

Well Name: NAGEEZI UNIT	Well Location: T24N / R9W / SEC 26 / NWSW / 36.28274 / -107.765282	County or Parish/State: SAN JUAN / NM
Well Number: 216H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NOG14011834	Unit or CA Name:	Unit or CA Number: NMNM132981A
US Well Number: 3004538296	Operator: DJR OPERATING LLC	

Notice of Intent

Sundry ID: 2785167
Type of Submission: Notice of Intent
Date Sundry Submitted: 04/15/2024
Date proposed operation will begin: 04/15/2024
Type of Action: APD Change
Time Sundry Submitted: 02:41

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
216H_Revised_DPR_04.11.24_20240415144106.pdf

Well Name: NAGEEZI UNIT

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NWSW / 36.28274 / -107.765282

County or Parish/State: SAN
JUAN / NM

Well Number: 216H

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:

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 02:41 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 216H
API Number: 30-045-38296
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: 26-24N-9W Sec-Twn-Rng 1,742 ft FSL 769 ft FWL
 36.28274 ° N latitude 107.765282 ° W longitude (NAD 83)
BH Location: 21-24N-9W Sec-Twn-Rng 2,167 ft FSL 174 ft FWL
 36.298305 ° N latitude 107.802945 ° 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	1,718	G, W	normal
	Chacra	4,850	2,001	2,049	G, W	normal
	Cliff House	3,760	3,091	3,261	G, W	sub
	Menefee	3,730	3,121	3,294	G, W	normal
	Point Lookout	2,800	4,051	4,328	G, W	normal
	Mancos	2,603	4,248	4,547	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,255	4,596	4,934	O,G	sub (~0.38)
	MNCS_B	2,168	4,683	5,031	O,G	sub (~0.38)
	MNCS_C	2,062	4,789	5,149	O,G	sub (~0.38)
	MNCS_Cms	2,018	4,833	5,198	O,G	sub (~0.38)
	MNCS_D	2,258	4,593	5,331	O,G	sub (~0.38)
	MNCS_E	1,790	5,061	5,459	O,G	sub (~0.38)
	MNCS_F	1,718	5,133	5,555	O,G	sub (~0.38)
	MNCS_G	1,640	5,211	5,681	O,G	sub (~0.38)
	MNCS_H	1,600	5,251	5,764	O,G	sub (~0.38)
	MNCS_I	1,565	5,286	5,865	O,G	sub (~0.38)
	FTP TARGET	1,580	5,271	5,817	O,G	sub (~0.38)
	PROJECTED TD	1,545	5,306	16,523	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: 2,290 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,130 psi

Temperature: Maximum anticipated BHT is 125° F or less

H2S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

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

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

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

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 140

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

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

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

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

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 23.5

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

- 1) Rig will be equipped with upper and lower kelly cocks with handles available.
- 2) Inside BOP and TIW valves will be available to use on all sizes and threads of drill pipe used while drilling the well.
- 2) BOP accumulator will have enough capacity to open the HCR valve, close all rams and annular preventer, and retain minimum of 200 psi above precharge on the closing manifold without the use of closing pumps. The fluid reservoir capacity shall be at least double the usable fluid volume of the accumulator system capacity, and the fluid level shall be maintained at manufacturer's recommendation. There will be two additional sources of power for the closing pumps (electric and air). Sufficient nitrogen bottles will be available and will be recharged when pressure falls below manufacturer's recommended minimum.
- 3) BOP testing shall be conducted (a) when initially installed, (b) whenever any seal is broken or repaired, (c) if the time since the previous test exceeds 30 days. Tests will be conducted using a test plug. BOP ram preventers will be tested to 3,000 psig for 10 minutes, and the annular preventer will be tested to 1,500 psi for 10 minutes. Ram and annular preventers will be tested to 250 psi for 5 minutes. Additionally, BOP and casing strings will be tested to .22 psi/ft or 1,500 psi, whichever is greater but not exceeding 70% of yield strength of the casing, for 30 minutes, prior to drilling out 13-3/8" and 9-5/8" casing. Rams and hydraulically operated remote choke line valve will be function tested daily at a minimum.
- 4) Remote valve for BOP rams, HCR, and choke shall be placed in a location that is readily available to the driller. The remote BOP valve shall be capable of closing and opening the rams.
- 5) Manual locking devices (hand wheels) shall be intalled on rams. A valve will be installed on the annular preventer's closing line as close as possible to the preventer to act as a locking device. The valve will be maintained in the open position and shall only be closed when there is no power to the accumulator.

FLUIDS AND SOLIDS CONTROL PROGRAM:

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

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

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

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

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

DETAILED DRILLING PLAN:

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

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

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

Fluid:	Type	MW (ppg)	FL (mL/30 min)	PV (cp)	YP (lb/100 sqft)	pH	Comments
	Fresh Water	8.4	N/C	2-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	1,132	110,988	110,988
Min. S.F.					13.21	3.11	5.08	3.81

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient

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

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

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

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

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

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

Csg ID 8.921

Mesa Ready Mix or first available

Shoe Track L 44

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

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

350 ft (MD)	to	5,917 ft (MD)	Hole Section Length:	5,567 ft
350 ft (TVD)	to	5,297 ft (TVD)	Casing Required:	5,917 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					2,314	1,433	234,158	234,158
Min. S.F.					1.87	3.48	1.77	1.57

Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient

Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling

production hole and 8.4 ppg equivalent external pressure gradient

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

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

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

Cement:	Type	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	517	1,105
Tail	Type III	14.6	1.380	6.64	20%	4,447	199	275

Annular Capacity	0.16681	cuft/ft	7" casing x 9-5/8" casing annulus	Shoe Track L	44
	0.1503	cuft/ft	9-5/8" casing x 12-1/4" hole annulus	Casing ID	6.276
	0.2148	cuft/ft	7" casing casing volume		

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

Drake Intermediate Cementing Program

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

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

5,917 ft (MD)	to	16,523 ft (MD)	Hole Section Length:	10,606 ft
5,297 ft (TVD)	to	5,306 ft (TVD)	Casing Required:	10,756 ft
Estimated KOP:		5,313 ft (MD)	4,937 ft (TVD)	
Estimated Liner Top:		5,767 ft (MD)	5,252 ft (TVD)	
Estimated Landing Point (FTP):		5,817 ft (MD)	5,271 ft (TVD)	
Estimated Lateral Length:		10,706 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					2,621	8,804	265,391	265,391
Min. S.F.					2.88	1.21	1.38	1.45

Assumptions: Collapse: fully evacuated casing with 9.5 ppg fluid in the annulus (floating casing during running)

Burst: 8,500 psi maximum surface treating pressure with 10.2 ppg equivalent mud weight sand laden fluid with 8.4 ppg equivalent external pressure gradient.

Tension: buoyed weight in 9.0 ppg fluid with 100,000 lbs over-pull. Tension calculations assume vertical hole to approximate drag in lateral.

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

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

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Tail	G:POZ blend	13.3	1.560	7.70	30%	5,767	875	1,366

Displacement 224 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	Lead/Tail	ASTM Type I/II	Avis 616	IntegraGuard Star	S-8 Silica Flour	viscosifier 11.6	FP24 Defoamer .5	Plus 3K LCM 15	SS201 Surfactant 1	163.7 lbs/bbl	lb/bbl	lb/bbl	gal/bbl	IntegraGuard	FP24 Defoamer	FP24 Defoamer
			BA90 Bonding	Viscosifier 8%	FL24 Fluid Loss	GW86 Viscosifier	R7C Retarder .2%	0.3% BWOB, Anti-Static .01 lb/sx								
			Agent 5.0 lb/sx	BWOB	.5% BWOB	.1% BWOB	BWOB									
			Pozzolan Fly Ash	BA90 Bonding	Viscosifier 4%	FL24 Fluid Loss	GW86 Viscosifier	R3 Retarder .5%	IntegraGuard							
			Extender 50%	Agent 3.0 lb/sx	BWOB	.4% BWOB	.1% BWOB	BWOB								

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

Note: This well will not be considered an unorthodox well location as defined by NMAC 19.15.16.15.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: 10,606
Est Frac Inform: 44 Frac Stages 170,000 bbls slick water 13,790,000 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



Planning Report

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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 216H, Surf loc: 1742 FSL 769 FWL Section 26-T24N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,922,223.71 usft	Latitude:	36.28274000
	+E/-W	0.00 ft	Easting:	2,743,148.30 usft	Longitude:	-107.76528200
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	49,066.02054885

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	302.010

Plan Survey Tool Program	Date	4/12/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,523.18 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	
1,864.45	25.93	265.377	1,835.23	-15.50	-191.69	3.00	3.00	0.00	265.38	
5,313.24	25.93	265.377	4,936.74	-137.08	-1,695.04	0.00	0.00	0.00	0.00	
5,817.29	70.00	302.010	5,271.45	-12.27	-2,027.43	10.00	8.74	7.27	46.69	Nageezi 216H PPP/P
6,017.29	90.00	302.010	5,306.00	91.60	-2,193.60	10.00	10.00	0.00	0.00	
16,523.18	90.00	302.010	5,306.00	5,660.42	-11,102.14	0.00	0.00	0.00	0.00	Nageezi 216H BHL 2'



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 216H	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	265.377	1,099.95	-0.21	-2.61	2.10	3.00	3.00	0.00
1,200.00	6.00	265.377	1,199.63	-0.84	-10.43	8.40	3.00	3.00	0.00
1,246.69	7.40	265.377	1,246.00	-1.28	-15.86	12.77	3.00	3.00	0.00
Fruitland									
1,300.00	9.00	265.377	1,298.77	-1.90	-23.44	18.87	3.00	3.00	0.00
1,400.00	12.00	265.377	1,397.08	-3.36	-41.60	33.49	3.00	3.00	0.00
1,500.00	15.00	265.377	1,494.31	-5.25	-64.87	52.22	3.00	3.00	0.00
1,600.00	18.00	265.377	1,590.18	-7.53	-93.17	75.01	3.00	3.00	0.00
1,600.86	18.03	265.377	1,591.00	-7.56	-93.44	75.23	3.00	3.00	0.00
Pictured Cliffs									
1,700.00	21.00	265.377	1,684.43	-10.23	-126.44	101.79	3.00	3.00	0.00
1,717.78	21.53	265.377	1,701.00	-10.74	-132.87	106.97	3.00	3.00	0.00
Lewis									
1,800.00	24.00	265.377	1,776.81	-13.31	-164.58	132.50	3.00	3.00	0.00
1,864.45	25.93	265.377	1,835.23	-15.50	-191.69	154.33	3.00	3.00	0.00
Begin 25.93° tangent									
1,900.00	25.93	265.377	1,867.20	-16.76	-207.19	166.81	0.00	0.00	0.00
2,000.00	25.93	265.377	1,957.13	-20.28	-250.78	201.90	0.00	0.00	0.00
2,048.78	25.93	265.377	2,001.00	-22.00	-272.04	219.02	0.00	0.00	0.00
Chacra_A									
2,100.00	25.93	265.377	2,047.06	-23.81	-294.37	236.99	0.00	0.00	0.00
2,200.00	25.93	265.377	2,137.00	-27.33	-337.96	272.09	0.00	0.00	0.00
2,300.00	25.93	265.377	2,226.93	-30.86	-381.55	307.18	0.00	0.00	0.00
2,400.00	25.93	265.377	2,316.86	-34.38	-425.14	342.28	0.00	0.00	0.00
2,500.00	25.93	265.377	2,406.79	-37.91	-468.73	377.37	0.00	0.00	0.00
2,600.00	25.93	265.377	2,496.72	-41.43	-512.32	412.47	0.00	0.00	0.00
2,700.00	25.93	265.377	2,586.65	-44.96	-555.91	447.56	0.00	0.00	0.00
2,800.00	25.93	265.377	2,676.58	-48.48	-599.50	482.65	0.00	0.00	0.00
2,900.00	25.93	265.377	2,766.51	-52.01	-643.09	517.75	0.00	0.00	0.00
3,000.00	25.93	265.377	2,856.44	-55.53	-686.68	552.84	0.00	0.00	0.00
3,100.00	25.93	265.377	2,946.37	-59.06	-730.27	587.94	0.00	0.00	0.00
3,200.00	25.93	265.377	3,036.30	-62.58	-773.87	623.03	0.00	0.00	0.00
3,260.83	25.93	265.377	3,091.00	-64.73	-800.38	644.38	0.00	0.00	0.00
Cliff House_Basal									
3,294.19	25.93	265.377	3,121.00	-65.90	-814.92	656.08	0.00	0.00	0.00



Planning Report

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Menefee									
3,300.00	25.93	265.377	3,126.23	-66.11	-817.46	658.12	0.00	0.00	0.00
3,400.00	25.93	265.377	3,216.16	-69.63	-861.05	693.22	0.00	0.00	0.00
3,500.00	25.93	265.377	3,306.09	-73.16	-904.64	728.31	0.00	0.00	0.00
3,600.00	25.93	265.377	3,396.02	-76.68	-948.23	763.41	0.00	0.00	0.00
3,700.00	25.93	265.377	3,485.95	-80.21	-991.82	798.50	0.00	0.00	0.00
3,800.00	25.93	265.377	3,575.88	-83.73	-1,035.41	833.60	0.00	0.00	0.00
3,900.00	25.93	265.377	3,665.81	-87.26	-1,079.00	868.69	0.00	0.00	0.00
4,000.00	25.93	265.377	3,755.74	-90.78	-1,122.59	903.78	0.00	0.00	0.00
4,100.00	25.93	265.377	3,845.67	-94.31	-1,166.18	938.88	0.00	0.00	0.00
4,200.00	25.93	265.377	3,935.60	-97.83	-1,209.77	973.97	0.00	0.00	0.00
4,300.00	25.93	265.377	4,025.53	-101.36	-1,253.36	1,009.07	0.00	0.00	0.00
4,328.32	25.93	265.377	4,051.00	-102.36	-1,265.71	1,019.01	0.00	0.00	0.00
Point Lookout									
4,400.00	25.93	265.377	4,115.46	-104.88	-1,296.95	1,044.16	0.00	0.00	0.00
4,500.00	25.93	265.377	4,205.39	-108.41	-1,340.54	1,079.26	0.00	0.00	0.00
4,547.38	25.93	265.377	4,248.00	-110.08	-1,361.20	1,095.88	0.00	0.00	0.00
Mancos									
4,600.00	25.93	265.377	4,295.32	-111.94	-1,384.13	1,114.35	0.00	0.00	0.00
4,700.00	25.93	265.377	4,385.25	-115.46	-1,427.72	1,149.44	0.00	0.00	0.00
4,800.00	25.93	265.377	4,475.18	-118.99	-1,471.31	1,184.54	0.00	0.00	0.00
4,900.00	25.93	265.377	4,565.11	-122.51	-1,514.90	1,219.63	0.00	0.00	0.00
4,934.35	25.93	265.377	4,596.00	-123.72	-1,529.88	1,231.69	0.00	0.00	0.00
MNCS_A									
5,000.00	25.93	265.377	4,655.04	-126.04	-1,558.49	1,254.73	0.00	0.00	0.00
5,031.09	25.93	265.377	4,683.00	-127.13	-1,572.05	1,265.64	0.00	0.00	0.00
MNCS_B									
5,100.00	25.93	265.377	4,744.97	-129.56	-1,602.08	1,289.82	0.00	0.00	0.00
5,148.96	25.93	265.377	4,789.00	-131.29	-1,623.43	1,307.00	0.00	0.00	0.00
MNCS_C									
5,197.89	25.93	265.377	4,833.00	-133.01	-1,644.75	1,324.17	0.00	0.00	0.00
MNCS_Cms									
5,200.00	25.93	265.377	4,834.90	-133.09	-1,645.67	1,324.91	0.00	0.00	0.00
5,300.00	25.93	265.377	4,924.83	-136.61	-1,689.27	1,360.01	0.00	0.00	0.00
5,313.24	25.93	265.377	4,936.74	-137.08	-1,695.04	1,364.65	0.00	0.00	0.00
Begin 10°/100' build/turn									
5,331.42	27.21	268.271	4,953.00	-137.52	-1,703.16	1,371.30	10.00	7.02	15.92
MNCS_D									
5,350.00	28.57	270.975	4,969.42	-137.58	-1,711.84	1,378.64	10.00	7.33	14.55
5,400.00	32.46	277.178	5,012.50	-135.70	-1,737.13	1,401.08	10.00	7.78	12.41
5,450.00	36.59	282.150	5,053.69	-130.88	-1,765.03	1,427.29	10.00	8.27	9.95
5,459.15	37.37	282.955	5,061.00	-129.68	-1,770.40	1,432.48	10.00	8.49	8.79
MNCS_E									
5,500.00	40.90	286.225	5,092.68	-123.16	-1,795.33	1,457.08	10.00	8.63	8.01
5,550.00	45.32	289.641	5,129.18	-112.61	-1,827.81	1,490.21	10.00	8.85	6.83
5,555.45	45.81	289.981	5,133.00	-111.29	-1,831.47	1,494.02	10.00	8.95	6.24
MNCS_F									
5,600.00	49.83	292.567	5,162.91	-99.29	-1,862.22	1,526.44	10.00	9.03	5.80
5,650.00	54.41	295.125	5,193.60	-83.32	-1,898.28	1,565.50	10.00	9.15	5.12
5,680.98	57.26	296.566	5,211.00	-72.14	-1,921.35	1,590.98	10.00	9.23	4.65
MNCS_G									
5,700.00	59.03	297.405	5,221.04	-64.81	-1,935.74	1,607.07	10.00	9.27	4.41
5,750.00	63.69	299.473	5,245.00	-43.91	-1,974.31	1,650.85	10.00	9.32	4.14



Planning Report

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,763.85	64.98	300.016	5,251.00	-37.71	-1,985.15	1,663.33	10.00	9.36	3.92	
MNCS_H										
5,800.00	68.37	301.380	5,265.31	-20.76	-2,013.68	1,696.51	10.00	9.38	3.78	
5,817.29	70.00	302.010	5,271.45	-12.27	-2,027.43	1,712.67	10.00	9.40	3.64	
POE @ 5817.29 MD 5271.45 TVD										
5,850.00	73.27	302.010	5,281.76	4.18	-2,053.75	1,743.71	10.00	10.00	0.00	
5,865.44	74.82	302.010	5,286.00	12.05	-2,066.34	1,758.55	10.00	10.00	0.00	
MNCS_I										
5,900.00	78.27	302.010	5,294.04	29.86	-2,094.84	1,792.16	10.00	10.00	0.00	
5,917.29	80.00	302.010	5,297.30	38.86	-2,109.24	1,809.14	10.00	10.00	0.00	
7" Intermediate Casing										
5,950.00	83.27	302.010	5,302.06	56.02	-2,136.67	1,841.50	10.00	10.00	0.00	
6,000.00	88.27	302.010	5,305.74	82.44	-2,178.94	1,891.35	10.00	10.00	0.00	
6,017.29	90.00	302.010	5,306.00	91.60	-2,193.60	1,908.63	10.00	10.00	0.00	
Begin 90.00° lateral										
6,100.00	90.00	302.010	5,306.00	135.44	-2,263.74	1,991.34	0.00	0.00	0.00	
6,200.00	90.00	302.010	5,306.00	188.45	-2,348.53	2,091.34	0.00	0.00	0.00	
6,300.00	90.00	302.010	5,306.00	241.46	-2,433.33	2,191.34	0.00	0.00	0.00	
6,400.00	90.00	302.010	5,306.00	294.46	-2,518.12	2,291.34	0.00	0.00	0.00	
6,500.00	90.00	302.010	5,306.00	347.47	-2,602.92	2,391.34	0.00	0.00	0.00	
6,600.00	90.00	302.010	5,306.00	400.48	-2,687.72	2,491.34	0.00	0.00	0.00	
6,700.00	90.00	302.010	5,306.00	453.48	-2,772.51	2,591.34	0.00	0.00	0.00	
6,800.00	90.00	302.010	5,306.00	506.49	-2,857.31	2,691.34	0.00	0.00	0.00	
6,900.00	90.00	302.010	5,306.00	559.50	-2,942.10	2,791.34	0.00	0.00	0.00	
7,000.00	90.00	302.010	5,306.00	612.50	-3,026.90	2,891.34	0.00	0.00	0.00	
7,100.00	90.00	302.010	5,306.00	665.51	-3,111.69	2,991.34	0.00	0.00	0.00	
7,200.00	90.00	302.010	5,306.00	718.52	-3,196.49	3,091.34	0.00	0.00	0.00	
7,300.00	90.00	302.010	5,306.00	771.52	-3,281.28	3,191.34	0.00	0.00	0.00	
7,400.00	90.00	302.010	5,306.00	824.53	-3,366.08	3,291.34	0.00	0.00	0.00	
7,500.00	90.00	302.010	5,306.00	877.54	-3,450.88	3,391.34	0.00	0.00	0.00	
7,600.00	90.00	302.010	5,306.00	930.54	-3,535.67	3,491.34	0.00	0.00	0.00	
7,700.00	90.00	302.010	5,306.00	983.55	-3,620.47	3,591.34	0.00	0.00	0.00	
7,800.00	90.00	302.010	5,306.00	1,036.56	-3,705.26	3,691.34	0.00	0.00	0.00	
7,900.00	90.00	302.010	5,306.00	1,089.56	-3,790.06	3,791.34	0.00	0.00	0.00	
8,000.00	90.00	302.010	5,306.00	1,142.57	-3,874.85	3,891.34	0.00	0.00	0.00	
8,100.00	90.00	302.010	5,306.00	1,195.58	-3,959.65	3,991.34	0.00	0.00	0.00	
8,200.00	90.00	302.010	5,306.00	1,248.58	-4,044.45	4,091.34	0.00	0.00	0.00	
8,300.00	90.00	302.010	5,306.00	1,301.59	-4,129.24	4,191.34	0.00	0.00	0.00	
8,400.00	90.00	302.010	5,306.00	1,354.60	-4,214.04	4,291.34	0.00	0.00	0.00	
8,500.00	90.00	302.010	5,306.00	1,407.60	-4,298.83	4,391.34	0.00	0.00	0.00	
8,600.00	90.00	302.010	5,306.00	1,460.61	-4,383.63	4,491.34	0.00	0.00	0.00	
8,700.00	90.00	302.010	5,306.00	1,513.62	-4,468.42	4,591.34	0.00	0.00	0.00	
8,800.00	90.00	302.010	5,306.00	1,566.62	-4,553.22	4,691.34	0.00	0.00	0.00	
8,900.00	90.00	302.010	5,306.00	1,619.63	-4,638.01	4,791.34	0.00	0.00	0.00	
9,000.00	90.00	302.010	5,306.00	1,672.64	-4,722.81	4,891.34	0.00	0.00	0.00	
9,100.00	90.00	302.010	5,306.00	1,725.64	-4,807.61	4,991.34	0.00	0.00	0.00	
9,200.00	90.00	302.010	5,306.00	1,778.65	-4,892.40	5,091.34	0.00	0.00	0.00	
9,300.00	90.00	302.010	5,306.00	1,831.66	-4,977.20	5,191.34	0.00	0.00	0.00	
9,400.00	90.00	302.010	5,306.00	1,884.66	-5,061.99	5,291.34	0.00	0.00	0.00	
9,500.00	90.00	302.010	5,306.00	1,937.67	-5,146.79	5,391.34	0.00	0.00	0.00	
9,600.00	90.00	302.010	5,306.00	1,990.68	-5,231.58	5,491.34	0.00	0.00	0.00	
9,700.00	90.00	302.010	5,306.00	2,043.68	-5,316.38	5,591.34	0.00	0.00	0.00	
9,800.00	90.00	302.010	5,306.00	2,096.69	-5,401.18	5,691.34	0.00	0.00	0.00	



Planning Report

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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)
9,900.00	90.00	302.010	5,306.00	2,149.70	-5,485.97	5,791.34	0.00	0.00	0.00
10,000.00	90.00	302.010	5,306.00	2,202.70	-5,570.77	5,891.34	0.00	0.00	0.00
10,100.00	90.00	302.010	5,306.00	2,255.71	-5,655.56	5,991.34	0.00	0.00	0.00
10,200.00	90.00	302.010	5,306.00	2,308.72	-5,740.36	6,091.34	0.00	0.00	0.00
10,300.00	90.00	302.010	5,306.00	2,361.72	-5,825.15	6,191.34	0.00	0.00	0.00
10,400.00	90.00	302.010	5,306.00	2,414.73	-5,909.95	6,291.34	0.00	0.00	0.00
10,500.00	90.00	302.010	5,306.00	2,467.74	-5,994.74	6,391.34	0.00	0.00	0.00
10,600.00	90.00	302.010	5,306.00	2,520.74	-6,079.54	6,491.34	0.00	0.00	0.00
10,700.00	90.00	302.010	5,306.00	2,573.75	-6,164.34	6,591.34	0.00	0.00	0.00
10,800.00	90.00	302.010	5,306.00	2,626.76	-6,249.13	6,691.34	0.00	0.00	0.00
10,900.00	90.00	302.010	5,306.00	2,679.76	-6,333.93	6,791.34	0.00	0.00	0.00
11,000.00	90.00	302.010	5,306.00	2,732.77	-6,418.72	6,891.34	0.00	0.00	0.00
11,100.00	90.00	302.010	5,306.00	2,785.78	-6,503.52	6,991.34	0.00	0.00	0.00
11,200.00	90.00	302.010	5,306.00	2,838.78	-6,588.31	7,091.34	0.00	0.00	0.00
11,300.00	90.00	302.010	5,306.00	2,891.79	-6,673.11	7,191.34	0.00	0.00	0.00
11,400.00	90.00	302.010	5,306.00	2,944.80	-6,757.90	7,291.34	0.00	0.00	0.00
11,500.00	90.00	302.010	5,306.00	2,997.80	-6,842.70	7,391.34	0.00	0.00	0.00
11,600.00	90.00	302.010	5,306.00	3,050.81	-6,927.50	7,491.34	0.00	0.00	0.00
11,700.00	90.00	302.010	5,306.00	3,103.82	-7,012.29	7,591.34	0.00	0.00	0.00
11,800.00	90.00	302.010	5,306.00	3,156.82	-7,097.09	7,691.34	0.00	0.00	0.00
11,900.00	90.00	302.010	5,306.00	3,209.83	-7,181.88	7,791.34	0.00	0.00	0.00
12,000.00	90.00	302.010	5,306.00	3,262.84	-7,266.68	7,891.34	0.00	0.00	0.00
12,100.00	90.00	302.010	5,306.00	3,315.84	-7,351.47	7,991.34	0.00	0.00	0.00
12,200.00	90.00	302.010	5,306.00	3,368.85	-7,436.27	8,091.34	0.00	0.00	0.00
12,300.00	90.00	302.010	5,306.00	3,421.86	-7,521.07	8,191.34	0.00	0.00	0.00
12,400.00	90.00	302.010	5,306.00	3,474.86	-7,605.86	8,291.34	0.00	0.00	0.00
12,500.00	90.00	302.010	5,306.00	3,527.87	-7,690.66	8,391.34	0.00	0.00	0.00
12,600.00	90.00	302.010	5,306.00	3,580.88	-7,775.45	8,491.34	0.00	0.00	0.00
12,700.00	90.00	302.010	5,306.00	3,633.88	-7,860.25	8,591.34	0.00	0.00	0.00
12,800.00	90.00	302.010	5,306.00	3,686.89	-7,945.04	8,691.34	0.00	0.00	0.00
12,900.00	90.00	302.010	5,306.00	3,739.90	-8,029.84	8,791.34	0.00	0.00	0.00
13,000.00	90.00	302.010	5,306.00	3,792.90	-8,114.63	8,891.34	0.00	0.00	0.00
13,100.00	90.00	302.010	5,306.00	3,845.91	-8,199.43	8,991.34	0.00	0.00	0.00
13,200.00	90.00	302.010	5,306.00	3,898.91	-8,284.23	9,091.34	0.00	0.00	0.00
13,300.00	90.00	302.010	5,306.00	3,951.92	-8,369.02	9,191.34	0.00	0.00	0.00
13,400.00	90.00	302.010	5,306.00	4,004.93	-8,453.82	9,291.34	0.00	0.00	0.00
13,500.00	90.00	302.010	5,306.00	4,057.93	-8,538.61	9,391.34	0.00	0.00	0.00
13,600.00	90.00	302.010	5,306.00	4,110.94	-8,623.41	9,491.34	0.00	0.00	0.00
13,700.00	90.00	302.010	5,306.00	4,163.95	-8,708.20	9,591.34	0.00	0.00	0.00
13,800.00	90.00	302.010	5,306.00	4,216.95	-8,793.00	9,691.34	0.00	0.00	0.00
13,900.00	90.00	302.010	5,306.00	4,269.96	-8,877.80	9,791.34	0.00	0.00	0.00
14,000.00	90.00	302.010	5,306.00	4,322.97	-8,962.59	9,891.34	0.00	0.00	0.00
14,100.00	90.00	302.010	5,306.00	4,375.97	-9,047.39	9,991.34	0.00	0.00	0.00
14,200.00	90.00	302.010	5,306.00	4,428.98	-9,132.18	10,091.34	0.00	0.00	0.00
14,300.00	90.00	302.010	5,306.00	4,481.99	-9,216.98	10,191.34	0.00	0.00	0.00
14,400.00	90.00	302.010	5,306.00	4,534.99	-9,301.77	10,291.34	0.00	0.00	0.00
14,500.00	90.00	302.010	5,306.00	4,588.00	-9,386.57	10,391.34	0.00	0.00	0.00
14,600.00	90.00	302.010	5,306.00	4,641.01	-9,471.36	10,491.34	0.00	0.00	0.00
14,700.00	90.00	302.010	5,306.00	4,694.01	-9,556.16	10,591.34	0.00	0.00	0.00
14,800.00	90.00	302.010	5,306.00	4,747.02	-9,640.96	10,691.34	0.00	0.00	0.00
14,900.00	90.00	302.010	5,306.00	4,800.03	-9,725.75	10,791.34	0.00	0.00	0.00
15,000.00	90.00	302.010	5,306.00	4,853.03	-9,810.55	10,891.34	0.00	0.00	0.00
15,100.00	90.00	302.010	5,306.00	4,906.04	-9,895.34	10,991.34	0.00	0.00	0.00
15,200.00	90.00	302.010	5,306.00	4,959.05	-9,980.14	11,091.34	0.00	0.00	0.00



Planning Report

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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)
15,300.00	90.00	302.010	5,306.00	5,012.05	-10,064.93	11,191.34	0.00	0.00	0.00
15,400.00	90.00	302.010	5,306.00	5,065.06	-10,149.73	11,291.34	0.00	0.00	0.00
15,500.00	90.00	302.010	5,306.00	5,118.07	-10,234.53	11,391.34	0.00	0.00	0.00
15,600.00	90.00	302.010	5,306.00	5,171.07	-10,319.32	11,491.34	0.00	0.00	0.00
15,700.00	90.00	302.010	5,306.00	5,224.08	-10,404.12	11,591.34	0.00	0.00	0.00
15,800.00	90.00	302.010	5,306.00	5,277.09	-10,488.91	11,691.34	0.00	0.00	0.00
15,900.00	90.00	302.010	5,306.00	5,330.09	-10,573.71	11,791.34	0.00	0.00	0.00
16,000.00	90.00	302.010	5,306.00	5,383.10	-10,658.50	11,891.34	0.00	0.00	0.00
16,100.00	90.00	302.010	5,306.00	5,436.11	-10,743.30	11,991.34	0.00	0.00	0.00
16,200.00	90.00	302.010	5,306.00	5,489.11	-10,828.09	12,091.34	0.00	0.00	0.00
16,300.00	90.00	302.010	5,306.00	5,542.12	-10,912.89	12,191.34	0.00	0.00	0.00
16,400.00	90.00	302.010	5,306.00	5,595.13	-10,997.69	12,291.34	0.00	0.00	0.00
16,500.00	90.00	302.010	5,306.00	5,648.13	-11,082.48	12,391.34	0.00	0.00	0.00
16,523.18	90.00	302.010	5,306.00	5,660.42	-11,102.14	12,414.53	0.00	0.00	0.00
PBHL @ 16523.18 MD 5306.00 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
5,917.29	5,297.30	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			
956.00	956.00	Kirtland			
1,246.69	1,246.00	Fruitland			
1,600.86	1,591.00	Pictured Cliffs			
1,717.78	1,701.00	Lewis			
2,048.78	2,001.00	Chacra_A			
3,260.83	3,091.00	Cliff House_Basal			
3,294.19	3,121.00	Menefee			
4,328.32	4,051.00	Point Lookout			
4,547.38	4,248.00	Mancos			
4,934.35	4,596.00	MNCS_A			
5,031.09	4,683.00	MNCS_B			
5,148.96	4,789.00	MNCS_C			
5,197.89	4,833.00	MNCS_Cms			
5,331.42	4,953.00	MNCS_D			
5,459.15	5,061.00	MNCS_E			
5,555.45	5,133.00	MNCS_F			
5,680.98	5,211.00	MNCS_G			
5,763.85	5,251.00	MNCS_H			
5,865.44	5,286.00	MNCS_I			



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 216H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build	
1,864.45	1,835.23	-15.50	-191.69	Begin 25.93° tangent	
5,313.24	4,936.74	-137.08	-1,695.04	Begin 10°/100' build/turn	
5,817.29	5,271.45	-12.27	-2,027.43	POE @ 5817.29 MD 5271.45 TVD	
6,017.29	5,306.00	91.60	-2,193.60	Begin 90.00° lateral	
16,523.18	5,306.00	5,660.42	-11,102.14	PBHL @ 16523.18 MD 5306.00 TVD	



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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 216H, Surf loc: 1742 FSL 769 FWL Section 26-T24N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,922,223.71 usft	Latitude:	36.28274000
	+E/-W	0.00 ft	Easting:	2,743,148.30 usft	Longitude:	-107.76528200
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	49,066.02054885

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	302.010

Plan Survey Tool Program	Date	4/12/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,523.18 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	
1,864.45	25.93	265.377	1,835.23	-15.50	-191.69	3.00	3.00	0.00	265.38	
5,313.24	25.93	265.377	4,936.74	-137.08	-1,695.04	0.00	0.00	0.00	0.00	
5,817.29	70.00	302.010	5,271.45	-12.27	-2,027.43	10.00	8.74	7.27	46.69	Nageezi 216H PPP/P
6,017.29	90.00	302.010	5,306.00	91.60	-2,193.60	10.00	10.00	0.00	0.00	
16,523.18	90.00	302.010	5,306.00	5,660.42	-11,102.14	0.00	0.00	0.00	0.00	Nageezi 216H BHL 2'



Planning Report - Geographic

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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 216H	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	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
100.00	0.00	0.000	100.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
200.00	0.00	0.000	200.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
300.00	0.00	0.000	300.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
350.00	0.00	0.000	350.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
9-5/8" Surface Casing										
400.00	0.00	0.000	400.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
500.00	0.00	0.000	500.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
600.00	0.00	0.000	600.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
700.00	0.00	0.000	700.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
800.00	0.00	0.000	800.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
831.00	0.00	0.000	831.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
Ojo Alamo										
900.00	0.00	0.000	900.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
956.00	0.00	0.000	956.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
Kirtland										
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,922,223.71	2,743,148.30	36.28274000	-107.76528200	
KOP Begin 3°/100' build										
1,100.00	3.00	265.377	1,099.95	-0.21	-2.61	1,922,223.49	2,743,145.69	36.28273943	-107.76529086	
1,200.00	6.00	265.377	1,199.63	-0.84	-10.43	1,922,222.86	2,743,137.87	36.28273770	-107.76531739	
1,246.69	7.40	265.377	1,246.00	-1.28	-15.86	1,922,222.42	2,743,132.44	36.28273651	-107.76533581	
Fruitland										
1,300.00	9.00	265.377	1,298.77	-1.90	-23.44	1,922,221.81	2,743,124.86	36.28273484	-107.76536153	
1,400.00	12.00	265.377	1,397.08	-3.36	-41.60	1,922,220.34	2,743,106.70	36.28273084	-107.76542316	
1,500.00	15.00	265.377	1,494.31	-5.25	-64.87	1,922,218.46	2,743,083.43	36.28272572	-107.76550210	
1,600.00	18.00	265.377	1,590.18	-7.53	-93.17	1,922,216.17	2,743,055.13	36.28271948	-107.76559815	
1,600.86	18.03	265.377	1,591.00	-7.56	-93.44	1,922,216.15	2,743,054.86	36.28271942	-107.76559905	
Pictured Cliffs										
1,700.00	21.00	265.377	1,684.43	-10.23	-126.44	1,922,213.48	2,743,021.86	36.28271215	-107.76571103	
1,717.78	21.53	265.377	1,701.00	-10.74	-132.87	1,922,212.96	2,743,015.43	36.28271074	-107.76573284	
Lewis										
1,800.00	24.00	265.377	1,776.81	-13.31	-164.58	1,922,210.40	2,742,983.72	36.28270375	-107.76584044	
1,864.45	25.93	265.377	1,835.23	-15.50	-191.69	1,922,208.20	2,742,956.61	36.28269778	-107.76593245	
Begin 25.93° tangent										
1,900.00	25.93	265.377	1,867.20	-16.76	-207.19	1,922,206.95	2,742,941.11	36.28269437	-107.76598503	
2,000.00	25.93	265.377	1,957.13	-20.28	-250.78	1,922,203.43	2,742,897.52	36.28268477	-107.76613294	
2,048.78	25.93	265.377	2,001.00	-22.00	-272.04	1,922,201.71	2,742,876.26	36.28268009	-107.76620508	
Chacra_A										
2,100.00	25.93	265.377	2,047.06	-23.81	-294.37	1,922,199.90	2,742,853.93	36.28267517	-107.76628084	
2,200.00	25.93	265.377	2,137.00	-27.33	-337.96	1,922,196.37	2,742,810.34	36.28266557	-107.76642875	
2,300.00	25.93	265.377	2,226.93	-30.86	-381.55	1,922,192.85	2,742,766.75	36.28265597	-107.76657666	
2,400.00	25.93	265.377	2,316.86	-34.38	-425.14	1,922,189.32	2,742,723.16	36.28264637	-107.76672457	
2,500.00	25.93	265.377	2,406.79	-37.91	-468.73	1,922,185.80	2,742,679.57	36.28263676	-107.76687248	
2,600.00	25.93	265.377	2,496.72	-41.43	-512.32	1,922,182.27	2,742,635.98	36.28262716	-107.76702039	
2,700.00	25.93	265.377	2,586.65	-44.96	-555.91	1,922,178.75	2,742,592.39	36.28261756	-107.76716829	
2,800.00	25.93	265.377	2,676.58	-48.48	-599.50	1,922,175.22	2,742,548.80	36.28260796	-107.76731620	
2,900.00	25.93	265.377	2,766.51	-52.01	-643.09	1,922,171.70	2,742,505.21	36.28259836	-107.76746411	
3,000.00	25.93	265.377	2,856.44	-55.53	-686.68	1,922,168.17	2,742,461.62	36.28258875	-107.76761202	
3,100.00	25.93	265.377	2,946.37	-59.06	-730.27	1,922,164.65	2,742,418.03	36.28257915	-107.76775993	
3,200.00	25.93	265.377	3,036.30	-62.58	-773.87	1,922,161.12	2,742,374.44	36.28256955	-107.76790784	
3,260.83	25.93	265.377	3,091.00	-64.73	-800.38	1,922,158.98	2,742,347.92	36.28256371	-107.76799780	
Cliff House Basal										



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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	
3,294.19	25.93	265.377	3,121.00	-65.90	-814.92	1,922,157.80	2,742,333.38	36.28256050	-107.76804715	
Menefee										
3,300.00	25.93	265.377	3,126.23	-66.11	-817.46	1,922,157.60	2,742,330.84	36.28255994	-107.76805574	
3,400.00	25.93	265.377	3,216.16	-69.63	-861.05	1,922,154.07	2,742,287.25	36.28255034	-107.76820365	
3,500.00	25.93	265.377	3,306.09	-73.16	-904.64	1,922,150.55	2,742,243.66	36.28254074	-107.76835156	
3,600.00	25.93	265.377	3,396.02	-76.68	-948.23	1,922,147.02	2,742,200.07	36.28253113	-107.76849947	
3,700.00	25.93	265.377	3,485.95	-80.21	-991.82	1,922,143.50	2,742,156.48	36.28252153	-107.76864738	
3,800.00	25.93	265.377	3,575.88	-83.73	-1,035.41	1,922,139.97	2,742,112.89	36.28251193	-107.76879528	
3,900.00	25.93	265.377	3,665.81	-87.26	-1,079.00	1,922,136.45	2,742,069.30	36.28250232	-107.76894319	
4,000.00	25.93	265.377	3,755.74	-90.78	-1,122.59	1,922,132.92	2,742,025.71	36.28249272	-107.76909110	
4,100.00	25.93	265.377	3,845.67	-94.31	-1,166.18	1,922,129.40	2,741,982.12	36.28248311	-107.76923901	
4,200.00	25.93	265.377	3,935.60	-97.83	-1,209.77	1,922,125.87	2,741,938.53	36.28247351	-107.76938691	
4,300.00	25.93	265.377	4,025.53	-101.36	-1,253.36	1,922,122.35	2,741,894.94	36.28246390	-107.76953482	
4,328.32	25.93	265.377	4,051.00	-102.36	-1,265.71	1,922,121.35	2,741,882.60	36.28246118	-107.76957671	
Point Lookout										
4,400.00	25.93	265.377	4,115.46	-104.88	-1,296.95	1,922,118.82	2,741,851.35	36.28245430	-107.76968273	
4,500.00	25.93	265.377	4,205.39	-108.41	-1,340.54	1,922,115.30	2,741,807.76	36.28244469	-107.76983064	
4,547.38	25.93	265.377	4,248.00	-110.08	-1,361.20	1,922,113.63	2,741,787.11	36.28244014	-107.76990072	
Mancos										
4,600.00	25.93	265.377	4,295.32	-111.94	-1,384.13	1,922,111.77	2,741,764.17	36.28243509	-107.76997855	
4,700.00	25.93	265.377	4,385.25	-115.46	-1,427.72	1,922,108.25	2,741,720.58	36.28242548	-107.77012645	
4,800.00	25.93	265.377	4,475.18	-118.99	-1,471.31	1,922,104.72	2,741,676.99	36.28241588	-107.77027436	
4,900.00	25.93	265.377	4,565.11	-122.51	-1,514.90	1,922,101.20	2,741,633.40	36.28240627	-107.77042227	
4,934.35	25.93	265.377	4,596.00	-123.72	-1,529.88	1,922,099.98	2,741,618.43	36.28240297	-107.77047307	
MNCS_A										
5,000.00	25.93	265.377	4,655.04	-126.04	-1,558.49	1,922,097.67	2,741,589.81	36.28239666	-107.77057018	
5,031.09	25.93	265.377	4,683.00	-127.13	-1,572.05	1,922,096.57	2,741,576.26	36.28239368	-107.77061616	
MNCS_B										
5,100.00	25.93	265.377	4,744.97	-129.56	-1,602.08	1,922,094.15	2,741,546.22	36.28238706	-107.77071808	
5,148.96	25.93	265.377	4,789.00	-131.29	-1,623.43	1,922,092.42	2,741,524.88	36.28238236	-107.77079050	
MNCS_C										
5,197.89	25.93	265.377	4,833.00	-133.01	-1,644.75	1,922,090.69	2,741,503.55	36.28237766	-107.77086286	
MNCS_Cms										
5,200.00	25.93	265.377	4,834.90	-133.09	-1,645.67	1,922,090.62	2,741,502.63	36.28237745	-107.77086599	
5,300.00	25.93	265.377	4,924.83	-136.61	-1,689.27	1,922,087.09	2,741,459.04	36.28236785	-107.77101390	
5,313.24	25.93	265.377	4,936.74	-137.08	-1,695.04	1,922,086.63	2,741,453.27	36.28236657	-107.77103347	
Begin 10°/100' build/turn										
5,331.42	27.21	268.271	4,953.00	-137.52	-1,703.16	1,922,086.18	2,741,445.15	36.28236536	-107.77106103	
MNCS_D										
5,350.00	28.57	270.975	4,969.42	-137.58	-1,711.84	1,922,086.13	2,741,436.46	36.28236523	-107.77109051	
5,400.00	32.46	277.178	5,012.50	-135.70	-1,737.13	1,922,088.01	2,741,411.17	36.28237045	-107.77117629	
5,450.00	36.59	282.150	5,053.69	-130.88	-1,765.03	1,922,092.83	2,741,383.27	36.28238373	-107.77127094	
5,459.15	37.37	282.955	5,061.00	-129.68	-1,770.40	1,922,094.02	2,741,377.90	36.28238702	-107.77128917	
MNCS_E										
5,500.00	40.90	286.225	5,092.68	-123.16	-1,795.33	1,922,100.54	2,741,352.97	36.28240497	-107.77137375	
5,550.00	45.32	289.641	5,129.18	-112.61	-1,827.81	1,922,111.10	2,741,320.49	36.28243403	-107.77148392	
5,555.45	45.81	289.981	5,133.00	-111.29	-1,831.47	1,922,112.42	2,741,316.83	36.28243766	-107.77149635	
MNCS_F										
5,600.00	49.83	292.567	5,162.91	-99.29	-1,862.22	1,922,124.41	2,741,286.09	36.28247066	-107.77160063	
5,650.00	54.41	295.125	5,193.60	-83.32	-1,898.28	1,922,140.39	2,741,250.02	36.28251461	-107.77172297	
5,680.98	57.26	296.566	5,211.00	-72.14	-1,921.35	1,922,151.56	2,741,226.96	36.28254535	-107.77180120	
MNCS_G										
5,700.00	59.03	297.405	5,221.04	-64.81	-1,935.74	1,922,158.89	2,741,212.56	36.28256552	-107.77185003	



Planning Report - Geographic

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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 216H	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	
5,750.00	63.69	299.473	5,245.00	-43.91	-1,974.31	1,922,179.80	2,741,173.99	36.28262301	-107.77198083	
5,763.85	64.98	300.016	5,251.00	-37.71	-1,985.15	1,922,186.00	2,741,163.15	36.28264005	-107.77201760	
MNCS_H										
5,800.00	68.37	301.380	5,265.31	-20.76	-2,013.68	1,922,202.94	2,741,134.62	36.28268666	-107.77211438	
5,817.29	70.00	302.010	5,271.45	-12.27	-2,027.43	1,922,211.43	2,741,120.87	36.28271000	-107.77216100	
POE @ 5817.29 MD 5271.45 TVD										
5,850.00	73.27	302.010	5,281.76	4.18	-2,053.75	1,922,227.89	2,741,094.55	36.28275525	-107.77225029	
5,865.44	74.82	302.010	5,286.00	12.05	-2,066.34	1,922,235.76	2,741,081.96	36.28277689	-107.77229298	
MNCS_I										
5,900.00	78.27	302.010	5,294.04	29.86	-2,094.84	1,922,253.57	2,741,053.46	36.28282587	-107.77238963	
5,917.29	80.00	302.010	5,297.30	38.86	-2,109.24	1,922,262.57	2,741,039.07	36.28285062	-107.77243846	
7" Intermediate Casing										
5,950.00	83.27	302.010	5,302.06	56.02	-2,136.67	1,922,279.72	2,741,011.63	36.28289778	-107.77253152	
6,000.00	88.27	302.010	5,305.74	82.44	-2,178.94	1,922,306.14	2,740,969.36	36.28297044	-107.77267488	
6,017.29	90.00	302.010	5,306.00	91.60	-2,193.60	1,922,315.31	2,740,954.70	36.28299563	-107.77272458	
Begin 90.00° lateral										
6,100.00	90.00	302.010	5,306.00	135.44	-2,263.74	1,922,359.15	2,740,884.57	36.28311620	-107.77296247	
6,200.00	90.00	302.010	5,306.00	188.45	-2,348.53	1,922,412.16	2,740,799.77	36.28326195	-107.77325006	
6,300.00	90.00	302.010	5,306.00	241.46	-2,433.33	1,922,465.16	2,740,714.98	36.28340771	-107.77353766	
6,400.00	90.00	302.010	5,306.00	294.46	-2,518.12	1,922,518.17	2,740,630.18	36.28355347	-107.77382526	
6,500.00	90.00	302.010	5,306.00	347.47	-2,602.92	1,922,571.18	2,740,545.38	36.28369922	-107.77411286	
6,600.00	90.00	302.010	5,306.00	400.48	-2,687.72	1,922,624.18	2,740,460.59	36.28384498	-107.77440046	
6,700.00	90.00	302.010	5,306.00	453.48	-2,772.51	1,922,677.19	2,740,375.79	36.28399073	-107.77468807	
6,800.00	90.00	302.010	5,306.00	506.49	-2,857.31	1,922,730.20	2,740,291.00	36.28413648	-107.77497567	
6,900.00	90.00	302.010	5,306.00	559.50	-2,942.10	1,922,783.20	2,740,206.20	36.28428223	-107.77526326	
7,000.00	90.00	302.010	5,306.00	612.50	-3,026.90	1,922,836.21	2,740,121.41	36.28442799	-107.77555087	
7,100.00	90.00	302.010	5,306.00	665.51	-3,111.69	1,922,889.21	2,740,036.61	36.28457374	-107.77583848	
7,200.00	90.00	302.010	5,306.00	718.52	-3,196.49	1,922,942.22	2,739,951.82	36.28471949	-107.77612608	
7,300.00	90.00	302.010	5,306.00	771.52	-3,281.28	1,922,995.23	2,739,867.02	36.28486524	-107.77641369	
7,400.00	90.00	302.010	5,306.00	824.53	-3,366.08	1,923,048.23	2,739,782.23	36.28501099	-107.77670130	
7,500.00	90.00	302.010	5,306.00	877.54	-3,450.88	1,923,101.24	2,739,697.43	36.28515673	-107.77698891	
7,600.00	90.00	302.010	5,306.00	930.54	-3,535.67	1,923,154.25	2,739,612.63	36.28530248	-107.77727653	
7,700.00	90.00	302.010	5,306.00	983.55	-3,620.47	1,923,207.25	2,739,527.84	36.28544823	-107.77756414	
7,800.00	90.00	302.010	5,306.00	1,036.56	-3,705.26	1,923,260.26	2,739,443.04	36.28559397	-107.77785175	
7,900.00	90.00	302.010	5,306.00	1,089.56	-3,790.06	1,923,313.27	2,739,358.25	36.28573972	-107.77813937	
8,000.00	90.00	302.010	5,306.00	1,142.57	-3,874.85	1,923,366.27	2,739,273.45	36.28588546	-107.77842699	
8,100.00	90.00	302.010	5,306.00	1,195.58	-3,959.65	1,923,419.28	2,739,188.66	36.28603121	-107.77871460	
8,200.00	90.00	302.010	5,306.00	1,248.58	-4,044.45	1,923,472.29	2,739,103.86	36.28617695	-107.77900222	
8,300.00	90.00	302.010	5,306.00	1,301.59	-4,129.24	1,923,525.29	2,739,019.07	36.28632269	-107.77928984	
8,400.00	90.00	302.010	5,306.00	1,354.60	-4,214.04	1,923,578.30	2,738,934.27	36.28646844	-107.77957746	
8,500.00	90.00	302.010	5,306.00	1,407.60	-4,298.83	1,923,631.31	2,738,849.48	36.28661418	-107.77986508	
8,600.00	90.00	302.010	5,306.00	1,460.61	-4,383.63	1,923,684.31	2,738,764.68	36.28675992	-107.78015271	
8,700.00	90.00	302.010	5,306.00	1,513.62	-4,468.42	1,923,737.32	2,738,679.88	36.28690566	-107.78044033	
8,800.00	90.00	302.010	5,306.00	1,566.62	-4,553.22	1,923,790.33	2,738,595.09	36.28705140	-107.78072796	
8,900.00	90.00	302.010	5,306.00	1,619.63	-4,638.01	1,923,843.33	2,738,510.29	36.28719714	-107.78101558	
9,000.00	90.00	302.010	5,306.00	1,672.64	-4,722.81	1,923,896.34	2,738,425.50	36.28734287	-107.78130321	
9,100.00	90.00	302.010	5,306.00	1,725.64	-4,807.61	1,923,949.35	2,738,340.70	36.28748861	-107.78159084	
9,200.00	90.00	302.010	5,306.00	1,778.65	-4,892.40	1,924,002.35	2,738,255.91	36.28763435	-107.78187847	
9,300.00	90.00	302.010	5,306.00	1,831.66	-4,977.20	1,924,055.36	2,738,171.11	36.28778008	-107.78216610	
9,400.00	90.00	302.010	5,306.00	1,884.66	-5,061.99	1,924,108.36	2,738,086.32	36.28792582	-107.78245373	
9,500.00	90.00	302.010	5,306.00	1,937.67	-5,146.79	1,924,161.37	2,738,001.52	36.28807155	-107.78274136	
9,600.00	90.00	302.010	5,306.00	1,990.68	-5,231.58	1,924,214.38	2,737,916.73	36.28821729	-107.78302899	
9,700.00	90.00	302.010	5,306.00	2,043.68	-5,316.38	1,924,267.38	2,737,831.93	36.28836302	-107.78331663	
9,800.00	90.00	302.010	5,306.00	2,096.69	-5,401.18	1,924,320.39	2,737,747.13	36.28850875	-107.78360426	



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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	
9,900.00	90.00	302.010	5,306.00	2,149.70	-5,485.97	1,924,373.40	2,737,662.34	36.28865448	-107.78389190	
10,000.00	90.00	302.010	5,306.00	2,202.70	-5,570.77	1,924,426.40	2,737,577.54	36.28880021	-107.78417954	
10,100.00	90.00	302.010	5,306.00	2,255.71	-5,655.56	1,924,479.41	2,737,492.75	36.28894594	-107.78446718	
10,200.00	90.00	302.010	5,306.00	2,308.72	-5,740.36	1,924,532.42	2,737,407.95	36.28909167	-107.78475482	
10,300.00	90.00	302.010	5,306.00	2,361.72	-5,825.15	1,924,585.42	2,737,323.16	36.28923740	-107.78504246	
10,400.00	90.00	302.010	5,306.00	2,414.73	-5,909.95	1,924,638.43	2,737,238.36	36.28938313	-107.78533010	
10,500.00	90.00	302.010	5,306.00	2,467.74	-5,994.74	1,924,691.44	2,737,153.57	36.28952886	-107.78561774	
10,600.00	90.00	302.010	5,306.00	2,520.74	-6,079.54	1,924,744.44	2,737,068.77	36.28967458	-107.78590539	
10,700.00	90.00	302.010	5,306.00	2,573.75	-6,164.34	1,924,797.45	2,736,983.98	36.28982031	-107.78619303	
10,800.00	90.00	302.010	5,306.00	2,626.76	-6,249.13	1,924,850.46	2,736,899.18	36.28996603	-107.78648068	
10,900.00	90.00	302.010	5,306.00	2,679.76	-6,333.93	1,924,903.46	2,736,814.38	36.29011176	-107.78676833	
11,000.00	90.00	302.010	5,306.00	2,732.77	-6,418.72	1,924,956.47	2,736,729.59	36.29025748	-107.78705598	
11,100.00	90.00	302.010	5,306.00	2,785.78	-6,503.52	1,925,009.48	2,736,644.79	36.29040321	-107.78734362	
11,200.00	90.00	302.010	5,306.00	2,838.78	-6,588.31	1,925,062.48	2,736,560.00	36.29054893	-107.78763128	
11,300.00	90.00	302.010	5,306.00	2,891.79	-6,673.11	1,925,115.49	2,736,475.20	36.29069465	-107.78791893	
11,400.00	90.00	302.010	5,306.00	2,944.80	-6,757.90	1,925,168.50	2,736,390.41	36.29084037	-107.78820658	
11,500.00	90.00	302.010	5,306.00	2,997.80	-6,842.70	1,925,221.50	2,736,305.61	36.29098609	-107.78849423	
11,600.00	90.00	302.010	5,306.00	3,050.81	-6,927.50	1,925,274.51	2,736,220.82	36.29113181	-107.78878189	
11,700.00	90.00	302.010	5,306.00	3,103.82	-7,012.29	1,925,327.52	2,736,136.02	36.29127753	-107.78906954	
11,800.00	90.00	302.010	5,306.00	3,156.82	-7,097.09	1,925,380.52	2,736,051.23	36.29142325	-107.78935720	
11,900.00	90.00	302.010	5,306.00	3,209.83	-7,181.88	1,925,433.53	2,735,966.43	36.29156897	-107.78964486	
12,000.00	90.00	302.010	5,306.00	3,262.84	-7,266.68	1,925,486.53	2,735,881.63	36.29171468	-107.78993252	
12,100.00	90.00	302.010	5,306.00	3,315.84	-7,351.47	1,925,539.54	2,735,796.84	36.29186040	-107.79022018	
12,200.00	90.00	302.010	5,306.00	3,368.85	-7,436.27	1,925,592.55	2,735,712.04	36.29200611	-107.79050784	
12,300.00	90.00	302.010	5,306.00	3,421.86	-7,521.07	1,925,645.55	2,735,627.25	36.29215183	-107.79079550	
12,400.00	90.00	302.010	5,306.00	3,474.86	-7,605.86	1,925,698.56	2,735,542.45	36.29229754	-107.79108317	
12,500.00	90.00	302.010	5,306.00	3,527.87	-7,690.66	1,925,751.57	2,735,457.66	36.29244326	-107.79137083	
12,600.00	90.00	302.010	5,306.00	3,580.88	-7,775.45	1,925,804.57	2,735,372.86	36.29258897	-107.79165850	
12,700.00	90.00	302.010	5,306.00	3,633.88	-7,860.25	1,925,857.58	2,735,288.07	36.29273468	-107.79194616	
12,800.00	90.00	302.010	5,306.00	3,686.89	-7,945.04	1,925,910.59	2,735,203.27	36.29288039	-107.79223383	
12,900.00	90.00	302.010	5,306.00	3,739.90	-8,029.84	1,925,963.59	2,735,118.48	36.29302610	-107.79252150	
13,000.00	90.00	302.010	5,306.00	3,792.90	-8,114.63	1,926,016.60	2,735,033.68	36.29317181	-107.79280917	
13,100.00	90.00	302.010	5,306.00	3,845.91	-8,199.43	1,926,069.61	2,734,948.88	36.29331752	-107.79309684	
13,200.00	90.00	302.010	5,306.00	3,898.91	-8,284.23	1,926,122.61	2,734,864.09	36.29346323	-107.79338451	
13,300.00	90.00	302.010	5,306.00	3,951.92	-8,369.02	1,926,175.62	2,734,779.29	36.29360894	-107.79367219	
13,400.00	90.00	302.010	5,306.00	4,004.93	-8,453.82	1,926,228.63	2,734,694.50	36.29375465	-107.79395986	
13,500.00	90.00	302.010	5,306.00	4,057.93	-8,538.61	1,926,281.63	2,734,609.70	36.29390035	-107.79424754	
13,600.00	90.00	302.010	5,306.00	4,110.94	-8,623.41	1,926,334.64	2,734,524.91	36.29404606	-107.79453521	
13,700.00	90.00	302.010	5,306.00	4,163.95	-8,708.20	1,926,387.65	2,734,440.11	36.29419176	-107.79482289	
13,800.00	90.00	302.010	5,306.00	4,216.95	-8,793.00	1,926,440.65	2,734,355.32	36.29433747	-107.79511057	
13,900.00	90.00	302.010	5,306.00	4,269.96	-8,877.80	1,926,493.66	2,734,270.52	36.29448317	-107.79539825	
14,000.00	90.00	302.010	5,306.00	4,322.97	-8,962.59	1,926,546.67	2,734,185.73	36.29462887	-107.79568593	
14,100.00	90.00	302.010	5,306.00	4,375.97	-9,047.39	1,926,599.67	2,734,100.93	36.29477458	-107.79597361	
14,200.00	90.00	302.010	5,306.00	4,428.98	-9,132.18	1,926,652.68	2,734,016.14	36.29492028	-107.79626129	
14,300.00	90.00	302.010	5,306.00	4,481.99	-9,216.98	1,926,705.68	2,733,931.34	36.29506598	-107.79654898	
14,400.00	90.00	302.010	5,306.00	4,534.99	-9,301.77	1,926,758.69	2,733,846.54	36.29521168	-107.79683666	
14,500.00	90.00	302.010	5,306.00	4,588.00	-9,386.57	1,926,811.70	2,733,761.75	36.29535738	-107.79712435	
14,600.00	90.00	302.010	5,306.00	4,641.01	-9,471.36	1,926,864.70	2,733,676.95	36.29550308	-107.79741203	
14,700.00	90.00	302.010	5,306.00	4,694.01	-9,556.16	1,926,917.71	2,733,592.16	36.29564878	-107.79769972	
14,800.00	90.00	302.010	5,306.00	4,747.02	-9,640.96	1,926,970.72	2,733,507.36	36.29579447	-107.79798741	
14,900.00	90.00	302.010	5,306.00	4,800.03	-9,725.75	1,927,023.72	2,733,422.57	36.29594017	-107.79827510	
15,000.00	90.00	302.010	5,306.00	4,853.03	-9,810.55	1,927,076.73	2,733,337.77	36.29608587	-107.79856279	
15,100.00	90.00	302.010	5,306.00	4,906.04	-9,895.34	1,927,129.74	2,733,252.98	36.29623156	-107.79885049	
15,200.00	90.00	302.010	5,306.00	4,959.05	-9,980.14	1,927,182.74	2,733,168.18	36.29637726	-107.79913818	
15,300.00	90.00	302.010	5,306.00	5,012.05	-10,064.93	1,927,235.75	2,733,083.39	36.29652295	-107.79942587	



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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
15,400.00	90.00	302.010	5,306.00	5,065.06	-10,149.73	1,927,288.76	2,732,998.59	36.29666864	-107.79971357
15,500.00	90.00	302.010	5,306.00	5,118.07	-10,234.53	1,927,341.76	2,732,913.79	36.29681434	-107.80000127
15,600.00	90.00	302.010	5,306.00	5,171.07	-10,319.32	1,927,394.77	2,732,829.00	36.29696003	-107.80028896
15,700.00	90.00	302.010	5,306.00	5,224.08	-10,404.12	1,927,447.78	2,732,744.20	36.29710572	-107.80057666
15,800.00	90.00	302.010	5,306.00	5,277.09	-10,488.91	1,927,500.78	2,732,659.41	36.29725141	-107.80086436
15,900.00	90.00	302.010	5,306.00	5,330.09	-10,573.71	1,927,553.79	2,732,574.61	36.29739710	-107.80115206
16,000.00	90.00	302.010	5,306.00	5,383.10	-10,658.50	1,927,606.80	2,732,489.82	36.29754279	-107.80143977
16,100.00	90.00	302.010	5,306.00	5,436.11	-10,743.30	1,927,659.80	2,732,405.02	36.29768848	-107.80172747
16,200.00	90.00	302.010	5,306.00	5,489.11	-10,828.09	1,927,712.81	2,732,320.23	36.29783417	-107.80201517
16,300.00	90.00	302.010	5,306.00	5,542.12	-10,912.89	1,927,765.82	2,732,235.43	36.29797985	-107.80230288
16,400.00	90.00	302.010	5,306.00	5,595.13	-10,997.69	1,927,818.82	2,732,150.64	36.29812554	-107.80259058
16,500.00	90.00	302.010	5,306.00	5,648.13	-11,082.48	1,927,871.83	2,732,065.84	36.29827122	-107.80287829
16,523.18	90.00	302.010	5,306.00	5,660.42	-11,102.14	1,927,884.12	2,732,046.18	36.29830500	-107.80294500
PBHL @ 16523.18 MD 5306.00 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 216H PPP/POE - plan hits target center - Point	0.00	0.000	5,271.45	-12.27	-2,027.43	1,922,211.43	2,741,120.87	36.28271000	-107.77216100	
Nageezi 216H 0 VS - plan misses target center by 1409.64ft at 5184.76ft MD (4821.20 TVD, -132.55 N, -1639.03 E) - Point	0.00	0.000	5,306.00	-920.10	-575.16	1,921,303.61	2,742,573.14	36.28021353	-107.76723563	
Nageezi 216H BHL 2167 - plan hits target center - Point	0.00	0.000	5,306.00	5,660.42	-11,102.14	1,927,884.12	2,732,046.18	36.29830500	-107.80294500	

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	
5,917.29	5,297.30	7" Intermediate Casing	7	8-1/2	



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 216H
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 216H	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				
956.00	956.00	Kirtland				
1,246.69	1,246.00	Fruitland				
1,600.86	1,591.00	Pictured Cliffs				
1,717.78	1,701.00	Lewis				
2,048.78	2,001.00	Chacra_A				
3,260.83	3,091.00	Cliff House_Basal				
3,294.19	3,121.00	Menefee				
4,328.32	4,051.00	Point Lookout				
4,547.38	4,248.00	Mancos				
4,934.35	4,596.00	MNCS_A				
5,031.09	4,683.00	MNCS_B				
5,148.96	4,789.00	MNCS_C				
5,197.89	4,833.00	MNCS_Cms				
5,331.42	4,953.00	MNCS_D				
5,459.15	5,061.00	MNCS_E				
5,555.45	5,133.00	MNCS_F				
5,680.98	5,211.00	MNCS_G				
5,763.85	5,251.00	MNCS_H				
5,865.44	5,286.00	MNCS_I				

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	
1,864.45	1,835.23	-15.50	-191.69	Begin 25.93° tangent	
5,313.24	4,936.74	-137.08	-1,695.04	Begin 10°/100' build/turn	
5,817.29	5,271.45	-12.27	-2,027.43	POE @ 5817.29 MD 5271.45 TVD	
6,017.29	5,306.00	91.60	-2,193.60	Begin 90.00° lateral	
16,523.18	5,306.00	5,660.42	-11,102.14	PBHL @ 16523.18 MD 5306.00 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 334053

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 334053
	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.	5/28/2024