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 / 36.282638 / -107.765334

County or Parish/State: SAN JUAN / NM

Well Number: 215H

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: 3004538295

Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2785161

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 04/15/2024

Time Sundry Submitted: 02:30

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

215H_Revised_DPR_04.11.24_20240415143042.pdf

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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 02:30 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 215H**
API Number: 30-045-38295
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: 46289 Sec-Twn-Rng 1,761 ft FSL 777 ft FWL
36.282638 ○ N latitude 107.765334 ○ W longitude (NAD 83)
BH Location: 47020 Sec-Twn-Rng 142 ft FNL 130 ft FWL
36.291963 ○ N latitude 107.803107 ○ 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	1,247	G, W	sub
Pictured Cliffs	5,260	1,591	1,601	G, W	sub
Lewis	5,150	1,701	1,717	G, W	normal
Chacra	4,851	2,000	2,050	G, W	normal
Cliff House	3,763	3,088	3,273	G, W	sub
Menefee	3,733	3,118	3,306	G, W	normal
Point Lookout	2,809	4,042	4,344	G, W	normal
Mancos	2,620	4,231	4,557	O,G	sub (~0.38)
Gallup (MNCS_A)	2,273	4,578	4,947	O,G	sub (~0.38)
MNCS_B	2,183	4,668	5,048	O,G	sub (~0.38)
MNCS_C	2,078	4,773	5,167	O,G	sub (~0.38)
MNCS_Cms	2,036	4,815	5,214	O,G	sub (~0.38)
MNCS_D	1,914	4,937	5,351	O,G	sub (~0.38)
MNCS_E	1,806	5,045	5,478	O,G	sub (~0.38)
MNCS_F	1,736	5,115	5,571	O,G	sub (~0.38)
MNCS_G	1,657	5,194	5,699	O,G	sub (~0.38)
MNCS_H	1,617	5,234	5,780	O,G	sub (~0.38)
MNCS_I	1,577	5,274	5,896	O,G	sub (~0.38)
FTP TARGET	**1,594**	**5,257**	**5,839**	**O,G**	**sub (~0.38)**
PROJECTED TD	**1,598**	**5,253**	**15,632**	**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: 2,270 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	1,129	110,988	110,988
Min. S.F.					**13.21**	**3.12**	**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	5,939 ft (MD)	Hole Section Length:	5,589 ft
350 ft (TVD)	to	5,283 ft (TVD)	Casing Required:	5,939 ft

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

Hole Size: 8.75

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

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

Logging: None

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

Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,308	1,422	234,657	234,657
Min. S.F.					**1.87**	**3.50**	**1.77**	**1.56**

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	518	1,108
Tail	Type III	14.6	1.380	6.64	20%	4,457	201	277

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.*

5,939	ft (MD)	to	15,632	ft (MD)	Hole Section Length:	9,693 ft	
5,283	ft (TVD)	to	5,253	ft (TVD)	Casing Required:	9,843 ft	
		Estimated KOP:	5,347	ft (MD)	4,934	ft (TVD)	
		Estimated Liner Top:	5,789	ft (MD)	5,238	ft (TVD)	
		Estimated Landing Point (FTP):	5,839	ft (MD)	5,257	ft (TVD)	
		Estimated Lateral Length:	9,793	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					2,595	8,800	256,472	256,472
Min. S.F.					**2.91**	**1.21**	**1.43**	**1.50**

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%	5,789	804	1,254
Displacement	*210*	*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 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: 9,693

Est Frac Inform: *40 Frac Stages 156,000 bbls slick water 12,610,000 lbs proppant*

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

Flowback: Flow back through production tubing as pressures allow

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

ESTIMATED START DATES:

Drilling: 5/16/2024

Completion: 7/15/2024

Production: 8/29/2024

Prepared by: **Greg Olson** **1/25/2024**

Updated: **Greg Olson** **4/11/2024**

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

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

Magnetic Field
Strength: 49066.0nT
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
1922186.56	2743133.00	36.28263800	-107.76533400

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

Section Details

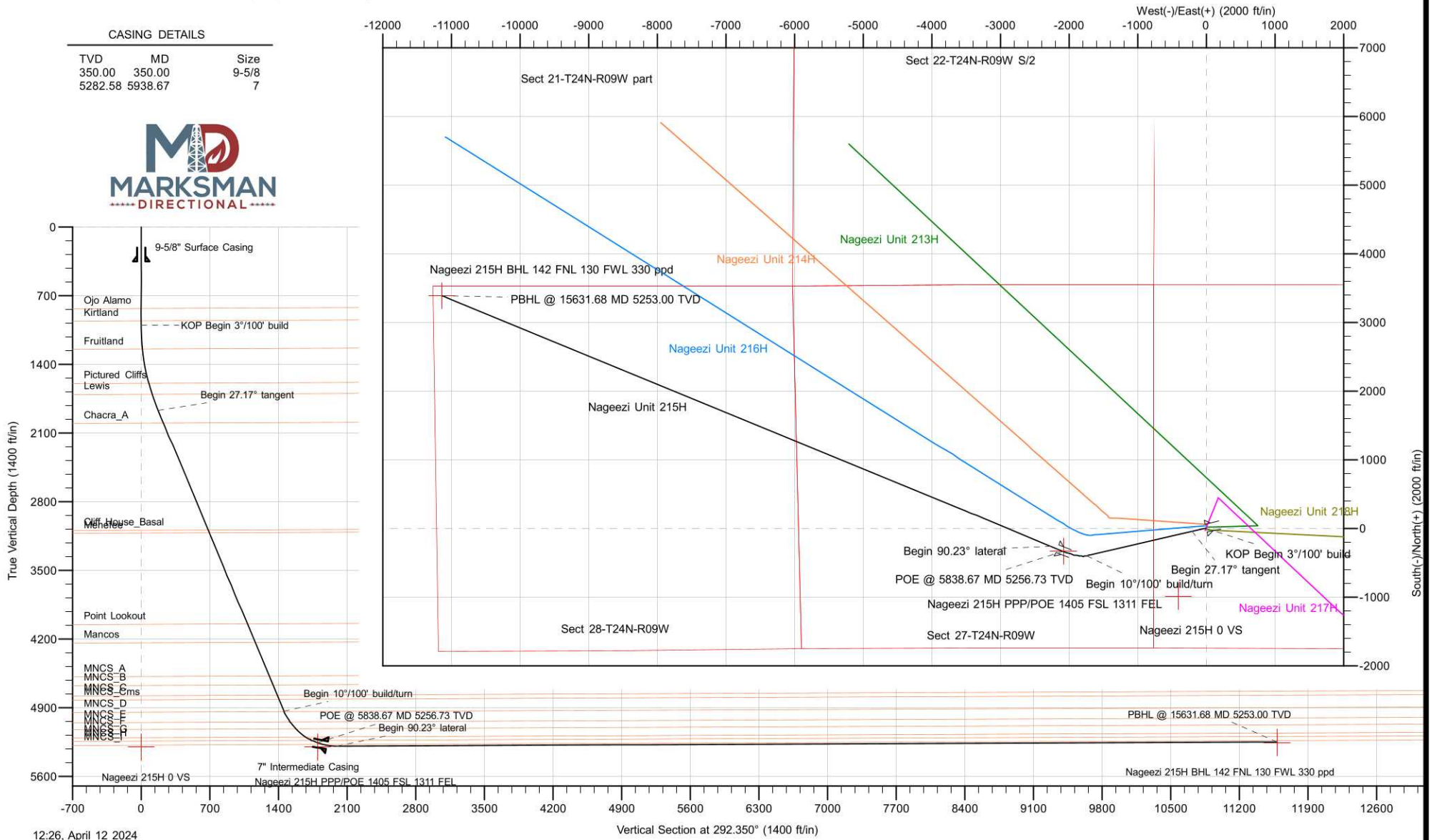
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	0.000	1000.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3°/100' build
3	1905.51	27.17	257.002	1871.96	-47.38	-205.27	3.00	257.00	171.83	Begin 27.17° tangent
4	5347.28	27.17	257.002	4934.08	-400.81	-1736.38	0.00	0.00	1453.53	Begin 10°/100' build/turn
5	5838.67	70.00	292.350	5256.73	-334.10	-2080.58	10.00	45.96	1797.23	POE @ 5838.67 MD 5256.73 TVD
6	6040.95	90.23	292.354	5291.28	-258.71	-2263.93	10.00	0.01	1995.48	Begin 90.23° lateral
7	15631.68	90.23	292.354	5253.00	3388.89	-11133.86	0.00	0.00	11586.13	PBHL @ 15631.68 MD 5253.00 TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Nageezi 215H 0 VS	5301.00	-988.51	-406.42	1921198.05	2742726.58	36.27992328	-107.76671527
Nageezi 215H BHL 142 FNL 130 FWL 330 ppd	5253.00	3388.89	-11133.86	1925575.45	2731999.16	36.29196300	-107.80310700
Nageezi 215H PPP/POE 1405 FSL 1311 FEL	5301.00	-334.10	-2080.58	1921852.46	2741052.42	36.28172400	-107.77239400

CASING DETAILS

TVD	MD	Size
350.00	350.00	9-5/8
5282.58	5938.67	7



12:26, April 12 2024

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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 215H, Surf loc: 1761 FSL 777 FWL Section 26-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,922,186.56 usft	**Latitude:**	36.28263800
	+E/-W	0.00 ft	**Easting:**	2,743,133.00 usft	**Longitude:**	-107.76533400
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	49,065.95629991

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	292.350

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

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,631.65	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,905.51	27.17	257.002	1,871.96	-47.38	-205.27	3.00	3.00	0.00	257.00	
5,347.28	27.17	257.002	4,934.08	-400.81	-1,736.38	0.00	0.00	0.00	0.00	
5,838.67	70.00	292.350	5,256.73	-334.10	-2,080.58	10.00	8.72	7.19	45.96	
6,040.95	90.23	292.354	5,291.28	-258.71	-2,263.93	10.00	10.00	0.00	0.01	
15,631.68	90.23	292.354	5,253.00	3,388.89	-11,133.86	0.00	0.00	0.00	0.00	Nageezi 215H BHL 1

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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
KOP Begin 3°/100' build									
1,100.00	3.00	257.002	1,099.95	-0.59	-2.55	2.13	3.00	3.00	0.00
1,200.00	6.00	257.002	1,199.63	-2.35	-10.19	8.53	3.00	3.00	0.00
1,246.63	7.40	257.002	1,245.95	-3.58	-15.50	12.97	3.00	3.00	0.00
Fruitland									
1,300.00	9.00	257.002	1,298.77	-5.29	-22.91	19.18	3.00	3.00	0.00
1,400.00	12.00	257.002	1,397.08	-9.39	-40.67	34.04	3.00	3.00	0.00
1,500.00	15.00	257.002	1,494.31	-14.64	-63.41	53.08	3.00	3.00	0.00
1,600.00	18.00	257.002	1,590.18	-21.02	-91.08	76.24	3.00	3.00	0.00
1,600.54	18.02	257.002	1,590.69	-21.06	-91.24	76.38	3.00	3.00	0.00
Pictured Cliffs									
1,700.00	21.00	257.002	1,684.43	-28.53	-123.60	103.47	3.00	3.00	0.00
1,717.31	21.52	257.002	1,700.56	-29.94	-129.72	108.59	3.00	3.00	0.00
Lewis									
1,800.00	24.00	257.002	1,776.81	-37.14	-160.89	134.68	3.00	3.00	0.00
1,905.51	27.17	257.002	1,871.96	-47.38	-205.27	171.83	3.00	3.00	0.00
Begin 27.17° tangent									
2,000.00	27.17	257.002	1,956.03	-57.09	-247.31	207.02	0.00	0.00	0.00
2,049.53	27.17	257.002	2,000.09	-62.17	-269.34	225.47	0.00	0.00	0.00
Chacra_A									
2,100.00	27.17	257.002	2,045.00	-67.35	-291.79	244.26	0.00	0.00	0.00
2,200.00	27.17	257.002	2,133.97	-77.62	-336.28	281.50	0.00	0.00	0.00
2,300.00	27.17	257.002	2,222.94	-87.89	-380.77	318.74	0.00	0.00	0.00
2,400.00	27.17	257.002	2,311.91	-98.16	-425.25	355.98	0.00	0.00	0.00
2,500.00	27.17	257.002	2,400.88	-108.43	-469.74	393.22	0.00	0.00	0.00
2,600.00	27.17	257.002	2,489.85	-118.70	-514.22	430.46	0.00	0.00	0.00
2,700.00	27.17	257.002	2,578.82	-128.97	-558.71	467.70	0.00	0.00	0.00
2,800.00	27.17	257.002	2,667.79	-139.24	-603.20	504.94	0.00	0.00	0.00
2,900.00	27.17	257.002	2,756.75	-149.50	-647.68	542.18	0.00	0.00	0.00
3,000.00	27.17	257.002	2,845.72	-159.77	-692.17	579.42	0.00	0.00	0.00
3,100.00	27.17	257.002	2,934.69	-170.04	-736.66	616.66	0.00	0.00	0.00
3,200.00	27.17	257.002	3,023.66	-180.31	-781.14	653.90	0.00	0.00	0.00
3,272.61	27.17	257.002	3,088.27	-187.77	-813.45	680.94	0.00	0.00	0.00
Cliff House_Basal									
3,300.00	27.17	257.002	3,112.63	-190.58	-825.63	691.14	0.00	0.00	0.00
3,306.28	27.17	257.002	3,118.22	-191.22	-828.42	693.47	0.00	0.00	0.00

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Menefee									
3,400.00	27.17	257.002	3,201.60	-200.85	-870.11	728.37	0.00	0.00	0.00
3,500.00	27.17	257.002	3,290.57	-211.12	-914.60	765.61	0.00	0.00	0.00
3,600.00	27.17	257.002	3,379.54	-221.39	-959.09	802.85	0.00	0.00	0.00
3,700.00	27.17	257.002	3,468.51	-231.65	-1,003.57	840.09	0.00	0.00	0.00
3,800.00	27.17	257.002	3,557.48	-241.92	-1,048.06	877.33	0.00	0.00	0.00
3,900.00	27.17	257.002	3,646.45	-252.19	-1,092.54	914.57	0.00	0.00	0.00
4,000.00	27.17	257.002	3,735.42	-262.46	-1,137.03	951.81	0.00	0.00	0.00
4,100.00	27.17	257.002	3,824.39	-272.73	-1,181.52	989.05	0.00	0.00	0.00
4,200.00	27.17	257.002	3,913.36	-283.00	-1,226.00	1,026.29	0.00	0.00	0.00
4,300.00	27.17	257.002	4,002.32	-293.27	-1,270.49	1,063.53	0.00	0.00	0.00
4,344.22	27.17	257.002	4,041.66	-297.81	-1,290.16	1,080.00	0.00	0.00	0.00
Point Lookout									
4,400.00	27.17	257.002	4,091.29	-303.54	-1,314.98	1,100.77	0.00	0.00	0.00
4,500.00	27.17	257.002	4,180.26	-313.80	-1,359.46	1,138.01	0.00	0.00	0.00
4,557.42	27.17	257.002	4,231.35	-319.70	-1,385.00	1,159.39	0.00	0.00	0.00
Mancos									
4,600.00	27.17	257.002	4,269.23	-324.07	-1,403.95	1,175.25	0.00	0.00	0.00
4,700.00	27.17	257.002	4,358.20	-334.34	-1,448.43	1,212.49	0.00	0.00	0.00
4,800.00	27.17	257.002	4,447.17	-344.61	-1,492.92	1,249.73	0.00	0.00	0.00
4,900.00	27.17	257.002	4,536.14	-354.88	-1,537.41	1,286.97	0.00	0.00	0.00
4,946.78	27.17	257.002	4,577.76	-359.68	-1,558.22	1,304.39	0.00	0.00	0.00
MNCS_A									
5,000.00	27.17	257.002	4,625.11	-365.15	-1,581.89	1,324.21	0.00	0.00	0.00
5,047.77	27.17	257.002	4,667.61	-370.05	-1,603.14	1,342.00	0.00	0.00	0.00
MNCS_B									
5,100.00	27.17	257.002	4,714.08	-375.42	-1,626.38	1,361.45	0.00	0.00	0.00
5,166.72	27.17	257.002	4,773.44	-382.27	-1,656.06	1,386.29	0.00	0.00	0.00
MNCS_C									
5,200.00	27.17	257.002	4,803.05	-385.69	-1,670.87	1,398.68	0.00	0.00	0.00
5,213.84	27.17	257.002	4,815.36	-387.11	-1,677.02	1,403.84	0.00	0.00	0.00
MNCS_Cms									
5,300.00	27.17	257.002	4,892.02	-395.95	-1,715.35	1,435.92	0.00	0.00	0.00
5,347.28	27.17	257.002	4,934.08	-400.81	-1,736.38	1,453.53	0.00	0.00	0.00
Begin 10°/100' build/turn									
5,350.00	27.36	257.428	4,936.50	-401.08	-1,737.60	1,454.55	10.00	6.98	15.64
5,350.74	27.41	257.543	4,937.16	-401.16	-1,737.93	1,454.83	10.00	7.01	15.52
MNCS_D									
5,400.00	31.04	264.360	4,980.15	-404.85	-1,761.66	1,475.37	10.00	7.38	13.84
5,450.00	35.03	269.905	5,022.07	-406.15	-1,788.85	1,500.03	10.00	7.97	11.09
5,478.32	37.39	272.571	5,044.92	-405.77	-1,805.57	1,515.63	10.00	8.31	9.42
MNCS_E									
5,500.00	39.22	274.425	5,061.93	-404.95	-1,818.99	1,528.35	10.00	8.48	8.55
5,550.00	43.56	278.188	5,099.44	-401.27	-1,851.82	1,560.12	10.00	8.68	7.53
5,571.37	45.45	279.616	5,114.68	-398.95	-1,866.62	1,574.69	10.00	8.84	6.68
MNCS_F									
5,600.00	48.01	281.389	5,134.30	-395.15	-1,887.11	1,595.09	10.00	8.93	6.19
5,650.00	52.53	284.169	5,166.26	-386.62	-1,924.59	1,633.00	10.00	9.04	5.56
5,698.58	56.98	286.563	5,194.29	-376.09	-1,962.82	1,672.36	10.00	9.16	4.93
MNCS_G									
5,700.00	57.11	286.629	5,195.06	-375.74	-1,963.97	1,673.55	10.00	9.20	4.66
5,750.00	61.73	288.846	5,220.50	-362.62	-2,004.94	1,716.44	10.00	9.24	4.43
5,779.87	64.51	290.079	5,234.00	-353.74	-2,030.06	1,743.05	10.00	9.30	4.13

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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_H									
5,800.00	66.38	290.877	5,242.37	-347.33	-2,047.21	1,761.34	10.00	9.33	3.97
5,838.67	70.00	292.350	5,256.73	-334.10	-2,080.58	1,797.23	10.00	9.35	3.81
POE @ 5838.67 MD 5256.73 TVD									
5,850.00	71.13	292.350	5,260.50	-330.04	-2,090.46	1,807.92	10.00	10.00	0.00
5,895.81	75.71	292.351	5,273.57	-313.35	-2,131.06	1,851.81	10.00	10.00	0.00
MNCS_I									
5,900.00	76.13	292.351	5,274.59	-311.80	-2,134.82	1,855.88	10.00	10.00	0.00
5,938.67	80.00	292.352	5,282.58	-297.42	-2,169.80	1,893.70	10.00	10.00	0.00
7" Intermediate Casing									
5,950.00	81.13	292.352	5,284.44	-293.17	-2,180.14	1,904.88	10.00	10.00	0.00
6,000.00	86.13	292.353	5,289.98	-274.28	-2,226.08	1,954.56	10.00	10.00	0.00
6,040.95	90.23	292.354	5,291.28	-258.71	-2,263.93	1,995.48	10.00	10.00	0.00
Begin 90.23° lateral									
6,100.00	90.23	292.354	5,291.04	-236.25	-2,318.54	2,054.53	0.00	0.00	0.00
6,200.00	90.23	292.354	5,290.64	-198.22	-2,411.02	2,154.53	0.00	0.00	0.00
6,300.00	90.23	292.354	5,290.25	-160.19	-2,503.51	2,254.53	0.00	0.00	0.00
6,400.00	90.23	292.354	5,289.85	-122.16	-2,595.99	2,354.53	0.00	0.00	0.00
6,500.00	90.23	292.354	5,289.45	-84.12	-2,688.48	2,454.52	0.00	0.00	0.00
6,600.00	90.23	292.354	5,289.05	-46.09	-2,780.96	2,554.52	0.00	0.00	0.00
6,700.00	90.23	292.354	5,288.65	-8.06	-2,873.45	2,654.52	0.00	0.00	0.00
6,800.00	90.23	292.354	5,288.25	29.97	-2,965.93	2,754.52	0.00	0.00	0.00
6,900.00	90.23	292.354	5,287.85	68.01	-3,058.41	2,854.52	0.00	0.00	0.00
7,000.00	90.23	292.354	5,287.45	106.04	-3,150.90	2,954.52	0.00	0.00	0.00
7,100.00	90.23	292.354	5,287.05	144.07	-3,243.38	3,054.52	0.00	0.00	0.00
7,200.00	90.23	292.354	5,286.65	182.10	-3,335.87	3,154.52	0.00	0.00	0.00
7,300.00	90.23	292.354	5,286.25	220.14	-3,428.35	3,254.52	0.00	0.00	0.00
7,400.00	90.23	292.354	5,285.85	258.17	-3,520.84	3,354.52	0.00	0.00	0.00
7,500.00	90.23	292.354	5,285.46	296.20	-3,613.32	3,454.52	0.00	0.00	0.00
7,600.00	90.23	292.354	5,285.06	334.23	-3,705.80	3,554.52	0.00	0.00	0.00
7,700.00	90.23	292.354	5,284.66	372.27	-3,798.29	3,654.51	0.00	0.00	0.00
7,800.00	90.23	292.354	5,284.26	410.30	-3,890.77	3,754.51	0.00	0.00	0.00
7,900.00	90.23	292.354	5,283.86	448.33	-3,983.26	3,854.51	0.00	0.00	0.00
8,000.00	90.23	292.354	5,283.46	486.37	-4,075.74	3,954.51	0.00	0.00	0.00
8,100.00	90.23	292.354	5,283.06	524.40	-4,168.23	4,054.51	0.00	0.00	0.00
8,200.00	90.23	292.354	5,282.66	562.43	-4,260.71	4,154.51	0.00	0.00	0.00
8,300.00	90.23	292.354	5,282.26	600.46	-4,353.20	4,254.51	0.00	0.00	0.00
8,400.00	90.23	292.354	5,281.86	638.50	-4,445.68	4,354.51	0.00	0.00	0.00
8,500.00	90.23	292.354	5,281.46	676.53	-4,538.16	4,454.51	0.00	0.00	0.00
8,600.00	90.23	292.354	5,281.07	714.56	-4,630.65	4,554.51	0.00	0.00	0.00
8,700.00	90.23	292.354	5,280.67	752.59	-4,723.13	4,654.51	0.00	0.00	0.00
8,800.00	90.23	292.354	5,280.27	790.63	-4,815.62	4,754.51	0.00	0.00	0.00
8,900.00	90.23	292.354	5,279.87	828.66	-4,908.10	4,854.51	0.00	0.00	0.00
9,000.00	90.23	292.354	5,279.47	866.69	-5,000.59	4,954.50	0.00	0.00	0.00
9,100.00	90.23	292.354	5,279.07	904.72	-5,093.07	5,054.50	0.00	0.00	0.00
9,200.00	90.23	292.354	5,278.67	942.76	-5,185.56	5,154.50	0.00	0.00	0.00
9,300.00	90.23	292.354	5,278.27	980.79	-5,278.04	5,254.50	0.00	0.00	0.00
9,400.00	90.23	292.354	5,277.87	1,018.82	-5,370.52	5,354.50	0.00	0.00	0.00
9,500.00	90.23	292.354	5,277.47	1,056.85	-5,463.01	5,454.50	0.00	0.00	0.00
9,600.00	90.23	292.354	5,277.07	1,094.89	-5,555.49	5,554.50	0.00	0.00	0.00
9,700.00	90.23	292.354	5,276.67	1,132.92	-5,647.98	5,654.50	0.00	0.00	0.00
9,800.00	90.23	292.354	5,276.28	1,170.95	-5,740.46	5,754.50	0.00	0.00	0.00
9,900.00	90.23	292.354	5,275.88	1,208.99	-5,832.95	5,854.50	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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Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,000.00	90.23	292.354	5,275.48	1,247.02	-5,925.43	5,954.50	0.00	0.00	0.00
10,100.00	90.23	292.354	5,275.08	1,285.05	-6,017.91	6,054.50	0.00	0.00	0.00
10,200.00	90.23	292.354	5,274.68	1,323.08	-6,110.40	6,154.49	0.00	0.00	0.00
10,300.00	90.23	292.354	5,274.28	1,361.12	-6,202.88	6,254.49	0.00	0.00	0.00
10,400.00	90.23	292.354	5,273.88	1,399.15	-6,295.37	6,354.49	0.00	0.00	0.00
10,500.00	90.23	292.354	5,273.48	1,437.18	-6,387.85	6,454.49	0.00	0.00	0.00
10,600.00	90.23	292.354	5,273.08	1,475.21	-6,480.34	6,554.49	0.00	0.00	0.00
10,700.00	90.23	292.354	5,272.68	1,513.25	-6,572.82	6,654.49	0.00	0.00	0.00
10,800.00	90.23	292.354	5,272.28	1,551.28	-6,665.31	6,754.49	0.00	0.00	0.00
10,900.00	90.23	292.354	5,271.89	1,589.31	-6,757.79	6,854.49	0.00	0.00	0.00
11,000.00	90.23	292.354	5,271.49	1,627.34	-6,850.27	6,954.49	0.00	0.00	0.00
11,100.00	90.23	292.354	5,271.09	1,665.38	-6,942.76	7,054.49	0.00	0.00	0.00
11,200.00	90.23	292.354	5,270.69	1,703.41	-7,035.24	7,154.49	0.00	0.00	0.00
11,300.00	90.23	292.354	5,270.29	1,741.44	-7,127.73	7,254.49	0.00	0.00	0.00
11,400.00	90.23	292.354	5,269.89	1,779.47	-7,220.21	7,354.49	0.00	0.00	0.00
11,500.00	90.23	292.354	5,269.49	1,817.51	-7,312.70	7,454.48	0.00	0.00	0.00
11,600.00	90.23	292.354	5,269.09	1,855.54	-7,405.18	7,554.48	0.00	0.00	0.00
11,700.00	90.23	292.354	5,268.69	1,893.57	-7,497.66	7,654.48	0.00	0.00	0.00
11,800.00	90.23	292.354	5,268.29	1,931.61	-7,590.15	7,754.48	0.00	0.00	0.00
11,900.00	90.23	292.354	5,267.89	1,969.64	-7,682.63	7,854.48	0.00	0.00	0.00
12,000.00	90.23	292.354	5,267.50	2,007.67	-7,775.12	7,954.48	0.00	0.00	0.00
12,100.00	90.23	292.354	5,267.10	2,045.70	-7,867.60	8,054.48	0.00	0.00	0.00
12,200.00	90.23	292.354	5,266.70	2,083.74	-7,960.09	8,154.48	0.00	0.00	0.00
12,300.00	90.23	292.354	5,266.30	2,121.77	-8,052.57	8,254.48	0.00	0.00	0.00
12,400.00	90.23	292.354	5,265.90	2,159.80	-8,145.06	8,354.48	0.00	0.00	0.00
12,500.00	90.23	292.354	5,265.50	2,197.83	-8,237.54	8,454.48	0.00	0.00	0.00
12,600.00	90.23	292.354	5,265.10	2,235.87	-8,330.02	8,554.48	0.00	0.00	0.00
12,700.00	90.23	292.354	5,264.70	2,273.90	-8,422.51	8,654.48	0.00	0.00	0.00
12,800.00	90.23	292.354	5,264.30	2,311.93	-8,514.99	8,754.47	0.00	0.00	0.00
12,900.00	90.23	292.354	5,263.90	2,349.96	-8,607.48	8,854.47	0.00	0.00	0.00
13,000.00	90.23	292.354	5,263.50	2,388.00	-8,699.96	8,954.47	0.00	0.00	0.00
13,100.00	90.23	292.354	5,263.10	2,426.03	-8,792.45	9,054.47	0.00	0.00	0.00
13,200.00	90.23	292.354	5,262.71	2,464.06	-8,884.93	9,154.47	0.00	0.00	0.00
13,300.00	90.23	292.354	5,262.31	2,502.09	-8,977.41	9,254.47	0.00	0.00	0.00
13,400.00	90.23	292.354	5,261.91	2,540.13	-9,069.90	9,354.47	0.00	0.00	0.00
13,500.00	90.23	292.354	5,261.51	2,578.16	-9,162.38	9,454.47	0.00	0.00	0.00
13,600.00	90.23	292.354	5,261.11	2,616.19	-9,254.87	9,554.47	0.00	0.00	0.00
13,700.00	90.23	292.354	5,260.71	2,654.22	-9,347.35	9,654.47	0.00	0.00	0.00
13,800.00	90.23	292.354	5,260.31	2,692.26	-9,439.84	9,754.47	0.00	0.00	0.00
13,900.00	90.23	292.354	5,259.91	2,730.29	-9,532.32	9,854.47	0.00	0.00	0.00
14,000.00	90.23	292.354	5,259.51	2,768.32	-9,624.81	9,954.46	0.00	0.00	0.00
14,100.00	90.23	292.354	5,259.11	2,806.36	-9,717.29	10,054.46	0.00	0.00	0.00
14,200.00	90.23	292.354	5,258.71	2,844.39	-9,809.77	10,154.46	0.00	0.00	0.00
14,300.00	90.23	292.354	5,258.32	2,882.42	-9,902.26	10,254.46	0.00	0.00	0.00
14,400.00	90.23	292.354	5,257.92	2,920.45	-9,994.74	10,354.46	0.00	0.00	0.00
14,500.00	90.23	292.354	5,257.52	2,958.49	-10,087.23	10,454.46	0.00	0.00	0.00
14,600.00	90.23	292.354	5,257.12	2,996.52	-10,179.71	10,554.46	0.00	0.00	0.00
14,700.00	90.23	292.354	5,256.72	3,034.55	-10,272.20	10,654.46	0.00	0.00	0.00
14,800.00	90.23	292.354	5,256.32	3,072.58	-10,364.68	10,754.46	0.00	0.00	0.00
14,900.00	90.23	292.354	5,255.92	3,110.62	-10,457.16	10,854.46	0.00	0.00	0.00
15,000.00	90.23	292.354	5,255.52	3,148.65	-10,549.65	10,954.46	0.00	0.00	0.00
15,100.00	90.23	292.354	5,255.12	3,186.68	-10,642.13	11,054.46	0.00	0.00	0.00
15,200.00	90.23	292.354	5,254.72	3,224.71	-10,734.62	11,154.46	0.00	0.00	0.00
15,300.00	90.23	292.354	5,254.32	3,262.75	-10,827.10	11,254.45	0.00	0.00	0.00

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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)
15,400.00	90.23	292.354	5,253.92	3,300.78	-10,919.59	11,354.45	0.00	0.00	0.00
15,500.00	90.23	292.354	5,253.53	3,338.81	-11,012.07	11,454.45	0.00	0.00	0.00
15,600.00	90.23	292.354	5,253.13	3,376.84	-11,104.56	11,554.45	0.00	0.00	0.00
15,631.68	90.23	292.354	5,253.00	3,388.89	-11,133.86	11,586.13	0.00	0.00	0.00
PBHL @ 15631.68 MD 5253.00 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
5,938.67	5,282.58	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		-0.23	292.350
956.00	956.00	Kirtland		-0.23	292.350
1,246.63	1,245.95	Fruitland		-0.23	292.350
1,600.54	1,590.69	Pictured Cliffs		-0.23	292.350
1,717.31	1,700.56	Lewis		-0.23	292.350
2,049.53	2,000.09	Chacra_A		-0.23	292.350
3,272.61	3,088.27	Cliff House_Basal		-0.23	292.350
3,306.28	3,118.22	Menefee		-0.23	292.350
4,344.22	4,041.66	Point Lookout		-0.23	292.350
4,557.42	4,231.35	Mancos		-0.23	292.350
4,946.78	4,577.76	MNCS_A		-0.23	292.350
5,047.77	4,667.61	MNCS_B		-0.23	292.350
5,166.72	4,773.44	MNCS_C		-0.23	292.350
5,213.84	4,815.36	MNCS_Cms		-0.23	292.350
5,350.74	4,937.16	MNCS_D		-0.23	292.350
5,478.32	5,044.92	MNCS_E		-0.23	292.350
5,571.37	5,114.68	MNCS_F		-0.23	292.350
5,698.58	5,194.29	MNCS_G		-0.23	292.350
5,779.87	5,234.00	MNCS_H		-0.23	292.350
5,895.81	5,273.57	MNCS_I		-0.23	292.350

Planning Report

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,905.51	1,871.96	-47.38	-205.27	Begin 27.17° tangent
5,347.28	4,934.08	-400.81	-1,736.38	Begin 10°/100' build/turn
5,838.67	5,256.73	-334.10	-2,080.58	POE @ 5838.67 MD 5256.73 TVD
6,040.95	5,291.28	-258.71	-2,263.93	Begin 90.23° lateral
15,631.68	5,253.00	3,388.89	-11,133.86	PBHL @ 15631.68 MD 5253.00 TVD

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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 215H, Surf loc: 1761 FSL 777 FWL Section 26-T24N-R09W

Well Position	**+N/-S**	0.00 ft	**Northing:**	1,922,186.56 usft	**Latitude:**	36.28263800
	+E/-W	0.00 ft	**Easting:**	2,743,133.00 usft	**Longitude:**	-107.76533400
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	49,065.95629991

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	292.350

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

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	15,631.65	rev0 (Original Hole)	MWD OWSG MWD - Standard	

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,905.51	27.17	257.002	1,871.96	-47.38	-205.27	3.00	3.00	0.00	257.00	
5,347.28	27.17	257.002	4,934.08	-400.81	-1,736.38	0.00	0.00	0.00	0.00	
5,838.67	70.00	292.350	5,256.73	-334.10	-2,080.58	10.00	8.72	7.19	45.96	
6,040.95	90.23	292.354	5,291.28	-258.71	-2,263.93	10.00	10.00	0.00	0.01	
15,631.68	90.23	292.354	5,253.00	3,388.89	-11,133.86	0.00	0.00	0.00	0.00	Nageezi 215H BHL 1

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
100.00	0.00	0.000	100.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
200.00	0.00	0.000	200.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
300.00	0.00	0.000	300.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
350.00	0.00	0.000	350.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
9-5/8" Surface Casing									
400.00	0.00	0.000	400.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
500.00	0.00	0.000	500.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
600.00	0.00	0.000	600.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
700.00	0.00	0.000	700.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
800.00	0.00	0.000	800.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
831.00	0.00	0.000	831.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
Ojo Alamo									
900.00	0.00	0.000	900.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
956.00	0.00	0.000	956.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
Kirtland									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,922,186.56	2,743,133.00	36.28263800	-107.76533400
KOP Begin 3°/100' build									
1,100.00	3.00	257.002	1,099.95	-0.59	-2.55	1,922,185.98	2,743,130.45	36.28263639	-107.76534266
1,200.00	6.00	257.002	1,199.63	-2.35	-10.19	1,922,184.21	2,743,122.80	36.28263156	-107.76536860
1,246.63	7.40	257.002	1,245.95	-3.58	-15.50	1,922,182.99	2,743,117.50	36.28262820	-107.76538659
Fruitland									
1,300.00	9.00	257.002	1,298.77	-5.29	-22.91	1,922,181.28	2,743,110.09	36.28262352	-107.76541175
1,400.00	12.00	257.002	1,397.08	-9.39	-40.67	1,922,177.18	2,743,092.33	36.28261229	-107.76547200
1,500.00	15.00	257.002	1,494.31	-14.64	-63.41	1,922,171.93	2,743,069.59	36.28259791	-107.76554918
1,600.00	18.00	257.002	1,590.18	-21.02	-91.08	1,922,165.54	2,743,041.92	36.28258042	-107.76564308
1,600.54	18.02	257.002	1,590.69	-21.06	-91.24	1,922,165.50	2,743,041.76	36.28258032	-107.76564364
Pictured Cliffs									
1,700.00	21.00	257.002	1,684.43	-28.53	-123.60	1,922,158.03	2,743,009.40	36.28255986	-107.76575345
1,717.31	21.52	257.002	1,700.56	-29.94	-129.72	1,922,156.62	2,743,003.28	36.28255600	-107.76577420
Lewis									
1,800.00	24.00	257.002	1,776.81	-37.14	-160.89	1,922,149.43	2,742,972.11	36.28253629	-107.76587997
1,905.51	27.17	257.002	1,871.96	-47.38	-205.27	1,922,139.18	2,742,927.73	36.28250823	-107.76603060
Begin 27.17° tangent									
2,000.00	27.17	257.002	1,956.03	-57.09	-247.31	1,922,129.48	2,742,885.69	36.28248166	-107.76617324
2,049.53	27.17	257.002	2,000.09	-62.17	-269.34	1,922,124.39	2,742,863.66	36.28246773	-107.76624801
Chacra_A									
2,100.00	27.17	257.002	2,045.00	-67.35	-291.79	1,922,119.21	2,742,841.21	36.28245353	-107.76632420
2,200.00	27.17	257.002	2,133.97	-77.62	-336.28	1,922,108.94	2,742,796.72	36.28242541	-107.76647517
2,300.00	27.17	257.002	2,222.94	-87.89	-380.77	1,922,098.67	2,742,752.23	36.28239728	-107.76662613
2,400.00	27.17	257.002	2,311.91	-98.16	-425.25	1,922,088.40	2,742,707.75	36.28236916	-107.76677709
2,500.00	27.17	257.002	2,400.88	-108.43	-469.74	1,922,078.14	2,742,663.26	36.28234103	-107.76692806
2,600.00	27.17	257.002	2,489.85	-118.70	-514.22	1,922,067.87	2,742,618.78	36.28231291	-107.76707902
2,700.00	27.17	257.002	2,578.82	-128.97	-558.71	1,922,057.60	2,742,574.29	36.28228478	-107.76722998
2,800.00	27.17	257.002	2,667.79	-139.24	-603.20	1,922,047.33	2,742,529.80	36.28225666	-107.76738094
2,900.00	27.17	257.002	2,756.75	-149.50	-647.68	1,922,037.06	2,742,485.32	36.28222853	-107.76753190
3,000.00	27.17	257.002	2,845.72	-159.77	-692.17	1,922,026.79	2,742,440.83	36.28220041	-107.76768287
3,100.00	27.17	257.002	2,934.69	-170.04	-736.66	1,922,016.52	2,742,396.35	36.28217228	-107.76783383
3,200.00	27.17	257.002	3,023.66	-180.31	-781.14	1,922,006.25	2,742,351.86	36.28214415	-107.76798479
3,272.61	27.17	257.002	3,088.27	-187.77	-813.45	1,921,998.80	2,742,319.56	36.28212373	-107.76809441
Cliff House_Basal									
3,300.00	27.17	257.002	3,112.63	-190.58	-825.63	1,921,995.99	2,742,307.37	36.28211603	-107.76813575

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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
3,306.28	27.17	257.002	3,118.22	-191.22	-828.42	1,921,995.34	2,742,304.58	36.28211426	-107.76814523
Menefee									
3,400.00	27.17	257.002	3,201.60	-200.85	-870.11	1,921,985.72	2,742,262.89	36.28208790	-107.76828671
3,500.00	27.17	257.002	3,290.57	-211.12	-914.60	1,921,975.45	2,742,218.40	36.28205977	-107.76843767
3,600.00	27.17	257.002	3,379.54	-221.39	-959.09	1,921,965.18	2,742,173.91	36.28203165	-107.76858864
3,700.00	27.17	257.002	3,468.51	-231.65	-1,003.57	1,921,954.91	2,742,129.43	36.28200352	-107.76873960
3,800.00	27.17	257.002	3,557.48	-241.92	-1,048.06	1,921,944.64	2,742,084.94	36.28197539	-107.76889056
3,900.00	27.17	257.002	3,646.45	-252.19	-1,092.54	1,921,934.37	2,742,040.46	36.28194727	-107.76904152
4,000.00	27.17	257.002	3,735.42	-262.46	-1,137.03	1,921,924.10	2,741,995.97	36.28191914	-107.76919248
4,100.00	27.17	257.002	3,824.39	-272.73	-1,181.52	1,921,913.84	2,741,951.48	36.28189101	-107.76934344
4,200.00	27.17	257.002	3,913.36	-283.00	-1,226.00	1,921,903.57	2,741,907.00	36.28186288	-107.76949440
4,300.00	27.17	257.002	4,002.32	-293.27	-1,270.49	1,921,893.30	2,741,862.51	36.28183475	-107.76964536
4,344.22	27.17	257.002	4,041.66	-297.81	-1,290.16	1,921,888.76	2,741,842.84	36.28182232	-107.76971211
Point Lookout									
4,400.00	27.17	257.002	4,091.29	-303.54	-1,314.98	1,921,883.03	2,741,818.03	36.28180663	-107.76979632
4,500.00	27.17	257.002	4,180.26	-313.80	-1,359.46	1,921,872.76	2,741,773.54	36.28177850	-107.76994728
4,557.42	27.17	257.002	4,231.35	-319.70	-1,385.00	1,921,866.87	2,741,748.00	36.28176235	-107.77003396
Mancos									
4,600.00	27.17	257.002	4,269.23	-324.07	-1,403.95	1,921,862.49	2,741,729.05	36.28175037	-107.77009824
4,700.00	27.17	257.002	4,358.20	-334.34	-1,448.43	1,921,852.22	2,741,684.57	36.28172224	-107.77024920
4,800.00	27.17	257.002	4,447.17	-344.61	-1,492.92	1,921,841.96	2,741,640.08	36.28169411	-107.77040016
4,900.00	27.17	257.002	4,536.14	-354.88	-1,537.41	1,921,831.69	2,741,595.60	36.28166598	-107.77055112
4,946.78	27.17	257.002	4,577.76	-359.68	-1,558.22	1,921,826.88	2,741,574.78	36.28165282	-107.77062175
MNCS_A									
5,000.00	27.17	257.002	4,625.11	-365.15	-1,581.89	1,921,821.42	2,741,551.11	36.28163785	-107.77070208
5,047.77	27.17	257.002	4,667.61	-370.05	-1,603.14	1,921,816.51	2,741,529.86	36.28162441	-107.77077420
MNCS_B									
5,100.00	27.17	257.002	4,714.08	-375.42	-1,626.38	1,921,811.15	2,741,506.62	36.28160972	-107.77085304
5,166.72	27.17	257.002	4,773.44	-382.27	-1,656.06	1,921,804.30	2,741,476.94	36.28159095	-107.77095376
MNCS_C									
5,200.00	27.17	257.002	4,803.05	-385.69	-1,670.87	1,921,800.88	2,741,462.14	36.28158159	-107.77100400
5,213.84	27.17	257.002	4,815.36	-387.11	-1,677.02	1,921,799.46	2,741,455.98	36.28157770	-107.77102490
MNCS_Cms									
5,300.00	27.17	257.002	4,892.02	-395.95	-1,715.35	1,921,790.61	2,741,417.65	36.28155346	-107.77115496
5,347.28	27.17	257.002	4,934.08	-400.81	-1,736.38	1,921,785.76	2,741,396.62	36.28154016	-107.77122634
Begin 10°/100' build/turn									
5,350.00	27.36	257.428	4,936.50	-401.08	-1,737.60	1,921,785.48	2,741,395.40	36.28153940	-107.77123046
5,350.74	27.41	257.543	4,937.16	-401.16	-1,737.93	1,921,785.41	2,741,395.07	36.28153920	-107.77123159
MNCS_D									
5,400.00	31.04	264.360	4,980.15	-404.85	-1,761.66	1,921,781.71	2,741,371.35	36.28152909	-107.77131209
5,450.00	35.03	269.905	5,022.07	-406.15	-1,788.85	1,921,780.42	2,741,344.15	36.28152559	-107.77140437
5,478.32	37.39	272.571	5,044.92	-405.77	-1,805.57	1,921,780.79	2,741,327.43	36.28152664	-107.77146110
MNCS_E									
5,500.00	39.22	274.425	5,061.93	-404.95	-1,818.99	1,921,781.62	2,741,314.02	36.28152893	-107.77150661
5,550.00	43.56	278.188	5,099.44	-401.27	-1,851.82	1,921,785.29	2,741,281.18	36.28153909	-107.77161801
5,571.37	45.45	279.616	5,114.68	-398.95	-1,866.62	1,921,787.61	2,741,266.38	36.28154549	-107.77166822
MNCS_F									
5,600.00	48.01	281.389	5,134.30	-395.15	-1,887.11	1,921,791.42	2,741,245.89	36.28155598	-107.77173773
5,650.00	52.53	284.169	5,166.26	-386.62	-1,924.59	1,921,799.95	2,741,208.41	36.28157948	-107.77186487
5,698.58	56.98	286.563	5,194.29	-376.09	-1,962.82	1,921,810.48	2,741,170.18	36.28160847	-107.77199456
MNCS_G									
5,700.00	57.11	286.629	5,195.06	-375.74	-1,963.97	1,921,810.82	2,741,169.04	36.28160941	-107.77199844
5,750.00	61.73	288.846	5,220.50	-362.62	-2,004.94	1,921,823.95	2,741,128.06	36.28164555	-107.77213745

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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
5,779.87	64.51	290.079	5,234.00	-353.74	-2,030.06	1,921,832.83	2,741,102.94	36.28166999	-107.77222265
MNCS_H									
5,800.00	66.38	290.877	5,242.37	-347.33	-2,047.21	1,921,839.23	2,741,085.79	36.28168761	-107.77228082
5,838.67	70.00	292.350	5,256.73	-334.10	-2,080.58	1,921,852.46	2,741,052.43	36.28172400	-107.77239400
POE @ 5838.67 MD 5256.73 TVD									
5,850.00	71.13	292.350	5,260.50	-330.04	-2,090.46	1,921,856.52	2,741,042.54	36.28173518	-107.77242753
5,895.81	75.71	292.351	5,273.57	-313.35	-2,131.06	1,921,873.22	2,741,001.94	36.28178111	-107.77256524
MNCS_I									
5,900.00	76.13	292.351	5,274.59	-311.80	-2,134.82	1,921,874.76	2,740,998.19	36.28178536	-107.77257799
5,938.67	80.00	292.352	5,282.58	-297.42	-2,169.80	1,921,889.15	2,740,963.20	36.28182493	-107.77269666
7" Intermediate Casing									
5,950.00	81.13	292.352	5,284.44	-293.17	-2,180.14	1,921,893.40	2,740,952.87	36.28183663	-107.77273172
6,000.00	86.13	292.353	5,289.98	-274.28	-2,226.08	1,921,912.29	2,740,906.92	36.28188861	-107.77288756
6,040.95	90.23	292.354	5,291.28	-258.71	-2,263.93	1,921,927.85	2,740,869.07	36.28193143	-107.77301595
Begin 90.23° lateral									
6,100.00	90.23	292.354	5,291.04	-236.25	-2,318.54	1,921,950.31	2,740,814.46	36.28199321	-107.77320118
6,200.00	90.23	292.354	5,290.64	-198.22	-2,411.02	1,921,988.34	2,740,721.98	36.28209785	-107.77351489
6,300.00	90.23	292.354	5,290.25	-160.19	-2,503.51	1,922,026.38	2,740,629.50	36.28220248	-107.77382861
6,400.00	90.23	292.354	5,289.85	-122.16	-2,595.99	1,922,064.41	2,740,537.01	36.28230711	-107.77414232
6,500.00	90.23	292.354	5,289.45	-84.12	-2,688.48	1,922,102.44	2,740,444.53	36.28241175	-107.77445604
6,600.00	90.23	292.354	5,289.05	-46.09	-2,780.96	1,922,140.47	2,740,352.04	36.28251638	-107.77476975
6,700.00	90.23	292.354	5,288.65	-8.06	-2,873.45	1,922,178.51	2,740,259.56	36.28262101	-107.77508347
6,800.00	90.23	292.354	5,288.25	29.97	-2,965.93	1,922,216.54	2,740,167.08	36.28272564	-107.77539718
6,900.00	90.23	292.354	5,287.85	68.01	-3,058.41	1,922,254.57	2,740,074.59	36.28283027	-107.77571089
7,000.00	90.23	292.354	5,287.45	106.04	-3,150.90	1,922,292.60	2,739,982.11	36.28293490	-107.77602461
7,100.00	90.23	292.354	5,287.05	144.07	-3,243.38	1,922,330.64	2,739,889.62	36.28303953	-107.77633833
7,200.00	90.23	292.354	5,286.65	182.10	-3,335.87	1,922,368.67	2,739,797.14	36.28314415	-107.77665205
7,300.00	90.23	292.354	5,286.25	220.14	-3,428.35	1,922,406.70	2,739,704.65	36.28324878	-107.77696577
7,400.00	90.23	292.354	5,285.85	258.17	-3,520.84	1,922,444.73	2,739,612.17	36.28335340	-107.77727950
7,500.00	90.23	292.354	5,285.46	296.20	-3,613.32	1,922,482.77	2,739,519.69	36.28345803	-107.77759322
7,600.00	90.23	292.354	5,285.06	334.23	-3,705.80	1,922,520.80	2,739,427.20	36.28356265	-107.77790694
7,700.00	90.23	292.354	5,284.66	372.27	-3,798.29	1,922,558.83	2,739,334.72	36.28366727	-107.77822067
7,800.00	90.23	292.354	5,284.26	410.30	-3,890.77	1,922,596.86	2,739,242.23	36.28377190	-107.77853439
7,900.00	90.23	292.354	5,283.86	448.33	-3,983.26	1,922,634.90	2,739,149.75	36.28387652	-107.77884812
8,000.00	90.23	292.354	5,283.46	486.37	-4,075.74	1,922,672.93	2,739,057.26	36.28398114	-107.77916185
8,100.00	90.23	292.354	5,283.06	524.40	-4,168.23	1,922,710.96	2,738,964.78	36.28408576	-107.77947558
8,200.00	90.23	292.354	5,282.66	562.43	-4,260.71	1,922,748.99	2,738,872.30	36.28419038	-107.77978931
8,300.00	90.23	292.354	5,282.26	600.46	-4,353.20	1,922,787.03	2,738,779.81	36.28429499	-107.78010303
8,400.00	90.23	292.354	5,281.86	638.50	-4,445.68	1,922,825.06	2,738,687.33	36.28439961	-107.78041677
8,500.00	90.23	292.354	5,281.46	676.53	-4,538.16	1,922,863.09	2,738,594.84	36.28450423	-107.78073050
8,600.00	90.23	292.354	5,281.07	714.56	-4,630.65	1,922,901.12	2,738,502.36	36.28460884	-107.78104423
8,700.00	90.23	292.354	5,280.67	752.59	-4,723.13	1,922,939.16	2,738,409.88	36.28471346	-107.78135796
8,800.00	90.23	292.354	5,280.27	790.63	-4,815.62	1,922,977.19	2,738,317.39	36.28481807	-107.78167170
8,900.00	90.23	292.354	5,279.87	828.66	-4,908.10	1,923,015.22	2,738,224.91	36.28492268	-107.78198543
9,000.00	90.23	292.354	5,279.47	866.69	-5,000.59	1,923,053.25	2,738,132.42	36.28502730	-107.78229917
9,100.00	90.23	292.354	5,279.07	904.72	-5,093.07	1,923,091.29	2,738,039.94	36.28513191	-107.78261290
9,200.00	90.23	292.354	5,278.67	942.76	-5,185.56	1,923,129.32	2,737,947.45	36.28523652	-107.78292664
9,300.00	90.23	292.354	5,278.27	980.79	-5,278.04	1,923,167.35	2,737,854.97	36.28534113	-107.78324038
9,400.00	90.23	292.354	5,277.87	1,018.82	-5,370.52	1,923,205.38	2,737,762.49	36.28544574	-107.78355412
9,500.00	90.23	292.354	5,277.47	1,056.85	-5,463.01	1,923,243.42	2,737,670.00	36.28555034	-107.78386786
9,600.00	90.23	292.354	5,277.07	1,094.89	-5,555.49	1,923,281.45	2,737,577.52	36.28565495	-107.78418160
9,700.00	90.23	292.354	5,276.67	1,132.92	-5,647.98	1,923,319.48	2,737,485.03	36.28575956	-107.78449534
9,800.00	90.23	292.354	5,276.28	1,170.95	-5,740.46	1,923,357.51	2,737,392.55	36.28586416	-107.78480908
9,900.00	90.23	292.354	5,275.88	1,208.99	-5,832.95	1,923,395.55	2,737,300.07	36.28596877	-107.78512283

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,000.00	90.23	292.354	5,275.48	1,247.02	-5,925.43	1,923,433.58	2,737,207.58	36.28607337	-107.78543657
10,100.00	90.23	292.354	5,275.08	1,285.05	-6,017.91	1,923,471.61	2,737,115.10	36.28617798	-107.78575032
10,200.00	90.23	292.354	5,274.68	1,323.08	-6,110.40	1,923,509.64	2,737,022.61	36.28628258	-107.78606406
10,300.00	90.23	292.354	5,274.28	1,361.12	-6,202.88	1,923,547.68	2,736,930.13	36.28638718	-107.78637781
10,400.00	90.23	292.354	5,273.88	1,399.15	-6,295.37	1,923,585.71	2,736,837.64	36.28649178	-107.78669156
10,500.00	90.23	292.354	5,273.48	1,437.18	-6,387.85	1,923,623.74	2,736,745.16	36.28659638	-107.78700530
10,600.00	90.23	292.354	5,273.08	1,475.21	-6,480.34	1,923,661.78	2,736,652.68	36.28670098	-107.78731905
10,700.00	90.23	292.354	5,272.68	1,513.25	-6,572.82	1,923,699.81	2,736,560.19	36.28680558	-107.78763280
10,800.00	90.23	292.354	5,272.28	1,551.28	-6,665.31	1,923,737.84	2,736,467.71	36.28691017	-107.78794655
10,900.00	90.23	292.354	5,271.89	1,589.31	-6,757.79	1,923,775.87	2,736,375.22	36.28701477	-107.78826031
11,000.00	90.23	292.354	5,271.49	1,627.34	-6,850.27	1,923,813.91	2,736,282.74	36.28711937	-107.78857406
11,100.00	90.23	292.354	5,271.09	1,665.38	-6,942.76	1,923,851.94	2,736,190.25	36.28722396	-107.78888781
11,200.00	90.23	292.354	5,270.69	1,703.41	-7,035.24	1,923,889.97	2,736,097.77	36.28732855	-107.78920157
11,300.00	90.23	292.354	5,270.29	1,741.44	-7,127.73	1,923,928.00	2,736,005.29	36.28743315	-107.78951532
11,400.00	90.23	292.354	5,269.89	1,779.47	-7,220.21	1,923,966.04	2,735,912.80	36.28753774	-107.78982908
11,500.00	90.23	292.354	5,269.49	1,817.51	-7,312.70	1,924,004.07	2,735,820.32	36.28764233	-107.79014283
11,600.00	90.23	292.354	5,269.09	1,855.54	-7,405.18	1,924,042.10	2,735,727.83	36.28774692	-107.79045659
11,700.00	90.23	292.354	5,268.69	1,893.57	-7,497.66	1,924,080.13	2,735,635.35	36.28785151	-107.79077035
11,800.00	90.23	292.354	5,268.29	1,931.61	-7,590.15	1,924,118.17	2,735,542.87	36.28795610	-107.79108411
11,900.00	90.23	292.354	5,267.89	1,969.64	-7,682.63	1,924,156.20	2,735,450.38	36.28806069	-107.79139787
12,000.00	90.23	292.354	5,267.50	2,007.67	-7,775.12	1,924,194.23	2,735,357.90	36.28816528	-107.79171163
12,100.00	90.23	292.354	5,267.10	2,045.70	-7,867.60	1,924,232.26	2,735,265.41	36.28826986	-107.79202539
12,200.00	90.23	292.354	5,266.70	2,083.74	-7,960.09	1,924,270.30	2,735,172.93	36.28837445	-107.79233915
12,300.00	90.23	292.354	5,266.30	2,121.77	-8,052.57	1,924,308.33	2,735,080.44	36.28847903	-107.79265292
12,400.00	90.23	292.354	5,265.90	2,159.80	-8,145.06	1,924,346.36	2,734,987.96	36.28858362	-107.79296668
12,500.00	90.23	292.354	5,265.50	2,197.83	-8,237.54	1,924,384.39	2,734,895.48	36.28868820	-107.79328045
12,600.00	90.23	292.354	5,265.10	2,235.87	-8,330.02	1,924,422.43	2,734,802.99	36.28879278	-107.79359421
12,700.00	90.23	292.354	5,264.70	2,273.90	-8,422.51	1,924,460.46	2,734,710.51	36.28889737	-107.79390798
12,800.00	90.23	292.354	5,264.30	2,311.93	-8,514.99	1,924,498.49	2,734,618.02	36.28900195	-107.79422175
12,900.00	90.23	292.354	5,263.90	2,349.96	-8,607.48	1,924,536.52	2,734,525.54	36.28910653	-107.79453551
13,000.00	90.23	292.354	5,263.50	2,388.00	-8,699.96	1,924,574.56	2,734,433.06	36.28921111	-107.79484928
13,100.00	90.23	292.354	5,263.10	2,426.03	-8,792.45	1,924,612.59	2,734,340.57	36.28931568	-107.79516305
13,200.00	90.23	292.354	5,262.71	2,464.06	-8,884.93	1,924,650.62	2,734,248.09	36.28942026	-107.79547682
13,300.00	90.23	292.354	5,262.31	2,502.09	-8,977.41	1,924,688.65	2,734,155.60	36.28952484	-107.79579060
13,400.00	90.23	292.354	5,261.91	2,540.13	-9,069.90	1,924,726.69	2,734,063.12	36.28962941	-107.79610437
13,500.00	90.23	292.354	5,261.51	2,578.16	-9,162.38	1,924,764.72	2,733,970.63	36.28973399	-107.79641814
13,600.00	90.23	292.354	5,261.11	2,616.19	-9,254.87	1,924,802.75	2,733,878.15	36.28983856	-107.79673192
13,700.00	90.23	292.354	5,260.71	2,654.22	-9,347.35	1,924,840.78	2,733,785.67	36.28994314	-107.79704569
13,800.00	90.23	292.354	5,260.31	2,692.26	-9,439.84	1,924,878.82	2,733,693.18	36.29004771	-107.79735947
13,900.00	90.23	292.354	5,259.91	2,730.29	-9,532.32	1,924,916.85	2,733,600.70	36.29015228	-107.79767324
14,000.00	90.23	292.354	5,259.51	2,768.32	-9,624.81	1,924,954.88	2,733,508.21	36.29025685	-107.79798702
14,100.00	90.23	292.354	5,259.11	2,806.36	-9,717.29	1,924,992.91	2,733,415.73	36.29036142	-107.79830080
14,200.00	90.23	292.354	5,258.71	2,844.39	-9,809.77	1,925,030.95	2,733,323.24	36.29046599	-107.79861458
14,300.00	90.23	292.354	5,258.32	2,882.42	-9,902.26	1,925,068.98	2,733,230.76	36.29057056	-107.79892836
14,400.00	90.23	292.354	5,257.92	2,920.45	-9,994.74	1,925,107.01	2,733,138.28	36.29067513	-107.79924214
14,500.00	90.23	292.354	5,257.52	2,958.49	-10,087.23	1,925,145.04	2,733,045.79	36.29077969	-107.79955592
14,600.00	90.23	292.354	5,257.12	2,996.52	-10,179.71	1,925,183.08	2,732,953.31	36.29088426	-107.79986971
14,700.00	90.23	292.354	5,256.72	3,034.55	-10,272.20	1,925,221.11	2,732,860.82	36.29098883	-107.80018349
14,800.00	90.23	292.354	5,256.32	3,072.58	-10,364.68	1,925,259.14	2,732,768.34	36.29109339	-107.80049727
14,900.00	90.23	292.354	5,255.92	3,110.62	-10,457.16	1,925,297.17	2,732,675.86	36.29119795	-107.80081106
15,000.00	90.23	292.354	5,255.52	3,148.65	-10,549.65	1,925,335.21	2,732,583.37	36.29130252	-107.80112484
15,100.00	90.23	292.354	5,255.12	3,186.68	-10,642.13	1,925,373.24	2,732,490.89	36.29140708	-107.80143863
15,200.00	90.23	292.354	5,254.72	3,224.71	-10,734.62	1,925,411.27	2,732,398.40	36.29151164	-107.80175242
15,300.00	90.23	292.354	5,254.32	3,262.75	-10,827.10	1,925,449.30	2,732,305.92	36.29161620	-107.80206621
15,400.00	90.23	292.354	5,253.92	3,300.78	-10,919.59	1,925,487.34	2,732,213.43	36.29172076	-107.80238000

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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
15,500.00	90.23	292.354	5,253.53	3,338.81	-11,012.07	1,925,525.37	2,732,120.95	36.29182532	-107.80269379
15,600.00	90.23	292.354	5,253.13	3,376.84	-11,104.56	1,925,563.40	2,732,028.47	36.29192987	-107.80300758
15,631.68	90.23	292.354	5,253.00	3,388.89	-11,133.86	1,925,575.45	2,731,999.16	36.29196300	-107.80310700
PBHL @ 15631.68 MD 5253.00 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 215H BHL 142 - plan hits target center - Point	0.00	0.000	5,253.00	3,388.89	-11,133.86	1,925,575.45	2,731,999.16	36.29196300	-107.80310700
Nageezi 215H 0 VS - plan misses target center by 1485.55ft at 5142.42ft MD (4751.82 TVD, -379.77 N, -1645.25 E) - Point	0.00	0.000	5,301.00	-988.51	-406.42	1,921,198.06	2,742,726.58	36.27992328	-107.76671527
Nageezi 215H PPP/POE - plan misses target center by 41.81ft at 5851.31ft MD (5260.92 TVD, -329.57 N, -2091.61 E) - Point	0.00	0.000	5,301.00	-334.10	-2,080.58	1,921,852.46	2,741,052.43	36.28172400	-107.77239400

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
5,938.67	5,282.58	7" Intermediate Casing	7	8-1/2

Planning Report - Geographic

Database:	DT_Mar1724_v17	**Local Co-ordinate Reference:**	Well Nageezi Unit 215H
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 215H	**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		-0.23	292.350
956.00	956.00	Kirtland		-0.23	292.350
1,246.63	1,245.95	Fruitland		-0.23	292.350
1,600.54	1,590.69	Pictured Cliffs		-0.23	292.350
1,717.31	1,700.56	Lewis		-0.23	292.350
2,049.53	2,000.09	Chacra_A		-0.23	292.350
3,272.61	3,088.27	Cliff House_Basal		-0.23	292.350
3,306.28	3,118.22	Menefee		-0.23	292.350
4,344.22	4,041.66	Point Lookout		-0.23	292.350
4,557.42	4,231.35	Mancos		-0.23	292.350
4,946.78	4,577.76	MNCS_A		-0.23	292.350
5,047.77	4,667.61	MNCS_B		-0.23	292.350
5,166.72	4,773.44	MNCS_C		-0.23	292.350
5,213.84	4,815.36	MNCS_Cms		-0.23	292.350
5,350.74	4,937.16	MNCS_D		-0.23	292.350
5,478.32	5,044.92	MNCS_E		-0.23	292.350
5,571.37	5,114.68	MNCS_F		-0.23	292.350
5,698.58	5,194.29	MNCS_G		-0.23	292.350
5,779.87	5,234.00	MNCS_H		-0.23	292.350
5,895.81	5,273.57	MNCS_I		-0.23	292.350

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,905.51	1,871.96	-47.38	-205.27	Begin 27.17° tangent
5,347.28	4,934.08	-400.81	-1,736.38	Begin 10°/100' build/turn
5,838.67	5,256.73	-334.10	-2,080.58	POE @ 5838.67 MD 5256.73 TVD
6,040.95	5,291.28	-258.71	-2,263.93	Begin 90.23° lateral
15,631.68	5,253.00	3,388.89	-11,133.86	PBHL @ 15631.68 MD 5253.00 TVD

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District III
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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 334031

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 334031
	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