

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

Sundry Print Reported 04/16/2024

Well Name: NAGEEZI UNIT Well Location: T24N / R9W / SEC 26 / Coun

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: N0G14021898 Unit or CA Name: Unit or CA Number:

NMNM132981A

Notice of Intent

Sundry ID: 2785158

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/15/2024 Time Sundry Submitted: 02:27

Date proposed operation will begin: 04/15/2024

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

213H_Revised__DPR_04.11.24_20240415142710.pdf

Page 1 of 2

eceived by OCD: 4/16/2024 1:26:07 PM Well Name: NAGEEZI UNIT

Well Location: T24N / R9W / SEC 26 /

NWSW / 36.282689 / -107.765308

County or Parish/State: SAN 2 of

JUAN / NM

Well Number: 213H Type of Well: OIL WELL Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G14021898 **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

Signed on: APR 15, 2024 02:27 PM Operator Electronic Signature: SHAW-MARIE FORD

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: 04/16/2024

Signature: Kenneth Rennick

Page 2 of 2

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 213H

API Number: 30-045-38293 State: New Mexico County: San Juan

Surface Elevation: 6,826 ft ASL (GL)

6,851 ft ASL (KB)

Surface Location: 46289 Sec-Twn-Rng 1,798 ft FSL 792 ft FWL

36.282689 O N latitude 107.765308 ○ W longitude (NAD 83) 809 ft FWL **BH Location:** 44828 Sec-Twn-Rng 2,060 ft FSL

> 36.298011 O N latitude 107.782977 OW longitude (NAD 83)

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

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

214H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	6,020	831	831	W	normal
Kirtland	5,895	956	956	W	normal
Fruitland	5,605	1,246	1,246	G, W	sub
Pictured Cliffs	5,260	1,591	1,594	G, W	sub
Lewis	5,150	1,701	1,707	G, W	normal
Chacra	4,851	2,000	2,016	G, W	normal
Cliff House	3,762	3,089	3,140	G, W	sub
Menefee	3,732	3,119	3,171	G, W	normal
Point Lookout	2,792	4,059	4,140	G, W	normal
Mancos	2,590	4,261	4,349	O,G	sub (~0.38)
Gallup (MNCS_A)	2,233	4,618	4,707	O,G	sub (~0.38)
MNCS_B	2,150	4,701	4,790	O,G	sub (~0.38)
MNCS_C	2,045	4,806	4,895	O,G	sub (~0.38)
MNCS_Cms	1,998	4,853	4,943	O,G	sub (~0.38)
MNCS_D	1,880	4,971	5,065	O,G	sub (~0.38)
MNCS_E	1,769	5,082	5,190	O,G	sub (~0.38)
MNCS_F	1,700	5,151	5,279	O,G	sub (~0.38)
MNCS_G	1,621	5,230	5,398	O,G	sub (~0.38)
MNCS_H	1,578	5,273	5,481	O,G	sub (~0.38)
MNCS_I	1,537	5,314	5,596	O,G	sub (~0.38)
FTP TARGET	1,550	5,301	5,551	O,G	sub (~0.38)
PROJECTED TD	1,477	5,374	13,327	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

Released to Imaging: 7/11/2024 9:35:56 AM

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,320 psi
Maximum anticipated surface pressure, assuming partially evacuated hole: 1,140 psi

Temperature: Maximum anticipated BHT is 1250 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.

			FL		YP		
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	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 Space		\A/4 /IL /f4\	Crada	Comm	Callanaa (nai)	Downt (mail	Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(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

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

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

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

8.921

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

			FL		YP		
Fluid:	Type	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	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

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	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
r Capacity	0.16681	cuft/ft	7" casing x 9-5	/8" casing ann	ıulus		Shoe Track L	44

Annular Capacity

0.1503 cuft/ft 9-5/8" casing x 12-1/4" hole annulus 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.

Casing ID

6.276

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

5,651	51 ft (MD) to		13,327	13,327 ft (MD)		ection Length:	7,676 ft
5,326	ft (TVD)	to	5,374	ft (TVD)	Cas	7,826 ft	
	Estimated KOP:			ft (MD)	4,762	ft (TVD)	
	Estimated Liner Top:			ft (MD)	5,281	ft (TVD)	
Es	Estimated Landing Point (FTP):			ft (MD)	5,301	ft (TVD)	
	Estimated Lateral Length:			ft (MD)			

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

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs		11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,655	8,807	233,400	233,400
Min. S.F.					2.85	1.21	1.57	1.65

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.

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	30%	5,501	646	1,007

Displacement 176 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

 S-8 Silica Flour
 Avis 616 viscosifier
 FP24 Defoamer
 Plus 3K LCM 15
 SS201 Surfactant 1

 Spacer
 163.7 lbs/bbl
 11.6 lb/bbl
 lb/bbl
 lb/bbl
 lb/bbl
 gal/bbl

Bentonite IntegraGuard FP24 Defoamer
BA90 Bonding Viscosifier 8% FL24 Fluid Loss .5% GW86 Viscosifier R7C Retarder .2% 0.3% BW0B, Anti-

 Lead/Tail
 ASTM Type I/II
 Agent 5.0 lb/sx
 BWOB
 BWOB
 .1% BWOB
 BWOB
 Static .01 lb/sx

FP24 Defoamer
Bentonite IntegraGuard .3% BWOB,

Pozzolan Fly Ash BA90 Bonding Viscosifier 4% FL24 Fluid Loss .4% GW86 Viscosifier R3 Retarder .5% IntegraSeal 0.25
Type G 50% Extender 50% Agent 3.0 lb/sx BWOB BWOB .1% BWOB BWOB !b/sx

Note: This well will not be considered an unorthodox well location as definted by NMAC19.15.16.15.C.5. As defined in NMAC 19.15.16.15.C.1.a and 19.15.16.15.C.1.b, no point in the completed interval shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth well. The boundaries of the completed interval, as defined by NMAC 19.15.16.7.B, are the last take point and first take point, as defined by NMAC 19.15.16.7.E and NMAC 19.15.16.7.J, respectively. In the case of this well, the last take point will be the bottom toe-initiation sleeve, and the first take point will be the top perforation. Neither the toe-initiation sleeve nor the top perforation shall be closer to the unit boundary than 100' measured along the azimuth of the well or 330' measured perpendicular to the azimuth of the well.

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 7,676

Est Frac Inform: 32 Frac Stages 123,000 bbls slick water 9,980,000 lbs proppant Frac: 39 plug-and-perf stages with 150,000 bbls slickwater fluid and 12,100,000 lbs of proppant (estimated)

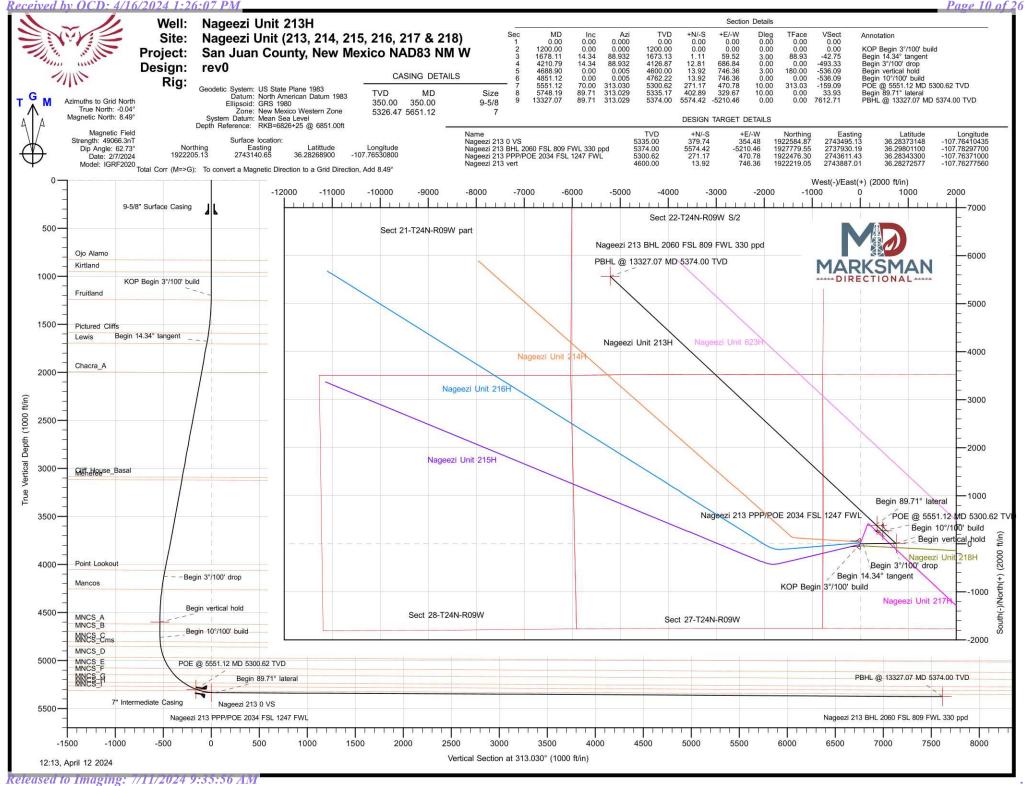
Flowback: Flow back through production tubing as pressures allow

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





Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft

RKB=6826+25 @ 6851.00ft

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

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

System Datum: Mean Sea Level

Nageezi Unit (213, 214, 215, 216, 217 & 218) Site Northing: 1,922,205.14 usft 36.28268900 Site Position: Latitude: 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 +N/-S 0.00 ft 1,922,205.14 usft 36.28268900 **Well Position** Northing: Latitude: 2,743,140.65 usft -107.76530800 +E/-W 0.00 ft Easting: Longitude: **Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 6,826.00 ft 0.04° **Grid Convergence:**

Wellbore Original Hole Declination Field Strength Magnetics **Model Name** Sample Date Dip Angle (°) (°) (nT) IGRF2020 49,066.26707429 2/7/2024 8.53 62.73

Design rev0 Audit Notes: Version: **PLAN** Tie On Depth: 0.00 Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 313.030 0.00 0.00

4/12/2024 **Plan Survey Tool Program** Date **Depth From** Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 13,327.07 rev0 (Original Hole) MWD 1 OWSG MWD - Standard



Database: DT_Mar1724_v17

Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

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	313.029	5,335.17	402.89	329.67	10.00	10.00	0.00	0.00	
13,327.07	89.71	313.029	5,374.00	5,574.42	-5,210.46	0.00	0.00	0.00	0.00	Nageezi 213 BHL 20



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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" Surfa	ice 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	0.00	0.000	001.00	0.00	0.00	0.00	0.00	0.00	0.00
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
45000000000000000000000000000000000000	3°/100' build	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,246.00	1.38	88.932	1,246.00	0.01	0.55	-0.40	3.00	3.00	0.00
Fruitland	1.00	00.002	1,210.00	0.01	0.00	0.10	0.00	0.00	0.00
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
			W						
1,593.63	11.81	88.932	1,590.85	0.75	40.41	-29.03	3.00	3.00	0.00
Pictured Cli 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
		00.332	1,073.13	1.11	33.32	-42.73	5.00	5.00	0.00
Begin 14.34		00 022	1 604 24	1.21	64.94	46 GE	0.00	0.00	0.00
1,700.00 1,706.62	14.34 14.34	88.932 88.932	1,694.34 1,700.76	1.21	66.59	-46.65 -47.83	0.00	0.00	0.00
Lewis	14.54	00.932	1,700.70	1.24	00.59	-47.05	0.00	0.00	0.00
	4404	00.000	4 704 00	4.07	00.74	01.11	0.00	0.00	0.00
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
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			were allegered (1995) it is the first of						
3,170.95	14.34	88.932	3,119.44	8.01	429.28	-308.34	0.00	0.00	0.00
Menefee									



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

anned 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 3,300.00 3,400.00	14.34 14.34 14.34	88.932 88.932 88.932	3,147.58 3,244.47 3,341.35	8.14 8.60 9.06	436.48 461.25 486.01	-313.51 -331.30 -349.09	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,500.00 3,600.00 3,700.00 3,800.00 3,900.00	14.34 14.34 14.34 14.34	88.932 88.932 88.932 88.932	3,438.23 3,535.11 3,632.00 3,728.88 3,825.76	9.53 9.99 10.45 10.91 11.37	510.78 535.55 560.32 585.09 609.86	-366.88 -384.67 -402.46 -420.25 -438.04	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
4,000.00 4,100.00 4,140.29	14.34 14.34 14.34	88.932 88.932 88.932	3,922.65 4,019.53 4,058.57	11.84 12.30 12.48	634.63 659.40 669.38	-455.83 -473.62 -480.79	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Point Looko		00.000	4.440.44	40.70	004.40	204.44	0.00	0.00	0.00
4,200.00 4,210.79	14.34 14.34	88.932 88.932	4,116.41 4,126.87	12.76 12.81	684.16 686.84	-491.41 -493.33	0.00	0.00	0.00
Begin 3°/100			53 6 55.025785578						
4,300.00 4,348.50	11.67 10.21	88.932 88.932	4,213.78 4,261.40	13.18 13.36	706.91 716.11	-507.75 -514.36	3.00 3.00	-3.00 -3.00	0.00 0.00
Mancos 4,400.00 4,500.00 4,600.00	8.67 5.67 2.67	88.932 88.932 88.932	4,312.20 4,411.40 4,511.13	13.51 13.75 13.88	724.55 737.03 744.29	-520.43 -529.38 -534.60	3.00 3.00 3.00	-3.00 -3.00 -3.00	0.00 0.00 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 vertica		2.2.22	222102			4256-725 (2512)	2.22	2,12,21	2022
4,700.00 4,707.19	0.00	0.000	4,611.10 4,618.29	13.92 13.92	746.36 746.36	-536.09 -536.09	0.00	0.00	0.00 0.00
MNCS_A 4,790.19 MNCS B	0.00	0.000	4,701.29	13.92	746.36	-536.09	0.00	0.00	0.00
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°/10 4,895.24	0' build 4.41	313.030	4,806.30	15.08	745.12	-534.39	10.00	10.00	0.00
MNCS_C 4,900.00 4,942.62	4.89 9.15	313.030 313.030	4,811.04 4,853.32	15.34 18.89	744.84 741.03	-534.00 -528.80	10.00 10.00	10.00 10.00	0.00
MNCS_Cms	0.00	0.40.000	4 000 04	40.70	71011	507.50	10.00	40.00	0.00
4,950.00 5,000.00	9.89 14.89	313.030 313.030	4,860.61 4,909.43	19.73 27.04	740.14 732.30	-527.58 -516.85	10.00	10.00	0.00
5,050.00 5,065.35 MNCS D	19.89 21.42	313.030 313.030	4,957.13 4,971.49	37.24 40.93	721.38 717.42	-501.92 -496.50	10.00 10.00	10.00 10.00	0.00 0.00
5,100.00 5,150.00	24.89 29.89	313.030 313.030	5,003.34 5,047.73	50.23 65.92	707.47 690.66	-482.88 -459.89	10.00 10.00	10.00 10.00	0.00 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 5,250.00 5,278.50	34.89 39.89 42.74	313.030 313.030 313.030	5,089.93 5,129.65 5,151.06	84.19 104.90 117.74	671.09 648.90 635.15	-433.11 -402.76 -383.95	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
MNCS_F			-,						3.00
5,300.00 5,350.00	44.89 49.89	313.030 313.030	5,166.57 5,200.41	127.89 152.99	624.27 597.38	-369.07 -332.28	10.00 10.00	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



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

	10.0								
ed Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
MN00 0									
5,400.00 5,450.00 5,481.44	59.89	313.030 313.030 313.030	5,230.91 5,257.85 5,272.87	180.01 208.74 227.59	568.43 537.66 517.47	-292.68 -250.58 -222.97	10.00 10.00 10.00	10.00 10.00 10.00	0.00 0.00 0.00
MNCS_H									
5,500.00 5,551.12		313.030 313.030	5,281.02 5,300.62	238.97 271.17	505.28 470.78	-206.29 -159.09	10.00 10.00	10.00 10.00	0.00
POE @ 55	51.12 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		1211221121121				3 D D D D D D D D D D D D D D D D D D D			220.202
5,600.00 5,650.00		313.030 313.030	5,315.36 5,326.28	302.96 336.25	436.72 401.07	-112.51 -63.73	10.00 10.00	10.00 10.00	0.00
5,651.12	2 80.00	313.030	5,326.47	337.00	400.26	-62.63	10.00	10.00	0.00
	ediate Casing		92 4 20,5040,0044						
5,700.00		313.029	5,332.90	370.06	364.85	-14.19	10.00	10.00	0.00
5,748.19		313.029	5,335.17	402.89	329.67	33.93	10.00	10.00	0.00
Begin 89.7	71° lateral								
5,800.00	89.71	313.029	5,335.44	438.25	291.80	85.75	0.00	0.00	0.00
5,900.00		313.029	5,335.95	506.48	218.70	185.74	0.00	0.00	0.00
6,000.00		313.029	5,336.46	574.72	145.60	285.74	0.00	0.00	0.00
6,100.00		313.029	5,336.97	642.95	72.50	385.74	0.00	0.00	0.00
6,200.00		313.029 313.029	5,337.49 5,338.00	711.19 779.43	-0.60 -73.70	485.74 585.74	0.00	0.00	0.00
6,300.00 6,400.00		313.029	5,338.51	847.66	-146.80	685.74	0.00	0.00	0.00
6,500.00		313.029	5,339.02	915.90	-219.90	785.74	0.00	0.00	0.00
6,600.00		313.029	5,339.53	984.14	-293.00	885.74	0.00	0.00	0.00
6,700.00		313.029	5,340.05	1,052.37	-366.10	985.73 1,085.73	0.00	0.00	0.00
6,800.00 6,900.00		313.029 313.029	5,340.56 5,341.07	1,120.61 1,188.84	-439.20 -512.30	1,185.73	0.00	0.00	0.00
7,000.00		313.029	5,341.58	1,257.08	-585.40	1,285.73	0.00	0.00	0.00
7,100.00		313.029	5,342.10	1,325.32	-658.50	1,385.73	0.00	0.00	0.00
7,200.00		313.029	5,342.61	1,393.55	-731.60	1,485.73	0.00	0.00	0.00
7,300.00		313.029	5,343.12 5,343.63	1,461.79 1,530.02	-804.70 -877.80	1,585.73 1,685.73	0.00	0.00 0.00	0.00
7,400.00		313.029							0.00
7,500.00		313.029	5,344.15	1,598.26	-950.90	1,785.72	0.00	0.00	0.00
7,600.00		313.029	5,344.66	1,666.50	-1,024.00	1,885.72	0.00	0.00	0.00
7,700.00		313.029	5,345.17	1,734.73	-1,097.09	1,985.72	0.00	0.00	0.00
7,800.00 7,900.00		313.029 313.029	5,345.68 5,346.20	1,802.97 1,871.20	-1,170.19 -1,243.29	2,085.72 2,185.72	0.00	0.00	0.00
8,000.00		313.029	5,346.71	1,939.44	-1,316.39	2,285.72	0.00	0.00	0.00
8,100.00		313.029	5,340.71	2,007.68	-1,316.39	2,265.72	0.00	0.00	0.00
8,200.00		313.029	5,347.73	2,075.91	-1,462.59	2,485.71	0.00	0.00	0.00
8,300.00		313.029	5,348.24	2,144.15	-1,535.69	2,585.71	0.00	0.00	0.00
8,400.00		313.029	5,348.76	2,212.39	-1,608.79	2,685.71	0.00	0.00	0.00
8,500.00	89.71	313.029	5,349.27	2,280.62	-1,681.89	2,785.71	0.00	0.00	0.00
8,600.00		313.029	5,349.78	2,348.86	-1,754.99	2,885.71	0.00	0.00	0.00
8,700.00		313.029	5,350.29	2,417.09	-1,828.09	2,985.71	0.00	0.00	0.00
8,800.00		313.029	5,350.81	2,485.33	-1,901.19	3,085.71	0.00	0.00	0.00
8,900.00		313.029	5,351.32	2,553.57	-1,974.29	3,185.71	0.00	0.00	0.00
9,000.00	89.71	313.029	5,351.83	2,621.80	-2,047.39	3,285.70	0.00	0.00	0.00
9,100.00		313.029	5,352.34	2,690.04	-2,120.49	3,385.70	0.00	0.00	0.00
9,200.00		313.029	5,352.86	2,758.27	-2,193.59	3,485.70	0.00	0.00	0.00
9,300.00		313.029	5,353.37	2,826.51	-2,266.69	3,585.70	0.00	0.00	0.00



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

Measured Depth (ft)	Inclination (°)	Azimuth	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,400.00	89.71	313.029	5,353.88	2,894.75	-2,339.79	3,685.70	0.00	0.00	0.00
9,500.00	89.71	313.029	5,354.39	2,962.98	-2,412.89	3,785.70	0.00	0.00	0.00
9,600.00	89.71	313.029	5,354.90	3,031.22	-2,485.99	3,885.70	0.00	0.00	0.00
9,700.00	89.71	313.029	5,355.42	3,099.46	-2,559.09	3,985.70	0.00	0.00	0.00
9,800.00	89.71	313.029	5,355.93	3,167.69	-2,632.19	4,085.69	0.00	0.00	0.00
9,900.00	89.71	313.029	5,356.44	3,235.93	-2,705.29	4,185.69	0.00	0.00	0.00
10,000.00	89.71	313.029	5,356.95	3,304.16	-2,778.39	4,285.69	0.00	0.00	0.00
10,100.00	89.71	313.029	5,357.47	3,372.40	-2,851.49	4,385.69	0.00	0.00	0.00
10,200.00	89.71	313.029	5,357.98	3,440.64	-2,924.59	4,485.69	0.00	0.00	0.00
10,300.00	89.71	313.029	5,358.49	3,508.87	-2,997.69	4,585.69	0.00	0.00	0.00
10,400.00	89.71	313.029	5,359.00	3,577.11	-3,070.79	4,685.69	0.00	0.00	0.00
10,500.00	89.71	313.029	5,359.52	3,645.34	-3,143.89	4,785.68	0.00	0.00	0.00
10,600.00	89.71	313.029	5,360.03	3,713.58	-3,216.99	4,885.68	0.00	0.00	0.00
10,700.00	89.71	313.029	5,360.54	3,781.82	-3,290.09	4,985.68	0.00	0.00	0.00
10,800.00	89.71	313.029	5,361.05	3,850.05	-3,363.19	5,085.68	0.00	0.00	0.00
10,900.00	89.71	313.029	5,361.57	3,918.29	-3,436.29	5,185.68	0.00	0.00	0.00
11,000.00	89.71	313.029	5,362.08	3,986.52	-3,509.39	5,285.68	0.00	0.00	0.00
11,100.00	89.71	313.029	5,362.59	4,054.76	-3,582.49	5,385.68	0.00	0.00	0.00
11,200.00	89.71	313.029	5,363.10	4,123.00	-3,655.58	5,485.68	0.00	0.00	0.00
11,300.00	89.71	313.029	5,363.61	4,191.23	-3,728.68	5,585.67	0.00	0.00	0.00
11,400.00	89.71	313.029	5,364.13	4,259.47	-3,801.78	5,685.67	0.00	0.00	0.00
11,500.00	89.71	313.029	5,364.64	4,327.71	-3,874.88	5,785.67	0.00	0.00	0.00
11,600.00	89.71	313.029	5,365.15	4,395.94	-3,947.98	5,885.67	0.00	0.00	0.00
11,700.00	89.71	313.029	5,365.66	4,464.18	-4,021.08	5,985.67	0.00	0.00	0.00
11,800.00	89.71	313.029	5,366.18	4,532.41	-4,094.18	6,085.67	0.00	0.00	0.00
11,900.00	89.71	313.029	5,366.69	4,600.65	-4,167.28	6,185.67	0.00	0.00	0.00
12,000.00	89.71	313.029	5,367.20	4,668.89	-4,240.38	6,285.67	0.00	0.00	0.00
12,100.00	89.71	313.029	5,367.71	4,737.12	-4,313.48	6,385.66	0.00	0.00	0.00
12,200.00	89.71	313.029	5,368.23	4,805.36	-4,386.58	6,485.66	0.00	0.00	0.00
12,300.00	89.71	313.029	5,368.74	4,873.59	-4,459.68	6,585.66	0.00	0.00	0.00
12,400.00	89.71	313.029	5,369.25	4,941.83	-4,532.78	6,685.66	0.00	0.00	0.00
12,500.00	89.71	313.029	5,369.76	5,010.07	-4,605.88	6,785.66	0.00	0.00	0.00
12,600.00	89.71	313.029	5,370.28	5,078.30	-4,678.98	6,885.66	0.00	0.00	0.00
12,700.00	89.71	313.029	5,370.79	5,146.54	-4,752.08	6,985.66	0.00	0.00	0.00
12,800.00	89.71	313.029	5,371.30	5,214.78	-4,825.18	7,085.65	0.00	0.00	0.00
12,900.00	89.71	313.029	5,371.81	5,283.01	-4,898.28	7,185.65	0.00	0.00	0.00
13,000.00	89.71	313.029	5,372.32	5,351.25	-4,971.38	7,285.65	0.00	0.00	0.00
13,100.00	89.71	313.029	5,372.84	5,419.48	-5,044.48	7,385.65	0.00	0.00	0.00
13,200.00	89.71	313.029	5,373.35	5,487.72	-5,117.58	7,485.65	0.00	0.00	0.00
13,300.00	89.71	313.029	5,373.86	5,555.96	-5,190.68	7,585.65	0.00	0.00	0.00
13,327.07	89.71	313.029	5,374.00	5,574.42	-5,210.46	7,612.71	0.00	0.00	0.00

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



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

mations							
	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	

n Annotations					
Measured	Vertical	Local Coor	dinates		
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
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	
13,327.07	5,374.00	5,574.42	-5,210.46	PBHL @ 13327.07 MD 5374.00 TVD	



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft

RKB=6826+25 @ 6851.00ft

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

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

System Datum: Mean Sea Level

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

 +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 rev0

Audit Notes:

Version:Phase:PLANTie On Depth:0.00

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

 (ft)
 (ft)
 (ft)
 (°)

 0.00
 0.00
 0.00
 313.030

Plan Survey Tool Program Date 4/12/2024

Depth From Depth To

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

1 0.00 13,327.07 rev0 (Original Hole) MWD

OWSG MWD - Standard



DT_Mar1724_v17 Database: Company:

Enduring Resources LLC

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

Well: Nageezi Unit 213H Original Hole Wellbore: Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Measured			Vertical		.=	Dogleg	Build	Turn		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Rate (°/100ft)	Rate (°/100ft)	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	313.029	5,335.17	402.89	329.67	10.00	10.00	0.00	0.00	
13,327.07	89.71	313.029	5,374.00	5,574.42	-5,210.46	0.00	0.00	0.00	0.00	Nageezi 213 BHL 2



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

ed Survey									
easured 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" Su	rface 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 Alam									
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
_	in 3°/100' bui								
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				22.72.2	11/22				
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
	.34° tangent			14124					
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	4404	20.000	4 704 00	4.07	00.74	4 000 000 04	0.740.000.00	00 00000010	107 7050001
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 2,743,279.90	36.28269464	-107.76491957
2,000.00 2,015.99	14.34 14.34	88.932 88.932	1,984.99 2,000.48	2.60 2.67	139.25 143.21	1,922,207.73 1,922,207.81	2,743,279.90	36.28269587 36.28269606	-107.76483553 -107.76482209
		00.932	2,000.48	2.07	143.21	1,922,207.01	2,743,203.00	30.20209000	-107.70402209
Chacra_/		00.022	2 004 07	2.06	164.02	4 000 000 40	2 742 204 67	26 20260700	107 76475140
2,100.00	14.34 14.34	88.932 88.932	2,081.87 2,178.75	3.06 3.52	164.02 188.79	1,922,208.19 1,922,208.66	2,743,304.67 2,743,329.44	36.28269709 36.28269831	-107.76475149 -107.76466745
2,300.00	14.34	88.932	2,176.73	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
	se 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									



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

Planned Survey	′								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
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		88.932	3,438.23	9.53	510.78	1,922,214.66	2,743,651.43	36.28271417	-107.76357492
3,600.00		88.932	3,535.11	9.99	535.55	1,922,215.12	2,743,676.20	36.28271539	-107.76349088
3,700.00		88.932	3,632.00	10.45	560.32	1,922,215.59	2,743,700.97	36.28271661	-107.76340684
3,800.00		88.932	3,728.88	10.91	585.09	1,922,216.05	2,743,725.74	36.28271783	-107.76332280
3,900.00		88.932 88.932	3,825.76	11.37	609.86 634.63	1,922,216.51	2,743,750.51	36.28271905	-107.76323876
4,000.00 4,100.00		88.932	3,922.65 4,019.53	11.84 12.30	659.40	1,922,216.97 1,922,217.43	2,743,775.27 2,743,800.04	36.28272027 36.28272149	-107.76315472 -107.76307068
4,140.29		88.932	4,019.53	12.48	669.38	1,922,217.43	2,743,810.02	36.28272198	-107.76307688
		00.932	4,056.57	12.40	009.30	1,922,217.02	2,743,610.02	30.20272190	-107.70303002
4,200.00		88.932	4,116.41	12.76	684.16	1,922,217.90	2,743,824.81	36.28272271	-107.76298664
4,210.79		88.932	4,126.87	12.70	686.84	1,922,217.95	2,743,827.49	36.28272284	-107.76297757
2000-0000000000000000000000000000000000	7/100' drop	55.002	., .20.01	,2.01	550.04	1,022,217.00	2,1 10,027.10	55.25E1220-7	.50201101
4,300.00		88.932	4,213.78	13.18	706.91	1,922,218.32	2,743,847.56	36.28272383	-107.76290947
4,348.50		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		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 ve	ertical 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								
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_E									
4,800.00		0.000	4,711.10	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561
4,851.12		0.000	4,762.22	13.92	746.36	1,922,219.06	2,743,887.01	36.28272577	-107.76277561
	0°/100' build	040.000	4 000 00	45.00	745.40	4 000 000 04	0.740.005.77	00.00070000	407 70077000
4,895.24		313.030	4,806.30	15.08	745.12	1,922,220.21	2,743,885.77	36.28272896	-107.76277982
MNCS_0		242.020	4 044 04	45.04	744.04	1 000 000 10	0.740.005.40	26 20272060	407 70070077
4,900.00 4,942.62		313.030 313.030	4,811.04	15.34 18.89	744.84 741.03	1,922,220.48	2,743,885.48	36.28272968 36.28273945	-107.76278077
2000 100 100 100		313.030	4,853.32	10.09	741.03	1,922,224.03	2,743,881.68	30.20273943	-107.76279368
MNCS_0 4,950.00		313.030	4,860.61	19.73	740.14	1,922,224.86	2,743,880.79	36.28274174	-107.76279670
5,000.00		313.030	4,909.43	27.04	732.30	1,922,232.18	2,743,872.95	36.28276185	-107.76282328
5,050.00		313.030	4,957.13	37.24	721.38	1,922,242.37	2,743,862.03	36.28278988	-107.76286030
5,065.35		313.030	4,971.49	40.93	717.42	1,922,246.07	2,743,858.07	36.28280003	-107.76287372
MNCS_E			2 1			5.4 (Territorial minutes (19.00-19.00)			
5,100.00		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		313.030	5,089.93	84.19	671.09	1,922,289.32	2,743,811.73	36.28291895	-107.76303084
5,250.00		313.030	5,129.65	104.90	648.90	1,922,310.03	2,743,789.55	36.28297589	-107.76310606
5,278.50		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		313.030	5,166.57	127.89	624.27	1,922,333.03	2,743,764.92	36.28303911	-107.76318958
5,350.00		313.030	5,200.41	152.99	597.38	1,922,358.13	2,743,738.03	36.28310812	-107.76328076
5,397.56		313.030	5,229.51	178.66	569.89	1,922,383.79	2,743,710.54	36.28317866	-107.76337397
MNCS_C	j								



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitudo
						100000000000000000000000000000000000000			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	-107.763378
5,450.00	59.89	313.030	5,257.85	208.74	537.66	1,922,413.88	2,743,678.30	36.28326138	-107.763483
5,481.44	63.03	313.030	5,272.87	227.59	517.47	1,922,432.72	2,743,658.12	36.28331318	-107.76355
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	-107.76359
5,551.12	70.00	313.030	5,300.62	271.17	470.78	1,922,476.31	2,743,611.43	36.28343301	-107.76371
and the second second second second second	551.12 MD 53								
5,596.40	74.53	313.030	5,314.41	300.59	439.26	1,922,505.73	2,743,579.91	36.28351389	-107.76381
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	-107.76382
5,650.00	79.89	313.030	5,326.28	336.25	401.07	1,922,541.38	2,743,541.72	36.28361191	-107.76394
5,651.12	80.00	313.030	5,326.47	337.00	400.26	1,922,542.14	2,743,540.91	36.28361398	-107.76394
7" Intern	nediate Casin	g							
5,700.00	84.89	313.029	5,332.90	370.06	364.85	1,922,575.19	2,743,505.50	36.28370485	-107.76406
5,748.19	89.71	313.029	5,335.17	402.89	329.67	1,922,608.03	2,743,470.32	36.28379512	-107.76418
Begin 89	.71° lateral								
5,800.00	89.71	313.029	5,335.44	438.25	291.80	1,922,643.38	2,743,432.45	36.28389232	-107.76431
5,900.00	89.71	313.029	5,335.95	506.48	218.70	1,922,711.62	2,743,359.35	36.28407991	-107.76456
6,000.00	89.71	313.029	5,336.46	574.72	145.60	1,922,779.85	2,743,286.25	36.28426750	-107.76481
6,100.00	89.71	313.029	5,336.97	642.95	72.50	1,922,848.09	2,743,213.15	36.28445509	-107.76506
6,200.00	89.71	313.029	5,337.49	711.19	-0.60	1,922,916.32	2,743,140.05	36.28464268	-107.76530
6,300.00	89.71	313.029	5,338.00	779.43	-73.70	1,922,984.56	2,743,066.95	36.28483027	-107.76555
6,400.00	89.71	313.029	5,338.51	847.66	-146.80	1,923,052.80	2,742,993.85	36.28501786	-107.76580
6,500.00	89.71	313.029	5,339.02	915.90	-219.90	1,923,121.03	2,742,920.75	36.28520545	-107.76605
6,600.00	89.71	313.029	5,339.53	984.14	-293.00	1,923,189.27	2,742,847.65	36.28539304	-107.76629
6,700.00	89.71	313.029	5,340.05	1,052.37	-366.10	1,923,257.50	2,742,774.55	36.28558062	-107.76654
6,800.00	89.71	313.029	5,340.56	1,120.61	-439.20	1,923,325.74	2,742,701.45	36.28576821	-107.76679
6,900.00	89.71	313.029	5,341.07	1,188.84	-512.30	1,923,393.98	2,742,628.35	36.28595580	-107.76704
7,000.00	89.71	313.029	5,341.58	1,257.08	-585.40	1,923,462.21	2,742,555.25	36.28614338	-107.76729
7,100.00	89.71	313.029	5,342.10	1,325.32	-658.50	1,923,530.45	2,742,482.15	36.28633097	-107.76753
7,200.00	89.71	313.029	5,342.61	1,393.55	-731.60	1,923,598.68	2,742,409.05	36.28651855	-107.76778
7,300.00	89.71	313.029	5,343.12	1,461.79	-804.70	1,923,666.92	2,742,335.95	36.28670614	-107.76803
7,400.00	89.71	313.029	5,343.63	1,530.02	-877.80	1,923,735.16	2,742,262.86	36.28689372	-107.76828
7,500.00	89.71	313.029	5,344.15	1,598.26	-950.90	1,923,803.39	2,742,189.76	36.28708130	-107.76853
7,600.00	89.71	313.029	5,344.66	1,666.50	-1,024.00	1,923,871.63	2,742,116.66	36.28726889	-107.76877
7,700.00	89.71	313.029	5,345.17	1,734.73	-1,097.09	1,923,939.86	2,742,043.56	36.28745647	-107.76902
7,800.00	89.71	313.029	5,345.68	1,802.97	-1,170.19	1,924,008.10	2,741,970.46	36.28764405	-107.76927
7,900.00	89.71	313.029	5,346.20	1,871.20	-1,243.29	1,924,076.34	2,741,897.36	36.28783163	-107.76952
8,000.00	89.71	313.029	5,346.71	1,939.44	-1,316.39	1,924,144.57	2,741,824.26	36.28801921	-107.76977
8,100.00	89.71	313.029	5,347.22	2,007.68	-1,389.49	1,924,212.81	2,741,751.16	36.28820679	-107.77001
8,200.00	89.71	313.029	5,347.73	2,075.91	-1,462.59	1,924,281.04	2,741,678.06	36.28839437	-107.77026
8,300.00	89.71	313.029	5,348.24	2,144.15	-1,535.69	1,924,349.28	2,741,604.96	36.28858195	-107.77051
8,400.00	89.71	313.029	5,348.76	2,212.39	-1,608.79	1,924,417.52	2,741,531.86	36.28876953	-107.77076
8,500.00	89.71	313.029	5,349.27	2,280.62	-1,681.89	1,924,485.75	2,741,458.76	36.28895711	-107.77100
8,600.00	89.71	313.029	5,349.78	2,348.86	-1,754.99	1,924,553.99	2,741,385.66	36.28914468	-107.77125
8,700.00	89.71	313.029	5,350.29	2,417.09	-1,828.09	1,924,622.22	2,741,312.56	36.28933226	-107.77150
8,800.00	89.71	313.029	5,350.81	2,485.33	-1,901.19	1,924,690.46	2,741,239.46	36.28951984	-107.77175
8,900.00	89.71	313.029	5,351.32	2,553.57	-1,974.29	1,924,758.70	2,741,166.36	36.28970741	-107.77200
9,000.00	89.71	313.029	5,351.83	2,621.80	-2,047.39	1,924,826.93	2,741,093.26	36.28989499	-107.77224
9,100.00	89.71	313.029	5,352.34	2,690.04	-2,120.49	1,924,895.17	2,741,020.16	36.29008256	-107.77249
9,200.00	89.71	313.029	5,352.86	2,758.27	-2,193.59	1,924,963.40	2,740,947.06	36.29027014	-107.77274
9,300.00	89.71	313.029	5,353.37	2,826.51	-2,266.69	1,925,031.64	2,740,873.96	36.29045771	-107.77299
9,400.00	89.71	313.029	5,353.88	2,894.75	-2,339.79	1,925,099.88	2,740,800.86	36.29064528	-107.77324
9,500.00	89.71	313.029	5,354.39	2,962.98	-2,412.89	1,925,168.11	2,740,727.76	36.29083286	-107.77348



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

leasured 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	313.029	5,354.90	3,031.22	-2,485.99	1,925,236.35	2,740,654.66	36.29102043	-107.77373
9,700.00	89.71	313.029	5,355.42	3,099.46	-2,559.09	1,925,304.58	2,740,581.57	36.29120800	-107.7739
9,800.00	89.71	313.029	5,355.93	3,167.69	-2,632.19	1,925,372.82	2,740,508.47	36.29139557	-107.7742
9,900.00	89.71	313.029	5,356.44	3,235.93	-2,705.29	1,925,441.06	2,740,435.37	36.29158314	-107.7744
10,000.00	89.71	313.029	5,356.95	3,304.16	-2,778.39	1,925,509.29	2,740,362.27	36.29177071	-107.7747
10,100.00	89.71	313.029	5,357.47	3,372.40	-2,851.49	1,925,577.53	2,740,289.17	36.29195828	-107.7749
10,200.00	89.71	313.029	5,357.98	3,440.64	-2,924.59	1,925,645.76	2,740,216.07	36.29214585	-107.7752
10,300.00	89.71	313.029	5,358.49	3,508.87	-2,997.69	1,925,714.00	2,740,142.97	36.29233342	-107.7754
10,400.00	89.71	313.029	5,359.00	3,577.11	-3,070.79	1,925,782.24	2,740,069.87	36.29252099	-107.7757
10,500.00	89.71	313.029	5,359.52	3,645.34	-3,143.89	1,925,850.47	2,739,996.77	36.29270856	-107.7759
10,600.00	89.71	313.029	5,360.03	3,713.58	-3,216.99	1,925,918.71	2,739,923.67	36.29289612	-107.7762
10,700.00	89.71	313.029	5,360.54	3,781.82	-3,290.09	1,925,986.94	2,739,850.57	36.29308369	-107.7764
10,800.00	89.71	313.029	5,361.05	3,850.05	-3,363.19	1,926,055.18	2,739,777.47	36.29327126	-107.7767
10,900.00	89.71	313.029	5,361.57	3,918.29	-3,436.29	1,926,123.42	2,739,704.37	36.29345882	-107.7769
11,000.00	89.71	313.029	5,362.08	3,986.52	-3,509.39	1,926,191.65	2,739,631.27	36.29364639	-107.7772
11,100.00	89.71	313.029	5,362.59	4,054.76	-3,582.49	1,926,259.89	2,739,558.17	36.29383395	-107.7774
11,200.00	89.71	313.029	5,363.10	4,123.00	-3,655.58	1,926,328.12	2,739,485.07	36.29402151	-107.7777
11,300.00	89.71	313.029	5,363.61	4,191.23	-3,728.68	1,926,396.36	2,739,411.97	36.29420908	-107.7779
11,400.00	89.71	313.029	5,364.13	4,259.47	-3,801.78	1,926,464.60	2,739,338.87	36.29439664	-107.7781
11,500.00	89.71	313.029	5,364.64	4,327.71	-3,874.88	1,926,532.83	2,739,265.77	36.29458420	-107.7784
11,600.00	89.71	313.029	5,365.15	4,395.94	-3,947.98	1,926,601.07	2,739,192.67	36.29477177	-107.7786
11,700.00	89.71	313.029	5,365.66	4,464.18	-4,021.08	1,926,669.30	2,739,119.57	36.29495933	-107.7789
11,800.00	89.71	313.029	5,366.18	4,532.41	-4,094.18	1,926,737.54	2,739,046.47	36.29514689	-107.7791
11,900.00	89.71	313.029	5,366.69	4,600.65	-4,167.28	1,926,805.78	2,738,973.37	36.29533445	-107.7794
12,000.00	89.71	313.029	5,367.20	4,668.89	-4,240.38	1,926,874.01	2,738,900.27	36.29552201	-107.7796
12,100.00	89.71	313.029	5,367.71	4,737.12	-4,313.48	1,926,942.25	2,738,827.18	36.29570957	-107.7799
12,200.00	89.71	313.029	5,368.23	4,805.36	-4,386.58	1,927,010.48	2,738,754.08	36.29589713	-107.7801
12,300.00	89.71	313.029	5,368.74	4,873.59	-4,459.68	1,927,078.72	2,738,680.98	36.29608468	-107.7804
12,400.00	89.71	313.029	5,369.25	4,941.83	-4,532.78	1,927,146.96	2,738,607.88	36.29627224	-107.7806
12,500.00	89.71	313.029	5,369.76	5,010.07	-4,605.88	1,927,215.19	2,738,534.78	36.29645980	-107.7809
12,600.00	89.71	313.029	5,370.28	5,078.30	-4,678.98	1,927,283.43	2,738,461.68	36.29664736	-107.7811
12,700.00	89.71	313.029	5,370.79	5,146.54	-4,752.08	1,927,351.66	2,738,388.58	36.29683491	-107.7814
12,800.00	89.71	313.029	5,371.30	5,214.78	-4,825.18	1,927,419.90	2,738,315.48	36.29702247	-107.7816
12,900.00	89.71	313.029	5,371.81	5,283.01	-4,898.28	1,927,488.14	2,738,242.38	36.29721002	-107.7819
13,000.00	89.71	313.029	5,372.32	5,351.25	-4,971.38	1,927,556.37	2,738,169.28	36.29739758	-107.7821
13,100.00	89.71	313.029	5,372.84	5,419.48	-5,044.48	1,927,624.61	2,738,096.18	36.29758513	-107.7824
13,200.00	89.71	313.029	5,373.35	5,487.72	-5,117.58	1,927,692.84	2,738,023.08	36.29777268	-107.7826
13,300.00	89.71	313.029	5,373.86	5,555.96	-5,190.68	1,927,761.08	2,737,949.98	36.29796024	-107.7829
13,327.07	89.71	313.029	5,374.00	5,574.42	-5,210.46	1,927,779.55	2,737,930.20	36.29801100	-107.7829



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

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 cer - Point	0.00 nter	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 2 - plan hits target cer - Point		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 - Point	0.00 center by 1.01	0.000 ft at 5714.28	5,335.00 8ft MD (5333	379.74 s.99 TVD, 379	354.48 .77 N, 354.45	1,922,584.87 E)	2,743,495.13	36.28373148	-107.76410435
Nageezi 213 BHL 2060 I - plan hits target cer - Point		0.000	5,374.00	5,574.42	-5,210.46	1,927,779.55	2,737,930.20	36.29801100	-107.78297700

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

tions						
	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



Database: DT_Mar1724_v17
Company: Enduring Resources LLC

 Project:
 San Juan County, New Mexico NAD83 NM W

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

Well: Nageezi Unit 213H
Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Nageezi Unit 213H RKB=6826+25 @ 6851.00ft RKB=6826+25 @ 6851.00ft

Grid

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
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
13,327.07	5.374.00	5,574.42	-5,210.46	PBHL @ 13327.07 MD 5374.00 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

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 334015

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
200 Energy Court	Action Number:
Farmington, NM 87401	334015
	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