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

Sundry Print Report

04/16/2024

Well Name: NAGEEZI UNIT

Well Location: T24N / R9W / SEC 26 / NWSW / 36.282537 / -107.765385

County or Parish/State: SAN JUAN / NM

Well Number: 217H

Type of Well: OIL WELL

Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G14011834

Unit or CA Name:

Unit or CA Number: NMNM132981A

US Well Number: 3004538297

Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2785168

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/15/2024

Time Sundry Submitted: 02:42

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

217H_Revised_DPR_04.11.24_20240415144240.pdf

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Allottee or Tribe Name: EASTERN NAVAJO

Lease Number: N0G14011834

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 15, 2024 02:42 PM

Name: DJR OPERATING LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC **State:** NM

Phone: (505) 632-3476

Email address: SFORD@ENDURINGRESOURCES.COM

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: 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

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 217H**
API Number: 30-045-38297
AFE Number: *Not yet assigned*
ER Well Number: *Not yet assigned*
State: New Mexico
County: San Juan
Surface Elevation: 6,826 ft ASL (GL) 6,851 ft ASL (KB)
Surface Location: 26-24-9 Sec-Twn-Rng 1,724 ft FSL 762 ft FWL
36.282537 o N latitude 107.765385 o W longitude (NAD 83)
BH Location: 1-23-9 Sec-Twn-Rng 1,373 ft FNL 226 ft FWL
36.259768 o N latitude 107.732954 o W longitude (NAD 83)
Driving Directions: **FROM THE INTERSECTION OF US HWY 550 & US HWY 64 IN BLOOMFIELD, NM:**
South on US Hwy 550 for 32.5 miles to MM 119.5, Right (SouthWest) on D34 Road for 2.9 miles to fork, Left (East) on lease road for 0.75 miles to P&A location, Thru location (Southeast) on new access for 0.3 miles to Nageezi L26 Pad, There are 6 wells on this location from South to North(NU 217H, NU 218H, NU 215H, NU 213H, NU 216H, NU 214H)

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
Ojo Alamo	6,020	831	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	1,591	G, W	sub
Lewis	5,150	1,701	1,701	G, W	normal
Chacra	4,850	2,001	2,006	G, W	normal
Cliff House	3,759	3,092	3,117	G, W	sub
Menefee	3,729	3,122	3,148	G, W	normal
Point Lookout	2,790	4,061	4,104	G, W	normal
Mancos	2,588	4,263	4,309	O,G	sub (~0.38)
Gallup (MNCS_A)	2,230	4,621	4,668	O,G	sub (~0.38)
MNCS_B	2,147	4,704	4,751	O,G	sub (~0.38)
MNCS_C	2,043	4,808	4,855	O,G	sub (~0.38)
MNCS_Cms	1,996	4,855	4,902	O,G	sub (~0.38)
MNCS_D	1,878	4,973	5,026	O,G	sub (~0.38)
MNCS_E	1,769	5,082	5,150	O,G	sub (~0.38)
MNCS_F	1,700	5,151	5,239	O,G	sub (~0.38)
MNCS_G	1,622	5,229	5,358	O,G	sub (~0.38)
MNCS_H	1,580	5,271	5,441	O,G	sub (~0.38)
MNCS_I	1,539	5,312	5,558	O,G	sub (~0.38)
FTP TARGET	**1,555**	**5,296**	**5,505**	**O,G**	**sub (~0.38)**
PROJECTED TD	**1,631**	**5,220**	**17,962**	**O,G**	**sub (~0.38)**

Surface: Nacimiento
Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup
Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations
Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

	Maximum anticipated BH pressure, assuming maximum pressure gradient:	**2,280**	**psi**
	Maximum anticipated surface pressure, assuming partially evacuated hole:	**1,120**	**psi**
Temperature:	**Maximum anticipated BHT is 125○ F or less**		

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	1,138	110,988	110,988
Min. S.F.					**13.21**	**3.09**	**5.08**	**3.81**

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

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

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

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

350 ft (MD)	to	5,605 ft (MD)	Hole Section Length:	5,255 ft
350 ft (TVD)	to	5,322 ft (TVD)	Casing Required:	5,605 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

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					2,325	1,424	227,084	227,084
Min. S.F.					**1.86**	**3.50**	**1.83**	**1.62**

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	488	1,045
Tail	Type III	14.6	1.380	6.64	20%	4,209	189	261

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

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

5,605	ft (MD)	to	17,962	ft (MD)	Hole Section Length:	12,357 ft
5,322	ft (TVD)	to	5,220	ft (TVD)	Casing Required:	12,507 ft
		Estimated KOP:	4,805	ft (MD)	4,758	ft (TVD)
		Estimated Liner Top:	5,455	ft (MD)	5,277	ft (TVD)
		Estimated Landing Point (FTP):	5,505	ft (MD)	5,296	ft (TVD)
		Estimated Lateral Length:	12,457	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					2,579	8,799	279,795	279,795
Min. S.F.					**2.93**	**1.21**	**1.31**	**1.38**

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*

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%	5,455	1,013	1,580

Displacement *248* *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

Note: This well will not be considered an unorthodox well location as defined 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: 12,357
Est Frac Inform: *51 Frac Stages* *198,000 bbls slick water* *16,070,000 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 217H
Site: Nageezi Unit (213, 214, 215, 216, 217 & 218)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nageezi 217H 0 VS	5334.00	348.51	325.10	1922498.29	2743443.09	36.28349375	-107.76428111
Nageezi 217H BHL 1373 FNL 226 FEL 3330 ppd	5220.00	-8272.90	9566.95	1913876.90	2752684.93	36.25978800	-107.73295400
Nageezi 217H PPP/POE 1928 FSL 1215 FEL	5300.00	221.66	461.09	1922371.44	2743579.08	36.28314500	-107.76382000
Nageezi 217H vert	4500.00	478.81	185.42	1922628.59	2743303.41	36.28385196	-107.76475473

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	1500.00	0.00	0.000	1500.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1868.13	11.04	21.169	1865.86	32.98	12.77	3.00	21.17	-13.16	Begin 11.04° tangent
4	4179.22	11.04	21.169	4134.14	445.83	172.65	0.00	0.00	-177.86	Begin 3°/100' drop
5	4547.35	0.00	0.000	4500.00	478.81	185.42	3.00	180.00	-191.02	Begin vertical hold
6	4804.93	0.00	0.000	4757.58	478.81	185.42	0.00	0.00	-191.02	Begin 10°/100' build
7	5504.93	70.00	133.010	5295.98	221.65	461.09	10.00	133.01	185.97	POE @ 5504.93 MD 5295.98 TVD
8	5710.10	90.52	133.011	5330.51	84.45	608.16	10.00	0.00	387.10	Begin 90.52° lateral
9	17962.34	90.52	133.011	5220.00	-8272.90	9566.95	0.00	0.00	12638.85	PBHL @ 17962.34 MD 5220.00 TVD

T G M

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

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

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

Surface location:

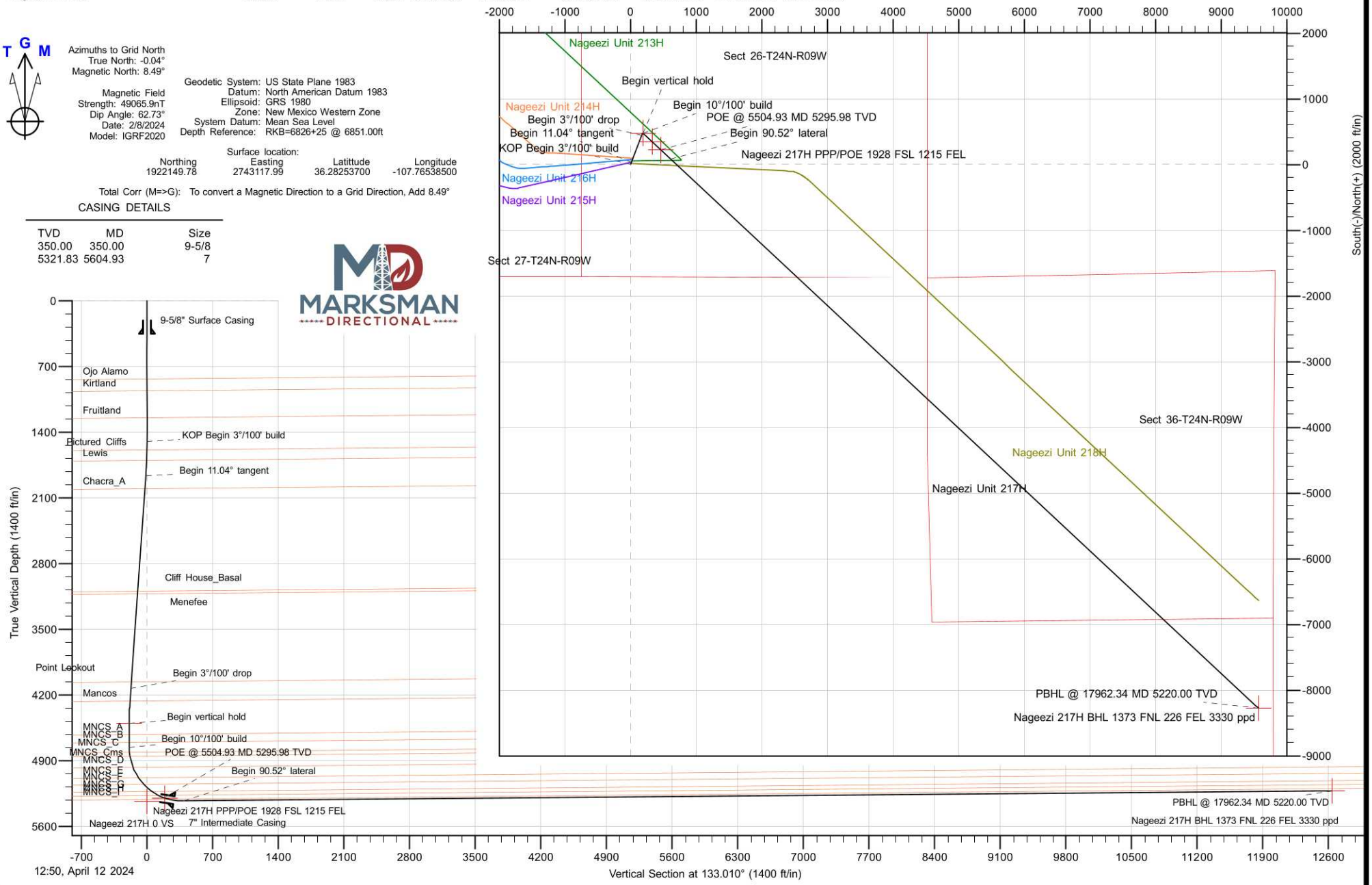
Northing	Easting	Latitude	Longitude
1922149.78	2743117.99	36.28253700	-107.76538500

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

CASING DETAILS

TVD	MD	Size
350.00	350.00	9-5/8
5321.83	5604.93	7

MARKSMAN DIRECTIONAL



Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

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

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

Well Nageezi Unit 217H, Surf loc: 1724 FSL 762 FWL Section 26-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,922,149.79 usft	**Latitude:**	36.28253700
	+E/-W	0.00 ft	**Easting:**	2,743,117.99 usft	**Longitude:**	-107.76538500
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,826.00 ft
Grid Convergence:		0.04 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/8/2024	8.53	62.73	49,065.89274249

Design rev0

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	133.010

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

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,962.34	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,868.13	11.04	21.169	1,865.86	32.98	12.77	3.00	3.00	0.00	21.17	
4,179.22	11.04	21.169	4,134.14	445.83	172.65	0.00	0.00	0.00	0.00	
4,547.35	0.00	0.000	4,500.00	478.81	185.42	3.00	-3.00	0.00	180.00	Nageezi 217H vert
4,804.93	0.00	0.000	4,757.58	478.81	185.42	0.00	0.00	0.00	0.00	
5,504.93	70.00	133.010	5,295.98	221.65	461.09	10.00	10.00	0.00	133.01	
5,710.10	90.52	133.011	5,330.51	84.45	608.16	10.00	10.00	0.00	0.00	
17,962.34	90.52	133.011	5,220.00	-8,272.90	9,566.95	0.00	0.00	0.00	0.00	Nageezi 217H BHL 1

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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
831.00	0.00	0.000	831.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo									
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00
956.00	0.00	0.000	956.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,246.00	0.00	0.000	1,246.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland									
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,591.04	2.73	21.169	1,591.01	2.02	0.78	-0.81	3.00	3.00	0.00
Pictured Cliffs									
1,600.00	3.00	21.169	1,599.95	2.44	0.95	-0.97	3.00	3.00	0.00
1,700.00	6.00	21.169	1,699.63	9.76	3.78	-3.89	3.00	3.00	0.00
1,701.41	6.04	21.169	1,701.04	9.89	3.83	-3.95	3.00	3.00	0.00
Lewis									
1,800.00	9.00	21.169	1,798.77	21.93	8.49	-8.75	3.00	3.00	0.00
1,868.13	11.04	21.169	1,865.86	32.98	12.77	-13.16	3.00	3.00	0.00
Begin 11.04° tangent									
1,900.00	11.04	21.169	1,897.13	38.68	14.98	-15.43	0.00	0.00	0.00
2,000.00	11.04	21.169	1,995.28	56.54	21.89	-22.56	0.00	0.00	0.00
2,006.04	11.04	21.169	2,001.21	57.62	22.31	-22.99	0.00	0.00	0.00
Chacra_A									
2,100.00	11.04	21.169	2,093.43	74.40	28.81	-29.68	0.00	0.00	0.00
2,200.00	11.04	21.169	2,191.58	92.27	35.73	-36.81	0.00	0.00	0.00
2,300.00	11.04	21.169	2,289.73	110.13	42.65	-43.94	0.00	0.00	0.00
2,400.00	11.04	21.169	2,387.87	127.99	49.57	-51.06	0.00	0.00	0.00
2,500.00	11.04	21.169	2,486.02	145.86	56.48	-58.19	0.00	0.00	0.00
2,600.00	11.04	21.169	2,584.17	163.72	63.40	-65.32	0.00	0.00	0.00
2,700.00	11.04	21.169	2,682.32	181.58	70.32	-72.44	0.00	0.00	0.00
2,800.00	11.04	21.169	2,780.47	199.45	77.24	-79.57	0.00	0.00	0.00
2,900.00	11.04	21.169	2,878.61	217.31	84.15	-86.70	0.00	0.00	0.00
3,000.00	11.04	21.169	2,976.76	235.18	91.07	-93.82	0.00	0.00	0.00
3,100.00	11.04	21.169	3,074.91	253.04	97.99	-100.95	0.00	0.00	0.00
3,117.34	11.04	21.169	3,091.93	256.14	99.19	-102.19	0.00	0.00	0.00
Cliff House_Basal									
3,147.92	11.04	21.169	3,121.95	261.60	101.31	-104.37	0.00	0.00	0.00
Menefee									

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,200.00	11.04	21.169	3,173.06	270.90	104.91	-108.08	0.00	0.00	0.00
3,300.00	11.04	21.169	3,271.21	288.77	111.83	-115.20	0.00	0.00	0.00
3,400.00	11.04	21.169	3,369.35	306.63	118.74	-122.33	0.00	0.00	0.00
3,500.00	11.04	21.169	3,467.50	324.49	125.66	-129.46	0.00	0.00	0.00
3,600.00	11.04	21.169	3,565.65	342.36	132.58	-136.58	0.00	0.00	0.00
3,700.00	11.04	21.169	3,663.80	360.22	139.50	-143.71	0.00	0.00	0.00
3,800.00	11.04	21.169	3,761.95	378.08	146.41	-150.84	0.00	0.00	0.00
3,900.00	11.04	21.169	3,860.10	395.95	153.33	-157.97	0.00	0.00	0.00
4,000.00	11.04	21.169	3,958.24	413.81	160.25	-165.09	0.00	0.00	0.00
4,100.00	11.04	21.169	4,056.39	431.68	167.17	-172.22	0.00	0.00	0.00
4,104.25	11.04	21.169	4,060.57	432.44	167.46	-172.52	0.00	0.00	0.00
Point Lookout									
4,179.22	11.04	21.169	4,134.14	445.83	172.65	-177.86	0.00	0.00	0.00
Begin 3°/100' drop									
4,200.00	10.42	21.169	4,154.56	449.44	174.04	-179.30	3.00	-3.00	0.00
4,300.00	7.42	21.169	4,253.34	463.89	179.64	-185.07	3.00	-3.00	0.00
4,309.42	7.14	21.169	4,262.68	465.01	180.07	-185.52	3.00	-3.00	0.00
Mancos									
4,400.00	4.42	21.169	4,352.79	473.51	183.37	-188.91	3.00	-3.00	0.00
4,500.00	1.42	21.169	4,452.65	478.26	185.21	-190.80	3.00	-3.00	0.00
4,547.35	0.00	0.000	4,500.00	478.81	185.42	-191.02	3.00	-3.00	0.00
Begin vertical hold									
4,600.00	0.00	0.000	4,552.65	478.81	185.42	-191.02	0.00	0.00	0.00
4,668.09	0.00	0.000	4,620.73	478.81	185.42	-191.02	0.00	0.00	0.00
MNCS_A									
4,700.00	0.00	0.000	4,652.65	478.81	185.42	-191.02	0.00	0.00	0.00
4,751.09	0.00	0.000	4,703.73	478.81	185.42	-191.02	0.00	0.00	0.00
MNCS_B									
4,804.93	0.00	0.000	4,757.58	478.81	185.42	-191.02	0.00	0.00	0.00
Begin 10°/100' build									
4,850.00	4.51	133.010	4,802.60	477.60	186.72	-189.25	10.00	10.00	0.00
4,855.13	5.02	133.010	4,807.71	477.31	187.03	-188.83	10.00	10.00	0.00
MNCS_C									
4,900.00	9.51	133.010	4,852.21	473.44	191.17	-183.15	10.00	10.00	0.00
4,902.48	9.75	133.010	4,854.66	473.16	191.48	-182.74	10.00	10.00	0.00
MNCS_Cms									
4,950.00	14.51	133.010	4,901.10	466.35	198.78	-172.76	10.00	10.00	0.00
5,000.00	19.51	133.010	4,948.90	456.38	209.47	-158.14	10.00	10.00	0.00
5,026.16	22.12	133.010	4,973.35	450.04	216.26	-148.84	10.00	10.00	0.00
MNCS_D									
5,050.00	24.51	133.010	4,995.24	443.60	223.16	-139.41	10.00	10.00	0.00
5,100.00	29.51	133.010	5,039.78	428.12	239.76	-116.71	10.00	10.00	0.00
5,149.58	34.47	133.010	5,081.82	410.21	258.96	-90.45	10.00	10.00	0.00
MNCS_E									
5,150.00	34.51	133.010	5,082.16	410.05	259.13	-90.22	10.00	10.00	0.00
5,200.00	39.51	133.010	5,122.08	389.52	281.13	-60.13	10.00	10.00	0.00
5,239.01	43.41	133.010	5,151.31	371.91	300.02	-34.31	10.00	10.00	0.00
MNCS_F									
5,250.00	44.51	133.010	5,159.22	366.71	305.59	-26.68	10.00	10.00	0.00
5,300.00	49.51	133.010	5,193.31	341.77	332.33	9.88	10.00	10.00	0.00
5,350.00	54.51	133.010	5,224.07	314.90	361.13	49.27	10.00	10.00	0.00
5,357.69	55.28	133.010	5,228.50	310.61	365.73	55.56	10.00	10.00	0.00

Planning Report

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Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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)
MNCS_G									
5,400.00	59.51	133.010	5,251.29	286.30	391.79	91.20	10.00	10.00	0.00
5,441.07	63.61	133.010	5,270.84	261.68	418.19	127.30	10.00	10.00	0.00
MNCS_H									
5,450.00	64.51	133.010	5,274.75	256.19	424.06	135.33	10.00	10.00	0.00
5,504.93	70.00	133.010	5,295.98	221.65	461.09	185.97	10.00	10.00	0.00
POE @ 5504.93 MD 5295.98 TVD									
5,550.00	74.51	133.010	5,309.72	192.38	492.47	228.88	10.00	10.00	0.00
5,558.20	75.33	133.010	5,311.85	186.98	498.26	236.80	10.00	10.00	0.00
MNCS_I									
5,600.00	79.51	133.010	5,320.96	159.16	528.09	277.59	10.00	10.00	0.00
5,604.93	80.00	133.010	5,321.83	155.85	531.63	282.44	10.00	10.00	0.00
7" Intermediate Casing									
5,650.00	84.51	133.011	5,327.91	125.39	564.28	327.09	10.00	10.00	0.00
5,700.00	89.51	133.011	5,330.52	91.34	600.78	377.00	10.00	10.00	0.00
5,710.10	90.52	133.011	5,330.51	84.45	608.16	387.10	10.00	10.00	0.00
Begin 90.52° lateral									
5,800.00	90.52	133.011	5,329.70	23.13	673.90	477.00	0.00	0.00	0.00
5,900.00	90.52	133.011	5,328.80	-45.08	747.02	577.00	0.00	0.00	0.00
6,000.00	90.52	133.011	5,327.90	-113.29	820.14	676.99	0.00	0.00	0.00
6,100.00	90.52	133.011	5,327.00	-181.50	893.26	776.99	0.00	0.00	0.00
6,200.00	90.52	133.011	5,326.10	-249.71	966.38	876.98	0.00	0.00	0.00
6,300.00	90.52	133.011	5,325.19	-317.92	1,039.50	976.98	0.00	0.00	0.00
6,400.00	90.52	133.011	5,324.29	-386.13	1,112.62	1,076.98	0.00	0.00	0.00
6,500.00	90.52	133.011	5,323.39	-454.34	1,185.74	1,176.97	0.00	0.00	0.00
6,600.00	90.52	133.011	5,322.49	-522.55	1,258.86	1,276.97	0.00	0.00	0.00
6,700.00	90.52	133.011	5,321.59	-590.76	1,331.98	1,376.96	0.00	0.00	0.00
6,800.00	90.52	133.011	5,320.68	-658.98	1,405.10	1,476.96	0.00	0.00	0.00
6,900.00	90.52	133.011	5,319.78	-727.19	1,478.21	1,576.95	0.00	0.00	0.00
7,000.00	90.52	133.011	5,318.88	-795.40	1,551.33	1,676.95	0.00	0.00	0.00
7,100.00	90.52	133.011	5,317.98	-863.61	1,624.45	1,776.95	0.00	0.00	0.00
7,200.00	90.52	133.011	5,317.08	-931.82	1,697.57	1,876.94	0.00	0.00	0.00
7,300.00	90.52	133.011	5,316.17	-1,000.03	1,770.69	1,976.94	0.00	0.00	0.00
7,400.00	90.52	133.011	5,315.27	-1,068.24	1,843.81	2,076.93	0.00	0.00	0.00
7,500.00	90.52	133.011	5,314.37	-1,136.45	1,916.93	2,176.93	0.00	0.00	0.00
7,600.00	90.52	133.011	5,313.47	-1,204.66	1,990.05	2,276.93	0.00	0.00	0.00
7,700.00	90.52	133.011	5,312.57	-1,272.87	2,063.17	2,376.92	0.00	0.00	0.00
7,800.00	90.52	133.011	5,311.66	-1,341.08	2,136.29	2,476.92	0.00	0.00	0.00
7,900.00	90.52	133.011	5,310.76	-1,409.29	2,209.41	2,576.91	0.00	0.00	0.00
8,000.00	90.52	133.011	5,309.86	-1,477.51	2,282.53	2,676.91	0.00	0.00	0.00
8,100.00	90.52	133.011	5,308.96	-1,545.72	2,355.65	2,776.91	0.00	0.00	0.00
8,200.00	90.52	133.011	5,308.06	-1,613.93	2,428.77	2,876.90	0.00	0.00	0.00
8,300.00	90.52	133.011	5,307.15	-1,682.14	2,501.89	2,976.90	0.00	0.00	0.00
8,400.00	90.52	133.011	5,306.25	-1,750.35	2,575.01	3,076.89	0.00	0.00	0.00
8,500.00	90.52	133.011	5,305.35	-1,818.56	2,648.13	3,176.89	0.00	0.00	0.00
8,600.00	90.52	133.011	5,304.45	-1,886.77	2,721.25	3,276.89	0.00	0.00	0.00
8,700.00	90.52	133.011	5,303.55	-1,954.98	2,794.37	3,376.88	0.00	0.00	0.00
8,800.00	90.52	133.011	5,302.64	-2,023.19	2,867.49	3,476.88	0.00	0.00	0.00
8,900.00	90.52	133.011	5,301.74	-2,091.40	2,940.61	3,576.87	0.00	0.00	0.00
9,000.00	90.52	133.011	5,300.84	-2,159.61	3,013.73	3,676.87	0.00	0.00	0.00
9,100.00	90.52	133.011	5,299.94	-2,227.82	3,086.85	3,776.87	0.00	0.00	0.00
9,200.00	90.52	133.011	5,299.04	-2,296.03	3,159.97	3,876.86	0.00	0.00	0.00
9,300.00	90.52	133.011	5,298.13	-2,364.25	3,233.08	3,976.86	0.00	0.00	0.00

Planning Report

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Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
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Well:	Nageezi Unit 217H	**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)
9,400.00	90.52	133.011	5,297.23	-2,432.46	3,306.20	4,076.85	0.00	0.00	0.00
9,500.00	90.52	133.011	5,296.33	-2,500.67	3,379.32	4,176.85	0.00	0.00	0.00
9,600.00	90.52	133.011	5,295.43	-2,568.88	3,452.44	4,276.84	0.00	0.00	0.00
9,700.00	90.52	133.011	5,294.53	-2,637.09	3,525.56	4,376.84	0.00	0.00	0.00
9,800.00	90.52	133.011	5,293.62	-2,705.30	3,598.68	4,476.84	0.00	0.00	0.00
9,900.00	90.52	133.011	5,292.72	-2,773.51	3,671.80	4,576.83	0.00	0.00	0.00
10,000.00	90.52	133.011	5,291.82	-2,841.72	3,744.92	4,676.83	0.00	0.00	0.00
10,100.00	90.52	133.011	5,290.92	-2,909.93	3,818.04	4,776.82	0.00	0.00	0.00
10,200.00	90.52	133.011	5,290.02	-2,978.14	3,891.16	4,876.82	0.00	0.00	0.00
10,300.00	90.52	133.011	5,289.11	-3,046.35	3,964.28	4,976.82	0.00	0.00	0.00
10,400.00	90.52	133.011	5,288.21	-3,114.56	4,037.40	5,076.81	0.00	0.00	0.00
10,500.00	90.52	133.011	5,287.31	-3,182.78	4,110.52	5,176.81	0.00	0.00	0.00
10,600.00	90.52	133.011	5,286.41	-3,250.99	4,183.64	5,276.80	0.00	0.00	0.00
10,700.00	90.52	133.011	5,285.51	-3,319.20	4,256.76	5,376.80	0.00	0.00	0.00
10,800.00	90.52	133.011	5,284.60	-3,387.41	4,329.88	5,476.80	0.00	0.00	0.00
10,900.00	90.52	133.011	5,283.70	-3,455.62	4,403.00	5,576.79	0.00	0.00	0.00
11,000.00	90.52	133.011	5,282.80	-3,523.83	4,476.12	5,676.79	0.00	0.00	0.00
11,100.00	90.52	133.011	5,281.90	-3,592.04	4,549.24	5,776.78	0.00	0.00	0.00
11,200.00	90.52	133.011	5,281.00	-3,660.25	4,622.36	5,876.78	0.00	0.00	0.00
11,300.00	90.52	133.011	5,280.09	-3,728.46	4,695.48	5,976.78	0.00	0.00	0.00
11,400.00	90.52	133.011	5,279.19	-3,796.67	4,768.60	6,076.77	0.00	0.00	0.00
11,500.00	90.52	133.011	5,278.29	-3,864.88	4,841.72	6,176.77	0.00	0.00	0.00
11,600.00	90.52	133.011	5,277.39	-3,933.09	4,914.84	6,276.76	0.00	0.00	0.00
11,700.00	90.52	133.011	5,276.49	-4,001.30	4,987.95	6,376.76	0.00	0.00	0.00
11,800.00	90.52	133.011	5,275.58	-4,069.52	5,061.07	6,476.76	0.00	0.00	0.00
11,900.00	90.52	133.011	5,274.68	-4,137.73	5,134.19	6,576.75	0.00	0.00	0.00
12,000.00	90.52	133.011	5,273.78	-4,205.94	5,207.31	6,676.75	0.00	0.00	0.00
12,100.00	90.52	133.011	5,272.88	-4,274.15	5,280.43	6,776.74	0.00	0.00	0.00
12,200.00	90.52	133.011	5,271.98	-4,342.36	5,353.55	6,876.74	0.00	0.00	0.00
12,300.00	90.52	133.011	5,271.07	-4,410.57	5,426.67	6,976.74	0.00	0.00	0.00
12,400.00	90.52	133.011	5,270.17	-4,478.78	5,499.79	7,076.73	0.00	0.00	0.00
12,500.00	90.52	133.011	5,269.27	-4,546.99	5,572.91	7,176.73	0.00	0.00	0.00
12,600.00	90.52	133.011	5,268.37	-4,615.20	5,646.03	7,276.72	0.00	0.00	0.00
12,700.00	90.52	133.011	5,267.47	-4,683.41	5,719.15	7,376.72	0.00	0.00	0.00
12,800.00	90.52	133.011	5,266.56	-4,751.62	5,792.27	7,476.71	0.00	0.00	0.00
12,900.00	90.52	133.011	5,265.66	-4,819.83	5,865.39	7,576.71	0.00	0.00	0.00
13,000.00	90.52	133.011	5,264.76	-4,888.05	5,938.51	7,676.71	0.00	0.00	0.00
13,100.00	90.52	133.011	5,263.86	-4,956.26	6,011.63	7,776.70	0.00	0.00	0.00
13,200.00	90.52	133.011	5,262.96	-5,024.47	6,084.75	7,876.70	0.00	0.00	0.00
13,300.00	90.52	133.011	5,262.05	-5,092.68	6,157.87	7,976.69	0.00	0.00	0.00
13,400.00	90.52	133.011	5,261.15	-5,160.89	6,230.99	8,076.69	0.00	0.00	0.00
13,500.00	90.52	133.011	5,260.25	-5,229.10	6,304.11	8,176.69	0.00	0.00	0.00
13,600.00	90.52	133.011	5,259.35	-5,297.31	6,377.23	8,276.68	0.00	0.00	0.00
13,700.00	90.52	133.011	5,258.45	-5,365.52	6,450.35	8,376.68	0.00	0.00	0.00
13,800.00	90.52	133.011	5,257.54	-5,433.73	6,523.47	8,476.67	0.00	0.00	0.00
13,900.00	90.52	133.011	5,256.64	-5,501.94	6,596.59	8,576.67	0.00	0.00	0.00
14,000.00	90.52	133.011	5,255.74	-5,570.15	6,669.71	8,676.67	0.00	0.00	0.00
14,100.00	90.52	133.011	5,254.84	-5,638.36	6,742.82	8,776.66	0.00	0.00	0.00
14,200.00	90.52	133.011	5,253.94	-5,706.57	6,815.94	8,876.66	0.00	0.00	0.00
14,300.00	90.52	133.011	5,253.03	-5,774.79	6,889.06	8,976.65	0.00	0.00	0.00
14,400.00	90.52	133.011	5,252.13	-5,843.00	6,962.18	9,076.65	0.00	0.00	0.00
14,500.00	90.52	133.011	5,251.23	-5,911.21	7,035.30	9,176.65	0.00	0.00	0.00
14,600.00	90.52	133.011	5,250.33	-5,979.42	7,108.42	9,276.64	0.00	0.00	0.00
14,700.00	90.52	133.011	5,249.43	-6,047.63	7,181.54	9,376.64	0.00	0.00	0.00

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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)
14,800.00	90.52	133.011	5,248.52	-6,115.84	7,254.66	9,476.63	0.00	0.00	0.00
14,900.00	90.52	133.011	5,247.62	-6,184.05	7,327.78	9,576.63	0.00	0.00	0.00
15,000.00	90.52	133.011	5,246.72	-6,252.26	7,400.90	9,676.63	0.00	0.00	0.00
15,100.00	90.52	133.011	5,245.82	-6,320.47	7,474.02	9,776.62	0.00	0.00	0.00
15,200.00	90.52	133.011	5,244.92	-6,388.68	7,547.14	9,876.62	0.00	0.00	0.00
15,300.00	90.52	133.011	5,244.01	-6,456.89	7,620.26	9,976.61	0.00	0.00	0.00
15,400.00	90.52	133.011	5,243.11	-6,525.10	7,693.38	10,076.61	0.00	0.00	0.00
15,500.00	90.52	133.011	5,242.21	-6,593.32	7,766.50	10,176.61	0.00	0.00	0.00
15,600.00	90.52	133.011	5,241.31	-6,661.53	7,839.62	10,276.60	0.00	0.00	0.00
15,700.00	90.52	133.011	5,240.41	-6,729.74	7,912.74	10,376.60	0.00	0.00	0.00
15,800.00	90.52	133.011	5,239.50	-6,797.95	7,985.86	10,476.59	0.00	0.00	0.00
15,900.00	90.52	133.011	5,238.60	-6,866.16	8,058.98	10,576.59	0.00	0.00	0.00
16,000.00	90.52	133.011	5,237.70	-6,934.37	8,132.10	10,676.58	0.00	0.00	0.00
16,100.00	90.52	133.011	5,236.80	-7,002.58	8,205.22	10,776.58	0.00	0.00	0.00
16,200.00	90.52	133.011	5,235.90	-7,070.79	8,278.34	10,876.58	0.00	0.00	0.00
16,300.00	90.52	133.011	5,234.99	-7,139.00	8,351.46	10,976.57	0.00	0.00	0.00
16,400.00	90.52	133.011	5,234.09	-7,207.21	8,424.58	11,076.57	0.00	0.00	0.00
16,500.00	90.52	133.011	5,233.19	-7,275.42	8,497.69	11,176.56	0.00	0.00	0.00
16,600.00	90.52	133.011	5,232.29	-7,343.63	8,570.81	11,276.56	0.00	0.00	0.00
16,700.00	90.52	133.011	5,231.39	-7,411.84	8,643.93	11,376.56	0.00	0.00	0.00
16,800.00	90.52	133.011	5,230.48	-7,480.06	8,717.05	11,476.55	0.00	0.00	0.00
16,900.00	90.52	133.011	5,229.58	-7,548.27	8,790.17	11,576.55	0.00	0.00	0.00
17,000.00	90.52	133.011	5,228.68	-7,616.48	8,863.29	11,676.54	0.00	0.00	0.00
17,100.00	90.52	133.011	5,227.78	-7,684.69	8,936.41	11,776.54	0.00	0.00	0.00
17,200.00	90.52	133.011	5,226.88	-7,752.90	9,009.53	11,876.54	0.00	0.00	0.00
17,300.00	90.52	133.011	5,225.97	-7,821.11	9,082.65	11,976.53	0.00	0.00	0.00
17,400.00	90.52	133.011	5,225.07	-7,889.32	9,155.77	12,076.53	0.00	0.00	0.00
17,500.00	90.52	133.011	5,224.17	-7,957.53	9,228.89	12,176.52	0.00	0.00	0.00
17,600.00	90.52	133.011	5,223.27	-8,025.74	9,302.01	12,276.52	0.00	0.00	0.00
17,700.00	90.52	133.011	5,222.37	-8,093.95	9,375.13	12,376.52	0.00	0.00	0.00
17,800.00	90.52	133.011	5,221.46	-8,162.16	9,448.25	12,476.51	0.00	0.00	0.00
17,900.00	90.52	133.011	5,220.56	-8,230.37	9,521.37	12,576.51	0.00	0.00	0.00
17,962.34	90.52	133.011	5,220.00	-8,272.90	9,566.95	12,638.85	0.00	0.00	0.00
PBHL @ 17962.34 MD 5220.00 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
5,604.93	5,321.83	7" Intermediate Casing	7	8-1/2

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
831.00	831.00	Ojo Alamo		-0.52	133.010
956.00	956.00	Kirtland		-0.52	133.010
1,246.00	1,246.00	Fruitland		-0.52	133.010
1,591.04	1,591.01	Pictured Cliffs		-0.52	133.010
1,701.41	1,701.04	Lewis		-0.52	133.010
2,006.04	2,001.21	Chacra_A		-0.52	133.010
3,117.34	3,091.93	Cliff House_Basal		-0.52	133.010
3,147.92	3,121.95	Menefee		-0.52	133.010
4,104.25	4,060.57	Point Lookout		-0.52	133.010
4,309.42	4,262.68	Mancos		-0.52	133.010
4,668.09	4,620.73	MNCS_A		-0.52	133.010
4,751.09	4,703.73	MNCS_B		-0.52	133.010
4,855.13	4,807.71	MNCS_C		-0.52	133.010
4,902.48	4,854.66	MNCS_Cms		-0.52	133.010
5,026.16	4,973.35	MNCS_D		-0.52	133.010
5,149.58	5,081.82	MNCS_E		-0.52	133.010
5,239.01	5,151.31	MNCS_F		-0.52	133.010
5,357.69	5,228.50	MNCS_G		-0.52	133.010
5,441.07	5,270.84	MNCS_H		-0.52	133.010
5,558.20	5,311.85	MNCS_I		-0.52	133.010

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,500.00	1,500.00	0.00	0.00	KOP Begin 3°/100' build
1,868.13	1,865.86	32.98	12.77	Begin 11.04° tangent
4,179.22	4,134.14	445.83	172.65	Begin 3°/100' drop
4,547.35	4,500.00	478.81	185.42	Begin vertical hold
4,804.93	4,757.58	478.81	185.42	Begin 10°/100' build
5,504.93	5,295.98	221.65	461.09	POE @ 5504.93 MD 5295.98 TVD
5,710.10	5,330.51	84.45	608.16	Begin 90.52° lateral
17,962.34	5,220.00	-8,272.90	9,566.95	PBHL @ 17962.34 MD 5220.00 TVD

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Project San Juan County, New Mexico NAD83 NM W

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

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

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

Well Nageezi Unit 217H, Surf loc: 1724 FSL 762 FWL Section 26-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,922,149.79 usft	**Latitude:**	36.28253700
	+E/-W	0.00 ft	**Easting:**	2,743,117.99 usft	**Longitude:**	-107.76538500
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,826.00 ft
Grid Convergence:		0.04 °				

Wellbore Original Hole

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/8/2024	8.53	62.73	49,065.89274249

Design rev0

Audit Notes:

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

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	133.010

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

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,962.34	rev0 (Original Hole)	MWD OWSG MWD - Standard	

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,868.13	11.04	21.169	1,865.86	32.98	12.77	3.00	3.00	0.00	21.17	
4,179.22	11.04	21.169	4,134.14	445.83	172.65	0.00	0.00	0.00	0.00	
4,547.35	0.00	0.000	4,500.00	478.81	185.42	3.00	-3.00	0.00	180.00	Nageezi 217H vert
4,804.93	0.00	0.000	4,757.58	478.81	185.42	0.00	0.00	0.00	0.00	
5,504.93	70.00	133.010	5,295.98	221.65	461.09	10.00	10.00	0.00	133.01	
5,710.10	90.52	133.011	5,330.51	84.45	608.16	10.00	10.00	0.00	0.00	
17,962.34	90.52	133.011	5,220.00	-8,272.90	9,566.95	0.00	0.00	0.00	0.00	Nageezi 217H BHL 1

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
100.00	0.00	0.000	100.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
200.00	0.00	0.000	200.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
300.00	0.00	0.000	300.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
350.00	0.00	0.000	350.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
500.00	0.00	0.000	500.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
600.00	0.00	0.000	600.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
700.00	0.00	0.000	700.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
800.00	0.00	0.000	800.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
831.00	0.00	0.000	831.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
Ojo Alamo									
900.00	0.00	0.000	900.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
956.00	0.00	0.000	956.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
Kirtland									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
1,100.00	0.00	0.000	1,100.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
1,200.00	0.00	0.000	1,200.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
1,246.00	0.00	0.000	1,246.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
Fruitland									
1,300.00	0.00	0.000	1,300.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
1,400.00	0.00	0.000	1,400.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
1,500.00	0.00	0.000	1,500.00	0.00	0.00	1,922,149.79	2,743,117.99	36.28253700	-107.76538500
KOP Begin 3°/100' build									
1,591.04	2.73	21.169	1,591.01	2.02	0.78	1,922,151.81	2,743,118.78	36.28254256	-107.76538234
Pictured Cliffs									
1,600.00	3.00	21.169	1,599.95	2.44	0.95	1,922,152.23	2,743,118.94	36.28254370	-107.76538179
1,700.00	6.00	21.169	1,699.63	9.76	3.78	1,922,159.54	2,743,121.77	36.28256379	-107.76537216
1,701.41	6.04	21.169	1,701.04	9.89	3.83	1,922,159.68	2,743,121.83	36.28256417	-107.76537198
Lewis									
1,800.00	9.00	21.169	1,798.77	21.93	8.49	1,922,171.71	2,743,126.49	36.28259722	-107.76535614
1,868.13	11.04	21.169	1,865.86	32.98	12.77	1,922,182.77	2,743,130.77	36.28262758	-107.76534159
Begin 11.04° tangent									
1,900.00	11.04	21.169	1,897.13	38.68	14.98	1,922,188.46	2,743,132.97	36.28264322	-107.76533410
2,000.00	11.04	21.169	1,995.28	56.54	21.89	1,922,206.33	2,743,139.89	36.28269227	-107.76531058
2,006.04	11.04	21.169	2,001.21	57.62	22.31	1,922,207.41	2,743,140.31	36.28269524	-107.76530916
Chacra_A									
2,100.00	11.04	21.169	2,093.43	74.40	28.81	1,922,224.19	2,743,146.81	36.28274133	-107.76528707
2,200.00	11.04	21.169	2,191.58	92.27	35.73	1,922,242.05	2,743,153.72	36.28279039	-107.76526355
2,300.00	11.04	21.169	2,289.73	110.13	42.65	1,922,259.92	2,743,160.64	36.28283945	-107.76524004
2,400.00	11.04	21.169	2,387.87	127.99	49.57	1,922,277.78	2,743,167.56	36.28288851	-107.76521653
2,500.00	11.04	21.169	2,486.02	145.86	56.48	1,922,295.64	2,743,174.48	36.28293757	-107.76519301
2,600.00	11.04	21.169	2,584.17	163.72	63.40	1,922,313.51	2,743,181.40	36.28298663	-107.76516950
2,700.00	11.04	21.169	2,682.32	181.58	70.32	1,922,331.37	2,743,188.31	36.28303569	-107.76514598
2,800.00	11.04	21.169	2,780.47	199.45	77.24	1,922,349.24	2,743,195.23	36.28308475	-107.76512247
2,900.00	11.04	21.169	2,878.61	217.31	84.15	1,922,367.10	2,743,202.15	36.28313381	-107.76509895
3,000.00	11.04	21.169	2,976.76	235.18	91.07	1,922,384.96	2,743,209.07	36.28318287	-107.76507544
3,100.00	11.04	21.169	3,074.91	253.04	97.99	1,922,402.83	2,743,215.98	36.28323192	-107.76505193
3,117.34	11.04	21.169	3,091.93	256.14	99.19	1,922,405.92	2,743,217.18	36.28324043	-107.76504785
Cliff House_Basal									
3,147.92	11.04	21.169	3,121.95	261.60	101.31	1,922,411.39	2,743,219.30	36.28325544	-107.76504066
Menefee									

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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
3,200.00	11.04	21.169	3,173.06	270.90	104.91	1,922,420.69	2,743,222.90	36.28328098	-107.76502841
3,300.00	11.04	21.169	3,271.21	288.77	111.83	1,922,438.55	2,743,229.82	36.28333004	-107.76500490
3,400.00	11.04	21.169	3,369.35	306.63	118.74	1,922,456.42	2,743,236.74	36.28337910	-107.76498138
3,500.00	11.04	21.169	3,467.50	324.49	125.66	1,922,474.28	2,743,243.65	36.28342816	-107.76495787
3,600.00	11.04	21.169	3,565.65	342.36	132.58	1,922,492.14	2,743,250.57	36.28347722	-107.76493435
3,700.00	11.04	21.169	3,663.80	360.22	139.50	1,922,510.01	2,743,257.49	36.28352628	-107.76491084
3,800.00	11.04	21.169	3,761.95	378.08	146.41	1,922,527.87	2,743,264.41	36.28357534	-107.76488732
3,900.00	11.04	21.169	3,860.10	395.95	153.33	1,922,545.74	2,743,271.33	36.28362440	-107.76486381
4,000.00	11.04	21.169	3,958.24	413.81	160.25	1,922,563.60	2,743,278.24	36.28367346	-107.76484029
4,100.00	11.04	21.169	4,056.39	431.68	167.17	1,922,581.46	2,743,285.16	36.28372251	-107.76481678
4,104.25	11.04	21.169	4,060.57	432.44	167.46	1,922,582.22	2,743,285.45	36.28372460	-107.76481578
Point Lookout									
4,179.22	11.04	21.169	4,134.14	445.83	172.65	1,922,595.61	2,743,290.64	36.28376138	-107.76479815
Begin 3°/100' drop									
4,200.00	10.42	21.169	4,154.56	449.44	174.04	1,922,599.22	2,743,292.04	36.28377129	-107.76479340
4,300.00	7.42	21.169	4,253.34	463.89	179.64	1,922,613.68	2,743,297.64	36.28381100	-107.76477437
4,309.42	7.14	21.169	4,262.68	465.01	180.07	1,922,614.79	2,743,298.07	36.28381405	-107.76477290
Mancos									
4,400.00	4.42	21.169	4,352.79	473.51	183.37	1,922,623.30	2,743,301.36	36.28383741	-107.76476171
4,500.00	1.42	21.169	4,452.65	478.26	185.21	1,922,628.05	2,743,303.20	36.28385046	-107.76475546
4,547.35	0.00	0.000	4,500.00	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
Begin vertical hold									
4,600.00	0.00	0.000	4,552.65	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
4,668.09	0.00	0.000	4,620.73	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
MNCS_A									
4,700.00	0.00	0.000	4,652.65	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
4,751.09	0.00	0.000	4,703.73	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
MNCS_B									
4,804.93	0.00	0.000	4,757.58	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
Begin 10°/100' build									
4,850.00	4.51	133.010	4,802.60	477.60	186.72	1,922,627.39	2,743,304.71	36.28384864	-107.76475034
4,855.13	5.02	133.010	4,807.71	477.31	187.03	1,922,627.10	2,743,305.02	36.28384784	-107.76474929
MNCS_C									
4,900.00	9.51	133.010	4,852.21	473.44	191.17	1,922,623.23	2,743,309.17	36.28383720	-107.76473522
4,902.48	9.75	133.010	4,854.66	473.16	191.48	1,922,622.95	2,743,309.47	36.28383643	-107.76473420
MNCS_Cms									
4,950.00	14.51	133.010	4,901.10	466.35	198.78	1,922,616.14	2,743,316.77	36.28381770	-107.76470944
5,000.00	19.51	133.010	4,948.90	456.38	209.47	1,922,606.16	2,743,327.46	36.28379029	-107.76467319
5,026.16	22.12	133.010	4,973.35	450.04	216.26	1,922,599.82	2,743,334.26	36.28377286	-107.76465015
MNCS_D									
5,050.00	24.51	133.010	4,995.24	443.60	223.16	1,922,593.39	2,743,341.16	36.28375516	-107.76462675
5,100.00	29.51	133.010	5,039.78	428.12	239.76	1,922,577.90	2,743,357.75	36.28371260	-107.76457048
5,149.58	34.47	133.010	5,081.82	410.21	258.96	1,922,559.99	2,743,376.96	36.28366336	-107.76450537
MNCS_E									
5,150.00	34.51	133.010	5,082.16	410.05	259.13	1,922,559.83	2,743,377.13	36.28366292	-107.76450479
5,200.00	39.51	133.010	5,122.08	389.52	281.13	1,922,539.31	2,743,399.13	36.28360650	-107.76443019
5,239.01	43.41	133.010	5,151.31	371.91	300.02	1,922,521.70	2,743,418.01	36.28355807	-107.76436617
MNCS_F									
5,250.00	44.51	133.010	5,159.22	366.71	305.59	1,922,516.49	2,743,423.59	36.28354377	-107.76434726
5,300.00	49.51	133.010	5,193.31	341.77	332.33	1,922,491.56	2,743,450.32	36.28347521	-107.76425661
5,350.00	54.51	133.010	5,224.07	314.90	361.13	1,922,464.69	2,743,479.13	36.28340134	-107.76415894
5,357.69	55.28	133.010	5,228.50	310.61	365.73	1,922,460.39	2,743,483.72	36.28338955	-107.76414335
MNCS_G									

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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
5,400.00	59.51	133.010	5,251.29	286.30	391.79	1,922,436.09	2,743,509.78	36.28332272	-107.76405500
5,441.07	63.61	133.010	5,270.84	261.68	418.19	1,922,411.46	2,743,536.18	36.28325502	-107.76396548
MNCS_H									
5,450.00	64.51	133.010	5,274.75	256.19	424.06	1,922,405.98	2,743,542.06	36.28323996	-107.76394556
5,504.93	70.00	133.010	5,295.98	221.65	461.09	1,922,371.44	2,743,579.08	36.28314499	-107.76382001
POE @ 5504.93 MD 5295.98 TVD									
5,550.00	74.51	133.010	5,309.72	192.38	492.47	1,922,342.17	2,743,610.46	36.28306452	-107.76371361
5,558.20	75.33	133.010	5,311.85	186.98	498.26	1,922,336.77	2,743,616.25	36.28304968	-107.76369399
MNCS_I									
5,600.00	79.51	133.010	5,320.96	159.16	528.09	1,922,308.94	2,743,646.08	36.28297318	-107.76359285
5,604.93	80.00	133.010	5,321.83	155.85	531.63	1,922,305.64	2,743,649.63	36.28296409	-107.76358083
7" Intermediate Casing									
5,650.00	84.51	133.011	5,327.91	125.39	564.28	1,922,275.18	2,743,682.27	36.28288036	-107.76347013
5,700.00	89.51	133.011	5,330.52	91.34	600.78	1,922,241.13	2,743,718.77	36.28278675	-107.76334637
5,710.10	90.52	133.011	5,330.51	84.45	608.16	1,922,234.24	2,743,726.16	36.28276781	-107.76332133
Begin 90.52° lateral									
5,800.00	90.52	133.011	5,329.70	23.13	673.90	1,922,172.92	2,743,791.89	36.28259923	-107.76309845
5,900.00	90.52	133.011	5,328.80	-45.08	747.02	1,922,104.71	2,743,865.01	36.28241170	-107.76285052
6,000.00	90.52	133.011	5,327.90	-113.29	820.14	1,922,036.50	2,743,938.13	36.28222418	-107.76260260
6,100.00	90.52	133.011	5,327.00	-181.50	893.26	1,921,968.29	2,744,011.25	36.28203665	-107.76235468
6,200.00	90.52	133.011	5,326.10	-249.71	966.38	1,921,900.08	2,744,084.37	36.28184912	-107.76210676
6,300.00	90.52	133.011	5,325.19	-317.92	1,039.50	1,921,831.87	2,744,157.49	36.28166160	-107.76185885
6,400.00	90.52	133.011	5,324.29	-386.13	1,112.62	1,921,763.66	2,744,230.61	36.28147407	-107.76161093
6,500.00	90.52	133.011	5,323.39	-454.34	1,185.74	1,921,695.45	2,744,303.73	36.28128654	-107.76136302
6,600.00	90.52	133.011	5,322.49	-522.55	1,258.86	1,921,627.23	2,744,376.85	36.28109901	-107.76111510
6,700.00	90.52	133.011	5,321.59	-590.76	1,331.98	1,921,559.02	2,744,449.97	36.28091148	-107.76086719
6,800.00	90.52	133.011	5,320.68	-658.98	1,405.10	1,921,490.81	2,744,523.09	36.28072395	-107.76061928
6,900.00	90.52	133.011	5,319.78	-727.19	1,478.21	1,921,422.60	2,744,596.21	36.28053642	-107.76037137
7,000.00	90.52	133.011	5,318.88	-795.40	1,551.33	1,921,354.39	2,744,669.33	36.28034889	-107.76012346
7,100.00	90.52	133.011	5,317.98	-863.61	1,624.45	1,921,286.18	2,744,742.44	36.28016136	-107.75987555
7,200.00	90.52	133.011	5,317.08	-931.82	1,697.57	1,921,217.97	2,744,815.56	36.27997383	-107.75962764
7,300.00	90.52	133.011	5,316.17	-1,000.03	1,770.69	1,921,149.76	2,744,888.68	36.27978630	-107.75937974
7,400.00	90.52	133.011	5,315.27	-1,068.24	1,843.81	1,921,081.55	2,744,961.80	36.27959876	-107.75913183
7,500.00	90.52	133.011	5,314.37	-1,136.45	1,916.93	1,921,013.34	2,745,034.92	36.27941123	-107.75888393
7,600.00	90.52	133.011	5,313.47	-1,204.66	1,990.05	1,920,945.13	2,745,108.04	36.27922370	-107.75863603
7,700.00	90.52	133.011	5,312.57	-1,272.87	2,063.17	1,920,876.92	2,745,181.16	36.27903616	-107.75838813
7,800.00	90.52	133.011	5,311.66	-1,341.08	2,136.29	1,920,808.71	2,745,254.28	36.27884863	-107.75814023
7,900.00	90.52	133.011	5,310.76	-1,409.29	2,209.41	1,920,740.50	2,745,327.40	36.27866109	-107.75789233
8,000.00	90.52	133.011	5,309.86	-1,477.51	2,282.53	1,920,672.29	2,745,400.52	36.27847356	-107.75764443
8,100.00	90.52	133.011	5,308.96	-1,545.72	2,355.65	1,920,604.07	2,745,473.64	36.27828602	-107.75739654
8,200.00	90.52	133.011	5,308.06	-1,613.93	2,428.77	1,920,535.86	2,745,546.76	36.27809848	-107.75714864
8,300.00	90.52	133.011	5,307.15	-1,682.14	2,501.89	1,920,467.65	2,745,619.88	36.27791095	-107.75690075
8,400.00	90.52	133.011	5,306.25	-1,750.35	2,575.01	1,920,399.44	2,745,693.00	36.27772341	-107.75665286
8,500.00	90.52	133.011	5,305.35	-1,818.56	2,648.13	1,920,331.23	2,745,766.12	36.27753587	-107.75640496
8,600.00	90.52	133.011	5,304.45	-1,886.77	2,721.25	1,920,263.02	2,745,839.24	36.27734833	-107.75615707
8,700.00	90.52	133.011	5,303.55	-1,954.98	2,794.37	1,920,194.81	2,745,912.36	36.27716079	-107.75590918
8,800.00	90.52	133.011	5,302.64	-2,023.19	2,867.49	1,920,126.60	2,745,985.48	36.27697325	-107.75566130
8,900.00	90.52	133.011	5,301.74	-2,091.40	2,940.61	1,920,058.39	2,746,058.59	36.27678571	-107.75541341
9,000.00	90.52	133.011	5,300.84	-2,159.61	3,013.73	1,919,990.18	2,746,131.71	36.27659817	-107.75516552
9,100.00	90.52	133.011	5,299.94	-2,227.82	3,086.85	1,919,921.97	2,746,204.83	36.27641063	-107.75491764
9,200.00	90.52	133.011	5,299.04	-2,296.03	3,159.97	1,919,853.76	2,746,277.95	36.27622309	-107.75466976
9,300.00	90.52	133.011	5,298.13	-2,364.25	3,233.08	1,919,785.55	2,746,351.07	36.27603554	-107.75442188
9,400.00	90.52	133.011	5,297.23	-2,432.46	3,306.20	1,919,717.34	2,746,424.19	36.27584800	-107.75417400
9,500.00	90.52	133.011	5,296.33	-2,500.67	3,379.32	1,919,649.13	2,746,497.31	36.27566046	-107.75392612

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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
9,600.00	90.52	133.011	5,295.43	-2,568.88	3,452.44	1,919,580.91	2,746,570.43	36.27547291	-107.75367824
9,700.00	90.52	133.011	5,294.53	-2,637.09	3,525.56	1,919,512.70	2,746,643.55	36.27528537	-107.75343036
9,800.00	90.52	133.011	5,293.62	-2,705.30	3,598.68	1,919,444.49	2,746,716.67	36.27509782	-107.75318248
9,900.00	90.52	133.011	5,292.72	-2,773.51	3,671.80	1,919,376.28	2,746,789.79	36.27491028	-107.75293461
10,000.00	90.52	133.011	5,291.82	-2,841.72	3,744.92	1,919,308.07	2,746,862.91	36.27472273	-107.75268674
10,100.00	90.52	133.011	5,290.92	-2,909.93	3,818.04	1,919,239.86	2,746,936.03	36.27453518	-107.75243886
10,200.00	90.52	133.011	5,290.02	-2,978.14	3,891.16	1,919,171.65	2,747,009.15	36.27434764	-107.75219099
10,300.00	90.52	133.011	5,289.11	-3,046.35	3,964.28	1,919,103.44	2,747,082.27	36.27416009	-107.75194312
10,400.00	90.52	133.011	5,288.21	-3,114.56	4,037.40	1,919,035.23	2,747,155.39	36.27397254	-107.75169525
10,500.00	90.52	133.011	5,287.31	-3,182.78	4,110.52	1,918,967.02	2,747,228.51	36.27378499	-107.75144739
10,600.00	90.52	133.011	5,286.41	-3,250.99	4,183.64	1,918,898.81	2,747,301.63	36.27359744	-107.75119952
10,700.00	90.52	133.011	5,285.51	-3,319.20	4,256.76	1,918,830.60	2,747,374.74	36.27340989	-107.75095165
10,800.00	90.52	133.011	5,284.60	-3,387.41	4,329.88	1,918,762.39	2,747,447.86	36.27322234	-107.75070379
10,900.00	90.52	133.011	5,283.70	-3,455.62	4,403.00	1,918,694.18	2,747,520.98	36.27303479	-107.75045593
11,000.00	90.52	133.011	5,282.80	-3,523.83	4,476.12	1,918,625.97	2,747,594.10	36.27284724	-107.75020807
11,100.00	90.52	133.011	5,281.90	-3,592.04	4,549.24	1,918,557.75	2,747,667.22	36.27265969	-107.74996021
11,200.00	90.52	133.011	5,281.00	-3,660.25	4,622.36	1,918,489.54	2,747,740.34	36.27247214	-107.74971235
11,300.00	90.52	133.011	5,280.09	-3,728.46	4,695.48	1,918,421.33	2,747,813.46	36.27228458	-107.74946449
11,400.00	90.52	133.011	5,279.19	-3,796.67	4,768.60	1,918,353.12	2,747,886.58	36.27209703	-107.74921663
11,500.00	90.52	133.011	5,278.29	-3,864.88	4,841.72	1,918,284.91	2,747,959.70	36.27190948	-107.74896878
11,600.00	90.52	133.011	5,277.39	-3,933.09	4,914.84	1,918,216.70	2,748,032.82	36.27172192	-107.74872092
11,700.00	90.52	133.011	5,276.49	-4,001.30	4,987.95	1,918,148.49	2,748,105.94	36.27153437	-107.74847307
11,800.00	90.52	133.011	5,275.58	-4,069.52	5,061.07	1,918,080.28	2,748,179.06	36.27134681	-107.74822521
11,900.00	90.52	133.011	5,274.68	-4,137.73	5,134.19	1,918,012.07	2,748,252.18	36.27115925	-107.74797736
12,000.00	90.52	133.011	5,273.78	-4,205.94	5,207.31	1,917,943.86	2,748,325.30	36.27097170	-107.74772951
12,100.00	90.52	133.011	5,272.88	-4,274.15	5,280.43	1,917,875.65	2,748,398.42	36.27078414	-107.74748167
12,200.00	90.52	133.011	5,271.98	-4,342.36	5,353.55	1,917,807.44	2,748,471.54	36.27059658	-107.74723382
12,300.00	90.52	133.011	5,271.07	-4,410.57	5,426.67	1,917,739.23	2,748,544.66	36.27040903	-107.74698597
12,400.00	90.52	133.011	5,270.17	-4,478.78	5,499.79	1,917,671.02	2,748,617.77	36.27022147	-107.74673813
12,500.00	90.52	133.011	5,269.27	-4,546.99	5,572.91	1,917,602.81	2,748,690.89	36.27003391	-107.74649028
12,600.00	90.52	133.011	5,268.37	-4,615.20	5,646.03	1,917,534.59	2,748,764.01	36.26984635	-107.74624244
12,700.00	90.52	133.011	5,267.47	-4,683.41	5,719.15	1,917,466.38	2,748,837.13	36.26965879	-107.74599460
12,800.00	90.52	133.011	5,266.56	-4,751.62	5,792.27	1,917,398.17	2,748,910.25	36.26947123	-107.74574676
12,900.00	90.52	133.011	5,265.66	-4,819.83	5,865.39	1,917,329.96	2,748,983.37	36.26928367	-107.74549892
13,000.00	90.52	133.011	5,264.76	-4,888.05	5,938.51	1,917,261.75	2,749,056.49	36.26909610	-107.74525108
13,100.00	90.52	133.011	5,263.86	-4,956.26	6,011.63	1,917,193.54	2,749,129.61	36.26890854	-107.74500324
13,200.00	90.52	133.011	5,262.96	-5,024.47	6,084.75	1,917,125.33	2,749,202.73	36.26872098	-107.74475541
13,300.00	90.52	133.011	5,262.05	-5,092.68	6,157.87	1,917,057.12	2,749,275.85	36.26853342	-107.74450757
13,400.00	90.52	133.011	5,261.15	-5,160.89	6,230.99	1,916,988.91	2,749,348.97	36.26834585	-107.74425974
13,500.00	90.52	133.011	5,260.25	-5,229.10	6,304.11	1,916,920.70	2,749,422.09	36.26815829	-107.74401191
13,600.00	90.52	133.011	5,259.35	-5,297.31	6,377.23	1,916,852.49	2,749,495.21	36.26797072	-107.74376408
13,700.00	90.52	133.011	5,258.45	-5,365.52	6,450.35	1,916,784.28	2,749,568.33	36.26778316	-107.74351625
13,800.00	90.52	133.011	5,257.54	-5,433.73	6,523.47	1,916,716.07	2,749,641.45	36.26759559	-107.74326842
13,900.00	90.52	133.011	5,256.64	-5,501.94	6,596.59	1,916,647.86	2,749,714.57	36.26740802	-107.74302059
14,000.00	90.52	133.011	5,255.74	-5,570.15	6,669.71	1,916,579.65	2,749,787.69	36.26722046	-107.74277277
14,100.00	90.52	133.011	5,254.84	-5,638.36	6,742.82	1,916,511.43	2,749,860.81	36.26703289	-107.74252494
14,200.00	90.52	133.011	5,253.94	-5,706.57	6,815.94	1,916,443.22	2,749,933.92	36.26684532	-107.74227712
14,300.00	90.52	133.011	5,253.03	-5,774.79	6,889.06	1,916,375.01	2,750,007.04	36.26665775	-107.74202930
14,400.00	90.52	133.011	5,252.13	-5,843.00	6,962.18	1,916,306.80	2,750,080.16	36.26647018	-107.74178147
14,500.00	90.52	133.011	5,251.23	-5,911.21	7,035.30	1,916,238.59	2,750,153.28	36.26628262	-107.74153365
14,600.00	90.52	133.011	5,250.33	-5,979.42	7,108.42	1,916,170.38	2,750,226.40	36.26609505	-107.74128583
14,700.00	90.52	133.011	5,249.43	-6,047.63	7,181.54	1,916,102.17	2,750,299.52	36.26590747	-107.74103802
14,800.00	90.52	133.011	5,248.52	-6,115.84	7,254.66	1,916,033.96	2,750,372.64	36.26571990	-107.74079020
14,900.00	90.52	133.011	5,247.62	-6,184.05	7,327.78	1,915,965.75	2,750,445.76	36.26553233	-107.74054238
15,000.00	90.52	133.011	5,246.72	-6,252.26	7,400.90	1,915,897.54	2,750,518.88	36.26534476	-107.74029457

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**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
15,100.00	90.52	133.011	5,245.82	-6,320.47	7,474.02	1,915,829.33	2,750,592.00	36.26515719	-107.74004676
15,200.00	90.52	133.011	5,244.92	-6,388.68	7,547.14	1,915,761.12	2,750,665.12	36.26496961	-107.73979895
15,300.00	90.52	133.011	5,244.01	-6,456.89	7,620.26	1,915,692.91	2,750,738.24	36.26478204	-107.73955113
15,400.00	90.52	133.011	5,243.11	-6,525.10	7,693.38	1,915,624.70	2,750,811.36	36.26459447	-107.73930333
15,500.00	90.52	133.011	5,242.21	-6,593.32	7,766.50	1,915,556.49	2,750,884.48	36.26440689	-107.73905552
15,600.00	90.52	133.011	5,241.31	-6,661.53	7,839.62	1,915,488.27	2,750,957.60	36.26421932	-107.73880771
15,700.00	90.52	133.011	5,240.41	-6,729.74	7,912.74	1,915,420.06	2,751,030.72	36.26403174	-107.73855990
15,800.00	90.52	133.011	5,239.50	-6,797.95	7,985.86	1,915,351.85	2,751,103.84	36.26384416	-107.73831210
15,900.00	90.52	133.011	5,238.60	-6,866.16	8,058.98	1,915,283.64	2,751,176.96	36.26365659	-107.73806430
16,000.00	90.52	133.011	5,237.70	-6,934.37	8,132.10	1,915,215.43	2,751,250.07	36.26346901	-107.73781649
16,100.00	90.52	133.011	5,236.80	-7,002.58	8,205.22	1,915,147.22	2,751,323.19	36.26328143	-107.73756869
16,200.00	90.52	133.011	5,235.90	-7,070.79	8,278.34	1,915,079.01	2,751,396.31	36.26309385	-107.73732089
16,300.00	90.52	133.011	5,234.99	-7,139.00	8,351.46	1,915,010.80	2,751,469.43	36.26290628	-107.73707309
16,400.00	90.52	133.011	5,234.09	-7,207.21	8,424.58	1,914,942.59	2,751,542.55	36.26271870	-107.73682529
16,500.00	90.52	133.011	5,233.19	-7,275.42	8,497.69	1,914,874.38	2,751,615.67	36.26253112	-107.73657750
16,600.00	90.52	133.011	5,232.29	-7,343.63	8,570.81	1,914,806.17	2,751,688.79	36.26234354	-107.73632970
16,700.00	90.52	133.011	5,231.39	-7,411.84	8,643.93	1,914,737.96	2,751,761.91	36.26215596	-107.73608191
16,800.00	90.52	133.011	5,230.48	-7,480.06	8,717.05	1,914,669.75	2,751,835.03	36.26196837	-107.73583412
16,900.00	90.52	133.011	5,229.58	-7,548.27	8,790.17	1,914,601.54	2,751,908.15	36.26178079	-107.73558632
17,000.00	90.52	133.011	5,228.68	-7,616.48	8,863.29	1,914,533.33	2,751,981.27	36.26159321	-107.73533853
17,100.00	90.52	133.011	5,227.78	-7,684.69	8,936.41	1,914,465.11	2,752,054.39	36.26140563	-107.73509074
17,200.00	90.52	133.011	5,226.88	-7,752.90	9,009.53	1,914,396.90	2,752,127.51	36.26121804	-107.73484296
17,300.00	90.52	133.011	5,225.97	-7,821.11	9,082.65	1,914,328.69	2,752,200.63	36.26103046	-107.73459517
17,400.00	90.52	133.011	5,225.07	-7,889.32	9,155.77	1,914,260.48	2,752,273.75	36.26084287	-107.73434738
17,500.00	90.52	133.011	5,224.17	-7,957.53	9,228.89	1,914,192.27	2,752,346.87	36.26065529	-107.73409960
17,600.00	90.52	133.011	5,223.27	-8,025.74	9,302.01	1,914,124.06	2,752,419.99	36.26046770	-107.73385182
17,700.00	90.52	133.011	5,222.37	-8,093.95	9,375.13	1,914,055.85	2,752,493.11	36.26028012	-107.73360403
17,800.00	90.52	133.011	5,221.46	-8,162.16	9,448.25	1,913,987.64	2,752,566.22	36.26009253	-107.73335625
17,900.00	90.52	133.011	5,220.56	-8,230.37	9,521.37	1,913,919.43	2,752,639.34	36.25990494	-107.73310847
17,962.34	90.52	133.011	5,220.00	-8,272.90	9,566.95	1,913,876.91	2,752,684.93	36.25978800	-107.73295400
PBHL @ 17962.34 MD 5220.00 TVD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Nageezi 217H vert - plan hits target center - Point	0.00	0.000	4,500.00	478.81	185.42	1,922,628.60	2,743,303.41	36.28385196	-107.76475474
Nageezi 217H BHL 137 - plan hits target center - Point	0.00	0.000	5,220.00	-8,272.90	9,566.95	1,913,876.91	2,752,684.93	36.25978800	-107.73295400
Nageezi 217H PPP/POE - plan misses target center by 3.78ft at 5506.15ft MD (5296.40 TVD, 220.87 N, 461.93 E) - Point	0.00	0.000	5,300.00	221.66	461.09	1,922,371.44	2,743,579.09	36.28314500	-107.76382000
Nageezi 217H 0 VS - plan misses target center by 118.53ft at 5367.74ft MD (5234.15 TVD, 304.94 N, 371.81 E) - Point	0.00	0.000	5,334.00	348.51	325.10	1,922,498.30	2,743,443.09	36.28349375	-107.76428112

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 217H
Company:	Enduring Resources LLC	**TVD Reference:**	RKB=6826+25 @ 6851.00ft
Project:	San Juan County, New Mexico NAD83 NM W	**MD Reference:**	RKB=6826+25 @ 6851.00ft
Site:	Nageezi Unit (213, 214, 215, 216, 217 & 218)	**North Reference:**	Grid
Well:	Nageezi Unit 217H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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
5,604.93	5,321.83	7" Intermediate Casing	7	8-1/2

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
831.00	831.00	Ojo Alamo		-0.52	133.010
956.00	956.00	Kirtland		-0.52	133.010
1,246.00	1,246.00	Fruitland		-0.52	133.010
1,591.04	1,591.01	Pictured Cliffs		-0.52	133.010
1,701.41	1,701.04	Lewis		-0.52	133.010
2,006.04	2,001.21	Chacra_A		-0.52	133.010
3,117.34	3,091.93	Cliff House_Basal		-0.52	133.010
3,147.92	3,121.95	Menefee		-0.52	133.010
4,104.25	4,060.57	Point Lookout		-0.52	133.010
4,309.42	4,262.68	Mancos		-0.52	133.010
4,668.09	4,620.73	MNCS_A		-0.52	133.010
4,751.09	4,703.73	MNCS_B		-0.52	133.010
4,855.13	4,807.71	MNCS_C		-0.52	133.010
4,902.48	4,854.66	MNCS_Cms		-0.52	133.010
5,026.16	4,973.35	MNCS_D		-0.52	133.010
5,149.58	5,081.82	MNCS_E		-0.52	133.010
5,239.01	5,151.31	MNCS_F		-0.52	133.010
5,357.69	5,228.50	MNCS_G		-0.52	133.010
5,441.07	5,270.84	MNCS_H		-0.52	133.010
5,558.20	5,311.85	MNCS_I		-0.52	133.010

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,500.00	1,500.00	0.00	0.00	KOP Begin 3°/100' build
1,868.13	1,865.86	32.98	12.77	Begin 11.04° tangent
4,179.22	4,134.14	445.83	172.65	Begin 3°/100' drop
4,547.35	4,500.00	478.81	185.42	Begin vertical hold
4,804.93	4,757.58	478.81	185.42	Begin 10°/100' build
5,504.93	5,295.98	221.65	461.09	POE @ 5504.93 MD 5295.98 TVD
5,710.10	5,330.51	84.45	608.16	Begin 90.52° lateral
17,962.34	5,220.00	-8,272.90	9,566.95	PBHL @ 17962.34 MD 5220.00 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 334009

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 334009
	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