

Well Name: NAGEEZI UNIT	Well Location: T24N / R9W / SEC 25 / SWSW / 36.279168 / -107.748693	County or Parish/State: SAN JUAN / NM
Well Number: 207H	Type of Well: OIL WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: NMSF078860	Unit or CA Name:	Unit or CA Number: NMNM132981A
US Well Number: 3004538299	Operator: DJR OPERATING LLC	

Notice of Intent

Sundry ID: 2785940

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 04/19/2024	Time Sundry Submitted: 08:18
Date proposed operation will begin: 04/19/2024	

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

NOI Attachments

Procedure Description

NU_217H_DPR_Rev2_20240419081813.pdf

Received by OCD: 8/6/2024 8:56:49 AM

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Lease Number: NMSF078860	Unit or CA Name:	Unit or CA Number: NMNM132981A
US Well Number:	Operator: DJR OPERATING LLC	

Operator

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

Operator Electronic Signature: SHAW-MARIE FORD	Signed on: APR 19, 2024 08:18 AM
Name: DJR OPERATING LLC	
Title: Regulatory Specialist	
Street Address: 1 ROAD 3263	
City: AZTEC	State: NM
Phone: (505) 632-3476	
Email address: SFORD@ENDURINGRESOURCES.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 04/19/2024
Signature: Kenneth Rennick	

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 30-045-38299	Pool Code 98080	Pool Name NAGEEZI UNIT MANCOS OIL POOL
Property Code 325268	Property Name NAGEEZI UNIT	Well Number 207H
OGRID No. 371838	Operator Name DJR OPERATING, LLC	Ground Level Elevation 6805'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location (SHL)

UL M	Section 25	Township 24N	Range 9W	Lot	Ft from the N/S 492' SOUTH	Ft from the E/W 403' WEST	Latitude 36.279168° N	Longitude 107.748693° W	County SAN JUAN
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Bottom Hole Location (BHL)

UL I	Section 36	Township 24N	Range 9W	Lot	Ft from the N/S 1902' SOUTH	Ft from the E/W 224' EAST	Latitude 36.268765° N	Longitude 107.732913° W	County SAN JUAN
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Dedicated Acres PENETRATED SPACING UNIT; SEC 25: SW/SW & SE/SW (80 AC.); SEC 36: NW/NW, NE/NW, SE/NW, NW/NE, SW/NE, SE/NE, NW/SE & NE/SE (320 AC.) = 400 ACRES	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N) N	Consolidation Code
Order Numbers: R-13856 R-13856A		Well Setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No		

Kick Off Point (KOP)

UL M	Section 25	Township 24N	Range 9W	Lot	Ft from the N/S 943' SOUTH	Ft from the E/W 522' WEST	Latitude 36.280412° N	Longitude 107.748289° W	County SAN JUAN
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Fist Take Point (FTP)

UL M	Section 25	Township 24N	Range 9W	Lot	Ft from the N/S 680' SOUTH	Ft from the E/W 797' WEST	Latitude 36.279705° N	Longitude 107.747355° W	County SAN JUAN
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Last Take Point (LTP)

UL I	Section 36	Township 24N	Range 9W	Lot	Ft from the N/S 1902' SOUTH	Ft from the E/W 224' EAST	Latitude 36.268765° N	Longitude 107.732913° W	County SAN JUAN
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Unitized Area or Area of Uniform Interest NAGEEZI	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation
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OPERATOR CERTIFICATIONS

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

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

Shaw-Marie Ford

Signature

8/6/24

Date

Shaw-Marie Ford

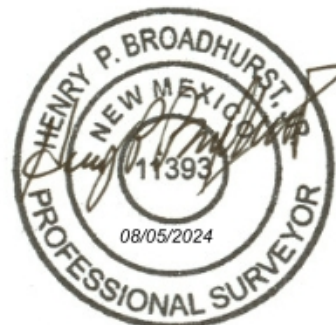
Printed Name

sford@enduringresources.com

E-mail Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

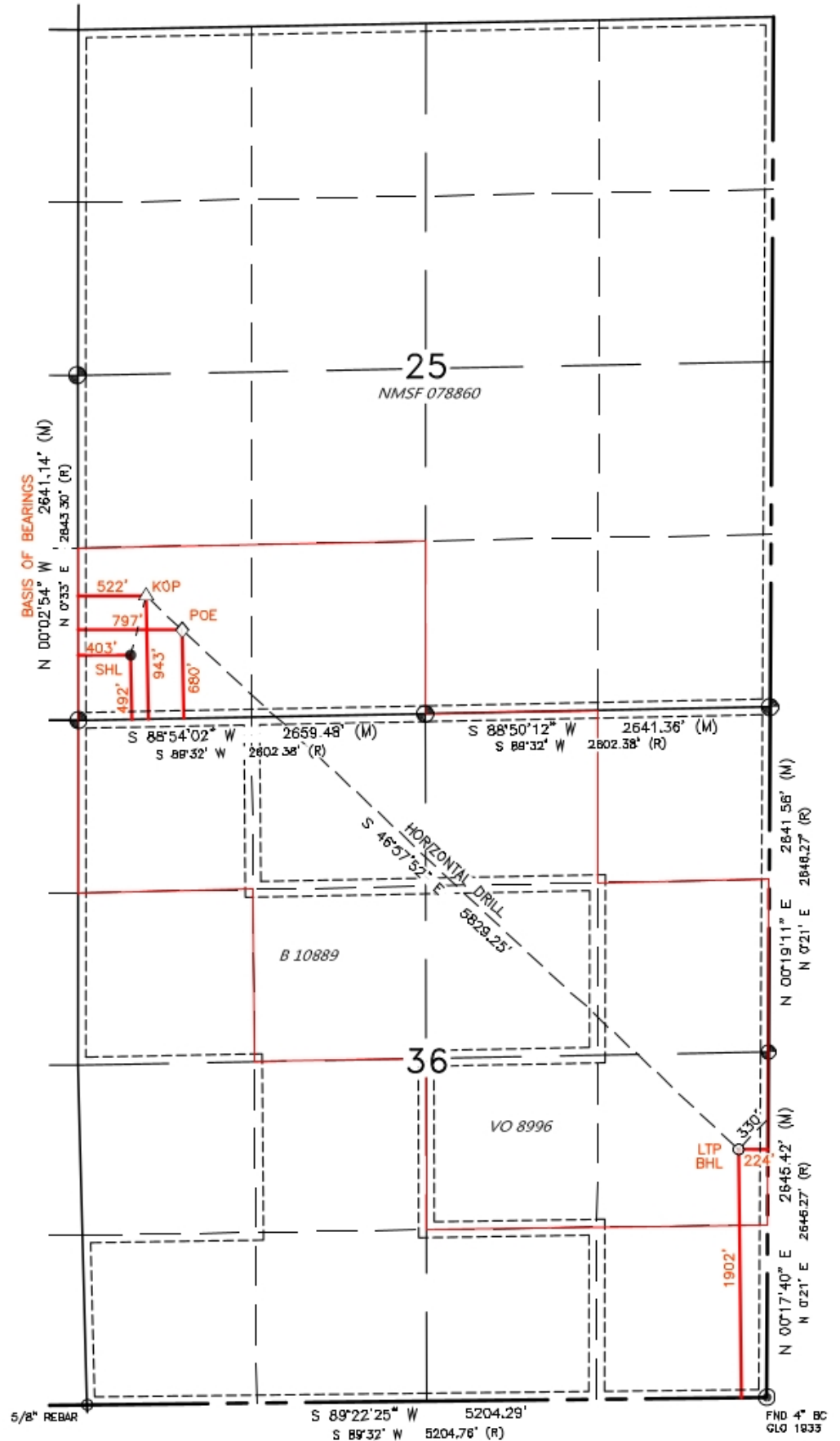


Signature and Seal of Professional Surveyor:

Certificate Number 11393	Date of Survey NOVEMBER 9, 2020
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

- SURFACE LOCATION (SHL) ●
- 492' FSL 403' FWL
SEC. 25, T24N, R9W
LAT. 36.279168° N (NAD83)
LONG. 107.748693° W (NAD83)
- KICK OFF POINT (KOP) ▲
- 943' FSL 522' FWL
SEC. 25, T24N, R9W
LAT. 36.280412° N (NAD83)
LONG. 107.748289° W (NAD83)
- FIRST TAKE POINT (FTP) ◇
- 680' FSL 797' FWL
SEC. 25, T24N, R9W
LAT. 36.279705° N (NAD83)
LONG. 107.747355° W (NAD83)
- LAST TAKE POINT (LTP) □
- 1902' FSL 224' FEL
SEC. 36, T24N, R9W
LAT. 36.268765° N (NAD83)
LONG. 107.732913° W (NAD83)
- BOTTOM HOLE LOCATION (BHL) ○
- 1902' FSL 224' FEL
SEC. 36, T24N, R9W
LAT. 36.268765° N (NAD83)
LONG. 107.732913° W (NAD83)



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

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

WELL INFORMATION:

Name: NAGEEZI UNIT 207H

API Number: 30-045-38299

AFE Number: Not yet assigned

ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elevation: 6,805 ft ASL (GL)

6,830 ft ASL (KB)

Surface Location: 45924 Sec-Twn-Rng

492 ft FSL

403 ft FWL

36.279168 ° N latitude

107.748693 ° W longitude

(NAD 83)

BH Location: 36-24-9 Sec-Twn-Rng

1,902 ft FSL

224 ft FEL

36.268765 ° N latitude

107.732913 ° W longitude

(NAD 83)

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

South on US Hwy 550 for 35.0 miles to MM 117.0, Right (SouthWest) on IR7786 Road for 200 feet; Left (SouthEast) on new access for 0.4 miles to Nageezi M25 Pad, There are 5 wells on this location from West to East (NU 623H, NU 209H, NU 626H, NU 211H, NU 207H).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O / G / W	Pressure
	Ojo Alamo	5,995	835	835	W	normal
	Kirtland	5,867	963	963	W	normal
	Fruitland	5,590	1,240	1,240	G, W	sub
	Pictured Cliffs	5,247	1,583	1,586	G, W	sub
	Lewis	5,130	1,700	1,705	G, W	normal
	Chacra	4,846	1,984	1,992	G, W	normal
	Cliff House	3,769	3,061	3,088	G, W	sub
	Menefee	3,739	3,091	3,118	G, W	normal
	Point Lookout	2,791	4,039	4,079	G, W	normal
	Mancos	2,591	4,239	4,279	O,G	sub (~0.38)
	Gallup (MNCS_A)	2,221	4,609	4,649	O,G	sub (~0.38)
	MNCS_B	2,141	4,689	4,729	O,G	sub (~0.38)
	MNCS_C	2,038	4,792	4,832	O,G	sub (~0.38)
	MNCS_Cms	1,996	4,834	4,875	O,G	sub (~0.38)
	MNCS_D	1,878	4,952	4,997	O,G	sub (~0.38)
	FTP TARGET	1,549	5,281	5,482	O,G	sub (~0.38)
	PROJECTED TD	1,572	5,258	11,316	O,G	sub (~0.38)

Surface: Nacimiento

Oil & Gas Zones: Several gas bearing zones will be encountered; target formation is the Gallup

Pressure: Normal (0.43 psi/ft) or sub-normal pressure gradients anticipated in all formations

Max. pressure gradient: 0.43 psi/ft Evacuated hole gradient: 0.22 psi/ft

Maximum anticipated BH pressure, assuming maximum pressure gradient: 2,280 psi

Maximum anticipated surface pressure, assuming partially evacuated hole: 1,120 psi

Temperature: Maximum anticipated BHT is 125° F or less

H2S INFORMATION:

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

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

LOGGING, CORING, AND TESTING:

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

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

Open Hole Logs: None planned

Testing: None planned

Coring: None planned

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

DRILLING RIG INFORMATION:

Contractor: Ensign

Rig No.: 140

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

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

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

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

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

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

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

Choke 3", 5,000 psi

KB-GL (ft): 23.5

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

BOPE REQUIREMENTS:

See attached diagram for details regarding BOPE specifications and configuration.

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

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

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

Closed-Loop System:

A fully, closed-loop system will be utilized. The system will consist of above-ground piping and above-ground storage tanks and bins. The system will not entail any earthen pits, below-grade storage, or drying pads. All equipment will be disassembled and removed from the site when drilling operations cease. The system will be capable of storing all fluids and generated cuttings and of preventing uncontrolled releases of the same. The system will be operated in an efficient manner to allow the recycling and reuse of as much fluid as possible and to 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	1,134	110,988	110,988
Min. S.F.					13.21	3.10	5.08	3.81

*Assumptions: Collapse: fully evacuated casing with 8.4 ppg equivalent external pressure gradient**Burst: maximum anticipated surface pressure with 9.5 ppg fluid inside casing while drilling intermediate hole and 8.4 ppg equivalent external pressure gradient**Tension: buoyed weight in 8.4 ppg fluid with 100,000 lbs over-pull***MU Torque (ft lbs):** Minumum: 3,400 Optimum: 4,530 Maximum: 5,660**Casing Summary:** Float shoe, 1 jt casing, float collar, casing to surface**Centralizers:** 2 centralizers per jt stop-banded 10' from each collar on bottom 3 jts, 1 centralizer per 2 jts to surface

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

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

Csg ID 8.921

Mesa Ready Mix or first available

Shoe Track L 44

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

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

350 ft (MD)	to	5,582 ft (MD)	Hole Section Length:	5,232 ft
350 ft (TVD)	to	5,307 ft (TVD)	Casing Required:	5,582 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					2,318	1,424	226,562	226,562
Min. S.F.					1.86	3.50	1.83	1.62

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

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

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

MU Torque (ft lbs): 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	485	1,037
Tail	Type III	14.6	1.380	6.64	20%	4,179	190	263

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.

5,582	ft (MD)	to	11,316	ft (MD)	Hole Section Length:		5,734	ft
5,307	ft (TVD)	to	5,258	ft (TVD)	Casing Required:		5,884	ft
Estimated KOP:			4,782	ft (MD)	4,742	ft (TVD)		
Estimated Liner Top:			5,432	ft (MD)	5,262	ft (TVD)		
Estimated Landing Point (FTP):			5,482	ft (MD)	5,281	ft (TVD)		
Estimated Lateral Length:			5,834	ft (MD)				

<i>Fluid:</i>	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

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)
	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
					2,597	8,801	213,270	213,270
					2.91	1.21	1.72	1.81

Cement:	Type	Weight (ppg)	Yield	Water	% Excess	Planned TOC	Total Cmt	Total Cmt (cu
<i>Spacer</i>	IntegraGuard Star	11		31.6		0	60 bbls	
<i>Tail</i>	G:POZ blend	13.3	1.560	7.70	25%	5,432	476	742

American Cementing Liner & Production Blend

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: 5,734
Est Frac Inform: 24 Frac Stages 92,000 bbls slick water 7,460,000 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



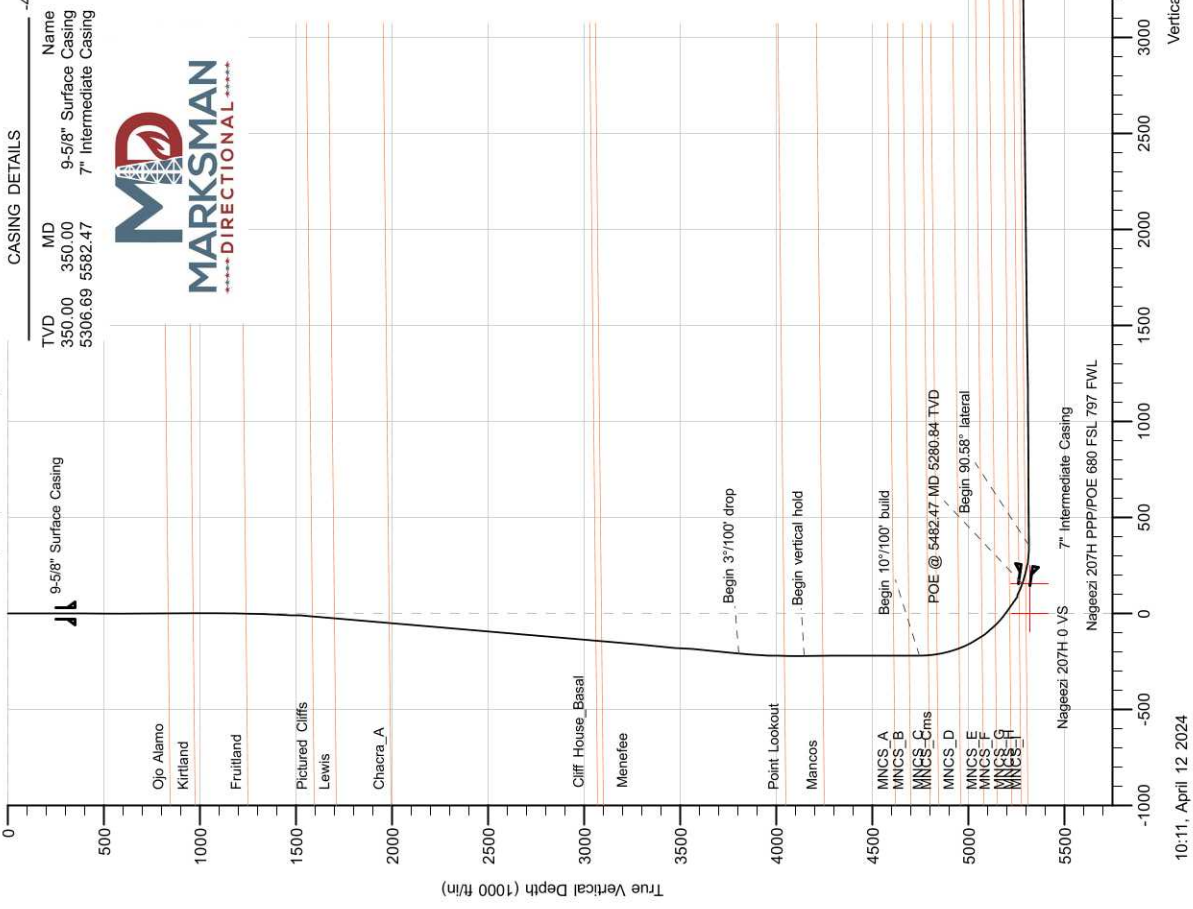
Well: Nageezi Unit 207H
Site: Nageezi Unit (207, 209, 211, 623 & 626)
Project: San Juan County, New Mexico NAD83 NM W
Design: rev0
Rig:

Azimuth to Grid North
True North: 0.05°
Magnetic North: 8.48°
Magnetic Field
Strength: 49067.1nT
Dip Angle: 62.73°
Date: 2/5/2024
Model: IGRF2020

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

Surface location:
Northing 1920927.26
Easting 36.27916800
Longitude -107.74889300

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



Section Details											
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	North	East	Lat	Long	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 3"/100' build
2	1300.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	Begin 3"/100' drop
3	1540.26	10.21	14.673	1538.46	29.24	7.66	3.00	14.67	-14.36	-107.74889300	Begin 10'21" tangent
4	3842.21	10.21	14.673	3803.98	423.89	110.99	0.00	0.00	0.00	0.00	Begin 3"/100' drop
5	4182.47	0.00	0.00	4142.44	453.13	118.65	0.00	0.00	0.00	0.00	Begin vertical hold
6	4782.47	0.00	0.00	4742.44	453.13	118.65	0.00	0.00	0.00	0.00	Begin 10'100' build
7	5482.47	70.00	133.040	5280.84	195.83	394.19	10.00	133.04	154.45	-107.74889300	POE @ 5482.47 MD 5280.84 TVD
8	5688.31	90.58	133.037	5315.37	58.10	541.68	10.00	-0.01	356.25	-107.74735500	Begin 90.58° lateral
9	11316.15	90.58	133.037	5258.00	-3782.51	4654.96	0.00	0.00	5983.80	-107.74735500	PBHL @ 11316.15 MD 5258.00 TVD

DESIGN TARGET DETAILS											
Name	MD	Inc	Azi	TVD	+N/S	+E/W	North	East	Lat	Long	Annotation
Nageezi 207H 0 VS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Nageezi 207H BHL 1902 FSL 224 FEL 330 ppd	350.00	0.00	0.00	350.00	301.24	281.30	1921228.50	2748319.98	36.27999484	-107.7473770	
Nageezi 207H PPP/POE 680 FSL 797 FWL	5306.69	5582.47	0.00	5258.00	-3782.51	4654.96	1917144.76	2752693.63	36.26876500	-107.73291300	
Nageezi 207H PPP/POE 680 FSL 797 FWL	5306.69	5582.47	0.00	5317.43	195.83	394.19	1921123.09	2748432.87	36.27970500	-107.74735500	



Planning Report

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

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Nageezi Unit (207, 209, 211, 623 & 626)				
Site Position:		Northing:	1,920,927.26 usft	Latitude:	36.27916800
From:	Lat/Long	Easting:	2,748,038.68 usft	Longitude:	-107.74869300
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "		

Well							Nageezi Unit 207H, Surf loc: 492 FSL 403 FWL Section 25-T24N-R09W						
Well Position	+N/-S	0.00 ft	Northing:	1,920,927.26	usft	Latitude:	36.27916800						
	+E/-W	0.00 ft	Easting:	2,748,038.68	usft	Longitude:	-107.74869300						
Position Uncertainty		0.00 ft	Wellhead Elevation:		ft	Ground Level:	6,805.00 ft						
Grid Convergence:		0.05 °											

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/5/2024	8.53	62.73	49,067.08177215

Design	rev0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	133.040	

Plan Survey Tool Program	Date	4/12/2024			
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	11,316.15	rev0 (Original Hole)	MWD	
				OWSG MWD - Standard	



Planning Report

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,540.26	10.21	14.673	1,538.46	29.24	7.66	3.00	3.00	0.00	14.67	
3,842.21	10.21	14.673	3,803.98	423.89	110.99	0.00	0.00	0.00	0.00	
4,182.47	0.00	0.000	4,142.44	453.13	118.65	3.00	-3.00	0.00	180.00	
4,782.47	0.00	0.000	4,742.44	453.13	118.65	0.00	0.00	0.00	0.00	
5,482.47	70.00	133.040	5,280.84	195.83	394.19	10.00	10.00	0.00	133.04	
5,688.31	90.58	133.037	5,315.37	58.10	541.68	10.00	10.00	0.00	-0.01	
11,316.15	90.58	133.037	5,258.00	-3,782.51	4,654.96	0.00	0.00	0.00	0.00	Nageezi 207H BHL 15



Planning Report

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 207H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	North Reference:	Grid
Well:	Nageezi Unit 207H	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
835.00	0.00	0.000	835.00	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
963.00	0.00	0.000	963.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland									
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Begin 3°/100' build									
1,240.00	1.20	14.673	1,240.00	0.41	0.11	-0.20	3.00	3.00	0.00
Fruitland									
1,300.00	3.00	14.673	1,299.95	2.53	0.66	-1.24	3.00	3.00	0.00
1,400.00	6.00	14.673	1,399.63	10.12	2.65	-4.97	3.00	3.00	0.00
1,500.00	9.00	14.673	1,498.77	22.75	5.96	-11.17	3.00	3.00	0.00
1,540.26	10.21	14.673	1,538.46	29.24	7.66	-14.36	3.00	3.00	0.00
Begin 10.21° tangent									
1,585.70	10.21	14.673	1,583.18	37.03	9.70	-18.19	0.00	0.00	0.00
Pictured Cliffs									
1,600.00	10.21	14.673	1,597.26	39.49	10.34	-19.39	0.00	0.00	0.00
1,700.00	10.21	14.673	1,695.67	56.63	14.83	-27.81	0.00	0.00	0.00
1,704.69	10.21	14.673	1,700.29	57.43	15.04	-28.21	0.00	0.00	0.00
Lewis									
1,800.00	10.21	14.673	1,794.09	73.77	19.32	-36.23	0.00	0.00	0.00
1,900.00	10.21	14.673	1,892.51	90.92	23.81	-44.65	0.00	0.00	0.00
1,992.49	10.21	14.673	1,983.53	106.77	27.96	-52.44	0.00	0.00	0.00
Chacra_A									
2,000.00	10.21	14.673	1,990.93	108.06	28.30	-53.07	0.00	0.00	0.00
2,100.00	10.21	14.673	2,089.34	125.20	32.78	-61.49	0.00	0.00	0.00
2,200.00	10.21	14.673	2,187.76	142.35	37.27	-69.91	0.00	0.00	0.00
2,300.00	10.21	14.673	2,286.18	159.49	41.76	-78.33	0.00	0.00	0.00
2,400.00	10.21	14.673	2,384.59	176.64	46.25	-86.75	0.00	0.00	0.00
2,500.00	10.21	14.673	2,483.01	193.78	50.74	-95.17	0.00	0.00	0.00
2,600.00	10.21	14.673	2,581.43	210.92	55.23	-103.59	0.00	0.00	0.00
2,700.00	10.21	14.673	2,679.85	228.07	59.72	-112.01	0.00	0.00	0.00
2,800.00	10.21	14.673	2,778.26	245.21	64.21	-120.43	0.00	0.00	0.00
2,900.00	10.21	14.673	2,876.68	262.36	68.70	-128.85	0.00	0.00	0.00
3,000.00	10.21	14.673	2,975.10	279.50	73.19	-137.27	0.00	0.00	0.00
3,087.76	10.21	14.673	3,061.46	294.54	77.12	-144.66	0.00	0.00	0.00
Cliff House_Basal									
3,100.00	10.21	14.673	3,073.51	296.64	77.67	-145.69	0.00	0.00	0.00
3,118.26	10.21	14.673	3,091.49	299.77	78.49	-147.23	0.00	0.00	0.00
Menefee									



Planning Report

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

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,200.00	10.21	14.673	3,171.93	313.79	82.16	-154.11	0.00	0.00	0.00	
3,300.00	10.21	14.673	3,270.35	330.93	86.65	-162.53	0.00	0.00	0.00	
3,400.00	10.21	14.673	3,368.77	348.07	91.14	-170.95	0.00	0.00	0.00	
3,500.00	10.21	14.673	3,467.18	365.22	95.63	-179.37	0.00	0.00	0.00	
3,600.00	10.21	14.673	3,565.60	382.36	100.12	-187.79	0.00	0.00	0.00	
3,700.00	10.21	14.673	3,664.02	399.51	104.61	-196.21	0.00	0.00	0.00	
3,800.00	10.21	14.673	3,762.44	416.65	109.10	-204.63	0.00	0.00	0.00	
3,842.21	10.21	14.673	3,803.98	423.89	110.99	-208.18	0.00	0.00	0.00	
Begin 3°/100' drop										
3,900.00	8.47	14.673	3,861.00	432.96	113.37	-212.64	3.00	-3.00	0.00	
4,000.00	5.47	14.673	3,960.25	444.70	116.44	-218.41	3.00	-3.00	0.00	
4,079.22	3.10	14.673	4,039.24	450.43	117.94	-221.22	3.00	-3.00	0.00	
Point Lookout										
4,100.00	2.47	14.673	4,060.00	451.41	118.20	-221.70	3.00	-3.00	0.00	
4,182.47	0.00	0.000	4,142.44	453.13	118.65	-222.55	3.00	-3.00	0.00	
Begin vertical hold										
4,200.00	0.00	0.000	4,159.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,279.28	0.00	0.000	4,239.25	453.13	118.65	-222.55	0.00	0.00	0.00	
Mancos										
4,300.00	0.00	0.000	4,259.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,400.00	0.00	0.000	4,359.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,500.00	0.00	0.000	4,459.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,600.00	0.00	0.000	4,559.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,649.28	0.00	0.000	4,609.25	453.13	118.65	-222.55	0.00	0.00	0.00	
MNCS_A										
4,700.00	0.00	0.000	4,659.97	453.13	118.65	-222.55	0.00	0.00	0.00	
4,729.28	0.00	0.000	4,689.25	453.13	118.65	-222.55	0.00	0.00	0.00	
MNCS_B										
4,782.47	0.00	0.000	4,742.44	453.13	118.65	-222.55	0.00	0.00	0.00	
Begin 10°/100' build										
4,800.00	1.75	133.040	4,759.97	452.95	118.85	-222.28	10.00	10.00	0.00	
4,832.32	4.99	133.040	4,792.23	451.65	120.23	-220.38	10.00	10.00	0.00	
MNCS_C										
4,850.00	6.75	133.040	4,809.81	450.42	121.56	-218.57	10.00	10.00	0.00	
4,874.61	9.21	133.040	4,834.18	448.08	124.05	-215.15	10.00	10.00	0.00	
MNCS_Cms										
4,900.00	11.75	133.040	4,859.15	444.93	127.43	-210.53	10.00	10.00	0.00	
4,950.00	16.75	133.040	4,907.59	436.53	136.42	-198.23	10.00	10.00	0.00	
4,996.85	21.44	133.040	4,951.85	426.08	147.62	-182.91	10.00	10.00	0.00	
MNCS_D										
5,000.00	21.75	133.040	4,954.78	425.28	148.47	-181.75	10.00	10.00	0.00	
5,050.00	26.75	133.040	5,000.35	411.27	163.48	-161.21	10.00	10.00	0.00	
5,100.00	31.75	133.040	5,043.96	394.60	181.33	-136.79	10.00	10.00	0.00	
5,132.63	35.02	133.040	5,071.20	382.35	194.45	-118.84	10.00	10.00	0.00	
MNCS_E										
5,150.00	36.75	133.040	5,085.28	375.40	201.89	-108.66	10.00	10.00	0.00	
5,200.00	41.75	133.040	5,123.98	353.81	225.01	-77.03	10.00	10.00	0.00	
5,218.59	43.61	133.040	5,137.65	345.21	234.22	-64.42	10.00	10.00	0.00	
MNCS_F										
5,250.00	46.75	133.040	5,159.79	330.01	250.50	-42.15	10.00	10.00	0.00	
5,300.00	51.75	133.040	5,192.41	304.16	278.18	-4.28	10.00	10.00	0.00	
5,332.47	55.00	133.040	5,211.78	286.38	297.22	21.78	10.00	10.00	0.00	



Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
MNCS_G									
5,350.00	56.75	133.040	5,221.61	276.47	307.83	36.29	10.00	10.00	0.00
5,400.00	61.75	133.040	5,247.17	247.15	339.22	79.25	10.00	10.00	0.00
5,430.60	64.81	133.040	5,260.92	228.50	359.19	106.57	10.00	10.00	0.00
MNCS_H									
5,450.00	66.75	133.040	5,268.88	216.43	372.13	124.27	10.00	10.00	0.00
5,482.47	70.00	133.040	5,280.84	195.83	394.19	154.45	10.00	10.00	0.00
POE @ 5482.47 MD 5280.84 TVD									
5,500.00	71.75	133.040	5,286.59	184.52	406.29	171.01	10.00	10.00	0.00
5,536.54	75.41	133.039	5,296.91	160.61	431.90	206.05	10.00	10.00	0.00
MNCS_I									
5,550.00	76.75	133.039	5,300.15	151.69	441.45	219.12	10.00	10.00	0.00
5,582.47	80.00	133.038	5,306.69	129.99	464.70	250.92	10.00	10.00	0.00
7" Intermediate Casing									
5,600.00	81.75	133.038	5,309.47	118.18	477.35	268.23	10.00	10.00	0.00
5,650.00	86.75	133.037	5,314.48	84.23	513.70	317.96	10.00	10.00	0.00
5,688.31	90.58	133.037	5,315.37	58.10	541.68	356.25	10.00	10.00	0.00
Begin 90.58° lateral									
5,700.00	90.58	133.037	5,315.25	50.12	550.23	367.94	0.00	0.00	0.00
5,800.00	90.58	133.037	5,314.23	-18.12	623.32	467.93	0.00	0.00	0.00
5,900.00	90.58	133.037	5,313.21	-86.36	696.40	567.93	0.00	0.00	0.00
6,000.00	90.58	133.037	5,312.19	-154.61	769.49	667.92	0.00	0.00	0.00
6,100.00	90.58	133.037	5,311.17	-222.85	842.58	767.92	0.00	0.00	0.00
6,200.00	90.58	133.037	5,310.15	-291.09	915.67	867.91	0.00	0.00	0.00
6,300.00	90.58	133.037	5,309.13	-359.34	988.76	967.91	0.00	0.00	0.00
6,400.00	90.58	133.037	5,308.11	-427.58	1,061.84	1,067.90	0.00	0.00	0.00
6,500.00	90.58	133.037	5,307.09	-495.82	1,134.93	1,167.90	0.00	0.00	0.00
6,600.00	90.58	133.037	5,306.07	-564.06	1,208.02	1,267.89	0.00	0.00	0.00
6,700.00	90.58	133.037	5,305.06	-632.31	1,281.11	1,367.89	0.00	0.00	0.00
6,800.00	90.58	133.037	5,304.04	-700.55	1,354.20	1,467.88	0.00	0.00	0.00
6,900.00	90.58	133.037	5,303.02	-768.79	1,427.28	1,567.88	0.00	0.00	0.00
7,000.00	90.58	133.037	5,302.00	-837.04	1,500.37	1,667.87	0.00	0.00	0.00
7,100.00	90.58	133.037	5,300.98	-905.28	1,573.46	1,767.87	0.00	0.00	0.00
7,200.00	90.58	133.037	5,299.96	-973.52	1,646.55	1,867.86	0.00	0.00	0.00
7,300.00	90.58	133.037	5,298.94	-1,041.77	1,719.64	1,967.86	0.00	0.00	0.00
7,400.00	90.58	133.037	5,297.92	-1,110.01	1,792.72	2,067.85	0.00	0.00	0.00
7,500.00	90.58	133.037	5,296.90	-1,178.25	1,865.81	2,167.85	0.00	0.00	0.00
7,600.00	90.58	133.037	5,295.88	-1,246.50	1,938.90	2,267.84	0.00	0.00	0.00
7,700.00	90.58	133.037	5,294.86	-1,314.74	2,011.99	2,367.84	0.00	0.00	0.00
7,800.00	90.58	133.037	5,293.84	-1,382.98	2,085.07	2,467.83	0.00	0.00	0.00
7,900.00	90.58	133.037	5,292.82	-1,451.22	2,158.16	2,567.83	0.00	0.00	0.00
8,000.00	90.58	133.037	5,291.80	-1,519.47	2,231.25	2,667.82	0.00	0.00	0.00
8,100.00	90.58	133.037	5,290.78	-1,587.71	2,304.34	2,767.82	0.00	0.00	0.00
8,200.00	90.58	133.037	5,289.76	-1,655.95	2,377.43	2,867.81	0.00	0.00	0.00
8,300.00	90.58	133.037	5,288.75	-1,724.20	2,450.51	2,967.81	0.00	0.00	0.00
8,400.00	90.58	133.037	5,287.73	-1,792.44	2,523.60	3,067.80	0.00	0.00	0.00
8,500.00	90.58	133.037	5,286.71	-1,860.68	2,596.69	3,167.79	0.00	0.00	0.00
8,600.00	90.58	133.037	5,285.69	-1,928.93	2,669.78	3,267.79	0.00	0.00	0.00
8,700.00	90.58	133.037	5,284.67	-1,997.17	2,742.87	3,367.78	0.00	0.00	0.00
8,800.00	90.58	133.037	5,283.65	-2,065.41	2,815.95	3,467.78	0.00	0.00	0.00
8,900.00	90.58	133.037	5,282.63	-2,133.66	2,889.04	3,567.77	0.00	0.00	0.00
9,000.00	90.58	133.037	5,281.61	-2,201.90	2,962.13	3,667.77	0.00	0.00	0.00
9,100.00	90.58	133.037	5,280.59	-2,270.14	3,035.22	3,767.76	0.00	0.00	0.00



Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,200.00	90.58	133.037	5,279.57	-2,338.38	3,108.31	3,867.76	0.00	0.00	0.00
9,300.00	90.58	133.037	5,278.55	-2,406.63	3,181.39	3,967.75	0.00	0.00	0.00
9,400.00	90.58	133.037	5,277.53	-2,474.87	3,254.48	4,067.75	0.00	0.00	0.00
9,500.00	90.58	133.037	5,276.51	-2,543.11	3,327.57	4,167.74	0.00	0.00	0.00
9,600.00	90.58	133.037	5,275.49	-2,611.36	3,400.66	4,267.74	0.00	0.00	0.00
9,700.00	90.58	133.037	5,274.47	-2,679.60	3,473.75	4,367.73	0.00	0.00	0.00
9,800.00	90.58	133.037	5,273.46	-2,747.84	3,546.83	4,467.73	0.00	0.00	0.00
9,900.00	90.58	133.037	5,272.44	-2,816.09	3,619.92	4,567.72	0.00	0.00	0.00
10,000.00	90.58	133.037	5,271.42	-2,884.33	3,693.01	4,667.72	0.00	0.00	0.00
10,100.00	90.58	133.037	5,270.40	-2,952.57	3,766.10	4,767.71	0.00	0.00	0.00
10,200.00	90.58	133.037	5,269.38	-3,020.81	3,839.19	4,867.71	0.00	0.00	0.00
10,300.00	90.58	133.037	5,268.36	-3,089.06	3,912.27	4,967.70	0.00	0.00	0.00
10,400.00	90.58	133.037	5,267.34	-3,157.30	3,985.36	5,067.70	0.00	0.00	0.00
10,500.00	90.58	133.037	5,266.32	-3,225.54	4,058.45	5,167.69	0.00	0.00	0.00
10,600.00	90.58	133.037	5,265.30	-3,293.79	4,131.54	5,267.69	0.00	0.00	0.00
10,700.00	90.58	133.037	5,264.28	-3,362.03	4,204.63	5,367.68	0.00	0.00	0.00
10,800.00	90.58	133.037	5,263.26	-3,430.27	4,277.71	5,467.68	0.00	0.00	0.00
10,900.00	90.58	133.037	5,262.24	-3,498.52	4,350.80	5,567.67	0.00	0.00	0.00
11,000.00	90.58	133.037	5,261.22	-3,566.76	4,423.89	5,667.66	0.00	0.00	0.00
11,100.00	90.58	133.037	5,260.20	-3,635.00	4,496.98	5,767.66	0.00	0.00	0.00
11,200.00	90.58	133.037	5,259.18	-3,703.25	4,570.06	5,867.65	0.00	0.00	0.00
11,300.00	90.58	133.037	5,258.16	-3,771.49	4,643.15	5,967.65	0.00	0.00	0.00
11,316.15	90.58	133.037	5,258.00	-3,782.51	4,654.96	5,983.80	0.00	0.00	0.00
PBHL @ 11316.15 MD 5258.00 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
5,582.47	5,306.69	7" Intermediate Casing	7	8-1/2



Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
835.00	835.00	Ojo Alamo		-0.58	133.040	
963.00	963.00	Kirtland		-0.58	133.040	
1,240.00	1,240.00	Fruitland		-0.58	133.040	
1,585.70	1,583.18	Pictured Cliffs		-0.58	133.040	
1,704.69	1,700.29	Lewis		-0.58	133.040	
1,992.49	1,983.53	Chacra_A		-0.58	133.040	
3,087.76	3,061.46	Cliff House_Basal		-0.58	133.040	
3,118.26	3,091.49	Menefee		-0.58	133.040	
4,079.22	4,039.24	Point Lookout		-0.58	133.040	
4,279.28	4,239.25	Mancos		-0.58	133.040	
4,649.28	4,609.25	MNCS_A		-0.58	133.040	
4,729.28	4,689.25	MNCS_B		-0.58	133.040	
4,832.32	4,792.23	MNCS_C		-0.58	133.040	
4,874.61	4,834.18	MNCS_Cms		-0.58	133.040	
4,996.85	4,951.85	MNCS_D		-0.58	133.040	
5,132.63	5,071.20	MNCS_E		-0.58	133.040	
5,218.59	5,137.65	MNCS_F		-0.58	133.040	
5,332.47	5,211.78	MNCS_G		-0.58	133.040	
5,430.60	5,260.92	MNCS_H		-0.58	133.040	
5,536.54	5,296.91	MNCS_I		-0.58	133.040	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,540.26	1,538.46	29.24	7.66	Begin 10.21° tangent	
3,842.21	3,803.98	423.89	110.99	Begin 3°/100' drop	
4,182.47	4,142.44	453.13	118.65	Begin vertical hold	
4,782.47	4,742.44	453.13	118.65	Begin 10°/100' build	
5,482.47	5,280.84	195.83	394.19	POE @ 5482.47 MD 5280.84 TVD	
5,688.31	5,315.37	58.10	541.68	Begin 90.58° lateral	
11,316.15	5,258.00	-3,782.51	4,654.96	PBHL @ 11316.15 MD 5258.00 TVD	



Planning Report - Geographic

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

Project	San Juan County, New Mexico NAD83 NM W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site		Nageezi Unit (207, 209, 211, 623 & 626)			
Site Position:		Northing:	1,920,927.26 usft	Latitude:	36.27916800
From:	Lat/Long	Easting:	2,748,038.68 usft	Longitude:	-107.74869300
Position Uncertainty:		0.00 ft	Slot Radius:	13-3/16 "	

Well	Nageezi Unit 207H, Surf loc: 492 FSL 403 FWL Section 25-T24N-R09W					
Well Position	+N/-S	0.00 ft	Northing:	1,920,927.26 usft	Latitude:	36.27916800
	+E/-W	0.00 ft	Easting:	2,748,038.68 usft	Longitude:	-107.74869300
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	6,805.00 ft
Grid Convergence:		0.05 °				

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/5/2024	8.53	62.73	49,067.08177215

Design	rev0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	133.040

Plan Survey Tool Program	Date	4/12/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	11,316.15 rev0 (Original Hole)	MWD	
			OWSG MWD - Standard	



Planning Report - Geographic

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,540.26	10.21	14.673	1,538.46	29.24	7.66	3.00	3.00	0.00	14.67	
3,842.21	10.21	14.673	3,803.98	423.89	110.99	0.00	0.00	0.00	0.00	
4,182.47	0.00	0.000	4,142.44	453.13	118.65	3.00	-3.00	0.00	180.00	
4,782.47	0.00	0.000	4,742.44	453.13	118.65	0.00	0.00	0.00	0.00	
5,482.47	70.00	133.040	5,280.84	195.83	394.19	10.00	10.00	0.00	133.04	
5,688.31	90.58	133.037	5,315.37	58.10	541.68	10.00	10.00	0.00	-0.01	
11,316.15	90.58	133.037	5,258.00	-3,782.51	4,654.96	0.00	0.00	0.00	0.00	Nageezi 207H BHL 15



Planning Report - Geographic

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

Planned Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude	
0.00	0.00	0.000	0.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
100.00	0.00	0.000	100.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
200.00	0.00	0.000	200.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
300.00	0.00	0.000	300.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
350.00	0.00	0.000	350.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
9-5/8" Surface Casing										
400.00	0.00	0.000	400.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
500.00	0.00	0.000	500.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
600.00	0.00	0.000	600.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
700.00	0.00	0.000	700.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
800.00	0.00	0.000	800.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
835.00	0.00	0.000	835.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
Ojo Alamo										
900.00	0.00	0.000	900.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
963.00	0.00	0.000	963.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
Kirtland										
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
1,100.00	0.00	0.000	1,100.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
1,200.00	0.00	0.000	1,200.00	0.00	0.00	1,920,927.26	2,748,038.68	36.27916800	-107.74869300	
KOP Begin 3°/100' build										
1,240.00	1.20	14.673	1,240.00	0.41	0.11	1,920,927.67	2,748,038.79	36.27916911	-107.74869264	
Fruitland										
1,300.00	3.00	14.673	1,299.95	2.53	0.66	1,920,929.80	2,748,039.34	36.27917495	-107.74869075	
1,400.00	6.00	14.673	1,399.63	10.12	2.65	1,920,937.39	2,748,041.33	36.27919580	-107.74868398	
1,500.00	9.00	14.673	1,498.77	22.75	5.96	1,920,950.01	2,748,044.64	36.27923047	-107.74867273	
1,540.26	10.21	14.673	1,538.46	29.24	7.66	1,920,956.51	2,748,046.34	36.27924832	-107.74866694	
Begin 10.21° tangent										
1,585.70	10.21	14.673	1,583.18	37.03	9.70	1,920,964.30	2,748,048.38	36.27926971	-107.74865999	
Pictured Cliffs										
1,600.00	10.21	14.673	1,597.26	39.49	10.34	1,920,966.75	2,748,049.02	36.27927645	-107.74865781	
1,700.00	10.21	14.673	1,695.67	56.63	14.83	1,920,983.89	2,748,053.51	36.27932353	-107.74864253	
1,704.69	10.21	14.673	1,700.29	57.43	15.04	1,920,984.70	2,748,053.72	36.27932574	-107.74864181	
Lewis										
1,800.00	10.21	14.673	1,794.09	73.77	19.32	1,921,001.04	2,748,058.00	36.27937061	-107.74862725	
1,900.00	10.21	14.673	1,892.51	90.92	23.81	1,921,018.18	2,748,062.49	36.27941770	-107.74861197	
1,992.49	10.21	14.673	1,983.53	106.77	27.96	1,921,034.04	2,748,066.64	36.27946124	-107.74859783	
Chacra_A										
2,000.00	10.21	14.673	1,990.93	108.06	28.30	1,921,035.33	2,748,066.97	36.27946478	-107.74859668	
2,100.00	10.21	14.673	2,089.34	125.20	32.78	1,921,052.47	2,748,071.46	36.27951187	-107.74858140	
2,200.00	10.21	14.673	2,187.76	142.35	37.27	1,921,069.61	2,748,075.95	36.27955895	-107.74856612	
2,300.00	10.21	14.673	2,286.18	159.49	41.76	1,921,086.76	2,748,080.44	36.27960604	-107.74855084	
2,400.00	10.21	14.673	2,384.59	176.64	46.25	1,921,103.90	2,748,084.93	36.27965312	-107.74853556	
2,500.00	10.21	14.673	2,483.01	193.78	50.74	1,921,121.04	2,748,089.42	36.27970020	-107.74852028	
2,600.00	10.21	14.673	2,581.43	210.92	55.23	1,921,138.19	2,748,093.91	36.27974729	-107.74850500	
2,700.00	10.21	14.673	2,679.85	228.07	59.72	1,921,155.33	2,748,098.40	36.27979437	-107.74848971	
2,800.00	10.21	14.673	2,778.26	245.21	64.21	1,921,172.48	2,748,102.89	36.27984146	-107.74847443	
2,900.00	10.21	14.673	2,876.68	262.36	68.70	1,921,189.62	2,748,107.38	36.27988854	-107.74845915	
3,000.00	10.21	14.673	2,975.10	279.50	73.19	1,921,206.76	2,748,111.86	36.27993562	-107.74844387	
3,087.76	10.21	14.673	3,061.46	294.54	77.12	1,921,221.81	2,748,115.80	36.27997694	-107.74843046	
Cliff House_Basal										
3,100.00	10.21	14.673	3,073.51	296.64	77.67	1,921,223.91	2,748,116.35	36.27998271	-107.74842859	
3,118.26	10.21	14.673	3,091.49	299.77	78.49	1,921,227.04	2,748,117.17	36.27999131	-107.74842580	
Menefee										



Planning Report - Geographic

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,200.00	10.21	14.673	3,171.93	313.79	82.16	1,921,241.05	2,748,120.84	36.28002979	-107.74841331
3,300.00	10.21	14.673	3,270.35	330.93	86.65	1,921,258.19	2,748,125.33	36.28007688	-107.74839803
3,400.00	10.21	14.673	3,368.77	348.07	91.14	1,921,275.34	2,748,129.82	36.28012396	-107.74838274
3,500.00	10.21	14.673	3,467.18	365.22	95.63	1,921,292.48	2,748,134.31	36.28017105	-107.74836746
3,600.00	10.21	14.673	3,565.60	382.36	100.12	1,921,309.63	2,748,138.80	36.28021813	-107.74835218
3,700.00	10.21	14.673	3,664.02	399.51	104.61	1,921,326.77	2,748,143.29	36.28026521	-107.74833690
3,800.00	10.21	14.673	3,762.44	416.65	109.10	1,921,343.91	2,748,147.78	36.28031230	-107.74832162
3,842.21	10.21	14.673	3,803.98	423.89	110.99	1,921,351.15	2,748,149.67	36.28033217	-107.74831517
Begin 3°/100' drop									
3,900.00	8.47	14.673	3,861.00	432.96	113.37	1,921,360.22	2,748,152.05	36.28035709	-107.74830708
4,000.00	5.47	14.673	3,960.25	444.70	116.44	1,921,371.97	2,748,155.12	36.28038935	-107.74829661
4,079.22	3.10	14.673	4,039.24	450.43	117.94	1,921,377.69	2,748,156.62	36.28040508	-107.74829151
Point Lookout									
4,100.00	2.47	14.673	4,060.00	451.41	118.20	1,921,378.67	2,748,156.88	36.28040776	-107.74829063
4,182.47	0.00	0.000	4,142.44	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
Begin vertical hold									
4,200.00	0.00	0.000	4,159.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,279.28	0.00	0.000	4,239.25	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
Mancos									
4,300.00	0.00	0.000	4,259.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,400.00	0.00	0.000	4,359.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,500.00	0.00	0.000	4,459.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,600.00	0.00	0.000	4,559.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,649.28	0.00	0.000	4,609.25	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
MNCS_A									
4,700.00	0.00	0.000	4,659.97	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
4,729.28	0.00	0.000	4,689.25	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
MNCS_B									
4,782.47	0.00	0.000	4,742.44	453.13	118.65	1,921,380.39	2,748,157.33	36.28041249	-107.74828910
Begin 10°/100' build									
4,800.00	1.75	133.040	4,759.97	452.95	118.85	1,921,380.21	2,748,157.52	36.28041199	-107.74828844
4,832.32	4.99	133.040	4,792.23	451.65	120.23	1,921,378.91	2,748,158.91	36.28040842	-107.74828373
MNCS_C									
4,850.00	6.75	133.040	4,809.81	450.42	121.56	1,921,377.68	2,748,160.23	36.28040503	-107.74827925
4,874.61	9.21	133.040	4,834.18	448.08	124.05	1,921,375.35	2,748,162.73	36.28039862	-107.74827078
MNCS_Cms									
4,900.00	11.75	133.040	4,859.15	444.93	127.43	1,921,372.20	2,748,166.11	36.28038995	-107.74825934
4,950.00	16.75	133.040	4,907.59	436.53	136.42	1,921,363.80	2,748,175.10	36.28036685	-107.74822885
4,996.85	21.44	133.040	4,951.85	426.08	147.62	1,921,353.34	2,748,186.30	36.28033810	-107.74819088
MNCS_D									
5,000.00	21.75	133.040	4,954.78	425.28	148.47	1,921,352.55	2,748,187.15	36.28033592	-107.74818801
5,050.00	26.75	133.040	5,000.35	411.27	163.48	1,921,338.53	2,748,202.15	36.28029739	-107.74813714
5,100.00	31.75	133.040	5,043.96	394.60	181.33	1,921,321.86	2,748,220.01	36.28025155	-107.74807662
5,132.63	35.02	133.040	5,071.20	382.35	194.45	1,921,309.61	2,748,233.13	36.28021787	-107.74803214
MNCS_E									
5,150.00	36.75	133.040	5,085.28	375.40	201.89	1,921,302.66	2,748,240.57	36.28019875	-107.74800691
5,200.00	41.75	133.040	5,123.98	353.81	225.01	1,921,281.08	2,748,263.68	36.28013940	-107.74792855
5,218.59	43.61	133.040	5,137.65	345.21	234.22	1,921,272.47	2,748,272.90	36.28011575	-107.74789732
MNCS_F									
5,250.00	46.75	133.040	5,159.79	330.01	250.50	1,921,257.27	2,748,289.18	36.28007394	-107.74784212
5,300.00	51.75	133.040	5,192.41	304.16	278.18	1,921,231.42	2,748,316.85	36.28000288	-107.74774830
5,332.47	55.00	133.040	5,211.78	286.38	297.22	1,921,213.64	2,748,335.90	36.27995398	-107.74768374
MNCS_G									



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 207H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	North Reference:	Grid
Well:	Nageezi Unit 207H	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
5,350.00	56.75	133.040	5,221.61	276.47	307.83	1,921,203.74	2,748,346.50	36.27992675	-107.74764779
5,400.00	61.75	133.040	5,247.17	247.15	339.22	1,921,174.42	2,748,377.90	36.27984613	-107.74754135
5,430.60	64.81	133.040	5,260.92	228.50	359.19	1,921,155.77	2,748,397.87	36.27979485	-107.74747364
MNCS_H									
5,450.00	66.75	133.040	5,268.88	216.43	372.13	1,921,143.69	2,748,410.81	36.27976164	-107.74742980
5,482.47	70.00	133.040	5,280.84	195.83	394.19	1,921,123.09	2,748,432.87	36.27970500	-107.74735502
POE @ 5482.47 MD 5280.84 TVD									
5,500.00	71.75	133.040	5,286.59	184.52	406.29	1,921,111.79	2,748,444.97	36.27967392	-107.74731399
5,536.54	75.41	133.039	5,296.91	160.61	431.90	1,921,087.87	2,748,470.58	36.27960815	-107.74722716
MNCS_I									
5,550.00	76.75	133.039	5,300.15	151.69	441.45	1,921,078.95	2,748,480.13	36.27958363	-107.74719479
5,582.47	80.00	133.038	5,306.69	129.99	464.70	1,921,057.25	2,748,503.37	36.27952396	-107.74711600
7" Intermediate Casing									
5,600.00	81.75	133.038	5,309.47	118.18	477.35	1,921,045.44	2,748,516.02	36.27949148	-107.74707311
5,650.00	86.75	133.037	5,314.48	84.23	513.70	1,921,011.50	2,748,552.37	36.27939815	-107.74694989
5,688.31	90.58	133.037	5,315.37	58.10	541.68	1,920,985.36	2,748,580.36	36.27932629	-107.74685500
Begin 90.58° lateral									
5,700.00	90.58	133.037	5,315.25	50.12	550.23	1,920,977.39	2,748,588.91	36.27930435	-107.74682604
5,800.00	90.58	133.037	5,314.23	-18.12	623.32	1,920,909.14	2,748,661.99	36.27911671	-107.74657828
5,900.00	90.58	133.037	5,313.21	-86.36	696.40	1,920,840.90	2,748,735.08	36.27892906	-107.74633051
6,000.00	90.58	133.037	5,312.19	-154.61	769.49	1,920,772.66	2,748,808.17	36.27874141	-107.74608275
6,100.00	90.58	133.037	5,311.17	-222.85	842.58	1,920,704.42	2,748,881.26	36.27855376	-107.74583499
6,200.00	90.58	133.037	5,310.15	-291.09	915.67	1,920,636.17	2,748,954.34	36.27836611	-107.74558723
6,300.00	90.58	133.037	5,309.13	-359.34	988.76	1,920,567.93	2,749,027.43	36.27817846	-107.74533947
6,400.00	90.58	133.037	5,308.11	-427.58	1,061.84	1,920,499.69	2,749,100.52	36.27799081	-107.74509171
6,500.00	90.58	133.037	5,307.09	-495.82	1,134.93	1,920,431.44	2,749,173.61	36.27780316	-107.74484395
6,600.00	90.58	133.037	5,306.07	-564.06	1,208.02	1,920,363.20	2,749,246.70	36.27761551	-107.74459620
6,700.00	90.58	133.037	5,305.06	-632.31	1,281.11	1,920,294.96	2,749,319.78	36.27742786	-107.74434844
6,800.00	90.58	133.037	5,304.04	-700.55	1,354.20	1,920,226.71	2,749,392.87	36.27724021	-107.74410069
6,900.00	90.58	133.037	5,303.02	-768.79	1,427.28	1,920,158.47	2,749,465.96	36.27705255	-107.74385294
7,000.00	90.58	133.037	5,302.00	-837.04	1,500.37	1,920,090.23	2,749,539.05	36.27686490	-107.74360519
7,100.00	90.58	133.037	5,300.98	-905.28	1,573.46	1,920,021.99	2,749,612.14	36.27667725	-107.74335744
7,200.00	90.58	133.037	5,299.96	-973.52	1,646.55	1,919,953.74	2,749,685.22	36.27648959	-107.74310969
7,300.00	90.58	133.037	5,298.94	-1,041.77	1,719.64	1,919,885.50	2,749,758.31	36.27630194	-107.74286194
7,400.00	90.58	133.037	5,297.92	-1,110.01	1,792.72	1,919,817.26	2,749,831.40	36.27611428	-107.74261419
7,500.00	90.58	133.037	5,296.90	-1,178.25	1,865.81	1,919,749.01	2,749,904.49	36.27592662	-107.74236645
7,600.00	90.58	133.037	5,295.88	-1,246.50	1,938.90	1,919,680.77	2,749,977.57	36.27573897	-107.74211870
7,700.00	90.58	133.037	5,294.86	-1,314.74	2,011.99	1,919,612.53	2,750,050.66	36.27555131	-107.74187096
7,800.00	90.58	133.037	5,293.84	-1,382.98	2,085.07	1,919,544.29	2,750,123.75	36.27536365	-107.74162322
7,900.00	90.58	133.037	5,292.82	-1,451.22	2,158.16	1,919,476.04	2,750,196.84	36.27517600	-107.74137548
8,000.00	90.58	133.037	5,291.80	-1,519.47	2,231.25	1,919,407.80	2,750,269.93	36.27498834	-107.74112774
8,100.00	90.58	133.037	5,290.78	-1,587.71	2,304.34	1,919,339.56	2,750,343.01	36.27480068	-107.74088000
8,200.00	90.58	133.037	5,289.76	-1,655.95	2,377.43	1,919,271.31	2,750,416.10	36.27461302	-107.74063226
8,300.00	90.58	133.037	5,288.75	-1,724.20	2,450.51	1,919,203.07	2,750,489.19	36.27442536	-107.74038453
8,400.00	90.58	133.037	5,287.73	-1,792.44	2,523.60	1,919,134.83	2,750,562.28	36.27423770	-107.74013679
8,500.00	90.58	133.037	5,286.71	-1,860.68	2,596.69	1,919,066.59	2,750,635.36	36.27405004	-107.73988906
8,600.00	90.58	133.037	5,285.69	-1,928.93	2,669.78	1,918,998.34	2,750,708.45	36.27386237	-107.73964133
8,700.00	90.58	133.037	5,284.67	-1,997.17	2,742.87	1,918,930.10	2,750,781.54	36.27367471	-107.73939360
8,800.00	90.58	133.037	5,283.65	-2,065.41	2,815.95	1,918,861.86	2,750,854.63	36.27348705	-107.73914587
8,900.00	90.58	133.037	5,282.63	-2,133.66	2,889.04	1,918,793.61	2,750,927.72	36.27329939	-107.73889814
9,000.00	90.58	133.037	5,281.61	-2,201.90	2,962.13	1,918,725.37	2,751,000.80	36.27311172	-107.73865041
9,100.00	90.58	133.037	5,280.59	-2,270.14	3,035.22	1,918,657.13	2,751,073.89	36.27292406	-107.73840269
9,200.00	90.58	133.037	5,279.57	-2,338.38	3,108.31	1,918,588.88	2,751,146.98	36.27273639	-107.73815496
9,300.00	90.58	133.037	5,278.55	-2,406.63	3,181.39	1,918,520.64	2,751,220.07	36.27254873	-107.73790724



Planning Report - Geographic

Database:	DT_Mar1724_v17	Local Co-ordinate Reference:	Well Nageezi Unit 207H
Company:	Enduring Resources LLC	TVD Reference:	RKB=6805+25 @ 6830.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6805+25 @ 6830.00ft
Site:	Nageezi Unit (207, 209, 211, 623 & 626)	North Reference:	Grid
Well:	Nageezi Unit 207H	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	
9,400.00	90.58	133.037	5,277.53	-2,474.87	3,254.48	1,918,452.40	2,751,293.15	36.27236106	-107.73765951	
9,500.00	90.58	133.037	5,276.51	-2,543.11	3,327.57	1,918,384.16	2,751,366.24	36.27217339	-107.73741179	
9,600.00	90.58	133.037	5,275.49	-2,611.36	3,400.66	1,918,315.91	2,751,439.33	36.27198573	-107.73716407	
9,700.00	90.58	133.037	5,274.47	-2,679.60	3,473.75	1,918,247.67	2,751,512.42	36.27179806	-107.73691635	
9,800.00	90.58	133.037	5,273.46	-2,747.84	3,546.83	1,918,179.43	2,751,585.51	36.27161039	-107.73666864	
9,900.00	90.58	133.037	5,272.44	-2,816.09	3,619.92	1,918,111.18	2,751,658.59	36.27142272	-107.73642092	
10,000.00	90.58	133.037	5,271.42	-2,884.33	3,693.01	1,918,042.94	2,751,731.68	36.27123506	-107.73617320	
10,100.00	90.58	133.037	5,270.40	-2,952.57	3,766.10	1,917,974.70	2,751,804.77	36.27104739	-107.73592549	
10,200.00	90.58	133.037	5,269.38	-3,020.81	3,839.19	1,917,906.46	2,751,877.86	36.27085972	-107.73567778	
10,300.00	90.58	133.037	5,268.36	-3,089.06	3,912.27	1,917,838.21	2,751,950.94	36.27067205	-107.73543006	
10,400.00	90.58	133.037	5,267.34	-3,157.30	3,985.36	1,917,769.97	2,752,024.03	36.27048437	-107.73518235	
10,500.00	90.58	133.037	5,266.32	-3,225.54	4,058.45	1,917,701.73	2,752,097.12	36.27029670	-107.73493464	
10,600.00	90.58	133.037	5,265.30	-3,293.79	4,131.54	1,917,633.48	2,752,170.21	36.27010903	-107.73468694	
10,700.00	90.58	133.037	5,264.28	-3,362.03	4,204.63	1,917,565.24	2,752,243.30	36.26992136	-107.73443923	
10,800.00	90.58	133.037	5,263.26	-3,430.27	4,277.71	1,917,497.00	2,752,316.38	36.26973368	-107.73419152	
10,900.00	90.58	133.037	5,262.24	-3,498.52	4,350.80	1,917,428.76	2,752,389.47	36.26954601	-107.73394382	
11,000.00	90.58	133.037	5,261.22	-3,566.76	4,423.89	1,917,360.51	2,752,462.56	36.26935834	-107.73369611	
11,100.00	90.58	133.037	5,260.20	-3,635.00	4,496.98	1,917,292.27	2,752,535.65	36.26917066	-107.73344841	
11,200.00	90.58	133.037	5,259.18	-3,703.25	4,570.06	1,917,224.03	2,752,608.73	36.26898299	-107.73320071	
11,300.00	90.58	133.037	5,258.16	-3,771.49	4,643.15	1,917,155.78	2,752,681.82	36.26879531	-107.73295301	
11,316.15	90.58	133.037	5,258.00	-3,782.51	4,654.96	1,917,144.76	2,752,693.63	36.26876500	-107.73291300	
PBHL @ 11316.15 MD 5258.00 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 207H BHL 190° - plan hits target center - Point	0.00	0.000	5,258.00	-3,782.51	4,654.96	1,917,144.76	2,752,693.63	36.26876500	-107.73291300	
Nageezi 207H PPP/POE - plan misses target center by 34.51ft at 5494.46ft MD (5284.83 TVD, 188.11 N, 402.45 E) - Point	0.00	0.000	5,317.43	195.83	394.19	1,921,123.09	2,748,432.87	36.27970500	-107.74735500	
Nageezi 207H 0 VS - plan misses target center by 101.74ft at 5368.61ft MD (5231.56 TVD, 265.74 N, 319.32 E) - Point	0.00	0.000	5,319.00	301.24	281.30	1,921,228.50	2,748,319.98	36.27999484	-107.74773771	

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
5,582.47	5,306.69	7" Intermediate Casing		7	8-1/2



Planning Report - Geographic

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
835.00	835.00	Ojo Alamo		-0.58	133.040	
963.00	963.00	Kirtland		-0.58	133.040	
1,240.00	1,240.00	Fruitland		-0.58	133.040	
1,585.70	1,583.18	Pictured Cliffs		-0.58	133.040	
1,704.69	1,700.29	Lewis		-0.58	133.040	
1,992.49	1,983.53	Chacra_A		-0.58	133.040	
3,087.76	3,061.46	Cliff House_Basal		-0.58	133.040	
3,118.26	3,091.49	Menefee		-0.58	133.040	
4,079.22	4,039.24	Point Lookout		-0.58	133.040	
4,279.28	4,239.25	Mancos		-0.58	133.040	
4,649.28	4,609.25	MNCS_A		-0.58	133.040	
4,729.28	4,689.25	MNCS_B		-0.58	133.040	
4,832.32	4,792.23	MNCS_C		-0.58	133.040	
4,874.61	4,834.18	MNCS_Cms		-0.58	133.040	
4,996.85	4,951.85	MNCS_D		-0.58	133.040	
5,132.63	5,071.20	MNCS_E		-0.58	133.040	
5,218.59	5,137.65	MNCS_F		-0.58	133.040	
5,332.47	5,211.78	MNCS_G		-0.58	133.040	
5,430.60	5,260.92	MNCS_H		-0.58	133.040	
5,536.54	5,296.91	MNCS_I		-0.58	133.040	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.00	1,200.00	0.00	0.00	KOP Begin 3°/100' build	
1,540.26	1,538.46	29.24	7.66	Begin 10.21° tangent	
3,842.21	3,803.98	423.89	110.99	Begin 3°/100' drop	
4,182.47	4,142.44	453.13	118.65	Begin vertical hold	
4,782.47	4,742.44	453.13	118.65	Begin 10°/100' build	
5,482.47	5,280.84	195.83	394.19	POE @ 5482.47 MD 5280.84 TVD	
5,688.31	5,315.37	58.10	541.68	Begin 90.58° lateral	
11,316.15	5,258.00	-3,782.51	4,654.96	PBHL @ 11316.15 MD 5258.00 TVD	

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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 370741

CONDITIONS

Operator: DJR OPERATING, LLC 200 Energy Court Farmington, NM 87401	OGRID: 371838
	Action Number: 370741
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required.	8/22/2024