58	25.549	2,395.28	486.68	232.65	162.04	0.00	0.00	0.00
2,600.00	24.58	25.549	2,486.22	524.21	250.59	174.53	0.00	0.00	0.00
2,700.00	24.58	25.549	2,577.15	561.74	268.53	187.03	0.00	0.00	0.00
2,800.00	24.58	25.549	2,668.09	599.27	286.47	199.52	0.00	0.00	0.00
2,900.00	24.58	25.549	2,759.03	636.81	304.41	212.02	0.00	0.00	0.00
3,000.00	24.58	25.549	2,849.96	674.34	322.35	224.52	0.00	0.00	0.00
3,100.00	24.58	25.549	2,940.90	711.87	340.29	237.01	0.00	0.00	0.00
3,200.00	24.58	25.549	3,031.83	749.40	358.24	249.51	0.00	0.00	0.00
3,232.14	24.58	25.549	3,061.06	761.47	364.00	253.53	0.00	0.00	0.00
Cliff House_Basal									
3,265.15	24.58	25.549	3,091.08	773.85	369.92	257.65	0.00	0.00	0.00

Planning Report

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Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Menefee									
3,300.00	24.58	25.549	3,122.77	786.93	376.18	262.00	0.00	0.00	0.00
3,400.00	24.58	25.549	3,213.71	824.47	394.12	274.50	0.00	0.00	0.00
3,500.00	24.58	25.549	3,304.64	862.00	412.06	287.00	0.00	0.00	0.00
3,600.00	24.58	25.549	3,395.58	899.53	430.00	299.49	0.00	0.00	0.00
3,700.00	24.58	25.549	3,486.52	937.06	447.94	311.99	0.00	0.00	0.00
3,800.00	24.58	25.549	3,577.45	974.59	465.88	324.49	0.00	0.00	0.00
3,900.00	24.58	25.549	3,668.39	1,012.13	483.83	336.98	0.00	0.00	0.00
4,000.00	24.58	25.549	3,759.33	1,049.66	501.77	349.48	0.00	0.00	0.00
4,100.00	24.58	25.549	3,850.26	1,087.19	519.71	361.97	0.00	0.00	0.00
4,200.00	24.58	25.549	3,941.20	1,124.72	537.65	374.47	0.00	0.00	0.00
4,300.00	24.58	25.549	4,032.14	1,162.26	555.59	386.97	0.00	0.00	0.00
4,323.64	24.58	25.549	4,053.63	1,171.13	559.83	389.92	0.00	0.00	0.00
Point Lookout									
4,400.00	24.58	25.549	4,123.07	1,199.79	573.53	399.46	0.00	0.00	0.00
4,500.00	24.58	25.549	4,214.01	1,237.32	591.47	411.96	0.00	0.00	0.00
4,554.70	24.58	25.549	4,263.75	1,257.85	601.29	418.79	0.00	0.00	0.00
Mancos									
4,600.00	24.58	25.549	4,304.95	1,274.85	609.42	424.45	0.00	0.00	0.00
4,700.00	24.58	25.549	4,395.88	1,312.38	627.36	436.95	0.00	0.00	0.00
4,800.00	24.58	25.549	4,486.82	1,349.92	645.30	449.45	0.00	0.00	0.00
4,900.00	24.58	25.549	4,577.76	1,387.45	663.24	461.94	0.00	0.00	0.00
4,967.32	24.58	25.549	4,638.97	1,412.71	675.32	470.35	0.00	0.00	0.00
MNCS_A									
5,000.00	24.58	25.549	4,668.69	1,424.98	681.18	474.44	0.00	0.00	0.00
5,055.34	24.58	25.549	4,719.02	1,445.75	691.11	481.35	0.00	0.00	0.00
MNCS_B									
5,100.00	24.58	25.549	4,759.63	1,462.51	699.12	486.93	0.00	0.00	0.00
5,168.67	24.58	25.549	4,822.08	1,488.29	711.44	495.52	0.00	0.00	0.00
MNCS_C									
5,197.58	24.58	25.549	4,848.37	1,499.14	716.63	499.13	0.00	0.00	0.00
Begin 10°/100' build/turn									
5,200.00	24.61	24.973	4,850.56	1,500.05	717.06	499.44	10.00	1.31	-23.82
5,217.11	24.90	20.944	4,866.10	1,506.64	719.85	501.89	10.00	1.67	-23.55
MNCS_Cms									
5,250.00	25.74	13.506	4,895.84	1,520.06	724.00	508.02	10.00	2.56	-22.62
5,300.00	27.69	3.240	4,940.53	1,542.23	727.19	520.81	10.00	3.88	-20.53
5,344.18	29.95	355.364	4,979.24	1,563.48	726.88	535.54	10.00	5.13	-17.83
MNCS_D									
5,350.00	30.28	354.410	4,984.28	1,566.39	726.62	537.72	10.00	5.69	-16.39
5,400.00	33.39	346.964	5,026.77	1,592.35	722.29	558.60	10.00	6.20	-14.89
5,450.00	36.86	340.709	5,067.67	1,619.93	714.22	583.31	10.00	6.95	-12.51
5,488.04	39.70	336.612	5,097.53	1,641.85	705.63	604.56	10.00	7.45	-10.77
MNCS_E									
5,500.00	40.62	335.425	5,106.67	1,648.90	702.49	611.66	10.00	7.68	-9.92
5,550.00	44.58	330.911	5,143.48	1,679.06	687.18	643.43	10.00	7.92	-9.03
5,582.04	47.20	328.343	5,165.79	1,698.89	675.54	665.47	10.00	8.18	-8.01
MNCS_F									
5,600.00	48.69	326.999	5,177.81	1,710.16	668.41	678.37	10.00	8.31	-7.49
5,650.00	52.92	323.559	5,209.41	1,741.97	646.32	716.23	10.00	8.46	-6.88
5,700.00	57.24	320.486	5,238.03	1,774.26	621.08	756.71	10.00	8.64	-6.15
5,713.50	58.42	319.708	5,245.22	1,783.03	613.75	768.06	10.00	8.73	-5.76
MNCS_G									

Planning Report

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Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,750.00	61.63	317.700	5,263.45	1,806.77	592.88	799.51	10.00	8.79	-5.50
5,800.00	66.07	315.137	5,285.48	1,839.26	561.94	844.30	10.00	8.88	-5.13
5,818.14	67.69	314.252	5,292.61	1,850.99	550.08	860.97	10.00	8.94	-4.88
MNCS_H									
5,843.89	70.00	313.030	5,301.90	1,867.56	532.70	884.99	10.00	8.97	-4.75
POE Begin 10°/100' build									
5,850.00	70.61	313.030	5,303.96	1,871.48	528.50	890.74	10.00	10.00	0.00
5,889.93	74.60	313.029	5,315.89	1,897.48	500.65	928.83	10.00	10.00	0.00
MNCS_I									
5,900.00	75.61	313.029	5,318.48	1,904.12	493.53	938.57	10.00	10.00	0.00
5,943.89	80.00	313.028	5,327.75	1,933.39	462.18	981.45	10.00	10.00	0.00
7" Intermediate Casing									
5,950.00	80.61	313.028	5,328.78	1,937.50	457.78	987.48	10.00	10.00	0.00
6,000.00	85.61	313.027	5,334.77	1,971.36	421.50	1,037.10	10.00	10.00	0.00
6,041.53	89.76	313.027	5,336.45	1,999.66	391.18	1,078.59	10.00	10.00	0.00
Begin 89.76° lateral									
6,100.00	89.76	313.027	5,336.69	2,039.56	348.43	1,137.06	0.00	0.00	0.00
6,200.00	89.76	313.027	5,337.10	2,107.79	275.33	1,237.06	0.00	0.00	0.00
6,300.00	89.76	313.027	5,337.52	2,176.03	202.22	1,337.06	0.00	0.00	0.00
6,400.00	89.76	313.027	5,337.93	2,244.26	129.12	1,437.05	0.00	0.00	0.00
6,500.00	89.76	313.027	5,338.34	2,312.49	56.02	1,537.05	0.00	0.00	0.00
6,600.00	89.76	313.027	5,338.75	2,380.73	-17.08	1,637.05	0.00	0.00	0.00
6,700.00	89.76	313.027	5,339.17	2,448.96	-90.19	1,737.05	0.00	0.00	0.00
6,800.00	89.76	313.027	5,339.58	2,517.19	-163.29	1,837.05	0.00	0.00	0.00
6,900.00	89.76	313.027	5,339.99	2,585.43	-236.39	1,937.05	0.00	0.00	0.00
7,000.00	89.76	313.027	5,340.40	2,653.66	-309.50	2,037.05	0.00	0.00	0.00
7,100.00	89.76	313.027	5,340.82	2,721.89	-382.60	2,137.05	0.00	0.00	0.00
7,200.00	89.76	313.027	5,341.23	2,790.13	-455.70	2,237.05	0.00	0.00	0.00
7,300.00	89.76	313.027	5,341.64	2,858.36	-528.81	2,337.05	0.00	0.00	0.00
7,400.00	89.76	313.027	5,342.05	2,926.59	-601.91	2,437.05	0.00	0.00	0.00
7,500.00	89.76	313.027	5,342.47	2,994.83	-675.01	2,537.05	0.00	0.00	0.00
7,600.00	89.76	313.027	5,342.88	3,063.06	-748.12	2,637.04	0.00	0.00	0.00
7,700.00	89.76	313.027	5,343.29	3,131.29	-821.22	2,737.04	0.00	0.00	0.00
7,800.00	89.76	313.027	5,343.70	3,199.53	-894.32	2,837.04	0.00	0.00	0.00
7,900.00	89.76	313.027	5,344.12	3,267.76	-967.42	2,937.04	0.00	0.00	0.00
8,000.00	89.76	313.027	5,344.53	3,335.99	-1,040.53	3,037.04	0.00	0.00	0.00
8,100.00	89.76	313.027	5,344.94	3,404.23	-1,113.63	3,137.04	0.00	0.00	0.00
8,200.00	89.76	313.027	5,345.35	3,472.46	-1,186.73	3,237.04	0.00	0.00	0.00
8,300.00	89.76	313.027	5,345.77	3,540.69	-1,259.84	3,337.04	0.00	0.00	0.00
8,400.00	89.76	313.027	5,346.18	3,608.93	-1,332.94	3,437.04	0.00	0.00	0.00
8,500.00	89.76	313.027	5,346.59	3,677.16	-1,406.04	3,537.04	0.00	0.00	0.00
8,600.00	89.76	313.027	5,347.00	3,745.39	-1,479.15	3,637.04	0.00	0.00	0.00
8,700.00	89.76	313.027	5,347.42	3,813.63	-1,552.25	3,737.04	0.00	0.00	0.00
8,800.00	89.76	313.027	5,347.83	3,881.86	-1,625.35	3,837.03	0.00	0.00	0.00
8,900.00	89.76	313.027	5,348.24	3,950.09	-1,698.46	3,937.03	0.00	0.00	0.00
9,000.00	89.76	313.027	5,348.65	4,018.32	-1,771.56	4,037.03	0.00	0.00	0.00
9,100.00	89.76	313.027	5,349.07	4,086.56	-1,844.66	4,137.03	0.00	0.00	0.00
9,200.00	89.76	313.027	5,349.48	4,154.79	-1,917.76	4,237.03	0.00	0.00	0.00
9,300.00	89.76	313.027	5,349.89	4,223.02	-1,990.87	4,337.03	0.00	0.00	0.00
9,400.00	89.76	313.027	5,350.30	4,291.26	-2,063.97	4,437.03	0.00	0.00	0.00
9,500.00	89.76	313.027	5,350.72	4,359.49	-2,137.07	4,537.03	0.00	0.00	0.00
9,600.00	89.76	313.027	5,351.13	4,427.72	-2,210.18	4,637.03	0.00	0.00	0.00
9,700.00	89.76	313.027	5,351.54	4,495.96	-2,283.28	4,737.03	0.00	0.00	0.00

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,800.00	89.76	313.027	5,351.95	4,564.19	-2,356.38	4,837.03	0.00	0.00	0.00
9,900.00	89.76	313.027	5,352.37	4,632.42	-2,429.49	4,937.02	0.00	0.00	0.00
10,000.00	89.76	313.027	5,352.78	4,700.66	-2,502.59	5,037.02	0.00	0.00	0.00
10,100.00	89.76	313.027	5,353.19	4,768.89	-2,575.69	5,137.02	0.00	0.00	0.00
10,200.00	89.76	313.027	5,353.60	4,837.12	-2,648.80	5,237.02	0.00	0.00	0.00
10,300.00	89.76	313.027	5,354.02	4,905.36	-2,721.90	5,337.02	0.00	0.00	0.00
10,400.00	89.76	313.027	5,354.43	4,973.59	-2,795.00	5,437.02	0.00	0.00	0.00
10,500.00	89.76	313.027	5,354.84	5,041.82	-2,868.10	5,537.02	0.00	0.00	0.00
10,600.00	89.76	313.027	5,355.25	5,110.06	-2,941.21	5,637.02	0.00	0.00	0.00
10,700.00	89.76	313.027	5,355.67	5,178.29	-3,014.31	5,737.02	0.00	0.00	0.00
10,800.00	89.76	313.027	5,356.08	5,246.52	-3,087.41	5,837.02	0.00	0.00	0.00
10,900.00	89.76	313.027	5,356.49	5,314.76	-3,160.52	5,937.02	0.00	0.00	0.00
11,000.00	89.76	313.027	5,356.90	5,382.99	-3,233.62	6,037.02	0.00	0.00	0.00
11,100.00	89.76	313.027	5,357.32	5,451.22	-3,306.72	6,137.01	0.00	0.00	0.00
11,200.00	89.76	313.027	5,357.73	5,519.46	-3,379.83	6,237.01	0.00	0.00	0.00
11,300.00	89.76	313.027	5,358.14	5,587.69	-3,452.93	6,337.01	0.00	0.00	0.00
11,400.00	89.76	313.027	5,358.55	5,655.92	-3,526.03	6,437.01	0.00	0.00	0.00
11,500.00	89.76	313.027	5,358.97	5,724.16	-3,599.14	6,537.01	0.00	0.00	0.00
11,600.00	89.76	313.027	5,359.38	5,792.39	-3,672.24	6,637.01	0.00	0.00	0.00
11,700.00	89.76	313.027	5,359.79	5,860.62	-3,745.34	6,737.01	0.00	0.00	0.00
11,800.00	89.76	313.027	5,360.20	5,928.85	-3,818.44	6,837.01	0.00	0.00	0.00
11,900.00	89.76	313.027	5,360.62	5,997.09	-3,891.55	6,937.01	0.00	0.00	0.00
12,000.00	89.76	313.027	5,361.03	6,065.32	-3,964.65	7,037.01	0.00	0.00	0.00
12,100.00	89.76	313.027	5,361.44	6,133.55	-4,037.75	7,137.01	0.00	0.00	0.00
12,200.00	89.76	313.027	5,361.85	6,201.79	-4,110.86	7,237.01	0.00	0.00	0.00
12,300.00	89.76	313.027	5,362.27	6,270.02	-4,183.96	7,337.00	0.00	0.00	0.00
12,400.00	89.76	313.027	5,362.68	6,338.25	-4,257.06	7,437.00	0.00	0.00	0.00
12,500.00	89.76	313.027	5,363.09	6,406.49	-4,330.17	7,537.00	0.00	0.00	0.00
12,600.00	89.76	313.027	5,363.50	6,474.72	-4,403.27	7,637.00	0.00	0.00	0.00
12,700.00	89.76	313.027	5,363.92	6,542.95	-4,476.37	7,737.00	0.00	0.00	0.00
12,800.00	89.76	313.027	5,364.33	6,611.19	-4,549.48	7,837.00	0.00	0.00	0.00
12,900.00	89.76	313.027	5,364.74	6,679.42	-4,622.58	7,937.00	0.00	0.00	0.00
13,000.00	89.76	313.027	5,365.16	6,747.65	-4,695.68	8,037.00	0.00	0.00	0.00
13,100.00	89.76	313.027	5,365.57	6,815.89	-4,768.78	8,137.00	0.00	0.00	0.00
13,200.00	89.76	313.027	5,365.98	6,884.12	-4,841.89	8,237.00	0.00	0.00	0.00
13,300.00	89.76	313.027	5,366.39	6,952.35	-4,914.99	8,337.00	0.00	0.00	0.00
13,400.00	89.76	313.027	5,366.81	7,020.59	-4,988.09	8,437.00	0.00	0.00	0.00
13,500.00	89.76	313.027	5,367.22	7,088.82	-5,061.20	8,536.99	0.00	0.00	0.00
13,600.00	89.76	313.027	5,367.63	7,157.05	-5,134.30	8,636.99	0.00	0.00	0.00
13,689.63	89.76	313.027	5,368.00	7,218.21	-5,199.82	8,726.63	0.00	0.00	0.00
PBHL @ 13689.63 MD 5368.00 TVD									

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
5,943.89	5,327.75	7" Intermediate Casing	7	8-1/2

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
835.00	835.00	Ojo Alamo		0.24	313.030
963.21	963.01	Kirtland		0.24	313.030
1,244.05	1,240.06	Fruitland		0.24	313.030
1,607.01	1,583.21	Pictured Cliffs		0.24	313.030
1,735.73	1,700.28	Lewis		0.24	313.030
2,047.12	1,983.44	Chacra_A		0.24	313.030
3,232.14	3,061.06	Cliff House_Basal		0.24	313.030
3,265.15	3,091.08	Menefee		0.24	313.030
4,323.64	4,053.63	Point Lookout		0.24	313.030
4,554.70	4,263.75	Mancos		0.24	313.030
4,967.32	4,638.97	MNCS_A		0.24	313.030
5,055.34	4,719.02	MNCS_B		0.24	313.030
5,168.67	4,822.08	MNCS_C		0.24	313.030
5,217.11	4,866.10	MNCS_Cms		0.24	313.030
5,344.18	4,979.24	MNCS_D		0.24	313.030
5,488.04	5,097.53	MNCS_E		0.24	313.030
5,582.04	5,165.79	MNCS_F		0.24	313.030
5,713.50	5,245.22	MNCS_G		0.24	313.030
5,818.14	5,292.61	MNCS_H		0.24	313.030
5,889.93	5,315.89	MNCS_I		0.24	313.030

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
800.00	800.00	0.00	0.00	KOp Begin 3°/100' build
1,619.41	1,594.50	156.17	74.66	Begin 24.58° tangent
5,197.58	4,848.37	1,499.14	716.63	Begin 10°/100' build/turn
5,843.89	5,301.90	1,867.56	532.70	POE Begin 10°/100' build
6,041.53	5,336.45	1,999.66	391.18	Begin 89.76° lateral
13,689.63	5,368.00	7,218.21	-5,199.82	PBHL @ 13689.63 MD 5368.00 TVD

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

Site Nageezi Unit (207, 209, 211, 623 & 626)

Site Position:		**Northing:**	1,920,927.26 usft	**Latitude:**	36.27916800
From:	Lat/Long	**Easting:**	2,748,038.68 usft	**Longitude:**	-107.74869300
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "		

Well Nageezi Unit 211H, Surf loc: 487 FSL 384 FWL Section 25-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,920,921.79 usft	**Latitude:**	36.27915300
	+E/-W	0.00 ft	**Easting:**	2,748,019.53 usft	**Longitude:**	-107.74875800
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,805.00 ft
Grid Convergence:		0.05 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/5/2024	8.53	62.73	49,067.06510672

Design rev0

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	313.030

Plan Survey Tool Program **Date** 4/12/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,689.63	rev0 (Original Hole)	MWD OWSG MWD - Standard	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	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	
1,619.41	24.58	25.549	1,594.50	156.17	74.66	3.00	3.00	0.00	25.55	
5,197.58	24.58	25.549	4,848.37	1,499.14	716.63	0.00	0.00	0.00	0.00	
5,843.89	70.00	313.030	5,301.90	1,867.56	532.70	10.00	7.03	-11.22	-82.73	
6,041.53	89.76	313.027	5,336.45	1,999.66	391.18	10.00	10.00	0.00	-0.01	
13,689.63	89.76	313.027	5,368.00	7,218.21	-5,199.82	0.00	0.00	0.00	0.00	Nageezi 211H BHL 2

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.000	0.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
100.00	0.00	0.000	100.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
200.00	0.00	0.000	200.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
300.00	0.00	0.000	300.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
350.00	0.00	0.000	350.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
500.00	0.00	0.000	500.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
600.00	0.00	0.000	600.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
700.00	0.00	0.000	700.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
800.00	0.00	0.000	800.00	0.00	0.00	1,920,921.79	2,748,019.53	36.27915300	-107.74875800
KOp Begin 3°/100' build									
835.00	1.05	25.549	835.00	0.29	0.14	1,920,922.08	2,748,019.66	36.27915380	-107.74875753
Ojo Alamo									
900.00	3.00	25.549	899.95	2.36	1.13	1,920,924.15	2,748,020.65	36.27915948	-107.74875417
963.21	4.90	25.549	963.01	6.29	3.01	1,920,928.07	2,748,022.53	36.27917027	-107.74874779
Kirtland									
1,000.00	6.00	25.549	999.63	9.44	4.51	1,920,931.23	2,748,024.04	36.27917892	-107.74874267
1,100.00	9.00	25.549	1,098.77	21.21	10.14	1,920,943.00	2,748,029.67	36.27921125	-107.74872354
1,200.00	12.00	25.549	1,197.08	37.65	18.00	1,920,959.44	2,748,037.53	36.27925639	-107.74869682
1,244.05	13.32	25.549	1,240.06	46.37	22.16	1,920,968.15	2,748,041.69	36.27928032	-107.74868267
Fruitland									
1,300.00	15.00	25.549	1,294.31	58.71	28.07	1,920,980.50	2,748,047.59	36.27931422	-107.74866261
1,400.00	18.00	25.549	1,390.18	84.33	40.31	1,921,006.12	2,748,059.84	36.27938458	-107.74862098
1,500.00	21.00	25.549	1,484.43	114.45	54.71	1,921,036.23	2,748,074.23	36.27946726	-107.74857205
1,600.00	24.00	25.549	1,576.81	148.97	71.21	1,921,070.76	2,748,090.74	36.27956206	-107.74851595
1,607.01	24.21	25.549	1,583.21	151.55	72.45	1,921,073.34	2,748,091.97	36.27956916	-107.74851176
Pictured Cliffs									
1,619.41	24.58	25.549	1,594.50	156.17	74.66	1,921,077.96	2,748,094.18	36.27958184	-107.74850425
Begin 24.58° tangent									
1,700.00	24.58	25.549	1,667.79	186.42	89.11	1,921,108.21	2,748,108.64	36.27966490	-107.74845510
1,735.73	24.58	25.549	1,700.28	199.83	95.53	1,921,121.62	2,748,115.05	36.27970172	-107.74843331
Lewis									
1,800.00	24.58	25.549	1,758.72	223.95	107.06	1,921,145.74	2,748,126.58	36.27976796	-107.74839412
1,900.00	24.58	25.549	1,849.66	261.49	125.00	1,921,183.27	2,748,144.52	36.27987102	-107.74833313
2,000.00	24.58	25.549	1,940.60	299.02	142.94	1,921,220.80	2,748,162.46	36.27997407	-107.74827215
2,047.12	24.58	25.549	1,983.44	316.70	151.39	1,921,238.49	2,748,170.92	36.28002263	-107.74824342
Chacra_A									
2,100.00	24.58	25.549	2,031.53	336.55	160.88	1,921,258.34	2,748,180.41	36.28007713	-107.74821117
2,200.00	24.58	25.549	2,122.47	374.08	178.82	1,921,295.87	2,748,198.35	36.28018019	-107.74815018
2,300.00	24.58	25.549	2,213.41	411.61	196.76	1,921,333.40	2,748,216.29	36.28028325	-107.74808920
2,400.00	24.58	25.549	2,304.34	449.15	214.70	1,921,370.93	2,748,234.23	36.28038631	-107.74802821
2,500.00	24.58	25.549	2,395.28	486.68	232.65	1,921,408.46	2,748,252.17	36.28048937	-107.74796723
2,600.00	24.58	25.549	2,486.22	524.21	250.59	1,921,446.00	2,748,270.11	36.28059243	-107.74790624
2,700.00	24.58	25.549	2,577.15	561.74	268.53	1,921,483.53	2,748,288.05	36.28069549	-107.74784526
2,800.00	24.58	25.549	2,668.09	599.27	286.47	1,921,521.06	2,748,306.00	36.28079855	-107.74778427
2,900.00	24.58	25.549	2,759.03	636.81	304.41	1,921,558.59	2,748,323.94	36.28090161	-107.74772329
3,000.00	24.58	25.549	2,849.96	674.34	322.35	1,921,596.12	2,748,341.88	36.28100467	-107.74766230
3,100.00	24.58	25.549	2,940.90	711.87	340.29	1,921,633.66	2,748,359.82	36.28110773	-107.74760132
3,200.00	24.58	25.549	3,031.83	749.40	358.24	1,921,671.19	2,748,377.76	36.28121079	-107.74754033
3,232.14	24.58	25.549	3,061.06	761.47	364.00	1,921,683.25	2,748,383.53	36.28124391	-107.74752073
Cliff House_Basal									

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,265.15	24.58	25.549	3,091.08	773.85	369.92	1,921,695.64	2,748,389.45	36.28127793	-107.74750060
Menefee									
3,300.00	24.58	25.549	3,122.77	786.93	376.18	1,921,708.72	2,748,395.70	36.28131385	-107.74747934
3,400.00	24.58	25.549	3,213.71	824.47	394.12	1,921,746.25	2,748,413.64	36.28141690	-107.74741836
3,500.00	24.58	25.549	3,304.64	862.00	412.06	1,921,783.78	2,748,431.59	36.28151996	-107.74735737
3,600.00	24.58	25.549	3,395.58	899.53	430.00	1,921,821.32	2,748,449.53	36.28162302	-107.74729639
3,700.00	24.58	25.549	3,486.52	937.06	447.94	1,921,858.85	2,748,467.47	36.28172608	-107.74723540
3,800.00	24.58	25.549	3,577.45	974.59	465.88	1,921,896.38	2,748,485.41	36.28182914	-107.74717441
3,900.00	24.58	25.549	3,668.39	1,012.13	483.83	1,921,933.91	2,748,503.35	36.28193220	-107.74711343
4,000.00	24.58	25.549	3,759.33	1,049.66	501.77	1,921,971.44	2,748,521.29	36.28203526	-107.74705244
4,100.00	24.58	25.549	3,850.26	1,087.19	519.71	1,922,008.98	2,748,539.23	36.28213832	-107.74699145
4,200.00	24.58	25.549	3,941.20	1,124.72	537.65	1,922,046.51	2,748,557.17	36.28224138	-107.74693046
4,300.00	24.58	25.549	4,032.14	1,162.26	555.59	1,922,084.04	2,748,575.12	36.28234443	-107.74686948
4,323.64	24.58	25.549	4,053.63	1,171.13	559.83	1,922,092.91	2,748,579.36	36.28236880	-107.74685506
Point Lookout									
4,400.00	24.58	25.549	4,123.07	1,199.79	573.53	1,922,121.57	2,748,593.06	36.28244749	-107.74680849
4,500.00	24.58	25.549	4,214.01	1,237.32	591.47	1,922,159.10	2,748,611.00	36.28255055	-107.74674750
4,554.70	24.58	25.549	4,263.75	1,257.85	601.29	1,922,179.64	2,748,620.81	36.28260693	-107.74671414
Mancos									
4,600.00	24.58	25.549	4,304.95	1,274.85	609.42	1,922,196.64	2,748,628.94	36.28265361	-107.74668651
4,700.00	24.58	25.549	4,395.88	1,312.38	627.36	1,922,234.17	2,748,646.88	36.28275667	-107.74662552
4,800.00	24.58	25.549	4,486.82	1,349.92	645.30	1,922,271.70	2,748,664.82	36.28285973	-107.74656453
4,900.00	24.58	25.549	4,577.76	1,387.45	663.24	1,922,309.23	2,748,682.76	36.28296279	-107.74650355
4,967.32	24.58	25.549	4,638.97	1,412.71	675.32	1,922,334.50	2,748,694.84	36.28303216	-107.74646249
MNCS_A									
5,000.00	24.58	25.549	4,668.69	1,424.98	681.18	1,922,346.76	2,748,700.71	36.28306584	-107.74644256
5,055.34	24.58	25.549	4,719.02	1,445.75	691.11	1,922,367.53	2,748,710.63	36.28312288	-107.74640881
MNCS_B									
5,100.00	24.58	25.549	4,759.63	1,462.51	699.12	1,922,384.30	2,748,718.65	36.28316890	-107.74638157
5,168.67	24.58	25.549	4,822.08	1,488.29	711.44	1,922,410.07	2,748,730.97	36.28323967	-107.74633969
MNCS_C									
5,197.58	24.58	25.549	4,848.37	1,499.14	716.63	1,922,420.92	2,748,736.15	36.28326947	-107.74632205
Begin 10°/100' build/turn									
5,200.00	24.61	24.973	4,850.56	1,500.05	717.06	1,922,421.83	2,748,736.58	36.28327197	-107.74632059
5,217.11	24.90	20.944	4,866.10	1,506.64	719.85	1,922,428.42	2,748,739.38	36.28329008	-107.74631110
MNCS_Cms									
5,250.00	25.74	13.506	4,895.84	1,520.06	724.00	1,922,441.84	2,748,743.52	36.28332692	-107.74629700
5,300.00	27.69	3.240	4,940.53	1,542.23	727.19	1,922,464.01	2,748,746.72	36.28338781	-107.74628609
5,344.18	29.95	355.364	4,979.24	1,563.48	726.88	1,922,485.26	2,748,746.40	36.28344619	-107.74628708
MNCS_D									
5,350.00	30.28	354.410	4,984.28	1,566.39	726.62	1,922,488.17	2,748,746.14	36.28345418	-107.74628796
5,400.00	33.39	346.964	5,026.77	1,592.35	722.29	1,922,514.14	2,748,741.81	36.28352552	-107.74630258
5,450.00	36.86	340.709	5,067.67	1,619.93	714.22	1,922,541.71	2,748,733.75	36.28360130	-107.74632986
5,488.04	39.70	336.612	5,097.53	1,641.85	705.63	1,922,563.64	2,748,725.15	36.28366155	-107.74635895
MNCS_E									
5,500.00	40.62	335.425	5,106.67	1,648.90	702.49	1,922,570.69	2,748,722.02	36.28368092	-107.74636957
5,550.00	44.58	330.911	5,143.48	1,679.06	687.18	1,922,600.84	2,748,706.71	36.28376379	-107.74642142
5,582.04	47.20	328.343	5,165.79	1,698.89	675.54	1,922,620.68	2,748,695.07	36.28381832	-107.74646086
MNCS_F									
5,600.00	48.69	326.999	5,177.81	1,710.16	668.41	1,922,631.94	2,748,687.94	36.28384928	-107.74648502
5,650.00	52.92	323.559	5,209.41	1,741.97	646.32	1,922,663.76	2,748,665.85	36.28393673	-107.74655987
5,700.00	57.24	320.486	5,238.03	1,774.26	621.08	1,922,696.04	2,748,640.61	36.28402548	-107.74664541

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
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Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,713.50	58.42	319.708	5,245.22	1,783.03	613.75	1,922,704.81	2,748,633.27	36.28404959	-107.74667027
MNCS_G									
5,750.00	61.63	317.700	5,263.45	1,806.77	592.88	1,922,728.55	2,748,612.41	36.28411486	-107.74674099
5,800.00	66.07	315.137	5,285.48	1,839.26	561.94	1,922,761.04	2,748,581.46	36.28420418	-107.74684589
5,818.14	67.69	314.252	5,292.61	1,850.99	550.08	1,922,772.77	2,748,569.61	36.28423643	-107.74688609
MNCS_H									
5,843.89	70.00	313.030	5,301.90	1,867.56	532.70	1,922,789.34	2,748,552.22	36.28428200	-107.74694501
POE Begin 10°/100' build									
5,850.00	70.61	313.030	5,303.96	1,871.48	528.50	1,922,793.27	2,748,548.02	36.28429279	-107.74695926
5,889.93	74.60	313.029	5,315.89	1,897.48	500.65	1,922,819.26	2,748,520.18	36.28436427	-107.74705366
MNCS_I									
5,900.00	75.61	313.029	5,318.48	1,904.12	493.53	1,922,825.90	2,748,513.06	36.28438253	-107.74707779
5,943.89	80.00	313.028	5,327.75	1,933.39	462.18	1,922,855.17	2,748,481.71	36.28446301	-107.74718408
7" Intermediate Casing									
5,950.00	80.61	313.028	5,328.78	1,937.50	457.78	1,922,859.28	2,748,477.30	36.28447431	-107.74719901
6,000.00	85.61	313.027	5,334.77	1,971.36	421.50	1,922,893.14	2,748,441.03	36.28456741	-107.74732199
6,041.53	89.76	313.027	5,336.45	1,999.66	391.18	1,922,921.45	2,748,410.70	36.28464525	-107.74742481
Begin 89.76° lateral									
6,100.00	89.76	313.027	5,336.69	2,039.56	348.43	1,922,961.34	2,748,367.96	36.28475495	-107.74756972
6,200.00	89.76	313.027	5,337.10	2,107.79	275.33	1,923,029.58	2,748,294.85	36.28494257	-107.74781756
6,300.00	89.76	313.027	5,337.52	2,176.03	202.22	1,923,097.81	2,748,221.75	36.28513019	-107.74806540
6,400.00	89.76	313.027	5,337.93	2,244.26	129.12	1,923,166.04	2,748,148.65	36.28531780	-107.74831324
6,500.00	89.76	313.027	5,338.34	2,312.49	56.02	1,923,234.28	2,748,075.54	36.28550542	-107.74856108
6,600.00	89.76	313.027	5,338.75	2,380.73	-17.08	1,923,302.51	2,748,002.44	36.28569304	-107.74880892
6,700.00	89.76	313.027	5,339.17	2,448.96	-90.19	1,923,370.74	2,747,929.34	36.28588065	-107.74905676
6,800.00	89.76	313.027	5,339.58	2,517.19	-163.29	1,923,438.98	2,747,856.24	36.28606827	-107.74930461
6,900.00	89.76	313.027	5,339.99	2,585.43	-236.39	1,923,507.21	2,747,783.13	36.28625588	-107.74955245
7,000.00	89.76	313.027	5,340.40	2,653.66	-309.50	1,923,575.44	2,747,710.03	36.28644349	-107.74980030
7,100.00	89.76	313.027	5,340.82	2,721.89	-382.60	1,923,643.68	2,747,636.93	36.28663111	-107.75004814
7,200.00	89.76	313.027	5,341.23	2,790.13	-455.70	1,923,711.91	2,747,563.82	36.28681872	-107.75029599
7,300.00	89.76	313.027	5,341.64	2,858.36	-528.81	1,923,780.14	2,747,490.72	36.28700633	-107.75054384
7,400.00	89.76	313.027	5,342.05	2,926.59	-601.91	1,923,848.37	2,747,417.62	36.28719394	-107.75079169
7,500.00	89.76	313.027	5,342.47	2,994.83	-675.01	1,923,916.61	2,747,344.51	36.28738156	-107.75103955
7,600.00	89.76	313.027	5,342.88	3,063.06	-748.12	1,923,984.84	2,747,271.41	36.28756917	-107.75128740
7,700.00	89.76	313.027	5,343.29	3,131.29	-821.22	1,924,053.07	2,747,198.31	36.28775678	-107.75153525
7,800.00	89.76	313.027	5,343.70	3,199.53	-894.32	1,924,121.31	2,747,125.21	36.28794439	-107.75178311
7,900.00	89.76	313.027	5,344.12	3,267.76	-967.42	1,924,189.54	2,747,052.10	36.28813200	-107.75203097
8,000.00	89.76	313.027	5,344.53	3,335.99	-1,040.53	1,924,257.77	2,746,979.00	36.28831961	-107.75227883
8,100.00	89.76	313.027	5,344.94	3,404.23	-1,113.63	1,924,326.01	2,746,905.90	36.28850721	-107.75252669
8,200.00	89.76	313.027	5,345.35	3,472.46	-1,186.73	1,924,394.24	2,746,832.79	36.28869482	-107.75277455
8,300.00	89.76	313.027	5,345.77	3,540.69	-1,259.84	1,924,462.47	2,746,759.69	36.28888243	-107.75302241
8,400.00	89.76	313.027	5,346.18	3,608.93	-1,332.94	1,924,530.71	2,746,686.59	36.28907003	-107.75327027
8,500.00	89.76	313.027	5,346.59	3,677.16	-1,406.04	1,924,598.94	2,746,613.49	36.28925764	-107.75351813
8,600.00	89.76	313.027	5,347.00	3,745.39	-1,479.15	1,924,667.17	2,746,540.38	36.28944525	-107.75376600
8,700.00	89.76	313.027	5,347.42	3,813.63	-1,552.25	1,924,735.40	2,746,467.28	36.28963285	-107.75401387
8,800.00	89.76	313.027	5,347.83	3,881.86	-1,625.35	1,924,803.64	2,746,394.18	36.28982046	-107.75426173
8,900.00	89.76	313.027	5,348.24	3,950.09	-1,698.46	1,924,871.87	2,746,321.07	36.29000806	-107.75450960
9,000.00	89.76	313.027	5,348.65	4,018.32	-1,771.56	1,924,940.10	2,746,247.97	36.29019566	-107.75475747
9,100.00	89.76	313.027	5,349.07	4,086.56	-1,844.66	1,925,008.34	2,746,174.87	36.29038327	-107.75500534
9,200.00	89.76	313.027	5,349.48	4,154.79	-1,917.76	1,925,076.57	2,746,101.76	36.29057087	-107.75525322
9,300.00	89.76	313.027	5,349.89	4,223.02	-1,990.87	1,925,144.80	2,746,028.66	36.29075847	-107.75550109
9,400.00	89.76	313.027	5,350.30	4,291.26	-2,063.97	1,925,213.04	2,745,955.56	36.29094607	-107.75574897
9,500.00	89.76	313.027	5,350.72	4,359.49	-2,137.07	1,925,281.27	2,745,882.46	36.29113367	-107.75599684
9,600.00	89.76	313.027	5,351.13	4,427.72	-2,210.18	1,925,349.50	2,745,809.35	36.29132127	-107.75624472

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,700.00	89.76	313.027	5,351.54	4,495.96	-2,283.28	1,925,417.74	2,745,736.25	36.29150887	-107.75649260
9,800.00	89.76	313.027	5,351.95	4,564.19	-2,356.38	1,925,485.97	2,745,663.15	36.29169647	-107.75674048
9,900.00	89.76	313.027	5,352.37	4,632.42	-2,429.49	1,925,554.20	2,745,590.04	36.29188407	-107.75698836
10,000.00	89.76	313.027	5,352.78	4,700.66	-2,502.59	1,925,622.43	2,745,516.94	36.29207167	-107.75723624
10,100.00	89.76	313.027	5,353.19	4,768.89	-2,575.69	1,925,690.67	2,745,443.84	36.29225927	-107.75748412
10,200.00	89.76	313.027	5,353.60	4,837.12	-2,648.80	1,925,758.90	2,745,370.74	36.29244687	-107.75773201
10,300.00	89.76	313.027	5,354.02	4,905.36	-2,721.90	1,925,827.13	2,745,297.63	36.29263446	-107.75797989
10,400.00	89.76	313.027	5,354.43	4,973.59	-2,795.00	1,925,895.37	2,745,224.53	36.29282206	-107.75822778
10,500.00	89.76	313.027	5,354.84	5,041.82	-2,868.10	1,925,963.60	2,745,151.43	36.29300965	-107.75847567
10,600.00	89.76	313.027	5,355.25	5,110.06	-2,941.21	1,926,031.83	2,745,078.32	36.29319725	-107.75872356
10,700.00	89.76	313.027	5,355.67	5,178.29	-3,014.31	1,926,100.07	2,745,005.22	36.29338484	-107.75897145
10,800.00	89.76	313.027	5,356.08	5,246.52	-3,087.41	1,926,168.30	2,744,932.12	36.29357244	-107.75921934
10,900.00	89.76	313.027	5,356.49	5,314.76	-3,160.52	1,926,236.53	2,744,859.02	36.29376003	-107.75946723
11,000.00	89.76	313.027	5,356.90	5,382.99	-3,233.62	1,926,304.77	2,744,785.91	36.29394763	-107.75971512
11,100.00	89.76	313.027	5,357.32	5,451.22	-3,306.72	1,926,373.00	2,744,712.81	36.29413522	-107.75996302
11,200.00	89.76	313.027	5,357.73	5,519.46	-3,379.83	1,926,441.23	2,744,639.71	36.29432281	-107.76021092
11,300.00	89.76	313.027	5,358.14	5,587.69	-3,452.93	1,926,509.46	2,744,566.60	36.29451040	-107.76045881
11,400.00	89.76	313.027	5,358.55	5,655.92	-3,526.03	1,926,577.70	2,744,493.50	36.29469799	-107.76070671
11,500.00	89.76	313.027	5,358.97	5,724.16	-3,599.14	1,926,645.93	2,744,420.40	36.29488558	-107.76095461
11,600.00	89.76	313.027	5,359.38	5,792.39	-3,672.24	1,926,714.16	2,744,347.29	36.29507317	-107.76120251
11,700.00	89.76	313.027	5,359.79	5,860.62	-3,745.34	1,926,782.40	2,744,274.19	36.29526076	-107.76145041
11,800.00	89.76	313.027	5,360.20	5,928.85	-3,818.44	1,926,850.63	2,744,201.09	36.29544835	-107.76169832
11,900.00	89.76	313.027	5,360.62	5,997.09	-3,891.55	1,926,918.86	2,744,127.99	36.29563594	-107.76194622
12,000.00	89.76	313.027	5,361.03	6,065.32	-3,964.65	1,926,987.10	2,744,054.88	36.29582353	-107.76219413
12,100.00	89.76	313.027	5,361.44	6,133.55	-4,037.75	1,927,055.33	2,743,981.78	36.29601112	-107.76244203
12,200.00	89.76	313.027	5,361.85	6,201.79	-4,110.86	1,927,123.56	2,743,908.68	36.29619870	-107.76268994
12,300.00	89.76	313.027	5,362.27	6,270.02	-4,183.96	1,927,191.80	2,743,835.57	36.29638629	-107.76293785
12,400.00	89.76	313.027	5,362.68	6,338.25	-4,257.06	1,927,260.03	2,743,762.47	36.29657388	-107.76318576
12,500.00	89.76	313.027	5,363.09	6,406.49	-4,330.17	1,927,328.26	2,743,689.37	36.29676146	-107.76343367
12,600.00	89.76	313.027	5,363.50	6,474.72	-4,403.27	1,927,396.49	2,743,616.27	36.29694905	-107.76368159
12,700.00	89.76	313.027	5,363.92	6,542.95	-4,476.37	1,927,464.73	2,743,543.16	36.29713663	-107.76392950
12,800.00	89.76	313.027	5,364.33	6,611.19	-4,549.48	1,927,532.96	2,743,470.06	36.29732421	-107.76417742
12,900.00	89.76	313.027	5,364.74	6,679.42	-4,622.58	1,927,601.19	2,743,396.96	36.29751180	-107.76442533
13,000.00	89.76	313.027	5,365.16	6,747.65	-4,695.68	1,927,669.43	2,743,323.85	36.29769938	-107.76467325
13,100.00	89.76	313.027	5,365.57	6,815.89	-4,768.78	1,927,737.66	2,743,250.75	36.29788696	-107.76492117
13,200.00	89.76	313.027	5,365.98	6,884.12	-4,841.89	1,927,805.89	2,743,177.65	36.29807454	-107.76516909
13,300.00	89.76	313.027	5,366.39	6,952.35	-4,914.99	1,927,874.13	2,743,104.55	36.29826213	-107.76541701
13,400.00	89.76	313.027	5,366.81	7,020.59	-4,988.09	1,927,942.36	2,743,031.44	36.29844971	-107.76566493
13,500.00	89.76	313.027	5,367.22	7,088.82	-5,061.20	1,928,010.59	2,742,958.34	36.29863729	-107.76591286
13,600.00	89.76	313.027	5,367.63	7,157.05	-5,134.30	1,928,078.83	2,742,885.24	36.29882487	-107.76616078
13,689.63	89.76	313.027	5,368.00	7,218.21	-5,199.82	1,928,139.99	2,742,819.71	36.29899300	-107.76638300
PBHL @ 13689.63 MD 5368.00 TVD									

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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 211H 0 VS	0.00	0.000	5,332.00	1,263.70	1,179.65	1,922,185.48	2,749,199.17	36.28262156	-107.74475177
- plan misses target center by 640.59ft at 5400.00ft MD (5026.77 TVD, 1592.35 N, 722.29 E)									
- Point									
Nageezi 211H PPP/POE	0.00	0.000	5,332.00	1,867.56	532.70	1,922,789.34	2,748,552.23	36.28428200	-107.74694500
- plan misses target center by 28.39ft at 5852.89ft MD (5304.91 TVD, 1873.35 N, 526.50 E)									
- Point									
Nageezi 211H BHL 240[illegible]	0.00	0.000	5,368.00	7,218.21	-5,199.82	1,928,139.99	2,742,819.71	36.29899300	-107.76638300
- plan hits target center									
- Point									

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
5,943.89	5,327.75	7" Intermediate Casing	7	8-1/2

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
835.00	835.00	Ojo Alamo		0.24	313.030
963.21	963.01	Kirtland		0.24	313.030
1,244.05	1,240.06	Fruitland		0.24	313.030
1,607.01	1,583.21	Pictured Cliffs		0.24	313.030
1,735.73	1,700.28	Lewis		0.24	313.030
2,047.12	1,983.44	Chacra_A		0.24	313.030
3,232.14	3,061.06	Cliff House_Basal		0.24	313.030
3,265.15	3,091.08	Menefee		0.24	313.030
4,323.64	4,053.63	Point Lookout		0.24	313.030
4,554.70	4,263.75	Mancos		0.24	313.030
4,967.32	4,638.97	MNCS_A		0.24	313.030
5,055.34	4,719.02	MNCS_B		0.24	313.030
5,168.67	4,822.08	MNCS_C		0.24	313.030
5,217.11	4,866.10	MNCS_Cms		0.24	313.030
5,344.18	4,979.24	MNCS_D		0.24	313.030
5,488.04	5,097.53	MNCS_E		0.24	313.030
5,582.04	5,165.79	MNCS_F		0.24	313.030
5,713.50	5,245.22	MNCS_G		0.24	313.030
5,818.14	5,292.61	MNCS_H		0.24	313.030
5,889.93	5,315.89	MNCS_I		0.24	313.030

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 211H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	**North Reference:**	Grid
Well:	Nageezi Unit 211H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
800.00	800.00	0.00	0.00	KOp Begin 3°/100' build
1,619.41	1,594.50	156.17	74.66	Begin 24.58° tangent
5,197.58	4,848.37	1,499.14	716.63	Begin 10°/100' build/turn
5,843.89	5,301.90	1,867.56	532.70	POE Begin 10°/100' build
6,041.53	5,336.45	1,999.66	391.18	Begin 89.76° lateral
13,689.63	5,368.00	7,218.21	-5,199.82	PBHL @ 13689.63 MD 5368.00 TVD

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 370746

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 370746
	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.	8/22/2024