

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

Sundry Print Reports
01/29/2024

Well Name: BETONNIE TSOSIE Well Location: T23N / R8W / SEC 28 / County or Parish/State:

WASH UNIT SENE /

Well Number: 401H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMNM50999 Unit or CA Name: Unit or CA Number:

NMNM135219A

US Well Number: 3004538330 Well Status: Approved Application for Operator: DJR OPERATING LLC

Permit to Drill

Notice of Intent

Sundry ID: 2771978

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/25/2024 Time Sundry Submitted: 03:38

Date proposed operation will begin: 01/25/2024

Procedure Description: Original APD approved on 11/7/2023. The subject well is located in DJR's undivided Betonnie Tsosie Wash Unit. Original plans were to drill a 7040-ft lateral. DJR is seeking approval to extend the lateral to 7448-ft adjusting the BHL & reducing the dedicated acres from 480 to 360. Attached please find updated C102, revised drilling plan with new casing/cement assumptions, revised directional designs, offset well location map, and proposed wellbore diagram. 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 all other property interests will continue to be held in their current entity names.

NOI Attachments

Procedure Description

BTWU_401H_Drilling_Package__BLM_Submittal_Rev1_20240126091643.pdf

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eived by OCD: 1/29/2024 9:17:16 AM Well Name: BETONNIE TSOSIE

WASH UNIT

Well Location: T23N / R8W / SEC 28 / SENE /

County or Parish/State:

Page 2 of

Well Number: 401H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM50999

Unit or CA Name:

Unit or CA Number: NMNM135219A

US Well Number: 3004538330

Well Status: Approved Application for

Permit to Drill

Operator: DJR OPERATING LLC

Operator

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

Signed on: JAN 26, 2024 09:29 AM Operator Electronic Signature: SHAW-MARIE FORD

Name: DJR OPERATING LLC Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC State: NM

Phone: (505) 632-3476

Email address: SFORD@DJRLLC.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Phone: 5055647742

BLM POC Name: KENNETH G RENNICK

Disposition: Approved

Signature: Kenneth Rennick

BLM POC Title: Petroleum Engineer

BLM POC Email Address: krennick@blm.gov

Disposition Date: 01/26/2024

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DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102 Revised August 1, 2011

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code				
30-045-383	30	98175 BETONNIE TSOSIE WASH UNIT MAN				COS OIL POOL
⁴ Property Code		⁵ Pro	⁶ Well Number			
325179		BETONNIE TS	401H			
OGRID No.		⁶ Operator Name				⁹ Elevation
371838		DJR OP	ERATING, LLC			6864'

¹⁰ Surface Location

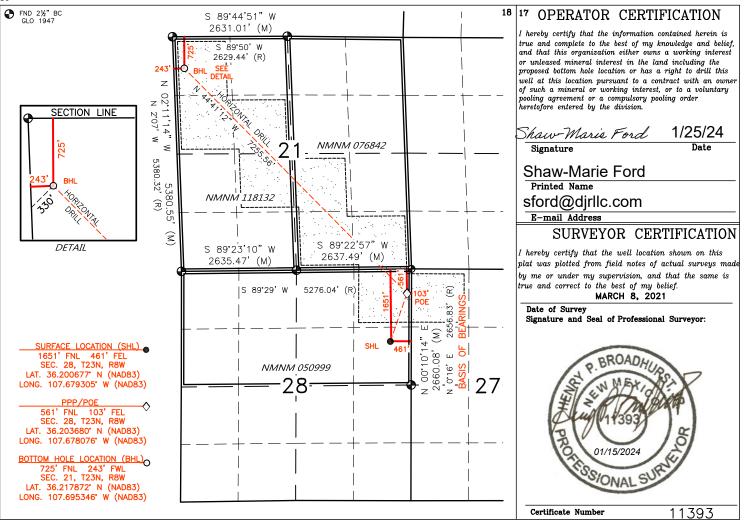
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	28	23N	8W		1651'	NORTH	461'	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	23N	8W		725'	NORTH	243'	WEST	SAN JUAN
12 Dedicated Acre		ATED SPACING		13 Joint or In	fill 14 Consolidatio	n Code	15 Order No.		
SEC 27: NW/NW SEC 21: SE/SE, SW/NW & NW/NV	ŚW/SE, ŃW/	/SE, NE/SŴ,	SE/NW,				R-13930	R-13930A	

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



WELL FLAG

LATITUDE: 36.200677° N LONGITUDE: 107.679305° W DATUM: NAD83

DJR OPERATING, LLC

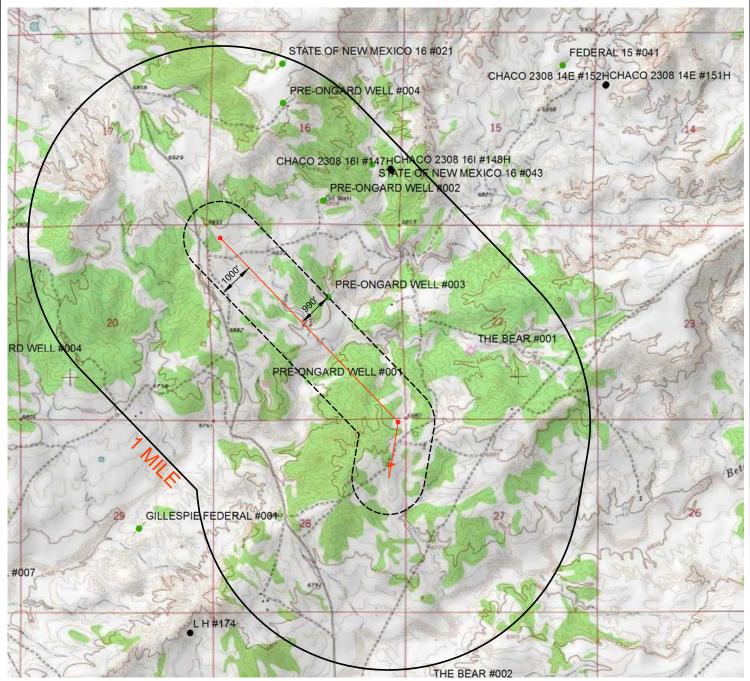
BETONNIE TSOSIE WASH UNIT #401H

1651' FNL & 461' FEL LOCATED IN THE SE/4 NE/4 OF SECTION 28, T23N, R8W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

WELL LOCATION MAP

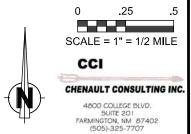
WELL LEGEND

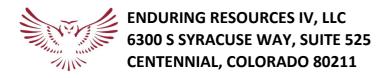
- # GAS
- **ABANDONED GAS**
- ✓ INJECTION
- OIL
- ABANDONED OIL
- ✓ SALT WATER INJECTION
- ↓ ABANDONED SALT WATER INJ



DATE: 03/22/21 DRAWN BY: GRR







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

WELL INFORMATION:

Name: BETONNIE TSOSIE WASH UNIT 401H

API Number: 30-045-38330 State: New Mexico County: San Juan

Surface Elevation: 6,864 ft ASL (GL) 6,889 ft ASL (KB)

Surface Location: 28-23N-08W Sec-Twn-Rng 1,651 ft FNL 461 ft FEL

36.200677 ° N latitude 107.679305 ° W longitude (NAD 83) **BH Location:** 21-23N-08W Sec-Twn-Rng 725 ft FNL 243 ft FWL

36.217872 $^{\circ}$ N latitude 107.695346 $^{\circ}$ 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 39.0 miles to MM 112.7, Right (Southwest) on CR #7900 / IR #7061 for 3.3 miles to 4-way, Left (East) leaving CR #7900 for 0.6 miles to new access road; Right into to Betonnie Tsosie Wash Unit H28 PAD (from

West to East: BTWU 402H, 401H and 732H wells).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:

Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
Ojo Alamo	6,225	664	664	W	normal
Kirtland	6,140	749	749	W	normal
Fruitland	5,945	944	944	G, W	sub
Pictured Cliffs	5,580	1,309	1,310	G, W	sub
Lewis	5,470	1,419	1,422	G, W	normal
Chacra	5,230	1,659	1,673	G, W	normal
Cliff House	4,136	2,753	2,856	G, W	sub
Menefee	4,095	2,794	2,873	G, W	normal
Point Lookout	3,161	3,728	3,906	G, W	normal
Mancos	2,986	3,903	4,086	O,G	sub (~0.38)
Gallup (MNCS_A)	2,671	4,218	4,403	O,G	sub (~0.38)
MNCS_B	2,574	4,315	4,500	O,G	sub (~0.38)
MNCS_C	2,481	4,408	4,593	O,G	sub (~0.38)
MNCS_Cms	2,436	4,453	4,639	O,G	sub (~0.38)
MNCS_D	2,310	4,579	4,770	O,G	sub (~0.38)
MNCS_E	2,185	4,704	4,916	O,G	sub (~0.38)
MNCS_F	2,134	4,755	4,983	O,G	sub (~0.38)
MNCS_G	2,056	4,833	5,106	O,G	sub (~0.38)
MNCS_H	2,002	4,887	5,213	O,G	sub (~0.38)
MNCS_I	1,954	4,935	5,341	O,G	sub (~0.38)
FTP TARGET	1,967	4,922	5,300	O,G	sub (~0.38)
PROJECTED TD	1,862	5,027	12,748	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/ftEvacuated hole gradient:0.22 psi/ftMaximum anticipated BH pressure, assuming maximum pressure gradient:2,170 psiMaximum anticipated surface pressure, assuming partially evacuated hole:1,070 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: Aztec Rig No.: 1000

Draw Works: E80 AC 1,500 hp

Mast: Hyduke Triple (136 ft, 600,000 lbs, 10 lines)

Top Drive: NOV IDS-350PE (350 ton)

Prime Movers: 4 - GE Jenbacher Natural Gas Generator

Pumps: 2 - RS F-1600 (7,500 psi)

BOPE 1: Cameron single & double gate rams (11", 3,000 psi)

BOPE 2: Cameron annular (11", 3,000 psi)

Choke 3", 5,000 psi

KB-GL (ft): 25

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

BOPE REQUIREMENTS:

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

FLUIDS AND SOLIDS CONTROL PROGRAM:

Fluid Measurement:

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

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

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

Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage

products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or

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

DETAILED DRILLING PLAN:

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

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

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

FL ΥP Fluid: MW (ppg) (mL/30 min) PV (cp) (lb/100 sqft) Comments Type рΗ Fresh Water N/C 2 - 8 2 - 12 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

MU Torque (ft lbs):

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	9.625	36.0	K-55	STC	2,020	3,520	564,000	423,000
Loading					153	1,059	110,988	110,988
Min. S.F.					13.21	3.32	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
Minumum: N/A Optimum: N/A Maximum: N/A

Make-up as per API Buttress Connection running procedure.

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

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

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

Csg ID

8.921

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

350 ft (MD)	to	5,400 ft (MD)	Hole Section Length:	5,050 ft
350 ft (TVD)	to	4,948 ft (TVD)	Casing Required:	5,400 ft

			FL		YP		
Fluid:	Type	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Comments
	LSND (KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	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.

							Tens. Body	Tens. Conn
Casing Specs:		Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	7	26.0	K-55	LTC	4,320	4,980	415,000	367,000
Loading					2,161	1,353	222,436	222,436
Min. S.F.					2.00	3.68	1.87	1.65

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

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

hole and 8.4 ppg equivalent external pressure gradient

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

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

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Lead	III:POZ Blend	12.5	2.140	12.05	70%	0	462	988
Tail	Type III	14.6	1.380	6.64	20%	3,986	192	265

Annular Capacity

0.16681 cuft/ft 7" casing x 9-5/8" casing annulus
0.1503 cuft/ft 9-5/8" casing x 12-1/4" hole annulus

Shoe Track L 44 Casing ID 6.276

0.2148 cuft/ft 7" casing casing volume

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

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

5,400	ft (MD)	to	12,748	ft (MD)	Hole S	ection Length:	7,348 ft
4,948 ft (TVD) to		5,027	ft (TVD)	Casing Required:		7,498 ft	
		Estimated KOP:	4,538	ft (MD)	4,353	ft (TVD)	
Estimated Liner Top:		mated Liner Top:	5,250	ft (MD)	4,903	ft (TVD)	
Es	timated Lar	nding Point (FTP):	5,300	ft (MD)	4,922	ft (TVD)	
Estimated Lateral Length:			7,448	ft (MD)			
	4,948	Estimated Lar	4,948 ft (TVD) to Estimated KOP: Estimated Liner Top: Estimated Landing Point (FTP):	4,948 ft (TVD) to 5,027 Estimated KOP: 4,538 Estimated Liner Top: 5,250 Estimated Landing Point (FTP): 5,300	4,948 ft (TVD) to 5,027 ft (TVD) Estimated KOP: 4,538 ft (MD) Estimated Liner Top: 5,250 ft (MD) Estimated Landing Point (FTP): 5,300 ft (MD)	4,948 ft (TVD) to 5,027 ft (TVD) Car Estimated KOP: 4,538 ft (MD) 4,353 Estimated Liner Top: 5,250 ft (MD) 4,903 Estimated Landing Point (FTP): 5,300 ft (MD) 4,922	4,948 ft (TVD) to 5,027 ft (TVD) Casing Required: Estimated KOP: 4,538 ft (MD) 4,353 ft (TVD) Estimated Liner Top: 5,250 ft (MD) 4,903 ft (TVD) Estimated Landing Point (FTP): 5,300 ft (MD) 4,922 ft (TVD)

Fluid:	Туре	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	рН	Comments	Comments
								OBM as
	WBM	8.7 - 9.0	NC	+20	±2	9-9.5	prod water	contingency

Hole Size: 6.125

Bit / Motor: 6-1/8" PDC bit w/mud motor

MWD / Survey: MWD with GR, inclination, and azimuth (survey every joint from KOP to Landing Point and survey every 100'

minimum before KOP and after Landing Point)

Logging: GR MWD for entire section, no mud-log or cuttings sampling, no OH WL logs

Pressure Test: NU BOPE and test (as noted above); pressure test 9-5/8" casing to 1,500 psi for 30 minutes.

							Tens. Body	Tens. Conn
Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	(lbs)	(lbs)
Specs	4.500	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,483	8,788	227,604	227,604
Min. S.F.					3.04	1.22	1.61	1.69

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

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

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

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

			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Type	Weight (ppg)	(cuft/sk)	(gal/sk)	% Excess	(ft MD)	(sx)	ft)
Spacer	IntegraGuard Star	11		31.6		0	60 bbls	
Tail	G:POZ blend	13.3	1.560	7.70	30%	5,250	620	967

Displacement 169 est bbls

Annular Capacity 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 vol 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

				IntegraGuard Star				
	S-8 Silica Flour	Avis 616 viscosifier	FP24 Defoamer .5	Plus 3K LCM 15	SS201 Surfactant 1			
Spacer	163.7 lbs/bbl	11.6 lb/bbl	lb/bbl	lb/bbl	gal/bbl			
			Bentonite		IntegraGuard		FP24 Defoamer	
		BA90 Bonding	Viscosifier 8%	FL24 Fluid Loss .5%	GW86 Viscosifier	R7C Retarder .2%	0.3% BWOB, Anti-	
Lead	ASTM Type I/II	Agent 5.0 lb/sx	BWOB	BWOB	.1% BWOB	BWOB	Static .01 lb/sx	
								FP24 Defoamer
				Bentonite		IntegraGuard		.3% BWOB,
		Pozzolan Fly Ash	BA90 Bonding	Viscosifier 4%	FL24 Fluid Loss .4%	GW86 Viscosifier	R3 Retarder .5%	IntegraSeal 0.25
Tail	Type G 50%	Extender 50%	Agent 3.0 lb/sx	BWOB	BWOB	.1% BWOB	BWOB	lb/sx

FINISH WELL: ND BOP, cap well, RDMO.

COMPLETION AND PRODUCTION PLAN:

Est Lateral Length: 7,348

Est Frac Inform: 31 Frac Stages 118,000 bbls slick water 9,560,000 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: 2/16/2024 **Completion:** 4/16/2024 **Production:** 5/31/2024

Prepared by: Greg Olson 1/25/2024

Updated:



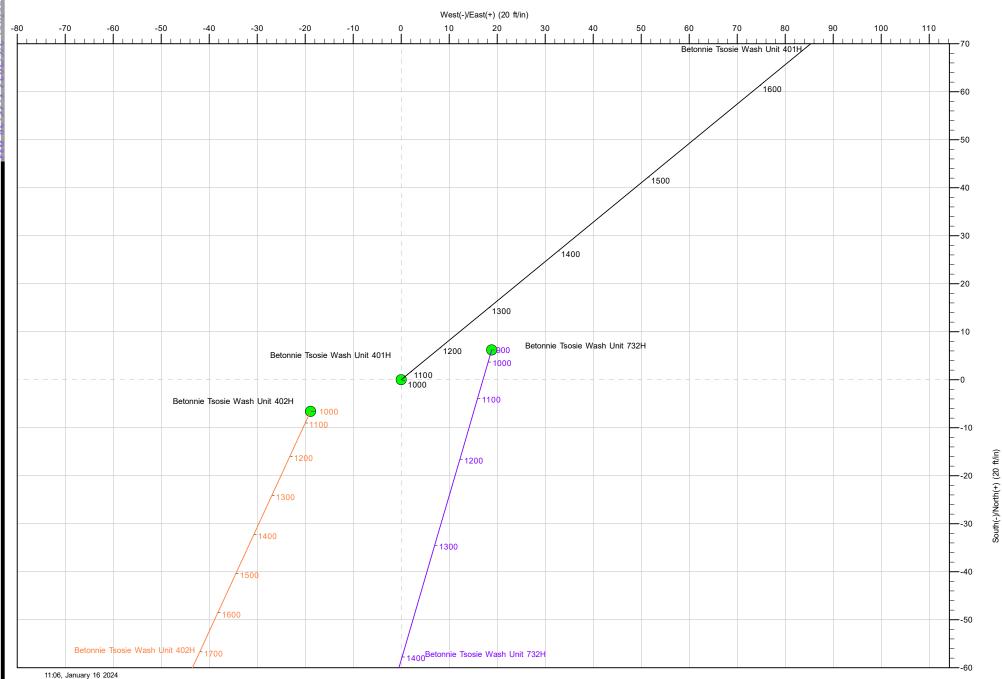
Well: Betonnie Tsosie Wash Unit 401H

Site: Betonnie Tsosie Wash Unit (401, 402 & 732) Project: San Juan County, New Mexico NAD83 NM W

Design: rev0

Rig:







Project:

Site:

Site

Planning Report

TVD Reference:

MD Reference:

North Reference:

DT_Aug2923v16 Database:

Enduring Resources LLC Company:

> San Juan County, New Mexico NAD83 NM W Betonnie Tsosie Wash Unit (401, 402 & 732)

Betonnie Tsosie Wash Unit 401H Well:

Wellbore: Original Hole rev0 Design:

Local Co-ordinate Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Minimum Curvature

San Juan County, New Mexico NAD83 NM W **Project**

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

New Mexico Western Zone

Mean Sea Level System Datum:

Northing: 1,892,379.964 usft Site Position: 36.200677000 Latitude: From: Lat/Long Easting: 2,768,535.614 usft -107.679305000 Longitude:

Position Uncertainty: 0.00 ft Slot Radius: 13-3/16 "

Betonnie Tsosie Wash Unit (401, 402 & 732)

Well Betonnie Tsosie Wash Unit 401H, Surf loc: 1651 FNL 461 FEL Section 28-T23N-R08W

Well Position +N/-S 0.00 ft Northing: 1,892,379.964 usft Latitude: 36.200677000 +E/-W 0.00 ft Easting: 2,768,535.614 usft Longitude: -107.679305000

0.00 ft Wellhead Elevation: ft 6,864.00 ft **Position Uncertainty** Ground Level:

0.09° **Grid Convergence:**

Wellbore Original Hole

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 1/15/2024 8.49 62.68 49,036.24345105

Design rev0 Audit Notes: Version: PLAN Tie On Depth: 0.00 Phase: Depth From (TVD) Vertical Section: +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 315.313

Plan Survey Tool Program 1/16/2024 Depth From Depth To (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 12,748.45 rev0 (Original Hole) MWD OWSG MWD - Standard



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference:

North Reference: Survey Calculation Method: Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

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	
1,747.58	22.43	50.632	1,728.63	91.63	111.67	3.00	3.00	0.00	50.63	
3,690.45	22.43	50.632	3,524.56	561.79	684.71	0.00	0.00	0.00	0.00	
4,438.03	0.00	0.000	4,253.19	653.42	796.38	3.00	-3.00	0.00	180.00	
4,538.03	0.00	0.000	4,353.19	653.42	796.38	0.00	0.00	0.00	0.00	Betonnie Tsosie 401F
5,138.03	60.00	315.313	4,849.39	857.09	594.92	10.00	10.00	0.00	315.31	
5,198.03	60.00	315.313	4,879.39	894.04	558.38	0.00	0.00	0.00	0.00	
5,492.43	89.44	315.313	4,956.12	1,093.73	360.85	10.00	10.00	0.00	0.00	
12,748.47	89.44	315.313	5,027.00	6,252.23	-4,741.59	0.00	0.00	0.00	0.00	Betonnie Tsosie 401F



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
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
900.00	0.00	0.000	900.00	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
1,100.00	3.00	50.632	1,099.95	1.66	2.02	-0.24	3.00	3.00	0.00
		50.632	,	6.64	8.09	-0.24	3.00	3.00	
1,200.00	6.00		1,199.63						0.00
1,300.00	9.00	50.632	1,298.77	14.91	18.18	-2.18	3.00	3.00	0.00
1,400.00	12.00	50.632	1,397.08	26.47	32.26	-3.87	3.00	3.00	0.00
1,500.00	15.00	50.632	1,494.31	41.28	50.31	-6.03	3.00	3.00	0.00
1,600.00	18.00	50.632	1,590.18	59.29	72.26	-8.66	3.00	3.00	0.00
1,700.00	21.00	50.632	1,684.43	80.46	98.07	-11.76	3.00	3.00	0.00
1,747.58	22.43	50.632	1,728.63	91.63	111.67	-13.39	3.00	3.00	0.00
1,800.00	22.43	50.632	1,777.09	104.31	127.14	-15.39	0.00	0.00	0.00
1,900.00	22.43	50.632	1,869.53	128.51	156.63	-18.78	0.00	0.00	0.00
2,000.00	22.43	50.632	1,961.96	152.71	186.12	-22.32	0.00	0.00	0.00
2,100.00	22.43	50.632	2,054.40	176.91	215.62	-25.85	0.00	0.00	0.00
2,200.00	22.43	50.632	2,146.84	201.11	245.11	-29.39	0.00	0.00	0.00
2,300.00	22.43	50.632	2,239.27	225.31	274.61	-32.93	0.00	0.00	0.00
2,400.00	22.43	50.632	2,331.71	249.51	304.10	-36.46	0.00	0.00	0.00
,			,						
2,500.00	22.43	50.632	2,424.15	273.71	333.59	-40.00	0.00	0.00	0.00
2,600.00	22.43	50.632	2,516.58	297.91	363.09	-43.53	0.00	0.00	0.00
2,700.00	22.43	50.632	2,609.02	322.11	392.58	-47.07	0.00	0.00	0.00
2,800.00	22.43	50.632	2,701.45	346.31	422.08	-50.61	0.00	0.00	0.00
2,900.00	22.43	50.632	2,793.89	370.51	451.57	-54.14	0.00	0.00	0.00
3,000.00	22.43	50.632	2,886.33	394.71	481.06	-57.68	0.00	0.00	0.00
3,100.00	22.43	50.632	2,978.76	418.91	510.56	-61.22	0.00	0.00	0.00
3,200.00	22.43	50.632	3,071.20	443.11	540.05	-64.75	0.00	0.00	0.00
3,300.00	22.43	50.632	3,163.64	467.31	569.55	-68.29	0.00	0.00	0.00
3,400.00	22.43	50.632	3,256.07	491.50	599.04	-71.82	0.00	0.00	0.00
3,500.00	22.43	50.632	3,348.51	515.70	628.53	-75.36	0.00	0.00	0.00
3,600.00	22.43	50.632	3,440.95	539.90	658.03	-78.90	0.00	0.00	0.00
3,690.45	22.43	50.632	3,524.56	561.79	684.71	-82.10	0.00	0.00	0.00
3,700.00	22.14	50.632	3,533.39	564.09	687.50	-82.43	3.00	-3.00	0.00
3,800.00	19.14	50.632	3,626.96	586.45	714.75	-85.70	3.00	-3.00	0.00
3,900.00	16.14	50.632	3,722.25	605.67	738.18	-88.51	3.00	-3.00	0.00
4,000.00	13.14	50.632	3,818.99	621.70	757.72	-90.85	3.00	-3.00	0.00
4,100.00	10.14	50.632	3,916.92	634.49	773.31	-92.72	3.00	-3.00	0.00
4,200.00	7.14	50.632	4,015.78	644.02	784.93	-94.11	3.00	-3.00	0.00
4,300.00	4.14	50.632	4,115.28	650.26	792.53	-95.02	3.00	-3.00	0.00
4,400.00	1.14	50.632	4,215.16	653.18	792.53	-95.02 -95.45			0.00
							3.00	-3.00	
4,438.03	0.00	0.000	4,253.19	653.42	796.38	-95.49	3.00	-3.00	0.00
4,500.00	0.00	0.000	4,315.16	653.42	796.38	-95.49	0.00	0.00	0.00
4,538.03	0.00	0.000	4,353.19	653.42	796.38	-95.49	0.00	0.00	0.00
4,550.00	1.20	315.313	4,365.16	653.51	796.29	-95.36	10.00	10.00	0.00
4,600.00	6.20	315.313	4,415.04	655.80	794.03	-92.14	10.00	10.00	0.00
4,650.00	11.20	315.313	4,464.45	661.17	788.71	-84.58	10.00	10.00	0.00



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Measured Depth (ft) 4,700.00 4,750.00 4,800.00 4,850.00	Inclination (°) 16.20 21.20	Azimuth (°)	Vertical Depth	+N/-S		Vertical	Dogleg	Build	Turn
4,750.00 4,800.00			(ft)	(ft)	+E/-W (ft)	Section (ft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
4,750.00 4,800.00		315.313	4,513.01	669.59	780.39	-72.74	10.00	10.00	0.00
,		315.313	4,560.36	680.98	769.12	-56.72	10.00	10.00	0.00
,	26.20	315.313	4,606.13	695.26	754.99	-36.63	10.00	10.00	0.00
	31.20	315.313	4,649.97	712.33	738.11	-12.63	10.00	10.00	0.00
4,900.00	36.20	315.313	4,691.56	732.04	718.61	15.10	10.00	10.00	0.00
4,950.00	41.20	315.313	4,730.57	754.26	696.64	46.35	10.00	10.00	0.00
5,000.00	46.20	315.313	4,766.71	778.81	672.35	80.88	10.00	10.00	0.00
5,050.00	51.20	315.313	4,799.70	805.51	645.95	118.43	10.00	10.00	0.00
5,100.00	56.20	315.313	4,829.29	834.15	617.62	158.71	10.00	10.00	0.00
5,138.03	60.00	315.313	4,849.39	857.09	594.92	190.99	10.00	10.00	0.00
5,198.03	60.00	315.313	4,879.39	894.04	558.38	242.95	0.00	0.00	0.00
5,200.00	60.20	315.313	4,880.37	895.25	557.18	244.66	10.00	10.00	0.00
5,250.00	65.20	315.313	4,903.30	926.83	525.94	289.08	10.00	10.00	0.00
5,300.00	70.20	315.313	4,922.26	959.71	493.42	335.32	10.00	10.00	0.00
5,350.00	75.20	315.313	4,937.13	993.64	459.86	383.04	10.00	10.00	0.00
5,400.00	80.20	315.313	4,947.78	1,028.36	425.52	431.88	10.00	10.00	0.00
5,450.00	85.20	315.313	4,954.14	1,063.60	390.65	481.46	10.00	10.00	0.00
5,492.43	89.44	315.313	4.956.12	1,093.73	360.85	523.84	10.00	10.00	0.00
5,500.00	89.44	315.313	4,956.19	1,099.11	355.53	531.40	0.00	0.00	0.00
5,600.00	89.44	315.313	4,957.17	1,170.20	285.21	631.40	0.00	0.00	0.00
5,700.00	89.44	315.313	4,958.15	1,241.30	214.89	731.39	0.00	0.00	0.00
5,800.00	89.44	315.313	4,959.12	1,312.39	144.57	831.39	0.00	0.00	0.00
			,						
5,900.00	89.44	315.313	4,960.10	1,383.48	74.25	931.38	0.00	0.00	0.00
6,000.00	89.44	315.313	4,961.08 4,962.06	1,454.57	3.93 -66.39	1,031.38	0.00	0.00 0.00	0.00
6,100.00 6,200.00	89.44 89.44	315.313 315.313	4,962.06	1,525.67 1,596.76	-136.71	1,131.37 1,231.37	0.00 0.00	0.00	0.00 0.00
6,300.00	89.44	315.313	4,964.01	1,667.85	-207.03	1,331.36	0.00	0.00	0.00
6,400.00	89.44	315.313	4,964.99	1,738.94	-277.35	1,431.36	0.00	0.00	0.00
6,500.00	89.44	315.313	4,965.96	1,810.04	-347.67	1,531.36	0.00	0.00	0.00
6,600.00	89.44	315.313	4,966.94	1,881.13	-417.99	1,631.35	0.00	0.00	0.00
6,700.00	89.44	315.313	4,967.92	1,952.22	-488.31	1,731.35	0.00	0.00	0.00
6,800.00	89.44	315.313	4,968.89	2,023.31	-558.63	1,831.34	0.00	0.00	0.00
6,900.00	89.44	315.313	4,969.87	2,094.41	-628.95	1,931.34	0.00	0.00	0.00
7,000.00	89.44	315.313	4,970.85	2,165.50	-699.27	2,031.33	0.00	0.00	0.00
7,100.00	89.44	315.313	4,971.82	2,236.59	-769.59	2,131.33	0.00	0.00	0.00
7,200.00	89.44	315.313	4,972.80	2,307.68	-839.91	2,231.32	0.00	0.00	0.00
7,300.00	89.44	315.313	4,973.78	2,378.78	-910.23	2,331.32	0.00	0.00	0.00
7,400.00	89.44	315.313	4,974.75	2,449.87	-980.55	2,431.31	0.00	0.00	0.00
7,500.00	89.44	315.313	4,975.73	2,520.96	-1,050.87	2,531.31	0.00	0.00	0.00
7,600.00	89.44	315.313	4,976.71	2,592.05	-1,121.19	2,631.30	0.00	0.00	0.00
7,700.00	89.44	315.313	4,977.68	2,663.15	-1,191.51	2,731.30	0.00	0.00	0.00
7,800.00	89.44	315.313	4,978.66	2,734.24	-1,261.83	2,831.29	0.00	0.00	0.00
7,900.00	89.44	315.313	4,979.64	2,805.33	-1,332.15	2,931.29	0.00	0.00	0.00
8,000.00	89.44	315.313	4,980.62	2,876.42	-1,402.47	3,031.28	0.00	0.00	0.00
8,100.00	89.44	315.313	4,981.59	2,947.52	-1,472.79	3,131.28	0.00	0.00	0.00
8,200.00	89.44	315.313	4,982.57	3,018.61	-1,543.11	3,231.27	0.00	0.00	0.00
8,300.00	89.44	315.313	4,983.55	3,089.70	-1,613.43	3,331.27	0.00	0.00	0.00
8,400.00	89.44	315.313	4,984.52	3,160.79	-1,683.75	3,431.26	0.00	0.00	0.00
8,500.00	89.44	315.313	4,985.50	3,231.89	-1,754.07	3,531.26	0.00	0.00	0.00
8,600.00	89.44	315.313	4,986.48	3,302.98	-1,824.39	3,631.26	0.00	0.00	0.00
8,700.00	89.44	315.313	4,987.45	3,374.07	-1,894.71	3,731.25	0.00	0.00	0.00
8,800.00	89.44	315.313	4,988.43	3,445.16	-1,965.03	3,831.25	0.00	0.00	0.00
8,900.00	89.44	315.313	4,989.41	3,516.26	-2,035.35	3,931.24	0.00	0.00	0.00



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Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

anned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,000.00	89.44	315.313	4,990.38	3,587.35	-2,105.67	4,031.24	0.00	0.00	0.00
9,100.00	89.44	315.313	4,991.36	3,658.44	-2,175.99	4,131.23	0.00	0.00	0.00
9,200.00	89.44	315.313	4,992.34	3,729.53	-2,246.31	4,231.23	0.00	0.00	0.00
9,300.00	89.44	315.313	4,993.31	3,800.63	-2,316.63	4,331.22	0.00	0.00	0.00
9,400.00	89.44	315.313	4,994.29	3,871.72	-2,386.95	4,431.22	0.00	0.00	0.00
9,500.00	89.44	315.313	4,995.27	3,942.81	-2,457.27	4,531.21	0.00	0.00	0.00
9,600.00	89.44	315.313	4,996.24	4,013.90	-2,527.59	4,631.21	0.00	0.00	0.00
9,700.00	89.44	315.313	4,997.22	4,085.00	-2,597.91	4,731.20	0.00	0.00	0.00
9,800.00	89.44	315.313	4,998.20	4,156.09	-2,668.23	4,831.20	0.00	0.00	0.00
9,900.00	89.44	315.313	4,999.18	4,227.18	-2,738.55	4,931.19	0.00	0.00	0.00
10,000.00	89.44	315.313	5,000.15	4,298.27	-2,808.87	5,031.19	0.00	0.00	0.00
10,100.00	89.44	315.313	5,001.13	4,369.37	-2,879.19	5,131.18	0.00	0.00	0.00
10,200.00	89.44	315.313	5,002.11	4,440.46	-2,949.51	5,231.18	0.00	0.00	0.00
10,300.00	89.44	315.313	5,003.08	4,511.55	-3,019.83	5,331.17	0.00	0.00	0.00
10,400.00	89.44	315.313	5,004.06	4,582.64	-3,090.15	5,431.17	0.00	0.00	0.00
10,500.00	89.44	315.313	5,005.04	4,653.74	-3,160.47	5,531.16	0.00	0.00	0.00
10,600.00	89.44	315.313	5,006.01	4,724.83	-3,230.79	5,631.16	0.00	0.00	0.00
10,700.00	89.44	315.313	5,006.99	4,795.92	-3,301.11	5,731.15	0.00	0.00	0.00
10,800.00	89.44	315.313	5,007.97	4,867.01	-3,371.43	5,831.15	0.00	0.00	0.00
10,900.00	89.44	315.313	5,008.94	4,938.11	-3,441.75	5,931.15	0.00	0.00	0.00
11,000.00	89.44	315.313	5,009.92	5,009.20	-3,512.07	6,031.14	0.00	0.00	0.00
11,100.00	89.44	315.313	5,010.90	5,080.29	-3,582.39	6,131.14	0.00	0.00	0.00
11,200.00	89.44	315.313	5,011.87	5,151.38	-3,652.71	6,231.13	0.00	0.00	0.00
11,300.00	89.44	315.313	5,012.85	5,222.47	-3,723.03	6,331.13	0.00	0.00	0.00
11,400.00	89.44	315.313	5,013.83	5,293.57	-3,793.35	6,431.12	0.00	0.00	0.00
11,500.00	89.44	315.313	5,014.80	5,364.66	-3,863.67	6,531.12	0.00	0.00	0.00
11,600.00	89.44	315.313	5,015.78	5,435.75	-3,933.99	6,631.11	0.00	0.00	0.00
11,700.00	89.44	315.313	5,016.76	5,506.84	-4,004.31	6,731.11	0.00	0.00	0.00
11,800.00	89.44	315.313	5,017.74	5,577.94	-4,074.63	6,831.10	0.00	0.00	0.00
11,900.00	89.44	315.313	5,018.71	5,649.03	-4,144.95	6,931.10	0.00	0.00	0.00
12,000.00	89.44	315.313	5,019.69	5,720.12	-4,215.27	7,031.09	0.00	0.00	0.00
12,100.00	89.44	315.313	5,020.67	5,791.21	-4,285.59	7,131.09	0.00	0.00	0.00
12,200.00	89.44	315.313	5,021.64	5,862.31	-4,355.91	7,231.08	0.00	0.00	0.00
12,300.00	89.44	315.313	5,022.62	5,933.40	-4,426.23	7,331.08	0.00	0.00	0.00
12,400.00	89.44	315.313	5,023.60	6,004.49	-4,496.55	7,431.07	0.00	0.00	0.00
12,500.00	89.44	315.313	5,024.57	6,075.58	-4,566.87	7,531.07	0.00	0.00	0.00
12,600.00	89.44	315.313	5,025.55	6,146.68	-4,637.19	7,631.06	0.00	0.00	0.00
12,700.00	89.44	315.313	5,026.53	6,217.77	-4,707.51	7,731.06	0.00	0.00	0.00
12,748.47	89.44	315.313	5,027.00	6,252.23	-4,741.59	7,779.52	0.00	0.00	0.00



TVD Reference:

MD Reference:

North Reference:

Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

Survey Calculation Method:

erence: Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Betonnie Tsosie 401H ve - plan hits target cent - Point	0.00 ter	0.000	4,353.19	653.42	796.38	1,893,033.382	2,769,331.993	36.202468497	-107.676602175
Betonnie Tsosie 401H V - plan misses target - Point	0.00 center by 192	0.000 .14ft at 5050	4,951.00 .00ft MD (47	721.30 99.70 TVD, 8	729.23 05.51 N, 645.9	1,893,101.262 95 E)	2,769,264.844	36.202655267	-107.676829407
Betonnie Tsosie 401H F - plan hits target cent - Point	0.00 ter	0.000	4,956.12	1,093.73	360.85	1,893,473.695	2,768,896.465	36.203680000	-107.678076000
Betonnie Tsosie 401H B - plan hits target cent - Point	0.00 ter	0.000	5,027.00	6,252.23	-4,741.59	1,898,632.176	2,763,794.029	36.217872000	-107.695346000

Casing Points							
	Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
	350.00 3,035.35		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	664.00	664.00	Ojo Alamo		0.56	315.313
	749.00	749.00	Kirtland		0.56	315.313
	944.00	944.00	Fruitland		0.56	315.313
	1,310.34	1,308.98	Pictured Cliffs		0.56	315.313
	1,422.39	1,418.96	Lewis		0.56	315.313
	1,672.72	1,658.89	Chacra_A		0.56	315.313
	2,856.29	2,753.49	Cliff House_Basal		0.56	315.313
	2,872.51	2,768.48	Menefee		0.56	315.313
	3,906.12	3,728.13	Point Lookout		0.56	315.313
	4,085.95	3,903.10	Mancos		0.56	315.313
	4,402.91	4,218.07	MNCS_A		0.56	315.313
	4,499.91	4,315.07	MNCS_B		0.56	315.313
	4,593.02	4,408.09	MNCS_C		0.56	315.313
	4,638.51	4,453.15	MNCS_Cms		0.56	315.313
	4,769.61	4,578.52	MNCS_D		0.56	315.313
	4,915.88	4,704.24	MNCS_E		0.56	315.313
	4,982.88	4,754.67	MNCS_F		0.56	315.313
	5,105.99	4,832.60	MNCS_G		0.56	315.313
	5,212.58	4,886.50	MNCS_H		0.56	315.313
	5,340.60	4,934.66	MNCS_I		0.56	315.313



TVD Reference:

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Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,747.58	1,728.63	91.63	111.67	Begin 22.43° tangent
3,690.45	3,524.56	561.79	684.71	Begin 3°/100' drop
4,438.03	4,253.19	653.42	796.38	Begin vertical hold
4,538.03	4,353.19	653.42	796.38	Begin 10°/100' build
5,138.03	4,849.39	857.09	594.92	Begin 60.00° tangent
5,198.03	4,879.39	894.04	558.38	Begin 10°/100' build
5,492.43	4,956.12	1,093.73	360.85	Begin 89.44° lateral
12.748.47	5.027.00	6.252.23	-4.741.59	PBHL @ 12748.47 MD 5027.00 TVD



Well:

Map Zone:

Planning Report - Geographic

TVD Reference:

MD Reference:

North Reference:

DT_Aug2923v16 Database:

Enduring Resources LLC Company:

San Juan County, New Mexico NAD83 NM W

Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Site: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole

rev0 Design:

Local Co-ordinate Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Minimum Curvature

Project San Juan County, New Mexico NAD83 NM W

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

System Datum:

Mean Sea Level

Betonnie Tsosie Wash Unit (401, 402 & 732) Site

Site Position: Northing: 1,892,379.964 usft Latitude: 36.200677000 From: Lat/Long Easting: 2,768,535.614 usft Longitude: -107.679305000

Position Uncertainty: 0.00 ft Slot Radius: 13-3/16 "

Well Betonnie Tsosie Wash Unit 401H, Surf loc: 1651 FNL 461 FEL Section 28-T23N-R08W

Well Position +N/-S 0.00 ft Northing: 1,892,379.964 usft 36.200677000 Latitude:

+E/-W 0.00 ft 2,768,535.614 usft Longitude: -107.679305000 Easting: **Position Uncertainty** 0.00 ft Wellhead Elevation: ft Ground Level: 6,864.00 ft

0.09 **Grid Convergence:**

Original Hole Wellbore

Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2020 8.49 62.68 49,036.24345105 1/15/2024

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

(ft) (ft) (ft) (°) 0.00 0.00 0.00 315.313

1/16/2024 **Plan Survey Tool Program** Date

Depth From Depth To

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

0.00 12,748.45 rev0 (Original Hole) MWD

OWSG MWD - Standard



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

lan 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	
1,747.58	22.43	50.632	1,728.63	91.63	111.67	3.00	3.00	0.00	50.63	
3,690.45	22.43	50.632	3,524.56	561.79	684.71	0.00	0.00	0.00	0.00	
4,438.03	0.00	0.000	4,253.19	653.42	796.38	3.00	-3.00	0.00	180.00	
4,538.03	0.00	0.000	4,353.19	653.42	796.38	0.00	0.00	0.00	0.00	Betonnie Tsosie 401H
5,138.03	60.00	315.313	4,849.39	857.09	594.92	10.00	10.00	0.00	315.31	
5,198.03	60.00	315.313	4,879.39	894.04	558.38	0.00	0.00	0.00	0.00	
5,492.43	89.44	315.313	4,956.12	1,093.73	360.85	10.00	10.00	0.00	0.00	
12,748.47	89.44	315.313	5,027.00	6,252.23	-4,741.59	0.00	0.00	0.00	0.00	Betonnie Tsosie 401H



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

732) **TVD Reference:** RKB=6864+25 @ 6889.00ft

MD Reference: RKB=6
North Reference: Grid

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft

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	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
100.00		0.000	100.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
200.00		0.000	200.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
300.00		0.000	300.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
400.00		0.000	400.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
500.00		0.000	500.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
600.00		0.000	600.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
700.00	0.00	0.000	700.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
800.00	0.00	0.000	800.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
900.00	0.00	0.000	900.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,892,379.964	2,768,535.614	36.200677000	-107.679305000
1,100.00	3.00	50.632	1,099.95	1.66	2.02	1,892,381.624	2,768,537.637	36.200681552	-107.679298133
1,200.00	6.00	50.632	1,199.63	6.64	8.09	1,892,386.600	2,768,543.702	36.200695195	-107.679277550
1,300.00	9.00	50.632	1,298.77	14.91	18.18	1,892,394.878	2,768,553.792	36.200717893	-107.679243308
1,400.00	12.00	50.632	1,397.08	26.47	32.26	1,892,406.436	2,768,567.879	36.200749582	-107.679195500
1,500.00	15.00	50.632	1,494.31	41.28	50.31	1,892,421.242	2,768,585.925	36.200790176	-107.679134258
1,600.00	18.00	50.632	1,590.18	59.29	72.26	1,892,439.255	2,768,607.879	36.200839564	-107.679059749
1,700.00	21.00	50.632	1,684.43	80.46	98.07	1,892,460.426	2,768,633.682	36.200897610	-107.678972178
1,747.58	22.43	50.632	1,728.63	91.63	111.67	1,892,471.591	2,768,647.289	36.200928221	-107.678925997
1,800.00	22.43	50.632	1,777.09	104.31	127.14	1,892,484.277	2,768,662.751	36.200963003	-107.678873523
1,900.00	22.43	50.632	1,869.53	128.51	156.63	1,892,508.476	2,768,692.245	36.201029352	-107.678773425
2,000.00	22.43	50.632	1,961.96	152.71	186.12	1,892,532.676	2,768,721.739	36.201095701	-107.678673327
2,100.00	22.43	50.632	2,054.40	176.91	215.62	1,892,556.875	2,768,751.233	36.201162050	-107.678573229
2,200.00	22.43	50.632	2,146.84	201.11	245.11	1,892,581.075	2,768,780.727	36.201228398	-107.678473131
2,300.00	22.43	50.632	2,239.27	225.31	274.61	1,892,605.274	2,768,810.220	36.201294747	-107.678373032
2,400.00	22.43	50.632	2,331.71	249.51	304.10	1,892,629.473	2,768,839.714	36.201361095	-107.678272934
2,500.00	22.43	50.632	2,424.15	273.71	333.59	1,892,653.673	2,768,869.208	36.201427444	-107.678172835
2,600.00		50.632	2,516.58	297.91	363.09	1,892,677.872	2,768,898.702	36.201493792	-107.678072736
2,700.00		50.632	2,609.02	322.11	392.58	1,892,702.071	2,768,928.196	36.201560140	-107.677972637
2,800.00		50.632	2,701.45	346.31	422.08	1,892,726.271	2,768,957.690	36.201626488	-107.677872538
2,900.00		50.632	2,793.89	370.51	451.57	1,892,750.470	2,768,987.184	36.201692836	-107.677772438
3,000.00		50.632	2,886.33	394.71	481.06	1,892,774.670	2,769,016.678	36.201759184	-107.677672339
3,100.00		50.632	2,978.76	418.91	510.56	1,892,798.869	2,769,046.172	36.201825532	-107.677572239
3,200.00		50.632	3,071.20	443.11	540.05	1,892,823.068	2,769,075.665	36.201891880	-107.677472139
3,300.00		50.632	3,163.64	467.31	569.55	1,892,847.268	2,769,105.159	36.201958228	-107.677372039
3,400.00		50.632	3,256.07	491.50	599.04	1,892,871.467	2,769,134.653	36.202024575	-107.677271939
3,500.00		50.632	3,348.51	515.70	628.53	1,892,895.666	2,769,164.147	36.202090923	-107.677171838
3,600.00		50.632	3,440.95	539.90	658.03	1,892,919.866	2,769,193.641	36.202157270	-107.677071738
3,690.45		50.632	3,524.56	561.79	684.71	1,892,941.755	2,769,220.319	36.202217284	-107.676981193
3,700.00		50.632	3,533.39	564.09	687.50	1,892,944.051	2,769,223.118	36.202223579	-107.676971695
3,800.00		50.632	3,626.96	586.45	714.75	1,892,966.408	2,769,250.367	36.202284876	-107.676879214
3,900.00		50.632	3,722.25	605.67	738.18	1,892,985.629	2,769,273.792	36.202337572	-107.676799709
4,000.00		50.632	3,818.99	621.70	757.72	1,893,001.660	2,769,293.330	36.202381524	-107.676733397
4,100.00		50.632	3,916.92	634.49	773.31	1,893,014.457	2,769,308.928	36.202416610	-107.676680460
4,200.00		50.632	4,015.78	644.02	784.93	1,893,023.986	2,769,320.541	36.202442735	-107.676641044
4,300.00		50.632	4,115.28	650.26	792.53	1,893,030.220	2,769,328.139	36.202459827	-107.676615257
4,400.00		50.632	4,215.16	653.18	796.09	1,893,033.142	2,769,331.701	36.202467839	-107.676603169
4,438.03		0.000	4,253.19	653.42	796.38	1,893,033.382	2,769,331.993	36.202468497	-107.676602175
4,500.00		0.000	4,315.16	653.42	796.38	1,893,033.382	2,769,331.993	36.202468497	-107.676602175
4,538.03		0.000	4,353.19	653.42	796.38	1,893,033.382	2,769,331.993	36.202468497	-107.676602175
4,550.00		315.313	4,365.16	653.51	796.29	1,893,033.471	2,769,331.905	36.202468742	-107.676602473
4,600.00		315.313	4,415.04	655.80	794.03	1,893,035.763	2,769,329.639	36.202475047	-107.676610143
4,650.00		315.313	4,464.45	661.17	788.71	1,893,041.136	2,769,324.324	36.202489831	-107.676628129
4,700.00	16.20	315.313	4,513.01	669.59	780.39	1,893,049.551	2,769,316.001	36.202512984	-107.676656294



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Measured Cept Inclination Cept Cep										
Popth	Planned Survey									
4,800.00	Depth			Depth			Northing	Easting	Latitude	Longitude
4,800.00	4,750.00	21.20	315.313	4,560.36	680.98	769.12	1,893,060.942	2,769,304.733	36.202544328	-107.676694424
4,890.00 31.20 315.313 4,849.97 712.33 738.11 1,893.092.288 2,769.273.277 38.202639576 1-107.6799345 4,980.00 31.20 315.313 4,730.57 754.26 695.64 1,893.12.004 2,769.245.250 38.202745955 1-107.679639573 4,980.00 41.20 315.313 4,730.57 754.26 695.64 1,893.154.222 2,769.23.250 38.202745955 1-107.679639703 5,000.00 51.20 315.313 4,799.70 805.51 64.595 1,893.185.72 2,769.207.966 38.202245956 1-107.679703185 5,100.00 56.20 315.313 4,799.70 805.51 64.595 1,893.185.74 2,769.185.233 38.202869686 1-107.677711235 5,100.00 56.20 315.313 4,840.39 857.09 594.92 1,893.234.07 2,769.183.233 38.202969576 1-107.677737939 5,100.00 56.20 315.313 4,840.39 857.09 594.92 1,893.237.067 2,769.19.03.29 38.202130967 1-107.677737939 5,200.00 65.20 315.313 4,890.37 895.25 557.18 1,893.273.09 2,769.00.2790 36.203130587 1-07.677471625 5,250.00 65.20 315.313 4,890.37 895.25 557.18 1,893.273.09 2,769.00.2790 36.203130588 1-107.677471625 5,250.00 65.20 315.313 4,890.37 895.25 557.84 1,893.273.69 2,769.00.39 13 36.203130588 1-107.677471625 5,250.00 65.20 315.313 4,922.26 956.71 493.42 1,893.393.69 2,769.00.20 35 36.203120577 2,767.7778739 5,300.00 75.20 315.313 4,927.73 19.05.64 459.86 1,393.33.597 2,769.00.35 36.203120577 3,767.7778739 5,300.00 75.20 315.313 4,947.78 1,028.56 425.52 1,893.408.318 2,769.00.25 36.20312055 1-107.677757390 5,450.00 85.20 315.313 4,947.78 1,028.56 425.52 1,893.408.318 2,769.00.25 36.20310591 1-107.677757305 5,450.00 85.20 315.313 4,956.12 1,008.73 300.85 1,883.473.69 2,769.80.46 38.203507119 1-107.677757305 5,500.00 85.40 315.313 4,956.12 1,008.73 300.85 1,883.473.69 2,769.80.46 38.203507119 1-107.677757305 5,500.00 88.44 315.313 4,956.12 1,008.73 300.85 1,883.473.69 2,768.80.86 38.203690409 1-107.677757505 5,500.00 88.44 315.313 4,956.15 1,008.73 300.85 1,883.473.69 2,768.80.80 38.203690409 1-107.67757505 5,500.00 88.44 315.313 4,956.81 1,008.73 300.85 1,883.473.69 2,768.80.80 38.203690409 1-107.67757505 5,500.00 88.44 315.313 4,956.81 1,008.73 300.85 1,008.40.25 1,768.80.80 38.203690409 1-107.67757505 5,500.00 88.										
4.990.00 36.20 315.313 4,691.56 732.04 718.61 1.883,112.004 2.769,232.260 38.2027469424 -107.676896337 5.000.00 46.20 315.313 4,766.71 778.81 672.35 1.898,184.272 2.769,207.966 38.202745955 1.070.77711235 5.000.00 56.20 315.313 4,799.70 805.51 645.95 1.898,318.54.68 2.769,207.966 38.202815954 -107.677712056 5.138.03 60.00 315.313 4.899.29 834.15 617.62 1.898.214.107 2.769,130.532 33.002096756 -107.6777207096 5.138.03 60.00 315.313 4.890.37 895.25 55.71.81 1.898.272.71999 2.769,030.3991 38.203130647 -107.677720706 5.200.00 65.20 315.313 4.890.37 895.25 55.71.81 1.893.275.213 2.769,002.209 38.2031305647 -107.6777407588 5.300.00 75.20 315.313 4.890.37 495.22 1.893.37.879 7.768,002.209 38.2031305647 -107.677747175829										
5,000.00 46.20 315.313 4,766.71 778.81 672.35 1,893.186.472 2,769.916.50 32.022818964 -107.677011878 5,000.00 51.20 315.313 4,899.99 80.516.18 1,893.186.48 2,769.181.53 36.202886898 -107.67720798 5,138.03 60.00 315.313 4,899.99 89.40 1,893.214.107 2,769.133.53 36.202886898 -107.67720798 5,200.00 60.20 315.313 4,899.39 894.04 1,893.274.09 2,769.003.991 36.203819367 -107.677207988 5,200.00 65.20 315.313 4,893.78 89.25 557.18 1,893.275.291 2,769.002.09 38.203219327 -107.67747588 5,200.00 70.20 315.313 4,893.31 993.64 459.88 1,883.373.6689 2,769.002.035 36.203211235 -107.677740647 5,000.00 80.20 315.313 4,897.78 1,028.36 4,255.21 1,883.373.6689 2,768.086.475 36.203311235 -107.677740647 5,000.00 80.20 315.313 4,891.41 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-107.676865337</td></t<>										-107.676865337
5,000.00 51.20 315.313 4,799.70 805.51 645.95 1,803.185.408 2,769,181.560 32.022886758 -107.677207208 5,138.03 60.00 315.313 4,849.39 857.09 569.492 1,803.237.057 2,769.130.532 32.02086756 -107.677207388 5,200.00 60.20 315.313 4,890.39 894.04 588.38 1,803.237.057 2,769.033.93 32.030286276 -107.67724736788 5,200.00 60.20 315.313 4,800.37 895.25 557.18 1,803.273.090 2,769.002.09 32.033133888 -107.677411832 5,250.00 65.20 315.313 4,892.26 959.71 439.42 1,803.306.791 2,769.002.09 32.033133888 -107.67767743947 5,500.00 70.20 315.313 4,971.78 1,023.30 28.28 35.75.99 2,769.002.00 32.03313325 32.03000772 -107.6776741322 32.033133425 32.002.0079789 -107.67767749747 32.002.002.00 32.002.002.00 32.002.002.002.002 32.002.002.002.002.002.002.002.002.002.0	4,950.00	41.20	315.313	4,730.57	754.26	696.64	1,893,134.222	2,769,232.250	36.202745955	-107.676939703
5,100.00 56,20 315,313 4,829.29 834,15 617.62 1,893,271.07 2,798,153.233 38,202965769 -107.677207098 5,138.03 60.00 315,313 4,876,39 884.04 558,38 1,893,277.097 2,798,103.233 38,20310647 -107.677207098 5,200.00 65.20 315,313 4,808,37 895,25 557.81 1,893,277.62 2,789,002.799 32,00130647 -107.677407588 5,300.00 70.20 315,313 4,903,30 92,883 55,594 1,893,308,791 2,789,001,559 36,20320772 -107.677517320 5,300.00 75.20 315,313 4,937,13 993,64 459,88 1,893,375,877 2,788,995,475 36,203404857 -107.6777697389 5,450.00 85,20 315,313 4,984,14 1,003,80 39,65 1,893,443,566 2,768,296,267 36,203597103 -107.677975151 5,490.00 85,24 315,313 4,986,12 1,003,73 300,85 1,883,4413,564 2,768,296,267 36,203597103 -107.677975151 <tr< td=""><td>5,000.00</td><td>46.20</td><td>315.313</td><td>4,766.71</td><td>778.81</td><td>672.35</td><td>1,893,158.772</td><td>2,769,207.966</td><td>36.202813504</td><td>-107.677021878</td></tr<>	5,000.00	46.20	315.313	4,766.71	778.81	672.35	1,893,158.772	2,769,207.966	36.202813504	-107.677021878
5.188.03 60.00 315.313 4,949.39 857.09 594.92 1,893.237.067 2,769.130.532 88.203028902 -107.677283913 5.189.337.99 2,769.039.279 38.20313047 -107.677407588 5.200.00 65.20 315.313 4,980.37 885.25 557.18 1,893.275.213 2,769.092.79 38.203133888 -107.677417589 5.300.00 70.20 315.313 4,922.26 959.71 493.42 1,893.339.699 2,769.039.03 38.203311235 -107.6776737328 5.300.00 70.20 315.313 4,922.26 959.71 493.42 1,893.339.699 2,769.039.03 38.203311235 -107.6776737328 5.300.00 75.20 315.313 4,927.78 1,028.36 455.82 1,893.403.318 2,768.991.132 26.20414587 1.07.677875135 5.400.00 80.20 315.313 4,987.78 1,028.36 425.52 1,893.403.318 2,768.991.132 26.20414587 1.07.6778751155 5.492.43 89.44 315.313 4,986.12 1,093.17 390.85 1,893.443.560 2,768.926.267 36.203987109 -107.67787915151 5.492.43 89.44 315.313 4,986.12 1,093.17 355.53 1,893.476.04 2,768.891.46 36.203987400 -107.678094005 5.500.00 89.44 315.313 4,986.12 1,093.13 34.956.19 1,099.11 3.555.33 1,893.478.04 2,768.891.46 36.20398400 -107.678094005 5.500.00 89.44 315.313 4,986.12 1,321.39 14.67 1,893.5501.68 2.768.691.86 36.20498004 -107.678094005 5.500.00 89.44 315.313 4,986.12 1,331.39 14.67 1,893.5501.891.20 1,200.20	5,050.00	51.20	315.313	4,799.70	805.51	645.95	1,893,185.468	2,769,181.560	36.202886958	-107.677111235
5.180.03 60.00 315.313 4.878.39 884.04 558.38 1.893.273.99 2.769.093.991 38.2031.0047 -107.677407582 5.250.00 65.20 315.313 4.903.30 928.83 5.25.94 1.893.378.213 2.769.092.93 36.2031.0325 -107.677740782 5.350.00 70.20 315.313 4.993.13 993.64 489.42 1.893.373.597 2.768.096.1568 36.20320772 -107.6777407827380 5.350.00 76.20 315.313 4.997.78 1.028.36 4.958.21 1.898.339.689 2.768.096.1568 36.203311235 -107.6777409847 5.450.00 86.20 315.313 4.9947.78 1.028.36 300.55 1.898.4476364 2.768.966.167 36.203500119 -107.6777975151 5.500.00 89.44 315.313 4.956.12 1.093.73 300.55 1.898.479.694 2.768.806.466 36.20369099 1.0767975996 5.600.00 89.44 315.313 4.956.19 1.091.13 35.53 1.898.479.1494 2.768.806.066 36.203690900 -107.6795999791	5,100.00	56.20	315.313	4,829.29	834.15	617.62	1,893,214.107	2,769,153.233	36.202965756	-107.677207096
5,200.00 60,20 315,313 4,880,37 895,25 557,18 1,883,275,213 2,769,092,700 36,203133888 -107,677411632 5,200.00 70,20 315,313 4,922,26 959,71 493,42 1,883,339,669 2,768,095,475 36,20311235 -107,677627380 5,300.00 70,20 315,313 4,927,78 1,023,36 425,52 1,883,473,587 36,209,935 36,20311235 -107,6777740947 5,400.00 85,20 315,313 4,954,14 1,063,60 390,65 1,883,473,566 2,768,996,267 36,203500199 -107,67787716947 5,492,43 89,44 315,313 4,966,12 1,093,73 360,85 1,893,473,566 2,768,992,267 36,203697993 -107,6787979151 5,600.00 89,44 315,313 4,966,12 1,099,11 355,53 1,893,479,074 2,768,991,145 36,203694900 -107,678904905 5,800.00 89,44 315,313 4,986,12 1,170,20 225,1 1,893,561 2,768,595,50 36,20468601 -107,678969939 -10	5,138.03	60.00	315.313	4,849.39	857.09	594.92	1,893,237.057	2,769,130.532	36.203028902	-107.677283913
5,250.00 65,20 315,313 4,903.30 926.83 525.94 1,803,306.791 2,769,061.556 36,203220772 -107,677517329 5,350.00 75,20 315,313 4,937.13 993.64 459.86 1,803,375.597 2,768,995,475 36,203404587 -107,677740947 5,450.00 85,20 315,313 4,937.13 993.64 459.86 1,803,375.597 2,768,996.132 36,203404587 -107,677757151 5,450.00 85,20 315,313 4,954.14 1,063.80 390.65 1,883,478.584 2,768,986.132 36,203507113 -107,6778757151 5,500.00 89.44 315,313 4,956.12 1,093.73 300.85 1,883,478.584 2,768,896.267 36,203507193 -107,678094050 5,600.00 89.44 315,313 4,957.17 1,170.20 285.21 1,893,505.166 2,768,890.262 36,203509103 -107,678094050 5,600.00 89.44 315,313 4,957.17 1,170.20 285.21 1,893,505.166 2,768,890.262 36,203509103 -107,6789694090 5,600.00 89.44 315	5,198.03	60.00	315.313	4,879.39			1,893,273.999	2,769,093.991	36.203130547	-107.677407568
5,300.00 70 20 315,313 4,922.26 999.71 493.42 1,893,336.669 2,769,029.035 36,20311235 -107,677267360 5,400.00 80.20 315,313 4,947.78 1,028.36 425.52 1,893,408.318 2,768,961.132 36,203500119 -107,6777857165 5,492.43 89.44 315,313 4,966.12 1,993,73 300.85 1,893,475.664 2,768,982.267 36,203507119 -107,677857165 5,600.00 89.44 315,313 4,966.12 1,993,717 1,702.02 285.21 1,893,461.564 2,768,896.466 36,203664900 -107,678690999 5,500.00 89.44 315,313 4,966.19 1,099.11 355.53 1,893,870.074 2,768,759.505 36,203689400 -107,678690991 5,800.00 89.44 315,313 4,961.10 1,333,48 74,25 1,893,561.25 2,768,759.505 36,204686011 -107,678698999 5,900.00 89.44 315,313 4,961.00 1,383,48 74,25 1,893,561.25 2,768,599.545 36,204686011 -107	5,200.00	60.20	315.313	4,880.37	895.25		1,893,275.213	2,769,092.790	36.203133888	-107.677411632
5,300,00 75,20 315,313 4,937,13 993,84 499,86 1,893,373,597 2,768,995,475 38,203404587 -107,677780481 5,400,00 85,20 315,313 4,947,78 1,008,36 425,52 1,893,443,566 2,768,986,267 36,203597103 -107,677857165 5,400,00 89,44 315,313 4,956,12 1,093,73 360,85 1,893,473,694 2,768,986,266 36,203597103 -107,678075998 5,500,00 89,44 315,313 4,957,17 1,170,20 2,85,21 1,893,550,166 2,768,820,825 36,203594900 -107,678094005 5,500,00 89,44 315,313 4,951,17 1,170,20 2,85,21 1,893,550,166 2,768,820,825 36,203894006 -107,678339971 5,500,00 89,44 315,313 4,951,11 1,112,30 14,457 1,893,550,166 2,768,800,185 36,204281616 -107,678905982 5,500,00 89,44 315,313 4,961,08 1,335,48 74,25 1,893,463,552 2,768,800,185 36,20486161 -107,678905926	5,250.00	65.20	315.313	4,903.30			1,893,306.791	2,769,061.556	36.203220772	-107.677517329
5,400.00 80,20 315,313 4,947.78 1,028.36 425.52 1,803,408.318 2,768,961.132 38,203500119 -107,677857165 5,492.43 89,44 315,313 4,956.12 1,093.73 360.85 1,893,473.694 2,768,926.267 36,203597103 -107,677957165 5,600.00 89,44 315,313 4,956.19 1,099.11 355.53 1,893,473.094 2,768,896.466 82,036949600 -107,678094005 5,600.00 89,44 315,313 4,956.15 1,241.30 214.89 1,893,473.051 2,768,809.145 36,203699460 -107,678094005 5,600.00 89,44 315,313 4,956.15 1,241.30 214.89 1,893,621.258 2,768,765.505 36,204086011 -107,678659398 5,900.00 89,44 315,313 4,960.10 1,383.48 74.25 1,893,802.351 2,768,609.865 36,204281616 -107,6786580798 5,900.00 89,44 315,313 4,960.10 1,383.48 74.25 1,893,803.632 5,800.865 36,204477221 -107,679045878 6,000.00 89,44 315,313 4,960.10 1,803.40 1,804.50 1,80	· ·	70.20	315.313	4,922.26	959.71	493.42	1,893,339.669	2,769,029.035	36.203311235	-107.677627380
5,450.00 8 52.0 315.313 4,956.12 1,093.73 360.85 1,893.443.666 2,768.926.267 36,203567103 -107.677675916 5,500.00 89.44 315.313 4,956.12 1,093.73 360.85 1,893.479.074 2,768.891.145 36,203679998 -107.678099005 5,500.00 89.44 315.313 4,956.19 1,099.11 355.53 1,893.479.074 2,768.891.145 36,203684600 -107.678094005 5,500.00 89.44 315.313 4,956.15 1,241.30 245.85 1,893.621.256 2,768.820.825 36,203890460 -107.678391971 5,700.00 89.44 315.313 4,958.15 1,241.30 245.89 1,893.621.256 2,768.801.165 36,204086011 -107.678699005 5,900.00 89.44 315.313 4,960.10 1,383.48 74.25 1,893.621.256 2,768.60.185 36,204281616 -107.678699930 5,500.00 89.44 315.313 4,961.08 1,456.57 3.93 1,893.804.535 2,768.69.985 36,204672825 -107.679283850 6,000.00 89.44 315.313 4,961.08 1,456.57 3.93 1,893.804.535 2,768.69.985 36,204672825 -107.679283850 6,000.00 89.44 315.313 4,963.03 1,596.76 -166.39 1,893.905.628 2,768.469.224 36,204672825 -107.679283850 6,000.00 89.44 315.313 4,964.01 1,667.85 -207.03 1,894.047.812 2,768.328.585 36,205269634 -107.679997771 6,400.00 89.44 315.313 4,964.09 1,1667.85 -207.03 1,894.047.812 2,768.328.585 36,205269634 -107.679997771 6,400.00 89.44 315.313 4,964.99 1,738.94 -277.35 1,894.189.99 7 2,788.187.945 36,206.600.00 89.44 315.313 4,964.99 1,789.94 1,789.9	5,350.00	75.20	315.313	4,937.13	993.64	459.86	, ,	2,768,995.475		-107.677740947
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8,900.00 89.44 315.313 4,989.41 3,516.26 -2,035.35 1,895,896.212 2,766,500.267 36.210345136 -107.686185531										
9,000.00 89.44 315.313 4,990.38 3,587.35 -2,105.67 1,895,967.305 2,766,429.947 36.210540726 -107.686423538		89.44	315.313			-2,105.67	1,895,967.305	2,766,429.947	36.210540726	-107.686423538
9,100.00 89.44 315.313 4,991.36 3,658.44 -2,175.99 1,896,038.397 2,766,359.627 36.210736315 -107.686661546	9,100.00	89.44	315.313	4,991.36	3,658.44	-2,175.99	1,896,038.397	2,766,359.627	36.210736315	-107.686661546



Database: DT_Aug2923v16

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Well: Betonnie Tsosie Wash Unit 401H

Wellbore: Original Hole
Design: rev0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

esign:	revu								
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,200.00	89.44	315.313	4,992.34	3,729.53	-2,246.31	1,896,109.489	2,766,289.308	36.210931904	-107.6868995
9,300.00	89.44	315.313	4,993.31	3,800.63	-2,316.63	1,896,180.581	2,766,218.988	36.211127492	-107.6871375
9,400.00	89.44	315.313	4,994.29	3,871.72	-2,386.95	1,896,251.674	2,766,148.668	36.211323080	-107.6873755
9,500.00	89.44	315.313	4,995.27	3,942.81	-2,457.27	1,896,322.766	2,766,078.348	36.211518668	-107.6876135
9,600.00	89.44	315.313	4,996.24	4,013.90	-2,527.59	1,896,393.858	2,766,008.028	36.211714255	-107.6878516
9,700.00	89.44	315.313	4,997.22	4,085.00	-2,597.91	1,896,464.951	2,765,937.708	36.211909841	-107.6880896
9,800.00	89.44	315.313	4,998.20	4,156.09	-2,668.23	1,896,536.043	2,765,867.388	36.212105427	-107.6883276
9,900.00	89.44	315.313	4,999.18	4,227.18	-2,738.55	1,896,607.135	2,765,797.068	36.212301012	-107.6885656
10,000.00	89.44	315.313	5,000.15	4,298.27	-2,808.87	1,896,678.228	2,765,726.748	36.212496597	-107.6888036
10,100.00	89.44	315.313	5,001.13	4,369.37	-2,879.19	1,896,749.320	2,765,656.429	36.212692182	-107.6890410
10,200.00	89.44	315.313	5,002.11	4,440.46	-2,949.51	1,896,820.412	2,765,586.109	36.212887766	-107.689279
10,300.00	89.44	315.313	5,003.08	4,511.55	-3,019.83	1,896,891.505	2,765,515.789	36.213083350	-107.689517
10,400.00	89.44	315.313	5,004.06	4,582.64	-3,090.15	1,896,962.597	2,765,445.469	36.213278933	-107.689755
10,500.00	89.44	315.313	5,005.04	4,653.74	-3,160.47	1,897,033.689	2,765,375.149	36.213474515	-107.689993
10,600.00	89.44	315.313	5,006.01	4,724.83	-3,230.79	1,897,104.782	2,765,304.829	36.213670097	-107.690231
10,700.00	89.44	315.313	5,006.99	4,795.92	-3,301.11	1,897,175.874	2,765,234.509	36.213865679	-107.690469
10,800.00	89.44	315.313	5,007.97	4,867.01	-3,371.43	1,897,246.966	2,765,164.189	36.214061260	-107.690707
10,900.00	89.44	315.313	5.008.94	4,938.11	-3,441.75	1,897,318.058	2,765,093.869	36.214256841	-107.690945
11,000.00	89.44	315.313	5,009.92	5,009.20	-3,512.07	1,897,389.151	2,765,023.549	36.214452421	-107.691183
11,100.00	89.44	315.313	5,010.90	5,080.29	-3,582.39	1,897,460.243	2,764,953.230	36.214648001	-107.691421
11,200.00	89.44	315.313	5,011.87	5,151.38	-3,652.71	1,897,531.335	2,764,882.910	36.214843580	-107.691659
11,300.00	89.44	315.313	5,012.85	5,222.47	-3,723.03	1,897,602.428	2,764,812.590	36.215039159	-107.691898
11,400.00	89.44	315.313	5,013.83	5,293.57	-3,793.35	1,897,673.520	2,764,742.270	36.215234737	-107.692136
11,500.00	89.44	315.313	5,014.80	5,364.66	-3,863.67	1,897,744.612	2,764,671.950	36.215430315	-107.692374
11,600.00	89.44	315.313	5,015.78	5,435.75	-3,933.99	1,897,815.705	2,764,601.630	36.215625893	-107.692612
11,700.00	89.44	315.313	5,016.76	5,506.84	-4,004.31	1,897,886.797	2,764,531.310	36.215821470	-107.692850
11,800.00	89.44	315.313	5,017.74	5,577.94	-4,074.63	1,897,957.889	2,764,460.990	36.216017046	-107.693088
11,900.00	89.44	315.313	5,018.71	5,649.03	-4,144.95	1,898,028.982	2,764,390.670	36.216212622	-107.693326
12,000.00	89.44	315.313	5,019.69	5,720.12	-4,215.27	1,898,100.074	2,764,320.350	36.216408197	-107.693564
12,100.00	89.44	315.313	5,020.67	5,791.21	-4,285.59	1,898,171.166	2,764,250.031	36.216603772	-107.693802
12,200.00	89.44	315.313	5,021.64	5,862.31	-4,355.91	1,898,242.258	2,764,179.711	36.216799347	-107.694040
12,300.00	89.44	315.313	5,022.62	5,933.40	-4,426.23	1,898,313.351	2,764,109.391	36.216994921	-107.694278
12,400.00	89.44	315.313	5,023.60	6,004.49	-4,496.55	1,898,384.443	2,764,039.071	36.217190494	-107.694516
12,500.00	89.44	315.313	5,024.57	6,075.58	-4,566.87	1,898,455.535	2,763,968.751	36.217386068	-107.694754
12,600.00	89.44	315.313	5,025.55	6,146.68	-4,637.19	1,898,526.628	2,763,898.431	36.217581640	-107.694992
12,700.00	89.44	315.313	5,026.53	6,217.77	-4,707.51	1,898,597.720	2,763,828.111	36.217777212	-107.695230
12,748.47	89.44	315.313	5,027.00	6,252.23	-4,741.59	1,898,632.176	2,763,794.029	36.217872000	-107.6953460



DT_Aug2923v16 Database:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Betonnie Tsosie Wash Unit 401H Well:

Wellbore: Original Hole Design: rev0

Local Co-ordinate Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

TVD Reference:

RKB=6864+25 @ 6889.00ft MD Reference: Grid North Reference:

Minimum Curvature

RKB=6864+25 @ 6889.00ft

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
Betonnie Tsosie 401H ve - plan hits target cent - Point	0.00 er	0.000	4,353.19	653.42	796.38	1,893,033.382	2,769,331.993	36.202468497	-107.676602175
Betonnie Tsosie 401H V - plan misses target o - Point	0.00 center by 192	0.000 .14ft at 5050	4,951.00 .00ft MD (47	721.30 99.70 TVD, 8	729.23 05.51 N, 645.9	1,893,101.262 95 E)	2,769,264.844	36.202655267	-107.676829407
Betonnie Tsosie 401H F - plan hits target cent - Point	0.00 er	0.000	4,956.12	1,093.73	360.85	1,893,473.695	2,768,896.465	36.203680000	-107.678076000
Betonnie Tsosie 401H B - plan hits target cent - Point	0.00 er	0.000	5,027.00	6,252.23	-4,741.59	1,898,632.176	2,763,794.029	36.217872000	-107.695346000

Casing	Points							
		Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
		350.00 3,035.35		13 3/8" Csg 9 5/8" Csg		13-3/8 9-5/8	17-1/2 12-1/4	

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
664.00	664.00	Ojo Alamo		0.56	315.313
749.00	749.00	Kirtland		0.56	315.313
944.00	944.00	Fruitland		0.56	315.313
1,310.34	1,308.98	Pictured Cliffs		0.56	315.313
1,422.39	1,418.96	Lewis		0.56	315.313
1,672.72	1,658.89	Chacra_A		0.56	315.313
2,856.29	2,753.49	Cliff House_Basal		0.56	315.313
2,872.51	2,768.48	Menefee		0.56	315.313
3,906.12	3,728.13	Point Lookout		0.56	315.313
4,085.95	3,903.10	Mancos		0.56	315.313
4,402.91	4,218.07	MNCS_A		0.56	315.313
4,499.91	4,315.07	MNCS_B		0.56	315.313
4,593.02	4,408.09	MNCS_C		0.56	315.313
4,638.51	4,453.15	MNCS_Cms		0.56	315.313
4,769.61	4,578.52	MNCS_D		0.56	315.313
4,915.88	4,704.24	MNCS_E		0.56	315.313
4,982.88	4,754.67	MNCS_F		0.56	315.313
5,105.99	4,832.60	MNCS_G		0.56	315.313
5,212.58	4,886.50	MNCS_H		0.56	315.313
5,340.60	4,934.66	MNCS_I		0.56	315.313



TVD Reference:

MD Reference:

North Reference:

DT_Aug2923v16 Database:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W

Site: Betonnie Tsosie Wash Unit (401, 402 & 732) Well:

Wellbore: Original Hole Design: rev0

Betonnie Tsosie Wash Unit 401H

Local Co-ordinate Reference:

Survey Calculation Method:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,747.58	1,728.63	91.63	111.67	Begin 22.43° tangent
3,690.45	3,524.56	561.79	684.71	Begin 3°/100' drop
4,438.03	4,253.19	653.42	796.38	Begin vertical hold
4,538.03	4,353.19	653.42	796.38	Begin 10°/100' build
5,138.03	4,849.39	857.09	594.92	Begin 60.00° tangent
5,198.03	4,879.39	894.04	558.38	Begin 10°/100' build
5,492.43	4,956.12	1,093.73	360.85	Begin 89.44° lateral
12,748.47	5.027.00	6.252.23	-4.741.59	PBHL @ 12748.47 MD 5027.00 TVD



Project:

Reference Site:

Anticollision Report

TVD Reference:

MD Reference:

Company: Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W Betonnie Tsosie Wash Unit (401, 402 & 732)

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

ISCWSA

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

North Reference: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: DT Aug2923v16

Offset TVD Reference: D1_Aug2923*

Reference rev0

Filter type: GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference

Interpolation Method: MD Interval 100.00ft Error Model:

Depth Range:UnlimitedScan Method:Closest Approach 3DResults Limited by:Maximum centre distance of 1,474.85ftError Surface:Ellipsoid Separation

Petannia Taggia Wash Unit /205, 206, 9, 724). Petannia Taggia Wash Unit 20611. Original Usla, 1990

Warning Levels Evaluated at: 2.00 Sigma Casing Method: Not applied

 From (ft)
 To (ft)
 Survey (Wellbore)
 Tool Name
 Description

 0.00
 12,748.45 rev0 (Original Hole)
 MWD
 OWSG MWD - Standard

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Dista Between Centres (ft)	nce Between Ellipses (ft)	Separation Factor	Warning
Betonnie Tsosie Wash Unit (305, 306 & 721)						
Betonnie Tsosie Wash Unit 306H - Original Hole - Betonnie Tsosie Wash Unit 306H - Original Hole - Betonnie Tsosie Wash Unit 306H - Original Hole -	rev0 12,500.00	7,343.25 5,832.07 5,752.04	1,199.92 1,200.81 1,203.36	1,003.28 984.15 985.40	6.102 C 5.543 E 5.521 S	S
Betonnie Tsosie Wash Unit (401, 402 & 732)						
Betonnie Tsosie Wash Unit 402H - Original Hole - Betonnie Tsosie Wash Unit 732H - Original Hole -	,	1,000.00 1,110.70	19.99 14.87	13.27 7.41		CC, ES, SF evel 3<2.00, CC, ES, SF

Offset De	sign: Be	tonnie isos	ie wasn c	JNII (305, 30	10 & 721)	- Betonnie	Tsosie Wash U	nit 306H - 1	Originai Ho	ne - revu			Offset Site Error:	0.00 ft
Survey Progr Refe Measured	ram: 0-f rence Vertical	MWD Off Measured	set Vertical	Semi M Reference	lajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dis Between	Rule Assi tance Between	gned: Minimum	Separation	Offset Well Error: Warning	0.00 ft
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor	warning	
4,600.00	4,415.04	12,893.17	4,947.00	23.49	170.66	67.91	1,890.94	1,259.97	1,433.57	1,273.46	160.11	8.954		
4,700.00	4,513.01	12,893.17	4,947.00	23.70	170.66	72.37	1,890.94	1,259.97	1,390.76	1,226.07	164.69	8.445		
4,800.00	4,606.13	12,893.17	4,947.00	23.90	170.66	76.79	1,890.94	1,259.97	1,349.07	1,179.65	169.42	7.963		
4,900.00	4,691.56	12,893.17	4,947.00	24.07	170.66	80.96	1,890.94	1,259.97	1,309.92	1,135.77	174.15	7.522		
5,000.00	4,766.71	12,893.17	4,947.00	24.22	170.66	84.68	1,890.94	1,259.97	1,274.79	1,096.07	178.72	7.133		
5,100.00	4,829.29	12,893.17	4,947.00	24.34	170.66	87.78	1,890.94	1,259.97	1,245.14	1,062.19	182.94	6.806		
5,200.00	4,880.37	12,893.17	4,947.00	24.46	170.66	88.81	1,890.94	1,259.97	1,222.33	1,035.68	186.64	6.549		
5,300.00	4,922.26	12,893.17	4,947.00	24.59	170.66	90.33	1,890.94	1,259.97	1,207.26	1,017.63	189.62	6.367		
5,400.00	4,947.78	12,893.17	4,947.00	24.76	170.66	91.02	1,890.94	1,259.97	1,200.44	1,008.73	191.70	6.262		
5,495.75	4,956.75	12,824.52	4,947.50	25.06	169.15	90.85	1,939.75	1,211.69	1,199.99	1,008.57	191.42	6.269		
5,500.00	4,956.19	12,820.24	4,947.53	25.08	169.05	90.88	1,942.79	1,208.68	1,200.00	1,008.63	191.37	6.270		
5,600.00	4,957.17	12,720.24	4,948.26	25.68	166.84	90.86	2,013.89	1,138.36	1,200.00	1,009.50	190.50	6.299		
5,700.00	4,958.15	12,620.24	4,949.00	26.65	164.63	90.85	2,084.98	1,068.04	1,199.99	1,010.24	189.76	6.324		
5,800.00	4,959.12	12,520.24	4,949.73	27.94	162.43	90.84	2,156.07	997.72	1,199.99	1,010.85	189.14	6.345		
5,900.00	4,960.10	12,420.24	4,950.46	29.45	160.22	90.83	2,227.17	927.40	1,199.99	1,011.37	188.62	6.362		
6,000.00	4,961.08	12,320.24	4,951.19	31.09	158.02	90.82	2,298.26	857.08	1,199.99	1,011.81	188.18	6.377		
6,100.00	4,962.06	12,220.24	4,951.92	32.83	155.82	90.81	2,369.36	786.76	1,199.98	1,012.18	187.81	6.389		
6,200.00	4,963.03	12,120.24	4,952.65	34.65	153.63	90.79	2,440.45	716.44	1,199.98	1,012.49	187.50	6.400		
6,300.00	4,964.01	12,020.24	4,953.38	36.53	151.44	90.78	2,511.55	646.12	1,199.98	1,012.74	187.24	6.409		
6,400.00	4,964.99	11,920.24	4,954.12	38.46	149.25	90.77	2,582.64	575.80	1,199.98	1,012.96	187.02	6.416		



Company: Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Reference Site:

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft TVD Reference: RKB=6864+25 @ 6889.00ft MD Reference:

Grid North Reference:

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma Database: DT_Aug2923v16

Offset TVD Reference: Offset Datum

offset Des			io vvaori c	Jnit (305, 30	,								Offset Site Error:	0.00
urvey Progr Refe	ram: 0-M rence	MWD Offs	set	Semi M	ajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi ance	gned:		Offset Well Error:	0.00
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
6,500.00	4,965.96	11,820.24	4,954.85	40.43	147.06	90.76	2,653.74	505.48	1,199.98	1,013.14	186.83	6.423		
6,600.00	4,966.94	11,720.24	4,955.58	42.43	144.88	90.75	2,724.83	435.16	1,199.97	1,013.29	186.69	6.428		
6,700.00	4,967.92	11,620.24	4,956.31	44.46	142.70	90.74	2,795.92	364.84	1,199.97	1,013.41	186.56	6.432		
6,800.00	4,968.89	11,520.24	4,957.04	46.52	140.52	90.72	2,867.02	294.52	1,199.97	1,013.50	186.47	6.435		
6,900.00	4,969.87	11,420.24	4,957.77	48.59	138.35	90.71	2,938.11	224.20	1,199.97	1,013.57	186.39	6.438		
7,000.00	4,970.85	11,320.24	4,958.50	50.69	136.18	90.70	3,009.21	153.88	1,199.96	1,013.62	186.34	6.440		
7,100.00	4,971.82	11,220.24	4,959.23	52.80	134.02	90.69	3,080.30	83.55	1,199.96	1,013.66	186.31	6.441		
7,200.00	4,972.80	11,120.24	4,959.97	54.93	131.86	90.68	3,151.40	13.23	1,199.96	1,013.67	186.29	6.441		
7,300.00	4,973.78	11,020.25	4,960.70	57.07	129.70	90.66	3,222.49	-57.09	1,199.96	1,013.67	186.29	6.441		
7,400.00	4,974.75	10,920.25	4,961.43	59.22	127.55	90.65	3,293.59	-127.41	1,199.96	1,013.66	186.30	6.441		
7,500.00	4,975.73	10,820.25	4,962.16	61.38	125.40	90.64	3,364.68	-197.73	1,199.96	1,013.63	186.32	6.440		
7,600.00	4,976.71	10,720.25	4,962.89	63.55	123.26	90.63	3,435.77	-268.05	1,199.95	1,013.59	186.36	6.439		
7,700.00	4,977.68	10,620.25	4,963.62	65.72	121.13	90.62	3,506.87	-338.37	1,199.95	1,013.54	186.42	6.437		
7,800.00	4,978.66	10,520.25	4,964.35	67.91	119.00	90.61	3,577.96	-408.69	1,199.95	1,013.47	186.48	6.435		
7,900.00	4,979.64	10,420.25	4,965.09	70.10	116.88	90.59	3,649.06	-479.01	1,199.95	1,013.39	186.56	6.432		
8,000.00	4,980.62	10,320.25	4,965.82	72.30	114.76	90.58	3,720.15	-549.33	1,199.95	1,013.30	186.64	6.429		
8,100.00	4,981.59	10,220.25	4,966.55	74.50	112.66	90.57	3,791.25	-619.65	1,199.95	1,013.20	186.74	6.426		
8,200.00	4,982.57	10,120.25	4,967.28	76.71	110.56	90.56	3,862.34	-689.97	1,199.94	1,013.09	186.85	6.422		
8,300.00	4,983.55	10,020.25	4,968.01	78.92	108.46	90.55	3,933.44	-760.29	1,199.94	1,012.97	186.97	6.418		
8,400.00	4,984.52	9,920.25	4,968.74	81.14	106.38	90.54	4,004.53	-830.61	1,199.94	1,012.83	187.11	6.413		
8,500.00	4,985.50	9,820.25	4,969.47	83.36	104.31	90.52	4,075.62	-900.93	1,199.94	1,012.69	187.25	6.408		
8,600.00	4,986.48	9,720.25	4,970.20	85.58	102.24	90.51	4,146.72	-971.25	1,199.94	1,012.53	187.41	6.403		
8,700.00	4,987.45	9,620.25	4,970.94	87.81	100.19	90.50	4,217.81	-1,041.58	1,199.94	1,012.36	187.58	6.397		
8,800.00	4,988.43	9,520.25	4,971.67	90.04	98.15	90.49	4,288.91	-1,111.90	1,199.94	1,012.18	187.76	6.391		
8,900.00	4,989.41	9,420.25	4,972.40	92.27	96.12	90.48	4,360.00	-1,182.22	1,199.94	1,011.98	187.96	6.384		
9,000.00	4,990.38	9,320.25	4,973.13	94.51	94.10	90.47	4,431.10	-1,252.54	1,199.93	1,011.77	188.16	6.377		
9,100.00	4,991.36	9,220.25	4,973.86	96.75	92.09	90.45	4,502.19	-1,322.86	1,199.93	1,011.55	188.39	6.370		
9,200.00	4,992.34	9,120.25	4,974.59	98.99	90.10	90.44	4,573.29	-1,393.18	1,199.93	1,011.31	188.62	6.361		
9,300.00	4,993.31	9,020.25	4,975.32	101.23	88.13	90.43	4,644.38	-1,463.50	1,199.93	1,011.05	188.88	6.353		
9,400.00	4,994.29	8,920.25	4,976.06	103.48	86.18	90.42	4,715.47	-1,533.82	1,199.93	1,010.79	189.15	6.344		
9,500.00	4,995.27	8,820.25	4,976.79	105.72	84.24	90.41	4,786.57	-1,604.14	1,199.93	1,010.50	189.43	6.334		
9,600.00	4,996.24	8,720.25	4,977.52	107.97	82.32	90.40	4,857.66	-1,674.46	1,199.93	1,010.19	189.74	6.324		
9,700.00	4,997.22	8,620.25	4,978.25	110.22	80.43	90.38	4,928.76	-1,744.78	1,199.93	1,009.87	190.06	6.313		
9,800.00	4,998.20	8,520.25	4,978.98	112.47	78.55	90.37	4,999.85	-1,815.10	1,199.93	1,009.52	190.41	6.302		
9,900.00	4,999.18	8,420.25	4,979.71	114.73	76.71	90.36	5,070.95	-1,885.42	1,199.93	1,009.15	190.77	6.290		
10,000.00	5,000.15	8,320.25	4,980.44	116.98	74.89	90.35	5,142.04	-1,955.74	1,199.93	1,008.76	191.16	6.277		
10,100.00	5,001.13	8,220.25	4,981.17	119.24	73.10	90.34	5,213.13	-2,026.06	1,199.93	1,008.35	191.58	6.263		
10,200.00	5,002.11	8,120.25	4,981.91	121.49	71.35	90.32	5,284.23	-2,096.38	1,199.93	1,007.90	192.02	6.249		
10,300.00	5,003.08	8,020.25	4,982.64	123.75	69.63	90.31	5,355.32	-2,166.70	1,199.93	1,007.43	192.49	6.234		
10,400.00	5,004.06	7,920.25	4,983.37	126.01	67.94	90.30	5,426.42	-2,237.03	1,199.93	1,006.93	193.00	6.217		
10,500.00	5,005.04	7,820.25	4,984.10	128.27	66.31	90.29	5,497.51	-2,307.35	1,199.93	1,006.39	193.53	6.200		
10,600.00	5,006.01	7,720.25	4,984.83	130.53	64.71	90.28	5,568.61	-2,377.67	1,199.93	1,005.82	194.10	6.182		
10,700.00	5,006.99	7,620.26	4,985.56	132.80	63.17	90.27	5,639.70	-2,447.99	1,199.93	1,005.21	194.72	6.162		
10,800.00	5,007.97	7,520.26	4,986.29	135.06	61.68	90.25	5,710.80	-2,518.31	1,199.92	1,004.56	195.37	6.142		
10,900.00	5,008.94	7,420.26	4,987.03	137.32	60.25	90.24	5,781.89	-2,588.63	1,199.92	1,003.86	196.07	6.120		
10,977.01	5,009.70	7,343.25	4,987.59	139.07	59.19	90.23	5,836.64	-2,642.78	1,199.92	1,003.28	196.64	6.102 CC		
11,000.00	5,009.92	7,320.26	4,987.76	139.59	58.88	90.23	5,852.98	-2,658.95	1,199.92	1,003.11	196.82	6.097		
11,100.00	5,010.90	7,220.26	4,988.49	141.85	57.57	90.22	5,924.08	-2,729.27	1,199.92	1,002.31	197.62	6.072		
11,200.00	5,011.87	7,120.26	4,989.22	144.12	56.34	90.21	5,995.17	-2,799.59	1,199.92	1,001.45	198.47	6.046		
11,300.00	5,012.85	7,020.26	4,989.95	146.39	55.19	90.20	6,066.27	-2,869.91	1,199.93	1,000.53	199.39	6.018		
11,400.00	5,013.83	6,920.26	4,990.68	148.65	54.11	90.18	6,137.36	-2,940.23	1,199.93	999.55	200.38	5.988		



Company: Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Reference Site:

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft TVD Reference: RKB=6864+25 @ 6889.00ft MD Reference:

North Reference:

Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma

Database: DT_Aug2923v16 Offset TVD Reference: Offset Datum

urvey Progr	O N	JWD								Rule Assi	anod:		Offset Well Error:	0.00
	rence	Off	set	Semi N	Major Axis		Offset Wellb	ore Centre	Dis	tance	grieu.		Oliset Well Ellor.	0.00
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S	+E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
11,500.00	5,014.80	6,820.26	4,991.41	150.92	53.12	90.17	6,208.46	-3,010.55	1,199.93	998.49	201.43	5.957		
11,600.00	5,015.78	6,720.26	4,992.14	153.19	52.21	90.16	6,279.55	-3,080.87	1,199.93	997.36	202.57	5.924		
11,700.00	5,016.76	6,620.26	4,992.88	155.46	51.39	90.15	6,350.65	-3,151.19	1,199.93	996.14	203.78	5.888		
11,800.00	5,017.74	6,520.26	4,993.61	157.73	50.67	90.14	6,421.74	-3,221.51	1,199.93	994.84	205.08	5.851		
11,900.00	5,018.71	6,420.26	4,994.34	160.00	50.03	90.13	6,492.83	-3,291.83	1,199.93	993.45	206.48	5.811		
12,000.00	5,019.69	6,320.26	4,995.07	162.27	49.49	90.11	6,563.93	-3,362.15	1,199.93	991.95	207.97	5.770		
12,100.00	5,020.67	6,220.26	4,995.80	164.54	49.04	90.10	6,635.02	-3,432.48	1,199.93	990.36	209.57	5.726		
12,200.00	5,021.64	6,120.26	4,996.53	166.82	48.68	90.09	6,706.12	-3,502.80	1,199.93	988.65	211.27	5.679		
12,300.00	5,022.62	6,020.20	4,996.09	169.09	48.40	90.02	6,777.24	-3,573.14	1,199.93	986.85	213.08	5.631		
12,304.45	5,022.66	6,015.76	4,995.83	169.19	48.39	90.01	6,780.39	-3,576.26	1,199.93	986.76	213.16	5.629		
12,400.00	5,023.60	5,922.45	4,982.28	171.36	48.19	89.32	6,845.96	-3,641.12	1,200.02	985.08	214.93	5.583		
12,500.00	5,024.57	5,832.07	4,955.08	173.63	48.04	87.98	6,907.16	-3,701.65	1,200.81	984.15	216.65	5.543 ES		
12,600.00	5,025.55	5,752.04	4,919.95	175.91	47.96	86.27	6,958.24	-3,752.17	1,203.36	985.40	217.96	5.521 SF		
12,700.00	5,026.53	5,677.72	4,882.63	178.18	47.93	84.47	7,003.97	-3,797.33	1,208.39	989.63	218.76	5.524		
12,748.47	5,027.00	5,650.00	4,867.62	179.28	47.93	83.76	7,020.79	-3,813.46	1,212.29	993.45	218.85	5.539		



TVD Reference:

MD Reference:

Patarria Tancia Wash Unit (404, 400, 9, 700). Patarria Tancia Wash Unit 400U. Original Usla

North Reference:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Reference Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft
Reference Wellbore Original Hole
Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

732)

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database: DT_Aug2923v16
Offset TVD Reference: Offset Datum

														0.001
urvey Prog		MWD								Rule Assi	gned:		Offset Well Error:	0.00 1
Refe Measured	rence Vertical	Off Measured	set Vertical	Semi N Reference	i Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)		(ft)			+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-109.23	-6.58	-18.87	19.99	(11)	(,			
100.00	100.00	100.00	100.00	0.13	0.13	-109.23	-6.58	-18.87	19.99	19.72	0.27	74.341		
200.00	200.00	200.00	200.00	0.49	0.49	-109.23	-6.58	-18.87	19.99	19.00	0.99	20.275		
300.00	300.00	300.00	300.00	0.85	0.85	-109.23	-6.58	-18.87	19.99	18.28	1.70	11.738		
400.00	400.00	400.00	400.00	1.21	1.21	-109.23	-6.58	-18.87	19.99	17.57	2.42	8.260		
500.00	500.00	500.00	500.00	1.57	1.57	-109.23	-6.58	-18.87	19.99	16.85	3.14	6.372		
600.00	600.00	600.00	600.00	1.93	1.93	-109.23	-6.58	-18.87	19.99	16.13	3.85	5.187		
700.00	700.00	700.00	700.00	2.29	2.29	-109.23	-6.58	-18.87	19.99	15.42	4.57	4.373		
800.00	800.00	800.00	800.00	2.64	2.64	-109.23	-6.58	-18.87	19.99	14.70	5.29	3.780		
900.00	900.00	900.00	900.00	3.00	3.00	-109.23	-6.58	-18.87	19.99	13.98	6.00	3.329		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-109.23	-6.58	-18.87	19.99	13.27	6.72	2.974 CC,	ES, SF	
1,100.00	1,099.95	1,099.02	1,098.98	3.72	3.70	-166.29	-8.91	-19.95	24.40	16.99	7.41	3.292		
1,200.00	1,199.63	1,196.98	1,196.65	4.07	4.03	-176.16	-15.64	-23.05	38.40	30.32	8.08	4.752		
1,300.00	1,298.77	1,294.67	1,293.95	4.44	4.35	178.72	-23.56	-26.70	59.31	50.55	8.77	6.767		
1,400.00	1,397.08	1,391.13	1,390.02	4.82	4.69	176.47	-31.39	-30.30	85.52	76.07	9.45	9.050		
1,500.00	1,494.31	1,486.09	1,484.60	5.23	5.02	175.43	-39.10	-33.86	116.78	106.65	10.13	11.528		
1,600.00	1,590.18	1,579.29	1,577.43	5.67	5.36	174.96	-46.66	-37.34	152.97	142.17	10.81	14.152		
1,700.00	1,684.43	1,670.49	1,668.26	6.17	5.69	174.77	-54.06	-40.75	193.98	182.50	11.48	16.894		
1,800.00	1,777.09	1,759.75	1,757.17	6.72	6.01	174.76	-61.30	-44.09	239.05	226.90	12.15	19.673		
1,900.00	1,869.53	1,848.75	1,845.81	7.30	6.34	174.81	-68.52	-47.42	284.64	271.83	12.81	22.223		
2,000.00	1,961.96	1,937.75	1,934.46	7.92	6.67	174.85	-75.74	-50.74	330.24	316.76	13.47	24.509		
2,100.00	2,054.40	2,026.75	2,023.10	8.55	7.00	174.88	-82.97	-54.07	375.83	361.68	14.15	26.567		
2,200.00	2,146.84	2,115.75	2,111.75	9.20	7.33	174.90	-90.19	-57.40	421.43	406.60	14.83	28.426		
2,300.00	2,239.27	2,204.76	2,200.39	9.86	7.66	174.92	-97.41	-60.73	467.02	451.51	15.51	30.112		
2,400.00	2,331.71	2,293.76	2,289.04	10.53	8.00	174.94	-104.63	-64.06	512.62	496.42	16.20	31.647		
2,500.00	2,424.15	2,382.76	2,377.68	11.20	8.33	174.95	-111.85	-67.38	558.21	541.32	16.89	33.049		
2,600.00	2,516.58	2,471.76	2,466.33	11.89	8.67	174.96	-119.07	-70.71	603.81	586.22	17.59	34.333		
2,700.00	2,609.02	2,560.76	2,554.97	12.58	9.01	174.97	-126.29	-74.04	649.40	631.11	18.29	35.514		
2,800.00	2,701.45	2,649.76	2,643.62	13.28	9.34	174.98	-133.52	-77.37	695.00	676.01	18.99	36.602		
2,900.00	2,793.89	2,738.76	2,732.26	13.98	9.68	174.99	-140.74	-80.70	740.59	720.90	19.69	37.607		
3,000.00	2,886.33	2,827.76	2,820.90	14.68	10.02	174.99	-147.96	-84.02	786.19	765.79	20.40	38.539		
3,100.00	2,978.76	2,950.21	2,943.00	15.39	10.48	175.05	-156.28	-87.86	830.79	809.44	21.35	38.911		
3,200.00	3,071.20	3,078.44	3,071.20	16.10	10.92	175.30	-158.13	-88.71	869.96	847.66	22.30	39.017		
3,300.00	3,163.64	3,170.88	3,163.64	16.81	11.23	175.49	-158.13	-88.71	908.01	884.99	23.01	39.458		
3,400.00	3,256.07	3,263.31	3,256.07	17.52	11.53	175.67	-158.13	-88.71	946.06	922.33	23.73	39.869		
3,500.00	3,348.51	3,355.75	3,348.51	18.24	11.84	175.84	-158.13	-88.71	984.12	959.67	24.45	40.254		
3,600.00	3,440.95	3,448.19	3,440.95	18.96	12.15	176.00	-158.13	-88.71	1,022.19	997.02	25.17	40.614		
3,700.00	3,533.39	3,540.63	3,533.39	19.68	12.46	176.15	-158.13	-88.71	1,060.24	1,034.35	25.89	40.951		
3,800.00	3,626.96	3,634.20	3,626.96	20.36	12.78	176.35	-158.13	-88.71	1,095.42	1,068.81	26.61	41.163		
3,900.00	3,722.25	3,729.49	3,722.25	20.97	13.10	176.50	-158.13	-88.71	1,125.67	1,098.34	27.33	41.186		
4,000.00	3,818.99	3,826.23	3,818.99	21.51	13.43	176.63	-158.13	-88.71	1,150.90	1,122.85	28.05	41.032		
4,100.00	3,916.92	3,924.16	3,916.92	21.99	13.76	176.72	-158.13	-88.71	1,171.05	1,142.28	28.76	40.718		
4,200.00	4,015.78	4,023.02	4,015.78	22.40	14.10	176.79	-158.13	-88.71	1,186.04	1,156.58	29.46	40.256		
4,300.00	4,115.28	4,122.52	4,115.28	22.74	14.44	176.83	-158.13	-88.71	1,195.86	1,165.70	30.15	39.659		
4,400.00	4,215.16	4,222.40	4,215.16	23.03	14.78	176.85	-158.13	-88.71	1,200.46	1,169.63	30.83	38.939		
4,500.00	4,315.16	4,322.40	4,315.16	23.26	15.13	-132.52	-158.13	-88.71	1,200.84	1,169.34	31.49	38.133		
4,600.00	4,415.04	4,416.07	4,408.59	23.49	15.45	-87.72	-154.41	-92.40	1,200.93	1,168.83	32.10	37.415		
4,700.00	4,513.01	4,508.19	4,498.48	23.70	15.75	-87.62	-140.40	-106.25	1,201.01	1,168.34	32.67	36.766		
4,800.00	4,606.13	4,600.00	4,583.78	23.90	16.03	-87.59	-116.44	-129.95	1,201.03	1,167.81	33.23	36.143		
4,900.00	4,691.56	4,692.06	4,662.81	24.07	16.30	-87.63	-83.01	-163.02	1,201.00	1,167.16	33.84	35.488		
5,000.00	4,766.71	4,784.21	4,733.36	24.22		-87.73						34.733		



TVD Reference:

MD Reference:

North Reference:

Company: **Enduring Resources LLC**

San Juan County, New Mexico NAD83 NM W Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Reference Site:

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

0.00 ftWell Error: Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Survey Calculation Method: Minimum Curvature Output errors are at 2.00 sigma

DT Aug2923v16 Database: Offset TVD Reference: Offset Datum

Betonnie Tsosie Wash Unit (401, 402 & 732) - Betonnie Tsosie Wash Unit 402H - Original Hole - rev0 Offset Design: Offset Site Error: 0.00 ft Survey Program: Reference 0-MWD Offset Well Error: 0.00 ft Rule Assigned: Offset Offset Wellbore Centre Distance Semi Major Axis Measured Vertical Measured Vertical Reference Offset Highside Between Between Minimum Separation Warning +N/-S +E/-W Depth Toolface Separation Depth Depth Depth Centres Ellipses Factor (ft) (ft) (ft) (ft) (ft) (ft) (°) (ft) (ft) 4.876.73 4.793.76 24.34 -87.90 8.76 1.200.78 33.782 5.100.00 4.829.29 17.05 -253.79 1.165.24 35.55 1,163.85 5.200.00 4.880.37 4,972.09 4.844.26 24.46 17.69 -88.01 66.21 -310.62 1.200.70 36.84 32.588 5,067.28 4,888.20 -88.24 126.18 1,200.55 5,300.00 4,922.26 24.59 18.49 -369.94 1,162.05 38.49 31.187 5,400.00 4,947.78 5,161.49 4,917.93 24.76 19.46 -88.54 189.67 -432.73 1,200.37 1,159.86 40.51 29.633 4,956.19 5,256.72 4,932.71 25.08 20.61 -88.88 256.46 -498.80 1,200.21 1,157.35 42.86 28.003 5,500.00 5.537.05 4.956.56 5.292.33 4.934.20 25.24 21.07 -88.93 281.76 -523.82 1.200.18 1.156.33 43.86 27.365 4.934.79 326.48 1,200.18 5,600.00 4.957.17 5,355.24 25.68 21.94 -88.93 -568.06 1.154.65 45.53 26.359 5.700.00 4.958.15 5.455.24 4.935.72 26.65 23.43 -88.93 397.58 -638.38 1.200.19 1.151.70 48.49 24.751 1,148.50 5,800.00 4.959.12 5,555.24 4.936.65 27.94 25.04 -88.93 468.67 -708.71 1,200.19 51.69 23 221 5,900.00 4,960.10 5,655.24 4,937.57 29.45 26.75 -88.92 539.76 -779.03 1,200.19 1,145.11 55.08 21.791 6,000.00 4,961.08 5,755.24 4,938.50 31.09 28.54 -88.92 610.85 -849.35 1,200.19 1,141.56 58.63 20.471 4,939.43 6,100.00 4,962.06 5,855.24 32.83 30.40 -88.92 681.95 -919.67 1,200.19 62.31 19.260 1,137.88 6.200.00 4.963.03 5.955.24 4.940.36 34.65 32.31 -88.92 753.04 -989.99 1.200.19 1.134.08 66.11 18.154 6,055.24 6,300.00 4,964.01 4,941.29 36.53 34.27 -88.92 824.13 -1,060.31 1,200.20 1,130.19 70.00 17.145 6.400.00 4 964 99 6.155.24 4 942 22 38 46 36.26 -88 91 895 22 -1.130.63 1.200.20 1.126.23 73 97 16 225 6,500.00 4,965.96 6,255.24 4,943.15 40.43 38.29 -88.91 966.32 -1,200.95 1,200.20 1,122.19 78.01 15.386 6.600.00 4.966.94 6.355.24 4.944.07 42.43 40.35 -88.91 1.037.41 -1.271.27 1.200.20 1.118.10 82.10 14.619 6,700.00 4,967.92 6,455.24 4.945.00 44.46 1,108.50 -1,341.59 1,200.20 1.113.96 86.24 13.917 42.43 -88.91 6,800.00 4,968.89 6,555.24 4,945.93 46.52 44.53 -88.90 1,179.59 -1,411.91 1,200.20 1,109.78 90.42 13.274 4,969.87 6,655.24 4,946.86 12.682 6,900.00 48.59 46.65 -88.90 1,250.68 -1,482.23 1,200.20 1,105.56 94.64 7.000.00 4.970.85 6.755.24 4.947.79 50.69 48.79 -88.90 1.321.78 -1.552.55 1.200.21 1.101.32 98.89 12.137 7,100.00 4.971.82 6.855.24 4.948.72 52.80 50.94 -88.90 1.392.87 -1.622.88 1,200.21 1.097.04 103.17 11.633 6.955.24 1.463.96 7.200.00 4.972.80 4.949.64 54.93 53.09 -88.89 -1.693.20 1.200.21 1.092.74 107.47 11.168 7,300.00 4,973.78 7.055.24 4.950.57 57.07 55 26 -88 89 1.535.05 -1,763.52 1.200.21 1.088.41 111.80 10 736 7,400.00 4,974.75 7,155.24 4,951.50 59.22 57.44 -88.89 1,606.15 -1,833.84 1,200.21 1,084.07 116.14 10.334 4,975.73 7,255.24 4,952.43 61.38 59.63 1,677.24 -1,904.16 1,200.21 1,079.71 120.50 9.960 7,500.00 -88.89 7,600.00 4,976.71 7,355.24 4,953.36 63.55 61.83 -88.89 1,748.33 -1,974.48 1,200.21 1,075.34 124.88 9.611 7.700.00 4.977.68 7.455.24 4.954.29 65.72 64.03 -88.88 1.819.42 -2.044.80 1.200.22 1.070.95 129.27 9.285 4,978.66 7,555.24 1,890.52 7,800.00 4,955.22 67.91 66.23 -88.88 -2,115.12 1,200.22 1,066.55 133.67 8.979 7 900 00 4 979 64 7 655 24 4 956 14 70 10 68 45 -88 88 1 961 61 -2 185 44 1 200 22 1 062 14 138 08 8 692 8,000.00 4,980.62 7,755.24 4,957.07 72.30 70.66 -88.88 2,032.70 -2,255.76 1,200.22 1,057.71 142.51 8.422 8.100.00 4.981.59 7.855.24 4.958.00 74.50 72.89 -88.87 2.103.79 -2.326.08 1.200.22 1.053.28 146.94 8.168 8,200.00 4.982.57 7.955.24 4.958.93 76.71 75.11 -88.87 2.174.89 -2.396.40 1.200.22 1.048.84 151.38 7 929 8,300.00 4,983.55 8,055.24 4,959.86 78.92 77.34 -88.87 2,245.98 -2,466.72 1,200.23 1,044.39 155.83 7.702 8,400.00 4,984.52 8,155.24 4.960.79 81.14 79.57 -88.87 2,317.07 -2,537.05 1,200.23 1,039.94 160.29 7.488 8.500.00 4.985.50 8.255.24 4.961.72 83.36 81.81 -88.86 2.388.16 -2.607.37 1.200.23 1.035.48 164.75 7.285 8,600.00 4.986.48 8.355.24 4.962.64 85.58 84.05 -88.86 2.459.26 -2.677.69 1.200.23 1.031.01 169.22 7.093 4.987.45 8.455.24 4.963.57 2.530.35 8.700.00 87.81 86.29 -88.86 -2.748.01 1.200.23 1.026.54 173.69 6.910 8,800.00 4 988 43 8.555.24 4 964 50 90.04 88 53 -88 86 2.601.44 -2.818.33 1.200.23 1.022.06 178.17 6 736 8,900.00 4,989.41 8,655.24 4,965.43 92.27 90.78 -88.86 2,672.53 -2,888.65 1,200.23 1,017.58 182.66 6.571 9,000.00 4,990.38 8,755.24 4,966.36 94.51 93.03 -88.85 2,743.62 -2,958.97 1,200.24 1,013.09 187.15 6.413 9,100.00 4,991.36 8,855.24 4,967.29 96.75 95.28 -88.85 2,814.72 -3,029.29 1,200.24 1,008.60 191.64 6.263 9.200.00 4.992.34 8.955.24 4.968.21 98.99 97.53 -88.85 2.885.81 -3.099.61 1.200.24 1.004.10 196.13 6.119 9,300.00 4,993.31 9,055.24 4,969.14 101.23 2,956.90 1,200.24 200.63 99.78 -88.85 -3,169.93 999.61 5.982 9 400 00 4 994 29 9 155 24 4 970 07 103 48 102 04 -88 84 3 027 99 -3 240 25 1 200 24 995 10 205 14 5 851 9,255.24 3,099.09 -3,310.57 9,500.00 4,995.27 4,971.00 105.72 104.30 -88.84 1,200.24 990.60 209.64 5.725 9.600.00 4.996.24 9.355.24 4.971.93 107.97 106.55 -88.84 3.170.18 -3.380.89 1.200.25 986.09 214.15 5.605 9.700.00 4,997.22 9.455.24 4.972.86 110.22 108.81 -88.84 3.241.27 -3.451.22 1.200.25 981.58 218.67 5.489 9,800.00 4,998.20 9,555.24 4,973.79 112.47 111.07 -88.83 3,312.36 -3,521.54 1,200.25 977.07 223.18 5.378 9.655.24 9,900.00 4.999.18 4.974.71 114.73 113.34 -88.83 3.383.46 -3,591.86 1.200.25 972.55 227.70 5.271 10.000.00 5.000.15 9.755.24 4.975.64 116.98 115.60 -88.83 3.454.55 -3.662.181.200.25 968.03 232.22 5.169



TVD Reference:

MD Reference:

North Reference:

Company: Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Reference Site:

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Minimum Curvature **Survey Calculation Method:** 2.00 sigma

Output errors are at Database:

DT_Aug2923v16 Offset TVD Reference: Offset Datum

	rence		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance				Offset Well Error:	0.00 ft
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
10,100.00	5,001.13	9,855.24	4,976.57	119.24	117.86	-88.83	3,525.64	-3,732.50	1,200.25	963.51	236.74	5.070		
10,200.00	5,002.11	9,955.24	4,977.50	121.49	120.13	-88.83	3,596.73	-3,802.82	1,200.25	958.99	241.26	4.975		
10,300.00	5,003.08	10,055.24	4,978.43	123.75	122.39	-88.82	3,667.83	-3,873.14	1,200.26	954.47	245.79	4.883		
10,400.00	5,004.06	10,155.24	4,979.36	126.01	124.66	-88.82	3,738.92	-3,943.46	1,200.26	949.94	250.31	4.795		
10,500.00	5,005.04	10,255.24	4,980.28	128.27	126.92	-88.82	3,810.01	-4,013.78	1,200.26	945.42	254.84	4.710		
10,600.00	5,006.01	10,355.24	4,981.21	130.53	129.19	-88.82	3,881.10	-4,084.10	1,200.26	940.89	259.37	4.628		
10,700.00	5,006.99	10,455.24	4,982.14	132.80	131.46	-88.81	3,952.20	-4,154.42	1,200.26	936.36	263.90	4.548		
10,800.00	5,007.97	10,555.24	4,983.07	135.06	133.73	-88.81	4,023.29	-4,224.74	1,200.26	931.83	268.44	4.471		
10,900.00	5,008.94	10,655.24	4,984.00	137.32	136.00	-88.81	4,094.38	-4,295.06	1,200.27	927.29	272.97	4.397		
11,000.00	5,009.92	10,755.24	4,984.93	139.59	138.27	-88.81	4,165.47	-4,365.39	1,200.27	922.76	277.51	4.325		
11,100.00	5,010.90	10,855.24	4,985.86	141.85	140.54	-88.80	4,236.56	-4,435.71	1,200.27	918.22	282.05	4.256		
11,200.00	5,011.87	10,955.24	4,986.78	144.12	142.81	-88.80	4,307.66	-4,506.03	1,200.27	913.69	286.58	4.188		
11,300.00	5,012.85	11,055.24	4,987.71	146.39	145.09	-88.80	4,378.75	-4,576.35	1,200.27	909.15	291.12	4.123		
11,400.00	5,013.83	11,155.24	4,988.64	148.65	147.36	-88.80	4,449.84	-4,646.67	1,200.27	904.61	295.66	4.060		
11,400.07	5,013.83	11,155.31	4,988.64	148.66	147.36	-88.80	4,449.89	-4,646.72	1,200.27	904.61	295.67	4.060		
11,500.00	5,014.80	11,193.93	4,989.00	150.92	148.24	-88.80	4,477.35	-4,673.88	1,201.84	903.91	297.93	4.034		
11,600.00	5,015.78	11,193.93	4,989.00	153.19	148.24	-88.80	4,477.35	-4,673.88	1,211.07	914.42	296.65	4.083		
11,700.00	5,016.76	11,193.93	4,989.00	155.46	148.24	-88.80	4,477.35	-4,673.88	1,228.39	935.49	292.90	4.194		
11,800.00	5,017.74	11,193.93	4,989.00	157.73	148.24	-88.80	4,477.35	-4,673.88	1,253.48	966.44	287.05	4.367		
11,900.00	5,018.71	11,193.93	4,989.00	160.00	148.24	-88.80	4,477.35	-4,673.88	1,285.88	1,006.34	279.54	4.600		
2,000.00	5,019.69	11,193.93	4,989.00	162.27	148.24	-88.80	4,477.35	-4,673.88	1,325.05	1,054.18	270.86	4.892		
2,100.00	5,020.67	11,193.93	4,989.00	164.54	148.24	-88.80	4,477.35	-4,673.88	1,370.41	1,108.94	261.46	5.241		
2,200.00	5,021.64	11,193.93	4,989.00	166.82	148.24	-88.80	4,477.35	-4,673.88	1,421.36	1,169.65	251.72	5.647		



TVD Reference:

MD Reference:

North Reference:

Company: Enduring Resources LLC

San Juan County, New Mexico NAD83 NM W Project: Betonnie Tsosie Wash Unit (401, 402 & 732) Reference Site:

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

Well Error: 0.00 ft Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

Grid

Minimum Curvature **Survey Calculation Method:** 2.00 sigma

Output errors are at Database:

Offset TVD Reference:

DT Aug2923v16 Offset Datum

Survey Program: 0-MWD Rule Assigned						gned:		Offset Well Error:	0.00 f					
Reference		Offset			Major Axis		Offset Wellbore Centre		Distance			0		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres	Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)			(ft)	(ft)	(ft)			
0.00	0.00	0.00	0.00	0.00	0.00	71.76	6.22	18.87	19.87					
100.00	100.00	100.00	100.00	0.13	0.13	71.76	6.22	18.87	19.87	19.60	0.27	73.909		
200.00	200.00	200.00	200.00	0.49	0.49	71.76	6.22	18.87	19.87	18.88	0.99	20.157		
300.00	300.00	300.00	300.00	0.85	0.85	71.76	6.22	18.87	19.87	18.17	1.70	11.670		
400.00	400.00	400.00	400.00	1.21	1.21	71.76	6.22	18.87	19.87	17.45	2.42	8.212		
500.00	500.00	500.00	500.00	1.57	1.57	71.76	6.22	18.87	19.87	16.73	3.14	6.335		
600.00	600.00	600.00	600.00	1.93	1.93	71.76	6.22	18.87	19.87	16.02	3.85	5.156		
700.00	700.00	700.00	700.00	2.29	2.29	71.76	6.22	18.87	19.87	15.30	4.57	4.348		
800.00	800.00	800.00	800.00	2.64	2.64	71.76	6.22	18.87	19.87	14.58	5.29	3.758		
900.00	900.00	900.00	900.00	3.00	3.00	71.76	6.22	18.87	19.87	13.87	6.00	3.309		
1,000.00	1,000.00	1,000.50	1,000.45	3.36	3.35	78.52	3.68	18.13	18.51	11.80	6.70	2.761		
1,100.00	1,099.95	1,100.18	1,099.81	3.72	3.68	60.96	-3.84	15.93	14.96	7.57	7.39	2.025		
1,110.67	1,110.61	1,110.70	1,110.27	3.75	3.71	67.24	-4.93	15.62	14.87	7.41	7.46	1.993 L	evel 3<2.00, CC, ES, SF	
1,200.00	1,199.63	1,197.61	1,196.41	4.07	4.01	117.74	-16.00	12.39	23.26	15.24	8.02	2.901		
1,300.00	1,298.77	1,291.50	1,288.76	4.44	4.35	140.42	-32.16	7.66	49.27	40.63	8.64	5.705		
1,400.00	1,397.08	1,380.70	1,375.64	4.82	4.71	148.40	-51.55	2.00	86.38	77.15	9.24	9.352		
1,500.00	1,494.31	1,464.36	1,456.18	5.23	5.07	151.95	-73.24	-4.33	132.49	122.68	9.81	13.507		
1,600.00	1,590.18	1,541.85	1,529.83	5.67	5.44	153.71	-96.34	-11.08	186.57	176.23	10.34	18.048		
1,700.00	1,684.43	1,612.79	1,596.35	6.17	5.80	154.54	-119.98	-17.98	247.80	236.96	10.84	22.863		
1,800.00	1,777.09	1,677.42	1,656.13	6.72	6.16	155.38	-143.58	-24.87	314.94	303.64	11.31	27.856		
1,900.00	1,869.53	1,738.03	1,711.40	7.30	6.52	156.22	-167.46	-31.85	384.87	373.14	11.73	32.813		
2,000.00	1,961.96	1,800.25	1,767.37	7.92	6.91	156.75	-193.54	-39.47	456.78	444.58	12.21	37.426		
2,100.00	2,054.40	1,869.30	1,829.33	8.55	7.37	157.17	-222.79	-48.01	529.08	516.28	12.80	41.339		
2,200.00	2,146.84	1,938.34	1,891.28	9.20	7.84	157.50	-252.05	-56.55	601.38	587.98	13.40	44.875		
2,300.00	2,239.27	2,007.38	1,953.23	9.86	8.32	157.75	-281.30	-65.09	673.70	659.68	14.01	48.076		
2,400.00	2,331.71	2,076.43	2,015.19	10.53	8.81	157.96	-310.55	-73.64	746.01	731.38	14.63	50.976		
2,500.00	2,424.15	2,145.47	2,077.14	11.20	9.31	158.12	-339.80	-82.18	818.34	803.07	15.26	53.614		
2,600.00	2,516.58	2,214.51	2,139.10	11.89	9.81	158.27	-369.05	-90.72	890.66	874.76	15.90	56.021		
2,700.00	2,609.02	2,283.56	2,201.05	12.58	10.32	158.39	-398.31	-99.27	962.99	946.45	16.54	58.218		
2,800.00	2,701.45	2,352.60	2,263.01	13.28	10.84	158.49	-427.56	-107.81	1,035.32	1,018.13	17.19	60.232		
2,900.00	2,793.89	2,421.65	2,324.96	13.98	11.36	158.58	-456.81	-116.35	1,107.65	1,089.81	17.84	62.083		
2 000 00	2 006 22	2 400 60	2 206 04	14.00	11.00	450.66	496.00	124.00	1 170 00	1 161 10	10.50	62.700		
3,000.00	2,886.33	2,490.69	2,386.91	14.68	11.89	158.66	-486.06	-124.90	1,179.98	1,161.48	18.50	63.789		
3,100.00	2,978.76	2,559.73	2,448.87	15.39	12.41	158.73	-515.31	-133.44	1,252.31	1,233.15	19.16	65.362		
3,200.00	3,071.20	2,628.78	2,510.82	16.10	12.94	158.79	-544.57	-141.98	1,324.65	1,304.82	19.82	66.818		
3,300.00 3,400.00	3,163.64 3,256.07	2,697.82 2,766.86	2,572.78 2,634.73	16.81 17.52	13.48 14.01	158.84 158.89	-573.82 -603.07	-150.52 -159.07	1,396.98 1,469.31	1,376.49 1,448.15	20.49 21.16	68.170 69.424		



TVD Reference:

MD Reference:

Offset TVD Reference:

Database:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Reference Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Site Error: 0.00 ft

Reference Well: Betonnie Tsosie Wash Unit 401H

0.00 ft Well Error: Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

North Reference: Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma DT Aug2923v16

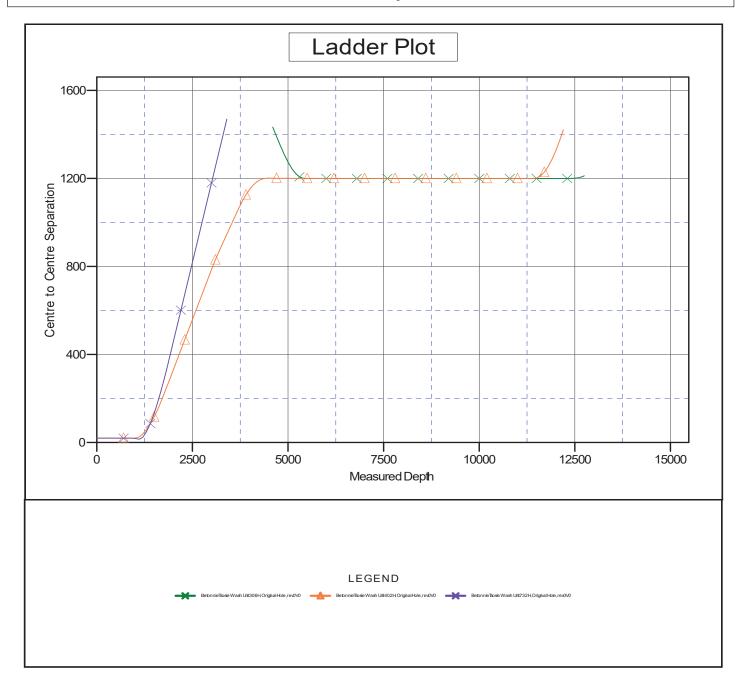
Offset Datum

Reference Depths are relative to RKB=6864+25 @ 6889.00ft

Offset Depths are relative to Offset Datum Central Meridian is -107.833333333

Coordinates are relative to: Betonnie Tsosie Wash Unit (401, 402 & 732) Coordinate System is US State Plane 1983, New Mexico Western Zone

Grid Convergence at Surface is: 0.09°





TVD Reference:

MD Reference:

Company: Enduring Resources LLC

Project: San Juan County, New Mexico NAD83 NM W Reference Site: Betonnie Tsosie Wash Unit (401, 402 & 732)

Site Error:

Reference Well: Betonnie Tsosie Wash Unit 401H

0.00 ft Well Error: Reference Wellbore Original Hole Reference Design: rev0

Local Co-ordinate Reference:

Site Betonnie Tsosie Wash Unit (401, 402 &

RKB=6864+25 @ 6889.00ft RKB=6864+25 @ 6889.00ft

North Reference: Minimum Curvature **Survey Calculation Method:** Output errors are at 2.00 sigma DT Aug2923v16 Database:

Offset TVD Reference:

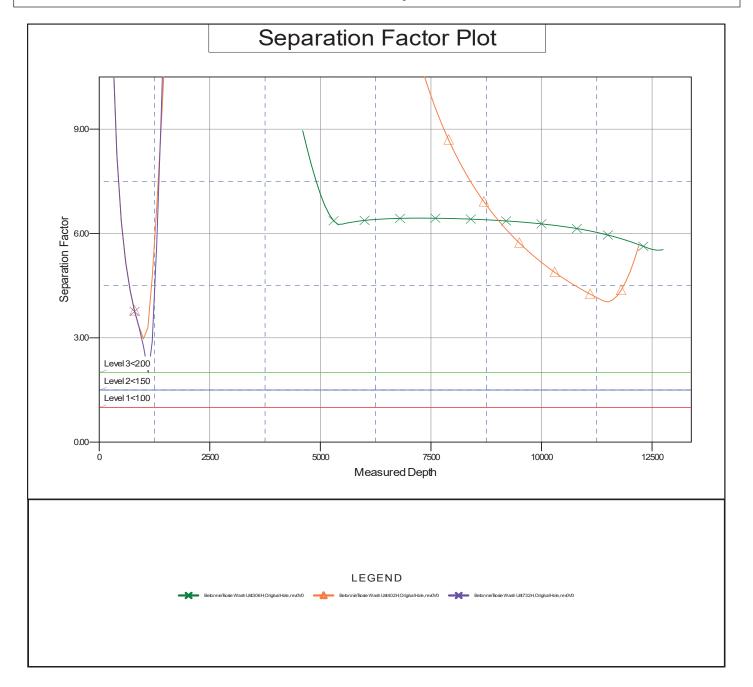
Offset Datum

Reference Depths are relative to RKB=6864+25 @ 6889.00ft

Offset Depths are relative to Offset Datum Central Meridian is -107.833333333

Coordinates are relative to: Betonnie Tsosie Wash Unit (401, 402 & 732) Coordinate System is US State Plane 1983, New Mexico Western Zone

Grid Convergence at Surface is: 0.09°



WELL NAME: BETONNIE TSOSIE WASH UNIT 401H

OBJECTIVE: Drill, complete, and equip single lateral in the Mancos-Gallup formation

API Number: 30-045-38330 AFE Number: Not yet assigned ER Well Number: Not yet assigned

State: New Mexico

County: San Juan

Surface Elev.: 6,864 ft ASL (GL) 6,889 ft ASL (KB)

 Surface Location:
 28-23N-08W
 Sec-Twn- Rng
 1,651
 ft FNL
 461
 ft FEL

 BH Location:
 21-23N-08W
 Sec-Twn- Rng
 725
 ft FNL
 243
 ft FWL

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

South on US Hwy 550 for 39.0 miles to MM 112.7, Right (Southwest) on CR #7900 / IR #7061 for 3.3 miles to 4-way, Left (East) leaving CR

#7900 for 0.6 miles to new access road; Right into to Betonnie Tsosie Wash Unit H28 PAD (from West to East: BTWU 402H, 401H and 732H

wells).

WELL CONSTRUCTION SUMMARY:

	Hole (in)	TD MD (ft)	Csg (in)	Csg (lb/ft)	Csg (grade)	Csg (conn)	Csg Top (ft)	Csg Bot (ft)
Surface	17.500	350	9.625	36	K-55	STC	0	350
Intermediate	12.250	5,400	7	26.0	K-55	LTC	0	5,400
Production	8.500	12,748	4.500	11.6	P-110	BTC	0	12,748

CEMENT PROPERTIES SUMMARY:

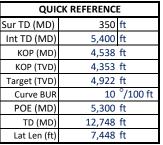
					Hole Cap.		TOC	
	Type	Wt (ppg)	Yd (cuft/sk)	Wtr (gal/sk)	(cuft/ft)	% Excess	(ft MD)	Total (sx)
Surface	TYPE I-II	14.5	1.61	7.41	0.3132	50%	0	114
Inter. (Lead)	III:POZ Blend	12.5	2.14	12.05	0.1668	70%	0	462
Inter. (Tail)	Type III	14.6	1.38	6.64	0.1503	20%	3,986	192
Prod. (Lead)	0	0	0.000	0	0.1044	0%	0	0
Prod. (Tail)	G:POZ blend	13.3	1.560	7.7	0.0873	30%	5,250	620

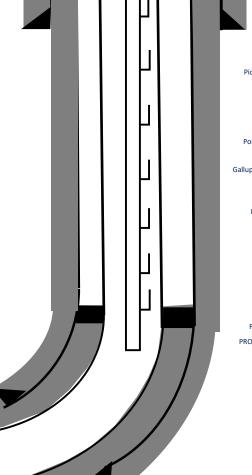
COMPLETION / PRODUCTION SUMMARY:

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





Tops TVD (ft KB) MD (ft KB) Ojo Alamo 664 664 Kirtland 749 749 944 Fruitland 944 Pictured Cliffs 1,309 1,310 Lewis 1,419 1,422 Chacra 1,659 1,673 Cliff House 2,753 2,856 Menefee 2,794 2,873 Point Lookout 3,728 3,906 3.903 4.086 Mancos 4,218 4,403 Gallup (MNCS_A) MNCS B 4,315 4,500 MNCS C 4.408 4,593 MNCS Cms 4,453 4,639 MNCS D 4,770 MNCS E 4.704 4.916 MNCS F 4,755 4,983 MNCS G 4.833 5,106 MNCS H 4.887 5,213 MNCS I 4,935 5,341 FTP TARGET 4,922 5,300 PROJECTED TD 5,027 12.748

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:DJR Operating	g, LLC	OGRII	D: 371838	D	ate: _1_/_29_/	_2024_
II. Type: □ Original ⊠ Ame	ndment due to [□ 19.15.27.9.D(6))(a) NMAC □ 19.15.2′	7.9.D(6)(b) NM	IAC ⊠ Other.	
If Other, please describe:	Change to Orig	inal APD				
III. Well(s): Provide the follow be recompleted from a single w				et of wells prop	osed to be dril	led or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Betonnie Tsosie Wash Unit 401H	30-045-38330	H-28-23N-08W	1651 FNL x 461 FEL	423	538	150
Betonnie Tsosie Wash Unit 402H	30-045-38331	H-28-23N-08W	1657 FNL x 479 FEL	345	439	123
Betonnie Tsosie Wash Unit 732H	30-045-38332	H-28-23N-08W	1645 FNL x 442 FEL	289	368	103
IV. Central Delivery Point Na	ıme:	Chaco Processin	g Plant		[See 19.15.27.9	P(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Betonnie Tsosie Wash Unit 401H	30-045-38330	02/19/2024	02/29/2024	09/15/2024	09/25/2024	09/27/2024
Betonnie Tsosie Wash Unit 402H	30-045-38331	02/27/2024	03/08/2024	09/15/2024	09/27/2024	09/29/2024
Betonnie Tsosie Wash Unit 732H	30-045-38332	03/06/2024	03/16/2024	09/15/2024	09/29/2024	09/31/2024

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VIII. Best Management Practices:

 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Page 1 of 4

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
			Start Date	of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural	gas gathering system 🗆 w	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or portion, of t	the
natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s	s).

」Attach Operator's plan to manage pro	duction in response to t	the increased lii	ne pressure
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XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for	the information provided in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC and attaches a full description	n of the specific information
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: 🗵 Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system: or ☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. If Operator checks this box, Operator will select one of the following: Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or Venting and Flaring Plan.

Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including: power generation on lease; (a) power generation for grid; (b) compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h) other alternative beneficial uses approved by the division. (i)

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Shaw-Marie Ford
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrllc.com
Date: 01/29/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-08W

SEPARATION EQUIPMENT

DJR Operating, LLC (DJR) has pulled representative pressurized samples from wells in the same producing formation. DJR has utilized these samples in process simulations to determine the amount of gas anticipated in each stage of the process and utilized this information with a safety factor to size the equipment listed below:

Separation equipment will be set as follows:

- o Individual 3-phase separator will be set for the individual well.
- The separator will be sized based on the anticipated volume of the well and the pressure of the lines utilized for oil, gas, and water takeaway.
- o The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- o Individual heater treaters will be set for the individual well.
- o The heater treaters are sized based on the anticipated combined volume of oil and produced water predicted to come from the initial 3-phase separator.
- Oil will be separated from the produced water and the oil/produced water will be sent to its respective tanks.
- o The combined oil and natural gas stream is routed to the Vapor Recovery Tower.

Vapor Recovery Equipment will be set as follows:

- The Vapor Recovery Tower has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks.
- The Vapor Recovery Unit has been sized, based on the anticipated volume of gas from the heater treater and oil and water tanks. The Vapor Recovery Unit is utilized to push the recovered gas into the sales pipeline.

Production storage tanks will be set as follows:

- The oil and produced water tanks utilize a closed vent capture system to ensure all breathing, working, and flashing losses are routed to the Vapor Recovery Tower and Vapor Recovery Unit.
- Each of the production storage tanks will be equipped with a 0.5 MMBtu/hr indirect heater.

1 Road 3263 Aztec, NM 87410



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-08W

VENTING and FLARING

DJR Operating, LLC (DJR) has a natural gas system available prior to startup of completion operations. DJR utilizes a Vapor Recovery Unit System and sells all natural gas except during periods of startup, shutdown, maintenance, or malfunction for the gas capturing equipment, including the vapor recovery tower, vapor recovery unit, storage tanks, and pipelines.

Currently, DJR utilizes the following from list A-I of Section 3 for its operations to minimize flaring:

- a) DJR utilizes natural gas-powered generators to power its leases where grid power isn't available.
- b) When electrical grid power is unavailable, natural gas generators will be used for major equipment onsite.
- c) DJR's in service compression will be natural gas powered.
- d) Should liquids removal, such as dehydration be required, units will be powered by natural gas.

DJR will only flare gas during the following times:

- o Scheduled maintenance for gas capturing equipment including:
 - Vapor Recovery Tower
 - o Vapor Recovery Unit
 - Storage tanks
 - o Pipelines
 - o Emergency flaring



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 401H, 402H, 732H
SENE H-28-23N-08W

OPERATIONAL PRACTICES

19.15.27.8 A. Venting and Flaring of Natural Gas

DJR Operating, LLC (DJR) understands the requirements of NMAC 19.15.27.8 which states that the venting and flaring of natural gas during drilling, completion or production that constitutes waste as defined in 19.15.2 are prohibited.

19.15.27.8 B. Venting and flaring during drilling operations

- o DJR shall capture or combust natural gas if technically feasible during drilling operations using best industry practices.
- A flare stack with a 100% capacity for expected volumes will be set on location of the facility at least 100 feet from the nearest surface hole location, well heads, and storage tanks.
- o In the event of an emergency, DJR will vent natural gas in order to avoid substantial impact. DJR shall report the vented or flared gas to the NMOCD.

19.15.27.8 E. Venting and flaring during completion or recompletion operations

During Completion Operations, DJR utilizes the following:

- o DJR facilities are built and ready from day 1 of Flowback.
- o Individual well test separators will be set to properly separate gas and liquids. Temporary test separator will be utilized initially to process volumes. In addition, separators will be tied into flowback tanks which will be tied into the gas processing equipment for sales down a pipeline. See Separation Equipment for details.
- Should the facility not yet be capable of processing gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or temporary flare to manage natural gas. This flare would meet the following requirements:
 - 1) An appropriately sized flare stack with an automatic igniter.
 - 2) DJR analyzes the natural gas samples twice per week.
 - 3) DJR routes the natural gas into a gathering pipeline as soon as the pipeline specifications are met.
 - 4) DJR provides the NMOCD with pipeline specifications and natural gas data.

1 Road 3263 Aztec, NM 87410



19.15.27.8 D. Venting and flaring during production operations

During Production Operations DJR will not vent or flare natural gas except under the following circumstances:

- 1. During an emergency or malfunction
- 2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided:
 - a. DJR does not vent after the well achieves a stabilized rate and pressure.
 - b. DJR will remain present on-site during liquids unloading by manual purging and tall all reasonable actions to achieve a stabilized rate and pressure at the earliest practical time.
 - c. DJR will optimize the system to minimize natural gas venting on any well equipped with a plunger lift or auto control system.
 - d. Best Management Practices will be used during downhole well maintenance.
- 3. During the first year of production from an exploratory well provided:
 - a. DJR receives approval from the NMOCD.
 - b. DJR remains in compliance with the NM gas capture requirements.
 - c. DJR submits an updated C-129 form to the NMOCD.
- 4. During the following activities unless prohibited:
 - a. Gauging or sampling a storage tank or low-pressure production vessel.
 - b. Loading out liquids from a storage tank.
 - c. Repair and maintenance.
 - d. Normal operation of gas activated pneumatic controller or pump.
 - e. Normal operation of a storage tank but not including venting from a thief hatch.
 - f. Normal operation of dehydration units.
 - g. Normal operations of compressors, compressor engines, turbines, valves, flanges, and connectors.
 - h. During a bradenhead, packer leakage test, or production test lasting less than 24-hours.
 - i. When natural gas does not meet the gathering pipeline specifications.
 - j. Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities.

19.15.27.8 E. Performance standards

- 1. DJR has utilized process simulations with a safety factor to design all separation and storage equipment. The equipment is routed to a Vapor Recovery System and utilizes a flare as back up for periods of startup, shutdown, maintenance, or malfunction of the VRU System.
- 2. DJR will install a flare that designed to handle the full volume of vapors from the facility in case of the VRU failure and it its designed with an auto ignition system.
- 3. Flare stacks will appropriately sized and designed to ensure proper combustion efficiency.

1 Road 3263 Aztec, NM 87410



- a. Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.
- b. Previously installed flare stacks will be retrofitted with an automatic ignitor, continuous pilot, or technology that alerts DJR of flare malfunction within 18 months after May 25, 2021.
- c. Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if located at a well or facility with average daily production of 60,000 cubic feet of natural gas or less.
- d. Flare stacks will be located at least 100 feet from the well and storage tanks and securely anchored.
- 4. DJR will conduct an AVO inspection on all components for leaks and defects on a weekly basis.
- 5. DJR will make and keep records of AVO inspections which will be available to the NMOCD for at least 5 years.
- 6. DJR may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
- 7. Facilities will be designed to minimize waste.
- 8. DJR will resolve emergencies as promptly as possible.

19.15.27.8 F. Measurement or estimation of vented and flared natural gas

- 1. DJR will have meters on both the low- and high-pressure sides of the flares and the volumes will be recorded in DJR's SCADA system.
- 2. DJR will install equipment to measure the volume of flared natural gas that has an average daily production of 60,000 cubic feet or greater of natural gas.
- 3. DJR's measuring equipment will conform to the industry standards.
- 4. The measurement system is designed such that it cannot be bypassed except for inspections and servicing meters.
- 5. DJR will estimate the volume of vented or flared natural gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
- 6. DJR will estimate the volume of flared and vented natural gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on Form C-116.
- 7. DJR will install measuring equipment whenever the NMOCD determines that metering is necessary.



DJR OPERATING, LLC.
OGRID NO: 371838
NATURAL GAS MANAGEMENT PLAN
Betonnie Tsosie Wash Unit 305H, 306H, 721H
NWNE B-21-23N-08W

BEST MANAGEMENT PRACTICES

DJR Operating, LLC (DJR) utilizes the following Best Management Practices to minimize venting during active and planned maintenance.

DJR has a closed vent capture system to route emissions from the heater treater, tanks, and vapor recovery to the vapor recovery unit with an enclosed combustion device (ECD) for backup. The system is designed such that if the vapor recovery unit is taken out of service for any reason, the vapors will be routed to the ECD for combustion.

DJR will isolate and attempt to route all vapors to the vapor recovery unit or ECD prior to opening any lines for maintenance to minimize venting from the equipment.

DJR shall notify the NMOCD of venting or flaring that exceeds 50 MCF but less than 500 MCF in volume that either resulted from an emergency or malfunction, or an event lasting over eight hours or more cumulatively within any 24-hour period from a single event by filing a form C-129 no later than 15 days following the discovery or commencement of venting or flaring.

DJR shall notify the NMOCD verbally or by e-mail within 24-hours following discovery or commencement of venting or flaring that exceeds 500 MCF in volume or otherwise qualifies as a major release as defined in 19.15.29.7 NMAC from a single event and provide the information required in form C-129 to the NMOCD no later than 15 days that verifies, updates, or corrects the verbal or e-mail notification.

DJR will install measuring equipment to conform to industry standards such as American Petroleum Institute (API) Manual of Petroleum Measurement Standards (MPMS) Chapter 14.10 Measurement of Flow to Flares.

DJRs measuring equipment shall not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

DJR shall report the volume of vented and flared natural gas for each well or facility at which venting or flaring occurred on a monthly basis.

1 Road 3263 Aztec, NM 87410



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Farmington District Office 6251 College Blvd, Suite A Farmington, New Mexico 87402

In Reply Refer To: 3162.3-1(NMF0110)

DJR Operating, LLC

#401H Betonnie Tsosie Wash Unit

Lease: NMNM50999 Unit:NMNM135219A

SH: SE¹/₄NE¹/₄ Section 28, T.23 N., R.8 W.

BH: NW1/4NW1/4 Section 21, T.23 N., R.8 W.

San Juan County, New Mexico

*Above Data Required on Well Sign

GENERAL REQUIREMENTS FOR OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

The following special requirements apply and are effective when **checked**:

A. Note all surface/drilling conditions of approval attached.
B. The required wait on cement (WOC) time will be a minimum of 500 psi compressive strength at 60 degrees. Blowout preventor (BOP) nipple-up operations may then be initiated
C. Test the surface casing to a minimum of psi for 30 minutes.
D. X Test all casing strings below the surface casing to .22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield burst) for a minimum of 30 minutes.
E. Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the Bureau of Land Management, Farmington District Office, Branch of Reservoir Management, 6251 College Blvd. Suite A, Farmington, New Mexico 87402. The effective date of the agreement must be prior to any sales.

INTERIOR REGION 7 • UPPER COLORADO BASIN

COLORADO, NEW MEXICO, UTAH, WYOMING

Released to Imaging: 2/6/2024 1:46:28 PM Approval Date: 11/07/2023

- F. \(\sum \) The use of co-flex hose is authorized contingent upon the following:
 - **1.** From the BOP to the choke manifold: the co-flex hose must be hobbled on both ends and saddle to prevent whip.
 - **2.** From the choke manifold to the discharge tank: the co-flex hoses must be as straight as practical, hobbled on both ends and anchored to prevent whip.
 - **3**. The co-flex hose pressure rating must be at least commensurate with approved BOPE.

I. GENERAL

- A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors. Failure to comply with these requirements and the filing of required reports will result in strict enforcement pursuant to 43 CFR 3163.1 or 3163.2.
- B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or Allotted, (See 43 CFR 3162.6(b)).
- C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.
- E. As soon as practical, notice is required of all blowouts, fires and accidents involving lifethreatening injuries or loss of life. (See NTL-3A).
- F. Prior approval by the BLM-Authorized Office (Drilling and Production Section) is required for variance from the approved drilling program and before commencing plugging operations, plug back work casing repair work, corrective cementing operations, or suspending drilling operations indefinitely. Emergency approval may be obtained orally, but such approval is contingent upon filing of a notice of intent (on a Sundry Notice, Form 3160-5) within three business days (original and three copies of Federal leases and an original and four copies on Indian leases). Any changes to the approved plan or any questions regarding drilling operations should be directed to BLM during regular business hours at 505-564-7600. Emergency program changes after hours should be directed to at Virgil Lucero at 505-793-1836.
- G. The Inspection and Enforcement Section (I&E), phone number (505-564-7750) is to be notified at least 24 hours in advance of BOP test, spudding, cementing, or plugging operations so that a BLM representative may witness the operations.
- H. Unless drilling operations are commenced within two years, approval of the Application for Permit to Drill will expire. A written request for a two years extension may be granted if submitted prior to expiration.
- I. From the time drilling operations are initiated and until drilling operations are completed, a member of the drilling crew or the tool pusher shall maintain rig surveillance at all time, unless the well is secured with blowout preventers or cement plugs.

J. If for any reason, drilling operations are suspended for more than 90 days, a written notice must be provided to this office outlining your plans for this well.

II. REPORTING REQUIREMENTS

- A. For reporting purposes, all well Sundry notices, well completion and other well actions shall be referenced by the appropriate lease, communitization agreement and/or unit agreement numbers.
- B. The following reports shall be filed with the BLM-Authorized Officer within 30 days after the work is completed.
 - 1 .Original and three copies on Federal and an Original and five copies on Indian leases of Sundry Notice (Form 3150-5), giving complete information concerning.
 - a. Setting of each string of casing. Show size and depth of hole, grade and weight of casing, depth set, depth of any and all cementing tools that are used, amount (in cubic feet) and types of cement used, whether cement circulated to surface and all cement tops in the casing annulus, casing test method and results, and the date work was done. Show spud date on first report submitted.
 - b. Intervals tested, perforated (include; size, number and location of perforations), acidized, or fractured; and results obtained. Provide date work was done on well completion report and completion sundry notice.
 - c. Subsequent Report of Abandonment, show the manner in which the well was plugged, including depths where casing was cut and pulled, intervals (by depths) where cement plugs were replaced, and dates of the operations.
 - 2. Well Completion Report (Form 3160-4) will be submitted with 30 days after well has been completed.
 - a. Initial Bottom Hole Pressure (BHP) for the producing formations. Show the BHP on the completion report. The pressure may be: 1) measured with a bottom hole bomb, or; 2) calculated based on shut in surface pressures (minimum seven day buildup) and fluid level shot.
 - 3. Submit a cement evaluation log, if cement is not circulated to surface.

III. DRILLER'S LOG

The following shall be entered in the daily driller's log: 1) Blowout preventer pressures tests, including test pressures and results. 2) Blowout preventer tests for proper functioning, 3) Blowout prevention drills conducted, 4) Casing run, including size, grade, weight, and depth set, 5) How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc., 6) Waiting on cement time for each casing string, 7) Casing pressure tests after cementing, including test pressure and results and 8) Estimated amounts of oil and gas recovered and/or produced during drill stem test.

IV. GAS FLARING

Gas produced from this well may not be vented or flared beyond an initial, authorized test period of * Days or 50 MMCF following its (completion)(recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted. You shall be required to compensate the lessor for the portion of the gas vented or flared without approval which is determined to have been avoidably lost.

*30 days, unless a longer test period is specifically approved by the authorized officer. The 30-day period will commence upon the first gas to surface.

V. SAFETY

- A. All rig heating stoves are to be of the explosion-proof type.
- B. Rig safety lines are to be installed.
- C. Hard hats and other Personal Protective Equipment (PPE) must be utilized.

VI. CHANGE OF PLANS OR ABANDONMENT

- A. Any changes of plans required in order to mitigate unanticipated conditions encountered during drilling operations, will require approval as set forth in Section 1.F.
- B. If the well is dry, it is to be plugged in accordance with 43 CFR 3162.3-4, approval of the proposed plugging program is required as set forth in Section 1.F. The report should show the total depth reached, the reason for plugging, and the proposed intervals, by depths, where cement plugs are to be placed, type of plugging mud, etc. A Subsequent Report of Abandonment is required as set forth in Section II.B.1c.
- C. Unless a well has been properly cased and cemented, or properly plugged, the drilling rig must not be moved from the drill site without prior approval from the BLM-Authorized Officer.

VII. PHONE NUMBERS

- A. For BOPE tests, cementing, and plugging operations the phone number is 505-564-7750 and must be called 24 hours in advance in order that a BLM representative may witness the operations.
- B. Emergency program changes after hours contact:

Virgil Lucero (505) 793-1836 BLM 24 Hour Number (505) 564-7750

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 308841

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
1 Road 3263	Action Number:
Aztec, NM 87410	308841
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikal	All original COA's still apply. Additionally, if cement is not circulated to surface during cementing, then a CBL is required.	2/6/2024