Received by NCD: 5/31/2024 10:51:40 AM U.S. Department of the Interior		Sundry Print Reports 01/31/2024
BUREAU OF LAND MANAGEMENT		and the second
Well Name: BETONNIE TSOSIE WASH UNIT	Well Location: T23N / R8W / SEC 21 / NWNE /	County or Parish/State:
Well Number: 305H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM076842	Unit or CA Name:	Unit or CA Number: NMNM135219A
US Well Number:	Well Status: Approved Application for Permit to Drill	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2772601

Type of Submission: Notice of Intent

Date Sundry Submitted: 01/30/2024

Date proposed operation will begin: 01/30/2024

Type of Action: APD Change Time Sundry Submitted: 03:51

Procedure Description: Original APD approved on 11/7/2023. The subject well has been assigned US Well Number: 30-045-38327 and is located in DJRs undivided Betonnie Tsosie Wash Unit. Original plans were to drill a 9200-ft lateral. DJR is seeking approval to shorten the lateral to 8120-ft, changing the proposed depth from 5008 / 14641 to 4960 / 13103, adjusting the BHL & reducing the dedicated acres from 640 to 520. Attached please find updated C102, revised drilling plan with new casing/cement assumptions, and revised directional design. Please note: effective December 21, 2023, Enduring Resources, LLC and DJR Operating, LLC are wholly owned subsidiaries of Enduring Resources, LLC. Leases, rights of way, wells, and other property interests will continue to be held in their current entity names.

NOI Attachments

Procedure Description

305H_NOI_Change_to_APD_BLM_Rev1_20240130155118.pdf

Received by OCD: 1/31/2024 19:51:40 AM Well Name: BETONNIE TSOSIE WASH UNIT	Well Location: T23N / R8W / SEC 21 / NWNE /	County or Parish/State: Page 2 of
Well Number: 305H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM076842	Unit or CA Name:	Unit or CA Number: NMNM135219A
US Well Number:	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

Operator Electronic Signature: SHAW-MARIE FORD

Signed on: JAN 30, 2024 03:51 PM

Name: DJR OPERATING LLC

Title: Regulatory Specialist

Street Address: 1 ROAD 3263

City: AZTEC

State: NM

State:

Phone: (505) 632-3476

Email address: SFORD@DJRLLC.COM

Field

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

BLM Point of Contact

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

Zip:

Disposition Date: 01/31/2024

DISTRICT I

.

Form C-102 Revised August 1, 2011

 Interface
 Interface

 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: (576) 748-9720

 DISTRICT III

 1000 Rio Brazos Rd., Aztec, N.M. 87410

 Phone: (505) 334-6178

 Fax: (505) 334-6176

 DISTRICT IV

 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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505 Submit one copy to appropriate District Office

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	Number 5-38327	7		² Pool Code 98175			BETONNI	E TS	³ Pool Name ISOSIE WASH UNIT MANCOS OIL POOL				
⁴ Property Co	ode				⁵ Prc	operty N	lame					^e We	ll Number
325179				BET			WASH UNI	т					305H
⁷ OGRID No					⁸ Ope	erator N	lame					⁹ Elevation	
371838					DJR OP	'ERATII	NG, LLC	6837					6837'
					¹⁰ Surf	face	Location						
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South	line	Feet fr	om the	East/We	st line	County
В	21	23N	8W		406'	,	NORTH		20	059'	EA	ST	SAN JUAN
			¹¹ Bot	ttom Hole	Locati	ion If	Differen	t Fro	om Su	Irface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South			rom the	East/We	st line	County
В	27	23N	8W		306'	,	NORTH		2:	236'	EA	AST	SAN JUAN
¹² Dedicated Acre SEC 21: NE/4 &		ATED SPACING		³ Joint or Infill	¹⁴ Consolid	lation C	ode		¹⁵ Order	No.			1
SW/NW, SW/4 & NE/NW & NW/N	& SŴ/SE (240 AC.); SEC	27:						F	R-1393	0 R-	13930A	4
NO ALLOW	ABLE W											EEN CC	NSOLIDATED
16		OR A NO	ON-S'	TANDARD U	JNIT HA	AS BE	EN APPR	OVED	BYI	HE DIV	/ISION		
	BA	SIS OF BEARIN	NGS						18	17 OPE	RATOR	CERTI	FICATION
N 89°19'W 2652.73'(R)	N 89°24'		652.73	'(M)	1		;	1					contained herein is
2032.73 (R)	Por	2133'						🖨 FN	D 214" BC	and that thi	s organizatio	on either own:	knowledge and belief, s a working interest
	SH	IL 2059'						GL	.0 1947	proposed bot	tom hole loco	ation or has d	and including the a right to drill this
	SEE DE	TAIL	Ξ							of such a m	ineral or wo	rking interest	ntract with an owner , or to a voluntary
+-	- — - ·	— — +` 、	°−∽∰		<u>'</u> .		+ +				ement or a c itered by the	compulsory po division.	oling order
			3.03	۲) ۲						54.	JAA -	is Ford	4/20/24
	۱ <u>۱</u> ۰۰	NMNM 0768	42 42	.96	NMNM 0	150999				Signatu		u i ora	2 1/30/24 Date
<u>⊢</u> — −	- 21			25 <u> </u>	22	<u>2</u>				0	-Marie	Ford	
	1		≥	X X TOP						Printed		Folu	
			^	2 X7. [0 2 12.11	7,					_	@djrllc	com	
+-		+	2	<u></u>		////	/NM 136161 + — — -	ł			Address	.00111	
SURFACE LOC		•	02.05		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				ſ	S	URVEY	OR CEF	RTIFICATION
406' FNL 2 SEC. 21, T2	3N, R8W		z		°.	5000 4				I hereby cer	rtify that th	e well locatio	on shown on this
LAT. 36.218747* LONG. 107.68528		3)		N 89°45'0		5266.1	9'(M)					-	actual surveys made I that the same is
PPP/PC	DE	~		N 89'38 5272.08	'(R)		2236'	╣			rrect to the	best of my b	belief.
235' FNL 2 SEC. 21, T2		V				DITE				Date of S		CH 15, 20	21
LAT. 36.219221* LONG. 107.68556				+	<u></u>	· <u> </u>	<u> </u>					of Profession	al Surveyor:
BOTTOM HOLE LOO		·					+ 	N 0°06' 2641.32'					
306' FNL 2 SEC. 27, T2	236' FEL	-0			NMNM 12	20376	1 0C 264	26, N			O BF	ROADHI	N
LAT. 36.204333° LONG. 107.66744	N (NAD83)				<u> </u>	7	∽ z	┟		/	2	MEY	E.V
LONG: 107.00744		DETAIL			×_'	,		Ť		1	514	H-98	Setto
	SEC	TION LINE								1	Jun D	393	77
20 St		2133'		Ţ						F	IN	1	1 K
POE										13	01/1	1/2024	2
SHL XX		2059'									22		
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	1	1								Certifica	te Number		11393

Released to Imaging: 2/6/2024 2:56:32 PM



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

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

WELL INFORMATION:

Name:	BETONNIE TS	SOSIE WASH U	NIT 305H		
API Number:	30-045-38327				
State:	New Mexico				
County:	San Juan				
Surface Elevation:	6,837	ft ASL (GL)	6,862	ft ASL (KB)	
Surface Location:	21-23N-08W	Sec-Twn-Rng	406	ft FNL	2,059 ft FEL
	36.218747	$^{\circ}$ N latitude	107.685288	$^{\circ}$ W longitude	(NAD 83)
BH Location:	27-23N-08W	Sec-Twn-Rng	306	ft FNL	2,236 ft FEL
	36.204333	$^{\circ}$ N latitude	107.667447	$^{\circ}$ W longitude	(NAD 83)
Driving Directions:	FROM THE INT	TERSECTION OF	US HWY 550	& US HWY 64 IN BLOO	DMFIELD, NM:

South on US Hwy 550 for 39.0 miles to MM 112.7, Right (Southwest) on CR #7900 / IR #7061 for 1.7 miles to 4-way, Left (East) leaving CR #7900 for 0.5 miles to new access road; Right for .1 miles into to Betonnie Tsosie B21 PAD (from North to South: BTU 721H, 305H and 306H wells).

GEOLOGIC AND RESERVOIR INFORMATION:

Prognosis:	Formation Tops	TVD (ft ASL)	TVD (ft KB)	MD (ft KB)	O/G/W	Pressure
	Ojo Alamo	6,100	762	762	W	normal
	Kirtland	6,030	832	832	W	normal
	Fruitland	5,842	1,020	1,020	G, W	sub
	Pictured Cliffs	5,489	1,373	1,375	G, W	sub
	Lewis	5,357	1,505	1,511	G, W	normal
	Chacra	5,119	1,743	1,760	G, W	normal
	Cliff House	4,026	2,836	2,903	G, W	sub
	Menefee	3,996	2,866	2,934	G, W	normal
	Point Lookout	3,080	3,782	3,891	G, W	normal
	Mancos	2,877	3,985	4,098	0,G	sub (~0.38)
	Gallup (MNCS_A)	2,562	4,300	4,413	0,G	sub (~0.38)
	MNCS_B	2,466	4,396	4,509	0,G	sub (~0.38)
	MNCS_C	2,384	4,478	4,592	0,G	sub (~0.38)
	MNCS_Cms	2,339	4,523	4,637	O,G	sub (~0.38)
	MNCS_D	2,209	4,653	4,773	0,G	sub (~0.38)
	MNCS_E	2,081	4,781	4,925	0,G	sub (~0.38)
	MNCS_F	2,031	4,831	4,993	O,G	sub (~0.38)
	MNCS_G	1,961	4,901	5,106	0,G	sub (~0.38)
	MNCS_H	1,912	4,950	5,207	0,G	sub (~0.38)
	MNCS_I	1,862	5,000	4,346	0,G	sub (~0.38)
	FTP TARGET	1,574	5,288	4,983	O,G	sub (~0.38)
	PROJECTED TD	1,902	4,960	13,103	O,G	sub (~0.38)

Surface: Nacimiento

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

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

	Max. pressure gradient:	0.43	psi/ft	Evacuated hole gradient:	0.22	psi/ft	
	Maximum anticipated BH press	ure, assu	ming maximu	um pressure gradient:	2,280	psi	
	Maximum anticipated surface p	oressure, a	assuming par	tially evacuated hole:	1,120	psi	
turo	• Maximum anticipated BHT is 1						

Temperature: Maximum anticipated BHT is 125° F or less

H₂S INFORMATION:

 H_2S 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 minimize the amount of fluids and solids that require disposal.
 - Fluid Disposal: Fluids that cannot be reused, recycled, or returned to the supplier will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).
 - Solids Disposal: Drilling solids will be stored (until haul-off) on-site in separate containers with no other waste, debris, or garbage products. Waste solids will be hauled to and disposed of at an approved disposal site (Industrial Ecosystem, Inc. or Envirotech, Inc.).

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

DETAILED DRILLING PLAN:

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

<u>-</u>	SURFACE:			ng depth (plus				-	
		0	ft (MD)	to	350	ft (MD)	Hole S	ection Length:	350 ft
		0	ft (TVD)	to	350	ft (TVD)	Ca	sing Required:	350 ft
				FL		YP			
	Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Com	ments
		Fresh Water	8.4	N/C	2 - 8	2 - 12	9.0	Spuc	l mud
	Hole Size:	12-1/4"							
В	it / Motor:	Mill Tooth or F	DC, no motor						
MW) / Survey:	No MWD, devi	iation survey						
	Logging:	None							
								Tens. Body	Tens. Conn
Cas	sing 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	1,072	110,988	110,988
	Min. S.F.					13.21	3.28	5.08	3.81
		Assumptions:	Collapse: fully	evacuated casi	ng with 8.4 pp	g equivalent ext	ernal pressure	gradient	•
			Burst: maximu	im anticipated s	surface pressur	re with 9.5 ppg	fluid inside cas	ing while drillin	ng
			intermediate l	nole and 8.4 pp	g equivalent ex	ternal pressure	gradient		
			Tension: buoy	ed weight in 8.4	1 ppg fluid with	n 100,000 lbs ov	er-pull		
MU Torq	ue (ft lbs):	Minumum:	N/A	Optimum:	N/A	Maximum:	N/A		
ſ			Yield	Water	Hole Cap.		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	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
L		Calculated cen	nent volumes a	issume gauge h	ole and the exe	cess noted in ta	ble	Csg ID	8.921
		Mesa Ready M					Shoe Track L	44	
		,				• •			

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

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

	350	ft (MD)	to	5 <i>,</i> 388	ft (MD)	Hole Se	ection Length:	5,038 ft
	350	ft (TVD)	to	5,009	ft (TVD)	Cas	sing Required:	5,388 ft
-								
			FL		YP			
Fluid:	Туре	MW (ppg)	(mL/30 min)	PV (cp)	(lb/100 sqft)	рН	Com	ments
	LSND (KCI)	8.8 - 9.5	20	8 - 14	8 - 14	9.0 - 9.5	No	OBM
Hole Size: 8	3.75							
Bit / Motor: 8	3-3/4" PDC bit	w/mud motor						
MWD / Survey: N	MWD Survey v	with inclination	and azimuth su	urvey (every 10	00' at a minimu	n), GR optional	I	
Logging: N	None							
Γ								
							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					2,188	1,407	222,164	222,164
Min. S.F.					1.97	3.54	1.87	1.65
	Assumptions:	Collapse: fully	evacuated casi	ng with 8.4 pp	g equivalent ext	ernal pressure	gradient	
		Burst: maximu	im anticipated s	surface pressu	re with 9.5 ppg	fluid inside casi	ing while drilli	ng production
		hole and 8.4 p	pg equivalent e	xternal pressu	re gradient			
		Tension: buoy	ed weight in 8.4	1 ppg fluid with	n 100,000 lbs ov	er-pull		
/IU Torque (ft lbs):	Minumum:	3,400	Optimum:	4,530	Maximum:	5,660		
			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	Weight (ppg)	Yield (cuft/sk)	Water (gal/sk)	% Excess	Planned TOC (ft MD)	Total Cmt (sx)	Total Cmt (cu ft)
	Type III:POZ Blend	Weight (ppg) 12.5			% Excess 70%			-
			(cuft/sk)	(gal/sk)		(ft MD)	(sx)	ft)
Lead	III:POZ Blend Type III	12.5 14.6	(cuft/sk) 2.140	(gal/sk) 12.05 6.64	70% 20%	(ft MD) 0 3,998	(sx) 463	ft) 991 260
Lead Tail	III:POZ Blend Type III 0.16681	12.5 14.6	(cuft/sk) 2.140 1.380	(gal/sk) 12.05 6.64 /8" casing ann	70% 20% ulus	(ft MD) 0 3,998	(sx) 463 189	ft) 991

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

<u>PRODUCTION</u>: Drill to TD following directional plan, run casing, cement casing to surface.

	U		0,	0			
5,388	ft (MD)	to	13,103	ft (MD)	Hole S	ection Length:	7,715 ft
5,009	ft (TVD)	to	4,960	ft (TVD)	Ca	sing Required:	7,865 ft
		Estimated KOP:	4,528	ft (MD)	4,415	ft (TVD)	
	Esti	mated Liner Top:	5,238	ft (MD)	4,964	ft (TVD)	
E	stimated Lan	ding Point (FTP):	4,983	ft (MD)	5,288	ft (TVD)	
	Estimate	d Lateral Length:	8,120	ft (MD)			
	5,009	Estimated Lan	5,009 ft (TVD) to	5,388 ft (MD) to 13,103 5,009 ft (TVD) to 4,960 Estimated KOP: 4,528 Estimated Liner Top: 5,238 Estimated Landing Point (FTP): 4,983	5,388 ft (MD) to 13,103 ft (MD) 5,009 ft (TVD) to 4,960 ft (TVD) Estimated KOP: 4,528 ft (MD) Estimated KOP: 4,528 ft (MD) Estimated Liner Top: 5,238 ft (MD) Estimated Landing Point (FTP): 4,983 ft (MD)	5,388 ft (MD) to 13,103 ft (MD) Hole S 5,009 ft (TVD) to 4,960 ft (TVD) Car Estimated KOP: 4,528 ft (MD) 4,415 Estimated Liner Top: 5,238 ft (MD) 4,964 Estimated Landing Point (FTP): 4,983 ft (MD) 5,288	5,388 ft (MD) to 13,103 ft (MD) Hole Section Length: 5,009 ft (TVD) to 4,960 ft (TVD) Casing Required: Estimated KOP: 4,528 ft (MD) 4,415 ft (TVD) Estimated Liner Top: 5,238 ft (MD) 4,964 ft (TVD) Estimated Landing Point (FTP): 4,983 ft (MD) 5,288 ft (TVD)

Туре	MW (ppg)	FL (mL/30')	PV (cp)	YP (lb/100 sqft)	рН	Comments	Comments
	87.00	NC	120	+2	0.0.5	prodwator	OBM as contingency
	Туре WBM				Type MW (ppg) FL (mL/30') PV (cp) (lb/100 sqft)	Type MW (ppg) FL (mL/30') PV (cp) (lb/100 sqft) pH	Type MW (ppg) FL (mL/30') PV (cp) (lb/100 sqft) pH Comments

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

Liner/Casing Specs:	Size (in)	Wt (lb/ft)	Grade	Conn.	Collapse (psi)	Burst (psi)	Tens. Body (lbs)	Tens. Conn (lbs)
Specs	· /	11.6	P-110	BTC	7,560	10,690	367,000	385,000
Loading					2,450	8,784	231,158	231,158
Min. S.F.					3.09	1.22	1.59	1.67

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

Assumptions:

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

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

MU Torque (ft lbs):	Minimum:	BTC	Optimum:	BTC	Maximum:	BTC		
			Yield	Water		Planned TOC	Total Cmt	Total Cmt (cu
Cement:	Туре	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%	5,238	649	1,012
Displacement	174	est bbls						
Annular Capacity	0.1044	cuft/ft	4-1/2" casing >	7" casing annu	ulus			
	0.09417	cuft/ft	4-1/2" casing >	< 6-1/8" hole ar	nnulus			
	0.0873	cuft/ft	4-1/2" casing v	/ol	est shoe jt ft	100		
	0.0102	bbls/ft	4" DP capacity	,				
	Calculated cen	nent volumes a	ssume gauge h	ole and the exe	cess noted in ta	ble		
	S-8 Silica Flour 163.7 lbs/bbl	Avis 616 viscosifier 11.6 lb/bbl	FP24 Defoamer .5	IntegraGuard Star Plus 3K LCM 15 Ib/bbl	SS201 Surfactant 1 gal/bbl			
Lead				FL24 Fluid Loss .5% BWOB		R7C Retarder .2%	FP24 Defoamer 0.3% BWOB, Anti- Static .01 lb/sx	
Tail	Type G 50%	Pozzolan Fly Ash Extender 50%	BA90 Bonding	Bentonite Viscosifier 4% BWOB	FL24 Fluid Loss .4% BWOB		R3 Retarder .5% BWOB	FP24 Defoamer .3% BWOB, IntegraSeal 0.25 Ib/sx

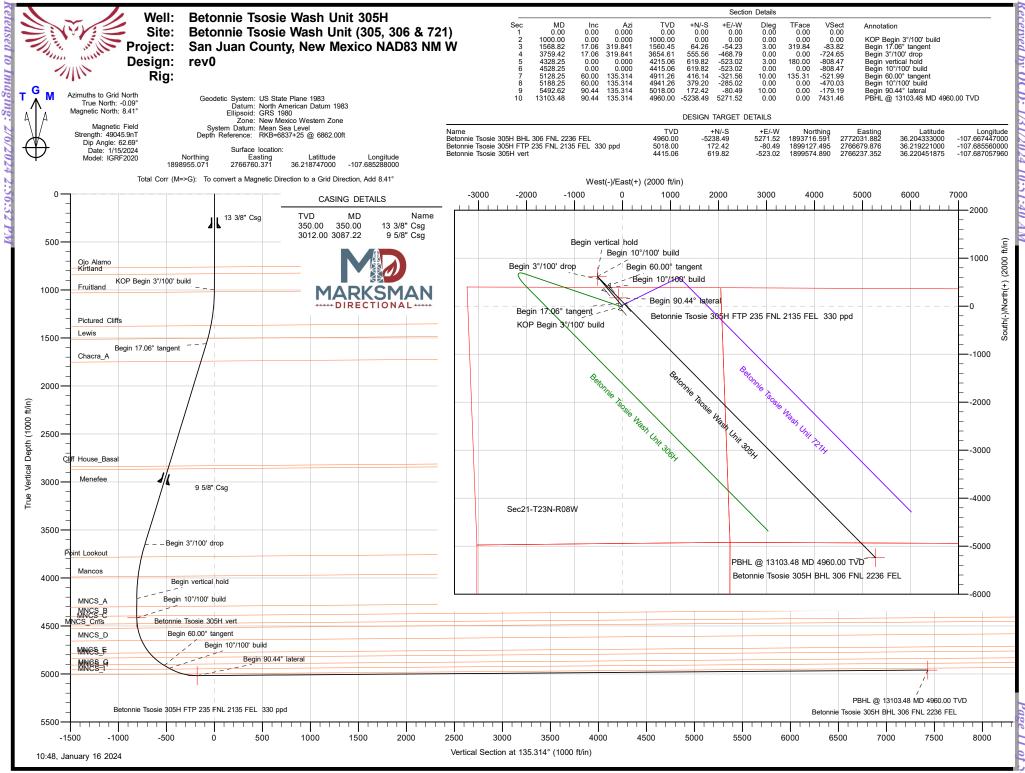
COMPLETION AND PRODUCTION PLAN:

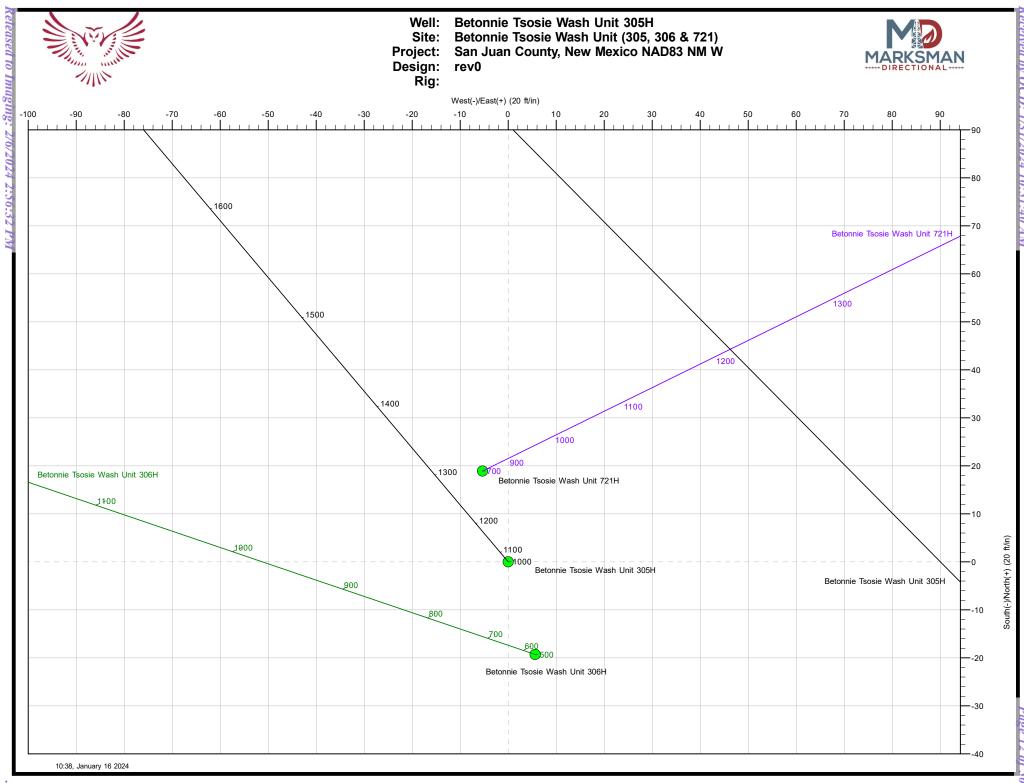
Est Lateral Length:	8,020		
Est Frac Inform:	33 Frac Stages	129,000 bbls slick water	10,430,000 lbs proppant
Frac:	39 plug-and-perf stages with 1	L50,000 bbls slickwater fluid and 12,	100,000 lbs of proppant (estimated)
Flowback:	Flow back through production	tubing as pressures allow	
Production:	Produce through production to	ubing via gas-lift into permanent pro	oduction 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:







Database:	DT_Aug2923	3v16		Local Co-ord	inate Reference:	Site 721		/ash Unit (305, 306 &	
Company:	Enduring Re	sources LLC		TVD Referen	ce:		., B=6837+25 @ 686	2.00ft	
Project:	San Juan Co	ounty, New Me	xico NAD83 NM W	MD Reference	MD Reference: RKB=6837+25 @ 6862.00ft			2.00ft	
Site:	Betonnie Tso	osie Wash Unit	(305, 306 & 721)	North Refere	North Reference: Grid				
Well:	Betonnie Tso	osie Wash Unit	: 305H	Survey Calcu	lation Method:	Min	imum Curvature		
Wellbore:	Original Hole	9							
Design:	rev0								
Project	San Juan Co	unty, New Mex	ico NAD83 NM W						
Map System:	US State Plane	e 1983		System Datum	:	Mean	Sea Level		
Geo Datum:	North Americar	n Datum 1983							
Map Zone:	New Mexico W	estern Zone							
Site	Betonnie Tsos	sie Wash Unit	(305, 306 & 721)						
Site Position:			Northing:	1,898,955.0)71 usft Latit	ude:		36.21874700	
From:	Lat/Long		Easting:	2,766,760.3		itude:		-107.68528800	
Position Uncertainty:	Ū	0.00 ft	Slot Radius:	13-3	/16 "				
Well	Betonnie Tsos	sie Wash Unit 3	305H_Surf loc: 406	FNL 2059 FEL Section	21-T23N-R08W	1			
							4	26.0107470	
Well Position				98,955.071 usft	Latitud		36.2187470		
	+E/-W	0.00 ft	Easting:	2,76	6,760.370 usft	Longit	ude:	-107.6852880	
			-			-			
Position Uncertainty		0.00 ft	Wellhead El		ft	-	d Level:	6,837.00 ft	
Position Uncertainty Grid Convergence:		0.00 ft 0.09 °	-			-		6,837.00 ft	
-	Original Hole	0.09 °	-			-		6,837.00 ft	
Grid Convergence:	Original Hole	0.09 °	-	evation: Declination	ft	Groun Dip Ang	d Level:	Field Strength	
Grid Convergence:	Model Na	0.09 °	Wellhead El	evation: Declination (°)	ft	Groun	d Level:	Field Strength (nT)	
Grid Convergence:	Model Na	0.09 °	Wellhead El	evation: Declination (°)	ft	Groun Dip Ang	d Level:	Field Strength	
Grid Convergence:	Model Na	0.09 °	Wellhead El	evation: Declination (°)	ft	Groun Dip Ang	d Level:	Field Strength (nT)	
Grid Convergence: Wellbore Magnetics	Model Na	0.09 °	Wellhead El	evation: Declination (°)	ft 8.50	Groun Dip Ang (°)	d Level:	Field Strength (nT)	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version:	Model Na	0.09 °	Wellhead El Sample Date 1/15/2024 Phase:	evation: Declination (°) 4 PLAN	ft 8.50 Tie On D	Groun Dip Ang (°)	d Level: le 62.69 0.00	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes:	Model Na	0.09 °	Wellhead El Sample Date 1/15/2024 Phase: From (TVD)	evation: Declination (°) 4 PLAN +N/-S	ft 8.50 Tie On D +E/-W	Groun Dip Ang (°)	d Level: le 62.69 0.00 Direction	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version:	Model Na	0.09 °	Wellhead El Sample Date 1/15/2024 Phase:	evation: Declination (°) 4 PLAN	ft 8.50 Tie On D	Groun Dip Ang (°)	d Level: le 62.69 0.00	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version:	Model Na	0.09 °	Wellhead El Sample Date 1/15/2024 Phase: From (TVD)	evation: Declination (°) 4 PLAN +N/-S	ft 8.50 Tie On D +E/-W	Groun Dip Ang (°)	d Level: le 62.69 0.00 Direction	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version:	Model Na IG rev0	0.09 °	Wellhead El Sample Date 1/15/2024 Phase: From (TVD) (ft) 0.00	evation: Declination (°) 4 PLAN +N/-S (ft)	ft 8.50 Tie On D +E/-W (ft)	Groun Dip Ang (°)	d Level: le 62.69 0.00 Direction (°)	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version: Vertical Section: Plan Survey Tool Pro	Model Na IG rev0	0.09 °	Wellhead El Sample Date 1/15/2024 Phase: From (TVD) (ft) 0.00	evation: Declination (°) 4 PLAN +N/-S (ft)	ft 8.50 Tie On D +E/-W (ft)	Groun Dip Ang (°)	d Level: le 62.69 0.00 Direction (°)	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version: Vertical Section:	Model Na IG rev0	0.09 °	Wellhead El Sample Date 1/15/2024	evation: Declination (°) 4 PLAN +N/-S (ft)	ft 8.50 Tie On D +E/-W (ft) 0.00	Groun Dip Ang (°)	d Level: le 62.69 0.00 Direction (°)	Field Strength (nT) 49,045.92438540	
Grid Convergence: Wellbore Magnetics Design Audit Notes: Version: Vertical Section: Plan Survey Tool Pro Depth From	Model Na IG rev0 gram Depth To	0.09 ° ame RF2020 Depth Date 1/16 Survey (Well	Wellhead El Sample Date 1/15/2024 Phase: From (TVD) (ft) 0.00	evation: Declination (°) 4 PLAN +N/-S (ft) 0.00	ft 8.50 Tie On D +E/-W (ft) 0.00	Groun Dip Ang (°) epth:	d Level: le 62.69 0.00 Direction (°)	Field Strength (nT) 49,045.92438540	



Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Sections

Target	TFO (°)	Turn Rate (°/100ft)	Build Rate (°/100ft)	Dogleg Rate (°/100ft)	+E/-W (ft)	+N/-S (ft)	Vertical Depth (ft)	Azimuth (°)	Inclination (°)	Measured Depth (ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00	0.000	0.00	1,000.00
	319.84	0.00	3.00	3.00	-54.23	64.26	1,560.45	319.841	17.06	1,568.82
	0.00	0.00	0.00	0.00	-468.79	555.56	3,654.61	319.841	17.06	3,759.42
	180.00	0.00	-3.00	3.00	-523.02	619.82	4,215.06	0.000	0.00	4,328.25
Betonnie Tsosie 305	0.00	0.00	0.00	0.00	-523.02	619.82	4,415.06	0.000	0.00	4,528.25
	135.31	0.00	10.00	10.00	-321.56	416.14	4,911.26	135.314	60.00	5,128.25
	0.00	0.00	0.00	0.00	-285.02	379.20	4,941.26	135.314	60.00	5,188.25
	0.00	0.00	10.00	10.00	-80.49	172.42	5,018.00	135.314	90.44	5,492.62
Betonnie Tsosie 305	0.00	0.00	0.00	0.00	5.271.52	-5,238.49	4,960.00	135.314	90.44	13,103.49

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Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00
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		0.00	0.00	0.00	0.00	0.00	0.00
			500.00	0.00			0.00		
600.00 700.00	0.00 0.00	0.000 0.000	600.00 700.00	0.00	0.00 0.00	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	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	319.841	1,099.95	2.00	-1.69	-2.61	3.00	3.00	0.00
1,200.00	6.00	319.841	1,199.63	8.00	-6.75	-10.43	3.00	3.00	0.00
1,300.00	9.00	319.841	1,298.77	17.97	-15.16	-23.44	3.00	3.00	0.00
1,400.00	12.00	319.841	1,397.08	31.90	-26.92	-41.60	3.00	3.00	0.00
1,500.00	15.00	319.841	1,494.31	49.74	-41.97	-64.87	3.00	3.00	0.00
1,568.82	17.06	319.841	1,560.45	64.26	-54.23	-83.82	3.00	3.00	0.00
1,600.00	17.06	319.841	1,590.26	71.25	-60.13	-92.94	0.00	0.00	0.00
1,700.00	17.06	319.841	1,685.85	93.68	-79.05	-122.20	0.00	0.00	0.00
1,800.00	17.06	319.841	1,781.45	116.11	-97.98	-151.45	0.00	0.00	0.00
1,900.00	17.06	319.841	1,877.05	138.54	-116.90	-180.70	0.00	0.00	0.00
2,000.00	17.06	319.841	1,972.64	160.96	-135.83	-209.96	0.00	0.00	0.00
2,100.00	17.06	319.841	2,068.24	183.39	-154.75	-239.21	0.00	0.00	0.00
2,200.00	17.06	319.841	2,163.84	205.82	-173.68	-268.46	0.00	0.00	0.00
2,300.00	17.06	319.841	2,259.44	228.25	-192.60	-297.72	0.00	0.00	0.00
2,400.00	17.06	319.841	2,355.03	250.67	-211.52	-326.97	0.00	0.00	0.00
2,500.00	17.06	319.841	2,450.63	273.10	-230.45	-356.22	0.00	0.00	0.00
2,600.00	17.06	319.841	2,546.23	295.53	-249.37	-385.48	0.00	0.00	0.00
2,700.00	17.06	319.841	2,641.83	317.96	-268.30	-414.73	0.00	0.00	0.00
2,800.00	17.06	319.841	2,737.42	340.38	-287.22	-443.99	0.00	0.00	0.00
2,900.00	17.06	319.841	2,833.02	362.81	-306.15	-473.24	0.00	0.00	0.00
3,000.00	17.06	319.841	2,928.62	385.24	-325.07	-502.49	0.00	0.00	0.00
3,100.00	17.06	319.841	3,024.22	407.67	-344.00	-531.75	0.00	0.00	0.00
3,200.00	17.06	319.841	3,119.81	430.09	-362.92	-561.00	0.00	0.00	0.00
3,300.00	17.06	319.841	3,215.41	452.52	-381.85	-590.25	0.00	0.00	0.00
3,400.00	17.06	319.841	3,311.01	474.95	-400.77	-619.51	0.00	0.00	0.00
3,500.00	17.06	319.841	3,406.61	497.38	-419.70	-648.76	0.00	0.00	0.00
3,600.00	17.06	319.841	3,502.20	519.80	-438.62	-678.01	0.00	0.00	0.00
3,700.00	17.06	319.841	3,597.80	542.23	-457.55	-707.27	0.00	0.00	0.00
3,759.42	17.06	319.841	3,654.61	555.56	-468.79	-724.65	0.00	0.00	0.00
3,800.00	15.85	319.841	3,693.52	564.34	-476.21	-736.11	3.00	-3.00	0.00
3,900.00	12.85	319.841	3,790.39	583.28	-492.19	-760.81	3.00	-3.00	0.00
4,000.00	9.85	319.841	3,888.42	598.31	-504.87	-780.42	3.00	-3.00	0.00
4,100.00	6.85	319.841	3,987.35	609.41	-514.23	-794.89	3.00	-3.00	0.00
4,200.00	3.85	319.841	4,086.91	616.53	-520.24	-804.18	3.00	-3.00	0.00
4,300.00	0.85	319.841	4,186.81	619.66	-522.89	-808.26	3.00	-3.00	0.00
4,328.25	0.00	0.000	4,215.06	619.82	-523.02	-808.47	3.00	-3.00	0.00
4,400.00	0.00	0.000	4,286.81	619.82	-523.02	-808.47	0.00	0.00	0.00
4,500.00	0.00	0.000	4,386.81	619.82	-523.02	-808.47	0.00	0.00	0.00
4,528.25	0.00	0.000	4,415.06	619.82	-523.02	-808.47	0.00	0.00	0.00
4,550.00	2.18	135.314	4,436.81	619.53	-522.73	-808.06	10.00	10.00	0.00
4,600.00	7.18	135.314	4,486.62	616.63	-519.86	-803.99	10.00	10.00	0.00
4,650.00	12.18	135.314	4,535.90	610.66	-513.96	-795.59	10.00	10.00	0.00

1/16/2024 10:40:50AM



Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.00	17.18	135.314	4,584.25	601.65	-505.05	-782.92	10.00	10.00	0.00
4,750.00	22.18	135.314	4,631.32	589.69	-493.22	-766.09	10.00	10.00	0.00
4,800.00	27.18	135.314	4,676.74	574.85	-478.54	-745.23	10.00	10.00	0.00
4,850.00	32.18	135.314	4,720.17	557.26	-461.14	-720.48	10.00	10.00	0.00
4,900.00	37.18	135.314	4,761.27	537.04	-441.14	-692.04	10.00	10.00	0.00
4,950.00	42.18	135.314	4,799.74	514.35	-418.70	-660.13	10.00	10.00	0.00
5,000.00	47.18	135.314	4,835.29	489.37	-393.99	-624.99	10.00	10.00	0.00
5,050.00	52.18	135.314	4,867.63	462.27	-367.19	-586.88	10.00	10.00	0.00
5,100.00	57.18	135.314	4,896.53	433.28	-338.51	-546.10	10.00	10.00	0.00
5,128.25	60.00	135.314	4,911.26	416.14	-321.56	-521.99	10.00	10.00	0.00
5,188.25	60.00	135.314	4,941.26	379.20	-285.02	-470.03	0.00	0.00	0.00
5,200.00	61.18	135.314	4,947.03	371.92	-277.82	-459.80	10.00	10.00	0.00
5,250.00	66.18	135.314	4,969.19	340.07	-246.32	-415.00	10.00	10.00	0.00
5,300.00	71.18	135.314	4,987.37	306.96	-213.58	-368.43	10.00	10.00	0.00
5,350.00	76.18	135.314	5,001.42	272.86	-179.84	-320.46	10.00	10.00	0.00
5,400.00	81.18	135.314	5,011.24	238.02	-145.38	-271.45	10.00	10.00	0.00
5,450.00	86.18	135.314	5,016.74	202.69	-110.44	-221.77	10.00	10.00	0.00
5,492.62	90.44	135.314	5,018.00	172.42	-80.49	-179.19	10.00	10.00	0.00
5,500.00	90.44	135.314	5,017.94	167.17	-75.30	-171.80	0.00	0.00	0.00
5,600.00	90.44	135.314	5,017.18	96.07	-4.98	-71.81	0.00	0.00	0.00
5,700.00	90.44	135.314	5,016.42	24.98	65.34	28.19	0.00	0.00	0.00
5,800.00	90.44	135.314	5,015.66	-46.12	135.66	128.19	0.00	0.00	0.00
,									
5,900.00	90.44	135.314	5,014.90	-117.21	205.98	228.19	0.00	0.00	0.00
6,000.00	90.44	135.314	5,014.13	-188.31	276.30	328.18	0.00	0.00	0.00
6,100.00	90.44	135.314	5,013.37	-259.40	346.62	428.18	0.00	0.00	0.00
6,200.00	90.44	135.314	5,012.61	-330.49	416.95	528.18	0.00	0.00	0.00
6,300.00	90.44	135.314	5,011.85	-401.59	487.27	628.17	0.00	0.00	0.00
6,400.00	90.44	135.314	5,011.09	-472.68	557.59	728.17	0.00	0.00	0.00
6,500.00	90.44	135.314	5,010.32	-543.78	627.91	828.17	0.00	0.00	0.00
6,600.00	90.44	135.314	5,009.56	-614.87	698.23	928.17	0.00	0.00	0.00
6,700.00	90.44	135.314	5,008.80	-685.97	768.55	1,028.16	0.00	0.00	0.00
6,800.00	90.44	135.314	5,008.04	-757.06	838.87	1,128.16	0.00	0.00	0.00
6,900.00	90.44	135.314	5,007.28	-828.16	909.19	1,228.16	0.00	0.00	0.00
7,000.00	90.44	135.314	5,006.51	-899.25	979.51	1,328.15	0.00	0.00	0.00
7,100.00	90.44	135.314	5,005.75	-970.34	1,049.83	1,428.15	0.00	0.00	0.00
7,200.00	90.44	135.314	5,004.99	-1,041.44	1,120.15	1,528.15	0.00	0.00	0.00
7,300.00	90.44	135.314	5,004.23	-1,112.53	1,190.47	1,628.15	0.00	0.00	0.00
7,400.00	90.44	135.314	5,003.47	-1,183.63	1,260.79	1,728.14	0.00	0.00	0.00
7,500.00	90.44	135.314	5,002.70	-1,254.72	1,331.11	1,828.14	0.00	0.00	0.00
7,600.00	90.44	135.314	5.001.94	-1,325.82	1,401.43	1,928.14	0.00	0.00	0.00
7,700.00	90.44	135.314	5.001.18	-1,396.91	1,471.76	2,028.13	0.00	0.00	0.00
7,800.00	90.44	135.314	5,000.42	-1,468.01	1,542.08	2,128.13	0.00	0.00	0.00
7,900.00	90.44	135.314	4,999.65	-1,539.10	1,612.40	2,228.13	0.00	0.00	0.00
8,000.00	90.44	135.314	4,998.89	-1,610.20	1,682.72	2,328.12	0.00	0.00	0.00
8,100.00	90.44	135.314	4,998.13	-1,681.29	1,753.04	2,428.12	0.00	0.00	0.00
8,200.00	90.44	135.314	4,997.37	-1,752.38	1,823.36	2,528.12	0.00	0.00	0.00
8,300.00	90.44	135.314	4,996.61	-1,823.48	1,893.68	2,628.12	0.00	0.00	0.00
8,400.00	90.44	135.314	4,995.84	-1,894.57	1,964.00	2,728.11	0.00	0.00	0.00
8,500.00	90.44	135.314	4,995.08	-1,965.67	2,034.32	2,828.11	0.00	0.00	0.00
8,600.00	90.44	135.314	4,994.32	-2,036.76	2,104.64	2,928.11	0.00	0.00	0.00
8,700.00	90.44	135.314	4,993.56	-2,107.86	2,174.96	3,028.10	0.00	0.00	0.00
8,800.00	90.44	135.314	4,993.50	-2,107.80	2,174.90	3,128.10	0.00	0.00	0.00
8,900.00	90.44	135.314	4,992.03	-2,250.05	2,315.60	3,228.10	0.00	0.00	0.00

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	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project: S	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site: B	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well: B	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore: C	Original Hole		
Design: re	rev0		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,000.00	90.44	135.314	4,991.27	-2,321.14	2,385.92	3,328.10	0.00	0.00	0.00
9,100.00	90.44	135.314	4,990.51	-2,392.23	2,456.24	3,428.09	0.00	0.00	0.00
9,200.00	90.44	135.314	4,989.75	-2,463.33	2,526.57	3,528.09	0.00	0.00	0.00
9,300.00	90.44	135.314	4,988.99	-2,534.42	2,596.89	3,628.09	0.00	0.00	0.00
9,400.00	90.44	135.314	4,988.22	-2,605.52	2,667.21	3,728.08	0.00	0.00	0.00
9,500.00	90.44	135.314	4,987.46	-2,676.61	2,737.53	3,828.08	0.00	0.00	0.00
9,600.00	90.44	135.314	4,986.70	-2,747.71	2,807.85	3,928.08	0.00	0.00	0.00
9,700.00	90.44	135.314	4,985.94	-2,818.80	2,878.17	4,028.08	0.00	0.00	0.00
9,800.00	90.44	135.314	4,985.18	-2,889.90	2,948.49	4,128.07	0.00	0.00	0.00
9,900.00	90.44	135.314	4,984.41	-2,960.99	3,018.81	4,228.07	0.00	0.00	0.00
10,000.00	90.44	135.314	4,983.65	-3,032.08	3,089.13	4,328.07	0.00	0.00	0.00
10,100.00	90.44	135.314	4,982.89	-3,103.18	3,159.45	4,428.06	0.00	0.00	0.00
10,200.00	90.44	135.314	4,982.13	-3,174.27	3,229.77	4,528.06	0.00	0.00	0.00
10,300.00	90.44	135.314	4,981.36	-3,245.37	3,300.09	4,628.06	0.00	0.00	0.00
10,400.00	90.44	135.314	4,980.60	-3,316.46	3,370.41	4,728.06	0.00	0.00	0.00
10,500.00	90.44	135.314	4,979.84	-3,387.56	3,440.73	4,828.05	0.00	0.00	0.00
10,600.00	90.44	135.314	4,979.08	-3,458.65	3,511.05	4,928.05	0.00	0.00	0.00
10,700.00	90.44	135.314	4,978.32	-3,529.75	3,581.38	5,028.05	0.00	0.00	0.00
10,800.00	90.44	135.314	4,977.55	-3,600.84	3,651.70	5,128.04	0.00	0.00	0.00
10,900.00	90.44	135.314	4,976.79	-3,671.93	3,722.02	5,228.04	0.00	0.00	0.00
11,000.00	90.44	135.314	4,976.03	-3,743.03	3,792.34	5,328.04	0.00	0.00	0.00
11,100.00	90.44	135.314	4,975.27	-3,814.12	3,862.66	5,428.03	0.00	0.00	0.00
11,200.00	90.44	135.314	4,974.51	-3,885.22	3,932.98	5,528.03	0.00	0.00	0.00
11,300.00	90.44	135.314	4,973.74	-3,956.31	4,003.30	5,628.03	0.00	0.00	0.00
11,400.00	90.44	135.314	4,972.98	-4,027.41	4,073.62	5,728.03	0.00	0.00	0.00
11,500.00	90.44	135.314	4,972.22	-4,098.50	4,143.94	5,828.02	0.00	0.00	0.00
11,600.00	90.44	135.314	4,971.46	-4,169.60	4,214.26	5,928.02	0.00	0.00	0.00
11,700.00	90.44	135.314	4,970.70	-4,240.69	4,284.58	6,028.02	0.00	0.00	0.00
11,800.00	90.44	135.314	4,969.93	-4,311.79	4,354.90	6,128.01	0.00	0.00	0.00
11,900.00	90.44	135.314	4,969.17	-4,382.88	4,425.22	6,228.01	0.00	0.00	0.00
12,000.00	90.44	135.314	4,968.41	-4,453.97	4,495.54	6,328.01	0.00	0.00	0.00
12,100.00	90.44	135.314	4,967.65	-4,525.07	4,565.86	6,428.01	0.00	0.00	0.00
12,200.00	90.44	135.314	4,966.89	-4,596.16	4,636.19	6,528.00	0.00	0.00	0.00
12,300.00	90.44	135.314	4,966.12	-4,667.26	4,706.51	6,628.00	0.00	0.00	0.00
12,400.00	90.44	135.314	4,965.36	-4,738.35	4,776.83	6,728.00	0.00	0.00	0.00
12,500.00	90.44	135.314	4,964.60	-4,809.45	4,847.15	6,827.99	0.00	0.00	0.00
12,600.00	90.44	135.314	4,963.84	-4,880.54	4,917.47	6,927.99	0.00	0.00	0.00
12,700.00	90.44	135.314	4,963.08	-4,951.64	4,987.79	7,027.99	0.00	0.00	0.00
12,800.00	90.44	135.314	4,962.31	-5,022.73	5,058.11	7,127.99	0.00	0.00	0.00
12,900.00	90.44	135.314	4,961.55	-5,093.82	5,128.43	7,227.98	0.00	0.00	0.00
13,000.00	90.44	135.314	4,960.79	-5,164.92	5,198.75	7,327.98	0.00	0.00	0.00
13,103.49	90.44	135.314	4,960.00	-5,238.49	5,271.52	7,431.46	0.00	0.00	0.00



Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

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 305H v∉ - plan hits target cente - Point	0.00 er	0.000	4,415.06	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
Betonnie Tsosie 305H B - plan hits target cente - Point	0.00 er	0.000	4,960.00	-5,238.49	5,271.52	1,893,716.591	2,772,031.882	36.204333000	-107.667447000
Betonnie Tsosie 305H F ⁻ - plan hits target cente - Point	0.00 er	0.000	5,018.00	172.42	-80.49	1,899,127.494	2,766,679.876	36.219221000	-107.685560000

Casing Points

Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (")	Hole Diameter (")	
350.	00 350.00	13 3/8" Csg		13-3/8	17-1/2	
3,087	3,012.00	9 5/8" Csg		9-5/8	12-1/4	

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
762.00	762.00	Ojo Alamo		-0.44	135.314
832.00	832.00	Kirtland		-0.44	135.314
1,020.00	1,020.00	Fruitland		-0.44	135.314
1,374.68	1,372.28	Pictured Cliffs		-0.44	135.314
1,510.58	1,504.52	Lewis		-0.44	135.314
1,759.86	1,743.07	Chacra_A		-0.44	135.314
2,902.74	2,835.64	Cliff House_Basal		-0.44	135.314
2,934.20	2,865.71	Menefee		-0.44	135.314
3,891.21	3,781.83	Point Lookout		-0.44	135.314
4,097.73	3,985.10	Mancos		-0.44	135.314
4,413.40	4,300.21	MNCS_A		-0.44	135.314
4,509.40	4,396.21	MNCS_B		-0.44	135.314
4,591.50	4,478.18	MNCS_C		-0.44	135.314
4,636.97	4,523.13	MNCS_Cms		-0.44	135.314
4,773.41	4,652.81	MNCS_D		-0.44	135.314
4,925.44	4,781.19	MNCS_E		-0.44	135.314
4,993.49	4,830.84	MNCS_F		-0.44	135.314
5,108.59	4,901.14	MNCS_G		-0.44	135.314
5,207.25	4,950.48	MNCS_H		-0.44	135.314
5,346.16	5,000.49	MNCS_I		-0.44	135.314

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Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
1,000.00	1,000.00	0.00	0.00	KOP Begin 3°/100' build
1,568.82	1,560.45	64.26	-54.23	Begin 17.06° tangent
3,759.42	3,654.61	555.56	-468.79	Begin 3°/100' drop
4,328.25	4,215.06	619.82	-523.02	Begin vertical hold
4,528.25	4,415.06	619.82	-523.02	Begin 10°/100' build
5,128.25	4,911.26	416.14	-321.56	Begin 60.00° tangent
5,188.25	4,941.26	379.20	-285.02	Begin 10°/100' build
5,492.62	5,018.00	172.42	-80.49	Begin 90.44° lateral
13,103.49	4,960.00	-5,238.49	5,271.52	PBHL @ 13103.48 MD 4960.00 TVD

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Planning Report - Geographic

Database:	DT_Aug2923	/16		Local Co-ordi	nate Reference:	Site Betonnie T 721)	sosie Wash Unit (305, 306 &
Company: Project: Site: Well: Wellbore: Docian:		unty, New Me sie Wash Unit	kico NAD83 NM W (305, 306 & 721) 305H	TVD Reference MD Reference North Referer Survey Calcu):	RKB=6837+25 RKB=6837+25 Grid Minimum Curva	@ 6862.00ft
Design:							
Geo Datum:	US State Plane North American New Mexico We	1983 Datum 1983	co NAD83 NM W	System Datum		Mean Sea Level	
Site	Betonnie Tsosi	e Wash Unit (305, 306 & 721)				
Site Position: From: Position Uncertainty:	Lat/Long	0.00 ft	Northing: Easting: Slot Radius:	1,898,955.0 2,766,760.3 13-3/	70 usft Longit		36.21874700 -107.68528800
Well	Betonnie Tsosie	e Wash Unit 3	05H, Surf loc: 406 F	NL 2059 FEL Section	21-T23N-R08W		
Well Position Position Uncertainty Grid Convergence:	+N/-S +E/-W	0.00 ft 0.00 ft 0.00 ft 0.09 °	Northing: Easting: Wellhead Elev	2,76	8,955.071 usft 6,760.370 usft ft	Latitude: Longitude: Ground Level:	36.2187470 -107.6852880 6,837.00 ft
Wellbore	Original Hole						
Magnetics	Model Nan	ne	Sample Date	Declination (°)	I	Dip Angle (°)	Field Strength (nT)
	IGR	F2020	1/15/2024		8.50	62.69	49,045.92438540
Design	rev0						
Audit Notes: Version:			Phase:	PLAN	Tie On Dep	oth:	0.00
Vertical Section:			From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)		rection (°)
			0.00	0.00	0.00	13	35.314
Plan Survey Tool Pro Depth From	gram Depth To	Date 1/16	2024				
(ft)		Survey (Wellb	,	Tool Name	Rema	arks	
1 0.00	13,103.49 r	ev0 (Original	Hole)	MWD OWSG MWD - St	andard		



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		
Plan Sections			

Target	TFO (°)	Turn Rate (°/100ft)	Build Rate (°/100ft)	Dogleg Rate (°/100ft)	+E/-W (ft)	+N/-S (ft)	Vertical Depth (ft)	Azimuth (°)	Inclination (°)	Measured Depth (ft)
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	1,000.00	0.000	0.00	1,000.00
	319.84	0.00	3.00	3.00	-54.23	64.26	1,560.45	319.841	17.06	1,568.82
1	0.00	0.00	0.00	0.00	-468.79	555.56	3,654.61	319.841	17.06	3,759.42
1	180.00	0.00	-3.00	3.00	-523.02	619.82	4,215.06	0.000	0.00	4,328.25
Betonnie Tsosie 30	0.00	0.00	0.00	0.00	-523.02	619.82	4,415.06	0.000	0.00	4,528.25
	135.31	0.00	10.00	10.00	-321.56	416.14	4,911.26	135.314	60.00	5,128.25
1	0.00	0.00	0.00	0.00	-285.02	379.20	4,941.26	135.314	60.00	5,188.25
1	0.00	0.00	10.00	10.00	-80.49	172.42	5,018.00	135.314	90.44	5,492.62
Betonnie Tsosie 30	0.00	0.00	0.00	0.00	5,271.52	-5,238.49	4,960.00	135.314	90.44	13,103.49

Released to Imaging: 2/6/2024 2:56:32 PM



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
0.00		0.000	0.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
100.00		0.000	100.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
200.00	0.00	0.000	200.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
300.00		0.000	300.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
400.00	0.00	0.000	400.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
500.00		0.000	500.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
600.00		0.000	600.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
700.00		0.000	700.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
800.00		0.000	800.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
900.00		0.000	900.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
1,000.00	0.00	0.000	1,000.00	0.00	0.00	1,898,955.071	2,766,760.370	36.218747000	-107.685288000
1,100.00		319.841	1,099.95	2.00	-1.69	1,898,957.071	2,766,758.682	36.218752503	-107.685293712
1,200.00		319.841	1,199.63	8.00	-6.75	1,898,963.067	2,766,753.623	36.218768994	-107.685310833
1,300.00		319.841	1,298.77	17.97	-15.16	1,898,973.041	2,766,745.206	36.218796430	-107.685339315
1,400.00		319.841	1,397.08	31.90	-26.92	1,898,986.967	2,766,733.455	36.218834735	-107.685379081
1,500.00		319.841	1,494.31	49.74 64.26	-41.97 -54.23	1,899,004.806	2,766,718.402	36.218883805	-107.685430023
1,568.82		319.841 319.841	1,560.45	64.26 71.25	-54.23 -60.13	1,899,019.333	2,766,706.144	36.218923761 36.218942993	-107.685471503
1,600.00 1,700.00		319.841	1,590.26 1,685.85	93.68	-60.13	1,899,026.325	2,766,700.244 2,766,681.320	36.219004682	-107.685491469 -107.685555512
1,800.00		319.841	1,781.45	95.00 116.11	-97.98	1,899,048.752 1,899,071.179	2,766,662.395	36.219066371	-107.685619555
1,900.00		319.841	1,877.05	138.54	-116.90	1,899,093.607	2,766,643.470	36.219128060	-107.685683598
2,000.00		319.841	1,972.64	160.96	-135.83	1,899,116.034	2,766,624.545	36.219120000	-107.685747641
2,000.00		319.841	2,068.24	183.39	-154.75	1,899,138.462	2,766,605.620	36.219251439	-107.685811684
2,100.00		319.841	2,000.24	205.82	-173.68	1,899,160.889	2,766,586.695	36.219313128	-107.685875728
2,300.00		319.841	2,259.44	228.25	-192.60	1,899,183.316	2,766,567.771	36.219374817	-107.685939771
2,400.00		319.841	2,355.03	250.67	-211.52	1,899,205.744	2,766,548.846	36.219436506	-107.686003815
2,500.00		319.841	2,450.63	273.10	-230.45	1,899,228.171	2,766,529.921	36.219498195	-107.686067859
2,600.00		319.841	2,546.23	295.53	-249.37	1,899,250.599	2,766,510.996	36.219559884	-107.686131902
2,700.00	17.06	319.841	2,641.83	317.96	-268.30	1,899,273.026	2,766,492.071	36.219621573	-107.686195946
2,800.00		319.841	2,737.42	340.38	-287.22	1,899,295.453	2,766,473.147	36.219683261	-107.686259990
2,900.00	17.06	319.841	2,833.02	362.81	-306.15	1,899,317.881	2,766,454.222	36.219744950	-107.686324034
3,000.00	17.06	319.841	2,928.62	385.24	-325.07	1,899,340.308	2,766,435.297	36.219806639	-107.686388078
3,100.00	17.06	319.841	3,024.22	407.67	-344.00	1,899,362.736	2,766,416.372	36.219868328	-107.686452123
3,200.00	17.06	319.841	3,119.81	430.09	-362.92	1,899,385.163	2,766,397.447	36.219930017	-107.686516167
3,300.00	17.06	319.841	3,215.41	452.52	-381.85	1,899,407.590	2,766,378.522	36.219991705	-107.686580212
3,400.00	17.06	319.841	3,311.01	474.95	-400.77	1,899,430.018	2,766,359.598	36.220053394	-107.686644256
3,500.00	17.06	319.841	3,406.61	497.38	-419.70	1,899,452.445	2,766,340.673	36.220115083	-107.686708301
3,600.00	17.06	319.841	3,502.20	519.80	-438.62	1,899,474.873	2,766,321.748	36.220176771	-107.686772346
3,700.00	17.06	319.841	3,597.80	542.23	-457.55	1,899,497.300	2,766,302.823	36.220238460	-107.686836391
3,759.42		319.841	3,654.61	555.56	-468.79	1,899,510.627	2,766,291.577	36.220275118	-107.686874449
3,800.00		319.841	3,693.52	564.34	-476.21	1,899,519.412	2,766,284.165	36.220299280	-107.686899534
3,900.00	12.85	319.841	3,790.39	583.28	-492.19	1,899,538.348	2,766,268.186	36.220351366	-107.686953610
4,000.00		319.841	3,888.42	598.31	-504.87	1,899,553.384	2,766,255.498	36.220392723	-107.686996547
4,100.00		319.841	3,987.35	609.41	-514.23	1,899,564.478	2,766,246.137	36.220423238	-107.687028228
4,200.00		319.841	4,086.91	616.53	-520.24	1,899,571.600	2,766,240.127	36.220442827	-107.687048565
4,300.00		319.841	4,186.81	619.66	-522.89	1,899,574.730	2,766,237.486	36.220451437	-107.687057504
4,328.25		0.000	4,215.06	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
4,400.00		0.000	4,286.81	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
4,500.00		0.000	4,386.81	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
4,528.25		0.000	4,415.06	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
4,550.00		135.314	4,436.81	619.53	-522.73	1,899,574.596	2,766,237.642	36.220451068	-107.687056977
4,600.00		135.314	4,486.62	616.63	-519.86	1,899,571.699	2,766,240.507	36.220443099	-107.687047279
4,650.00		135.314	4,535.90	610.66 601.65	-513.96	1,899,565.727	2,766,246.414	36.220426668 36.220401899	-107.687027282
4,700.00	17.18	135.314	4,584.25	001.00	-505.05	1,899,556.724	2,766,255.319	30.220401099	-107.686997139

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COMPASS 5000.16 Build 96



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

(P) (P) <th>Measured Depth</th> <th>Inclination</th> <th>Azimuth</th> <th>Vertical Depth</th> <th>+N/-S</th> <th>+E/-W</th> <th>Map Northing</th> <th>Map Easting</th> <th></th> <th></th>	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
4.800.00 27.16 133.14 4.767.24 57.48 -478.54 1.899.529.23 2.766.281.827 36.220321166 -107.686947469 4.850.00 37.18 135.314 .7761.27 537.04 -441.14 1.899.442.13 2.766.319.227 36.220321786 -107.686780844 5.050.00 47.18 135.314 .4987.2 448.70 1.889.442.33 2.766.341.66B 36.220052778 -107.68621785 5.050.00 67.18 135.314 .4895.53 438.22 -363.971 1.899.444.33 2.766.431.66D 36.21095671 -107.68623173 5.120.25 60.00 135.314 .4941.20 371.92 -2762.2 1.899.342.08 2.766.475.349 36.210760681 -107.68623786 5.200.00 61.18 135.314 .4947.3 371.92 -777.2 1.899.245.13 2.766.475.349 36.210760681 -107.68622786 5.200.00 61.18 135.314 .4961.73 30.68.21084723 -776.246.980.202 2.766.446 30.3 36.211696113 -107.68622786 5.200.00 61.18 </th <th>(ft)</th> <th>(°)</th> <th>(°)</th> <th>(ft)</th> <th>(ft)</th> <th>(ft)</th> <th>(usft)</th> <th>(usft)</th> <th>Latitude</th> <th>Longitude</th>	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
4.800.00 32.18 135.314 4,701.7 557.26 -461.14 1,809,402.12 726,631.0227 32.20279762 -107.688449486 4.900.00 42.18 135.314 4,709,74 514.35 -418.70 1,809,469,423 2,766,341.683 33.22016171 -107.686710841 5.000.00 62.18 135.314 4,867,63 462.27 -387.19 18.99,447.345 2,766,341.687 33.22001840 -107.6863733 5.100.00 67.18 135.314 4,816,73 452.27 -287.52 18.99,347.64 2,766,421.87 36.21993671 -107.6863757013 5.182.55 60.00 153.14 4,917.03 371.92 -277.82 1,809,326.82 7,66,473.349 36.21998191 -107.686372375 5.200.00 61.18 135.314 4,987.37 306.90 -213.88 1,809,320.82 7,66,514.052 36.219921151 -107.6863797824 5.300.00 71.81 135.314 5,017.42 22.80 -145.83 18.99,127.47 2,766,540.930 36.21991151 -107.685959921 5,760.00	4,750.00	22.18	135.314	4,631.32	589.69	-493.22	1,899,544.759	2,766,267.153	36.220368982	-107.686957078
4.90.00 37.18 135.344 .761.27 537.04 .441.4 1.899.462.12 .766.341.68 32.20214139 .107.686704051 5.050.00 47.18 135.314 .835.29 489.37 .393.99 1.899.444.38 2.766.381.19 32.2001840 .107.686521185 5.050.00 67.18 135.314 .480.53 432.2 .338.51 1.899.389.302 2.766.428.89 32.21993871 .107.68637133 5.128.25 0.000 135.314 .491.26 .470.2 .2265.02 1.899.389.891.712 .766.443.548 32.21998851 .107.68627232 5.200.00 61.81 135.314 .490.17 .277.82 1.899.280.539 .766.540.76 32.21996223 .7107.68617237 .107.68671767 5.300.00 71.18 135.314 .501.42 .232.8 .178.84 1.899.22733 .766.540.76 32.21996151 .107.68651767 5.400.00 61.81 135.314 .501.64 29.89 .1766.540.76 32.219407433 .107.686569767 5.400.00 61.81 135.314 </td <td>4,800.00</td> <td>27.18</td> <td>135.314</td> <td>4,676.74</td> <td>574.85</td> <td>-478.54</td> <td>1,899,529.923</td> <td>2,766,281.827</td> <td>36.220328166</td> <td>-107.686907405</td>	4,800.00	27.18	135.314	4,676.74	574.85	-478.54	1,899,529.923	2,766,281.827	36.220328166	-107.686907405
4.90.00 42.18 13.5.14 4.709.74 51.43.5 -418.70 1.809.446.38 7.706.341.68 33.2.20161719 -107.68670441 5.000.00 52.18 135.314 4.867.63 482.27 -367.19 1.809.417.345 2.766.393.313 32.2001840 -107.68630473 5.100.00 57.18 135.314 4.911.26 418.14 -321.65 1.809.37.12 2.766.421.857 33.2.2001840 -107.685377013 5.180.25 60.00 153.514 4.947.03 371.92 -227.82 1.899.326.801 2.766.847.544 33.2.219901151 -107.685377013 5.250.00 61.81 153.514 4.987.37 300.90 -213.86 1.809.225.33 2.766.540.52 32.219901151 -107.6853779624 5.300.00 71.81 153.514 5.01.42 227.88 1.809.125.33 2.766.540.530 32.21990151 -107.685592991 5.400.00 81.81 153.514 5.01.42 227.88 1.809.127.37 2.766.540.530 32.21990151 -107.68559291 5.400.00 0.41	4,850.00	32.18	135.314	4,720.17	557.26	-461.14	1,899,512.330	2,766,299.229	36.220279762	-107.686848498
b 500.00 47.8 13.3.14 4.85.2 94.83.7 -933.39 18.99.444.38 2.766.393.17 32.2002278 -107.868621185 5.100.00 57.18 15.314 4.896.53 43.28 -338.51 18.99.388.350 2.766.428.89 32.219938671 -107.868433366 5.128.25 60.00 15.314 4.91.26 47.97 22.766.418.89 32.219789881 -107.868272323 5.200.00 61.81 15.314 4.967.10 37.92 -2285.02 18.99.32.698 2.766.447.548 32.219789881 -107.868272323 5.200.00 61.81 15.314 4.967.17 20.59 -173.84 18.99.22035 7.766.64.97 32.219916151 -107.868079676 5.300.00 71.18 15.314 5.017.42 23.02 -110.44 18.99.127.87 7.666.64.97 32.21991451 -107.868569820 5.400.00 61.81 15.314 5.017.42 23.02 -110.44 18.99.12747 7.766.64.978 32.219904281 -107.8685698204 5.400.00 61.81 <td< td=""><td>4,900.00</td><td>37.18</td><td>135.314</td><td>4,761.27</td><td>537.04</td><td>-441.14</td><td>1,899,492.112</td><td>2,766,319.227</td><td>36.220224138</td><td>-107.686780805</td></td<>	4,900.00	37.18	135.314	4,761.27	537.04	-441.14	1,899,492.112	2,766,319.227	36.220224138	-107.686780805
5.00.00 57.18 153.14 4.667.63 462.27 -367.19 1.699.347.345 2.766.421.857 362.20014440 -107.666433366 5.128.25 60.00 153.14 4.911.26 371.62 22766.471.857 362.20015119 -107.666252023 5.200.00 61.18 153.314 4.947.03 371.92 -2776.143.00 62.216901519 -107.666252023 5.200.00 61.18 153.314 4.967.03 306.66 -213.86 1.899.205.192 2766.147.022 86.2169109267 -107.66811676 5.300.00 71.18 153.314 5.011.24 2236.02 -110.44 1.999.127.693 2766.541.052 86.216911151 -107.66810476 5.400.00 81.18 153.314 5.011.24 2236.02 -110.44 1.999.157.65 2766.641.303 66.219304261 -107.668509209 5.500.00 90.44 155.314 5.017.4 202.66 -110.44 1.999.157.65 2.766.641.303 66.212961264 -107.686504861 5.500.00 90.44 155.314 5.017.18	4,950.00	42.18	135.314	4,799.74		-418.70	1,899,469.423	2,766,341.668	36.220161719	-107.686704841
5 100.00 57.18 153.314 4,496.53 433.28 -33.851 1,899.371.212 -766.438.800 36.21998161 -107.686376013 5,188.25 60.00 155.314 4,941.26 379.20 -2276.22 1,993.33.488 2.766.473.490 65.21976985 -107.686252335 5,200.00 61.18 155.314 4,947.03 371.92 -277.82 1.993.326.91 2.766.473.246 36.21959151 -107.686121312 5,300.00 71.18 155.314 4.967.17 2278.84 1.999.222.015 2.766.649.303 36.219304772.2 -107.68506910476 5,450.00 81.15 155.314 5.011.42 228.26 -110.84 1.989.127.075 2.766.649.303 36.218304281 -107.685778624 5,450.00 80.41 155.314 5.011.74 202.69 -110.84 1.989.127.277 2.766.649.303 36.218304281 -107.68577862 5,600.00 90.44 135.314 5.011.74 20.269 -110.44 1.989.127.277 2.766.646.071 35.218204556 107.685542413	5,000.00	47.18	135.314	4,835.29	489.37	-393.99	1,899,444.438	2,766,366.381	36.220092978	-107.686621185
5128.25 60.00 153.314 4,41.26 3478.46 -325.66 75.349 56.2190958 -107.686527033 5.200.00 61.18 153.314 4,947.03 371.92 -276.475.349 56.219709858 -107.686227056 5.200.00 61.18 155.314 4,967.01 -246.32 1.999.205.193 2.766.475.349 36.219691227 -107.686171612 5.300.00 71.18 153.314 5.001.42 2.278.6 36.219591151 -107.68509290 5.400.00 61.18 155.314 5.011.42 2.280.6 -179.841 1.989.227.931 2.766.679.873 36.219901423 -107.685079624 5.400.00 81.18 155.314 5.010.01 172.42 280.49 153.314 5.017.42 2.800.41 1.989.127.487 2.766.679.873 36.219201403 -107.68556991 5.600.00 9.44 155.314 5.017.42 2.490 65.34 1.899.051.143 2.766.675.392 36.214910143 -107.686542413 5.600.00 9.44 155.314 5.016.41 -132.66	5,050.00	52.18	135.314	4,867.63			1,899,417.345	2,766,393.179	36.220018440	-107.686530473
5.188.25 60.00 133.314 4.941.26 379.20 -228.02 1.899.334.268 2.766.482.543 332.19780881 -107.68022205 5.200.00 61.18 133.314 4.969.19 340.07 -248.32 1.899.205.139 2.766.442.543 32.1956180227 -107.666121312 5.300.00 71.18 133.314 4.937.3 306 -213.58 1.899.220.902 2.766.543.768 32.21951440733 -107.685599291 5.400.00 81.18 135.314 5.016.74 202.69 -110.44 1.899.157.785 2.766.614.903 32.21930421 -107.685598991 5.500.00 90.44 135.314 5.017.34 167.17 -7.33 1.969.122.237 2.766.673.878 36.21920930 -107.685559891 5.500.00 90.44 135.314 5.015.64 -40.49 1.989.051.44 2.706.673.878 36.21820941 -107.68504340 5.000.00 90.44 135.314 5.015.66 -46.12 13.564 1.989.051.44 2.706.953.91 38.21842144 -107.684504214 5.000.00	5,100.00	57.18	135.314	4,896.53			1,899,388.350	2,766,421.857		-107.686433396
5.200.00 e1.18 135.314 4.947.03 371.92 -277.82 1.989.265.325.00 2.766.614.052 362.1986227-010 661612132 5.300.00 71.18 135.314 4.987.37 306.06 -213.58 1.989.262.33 2.766.614.052 362.19862273 -107.686012432 5.300.00 76.18 135.314 5.011.24 238.02 -145.38 1.999.153.082 2.766.614.924 362.11904256 -107.68505299 5.400.00 81.18 135.314 5.016.24 202.49 -110.44 1.999.127.472 2.706.679.878 38.21952090 -107.685559991 5.600.00 90.44 135.314 5.016.42 2.48 1.999.021.42 2.766.679.878 38.2195209056 -107.685562941 5.600.00 90.44 135.314 5.016.42 2.48 6.63.44 1.989.900.44 2.766.863.33 32.18195144 -107.685564481 5.900.00 90.44 135.314 5.014.30 -117.21 205.98 1.989.87.980 2.766.966.33 32.218915344 -107.6854522430 5.900.00	5,128.25	60.00	135.314	4,911.26	416.14	-321.56	1,899,371.212		36.219891519	-107.686376013
5250.00 e61.8 135.14 4969.19 340.07 -246.32 1.899.226.139 2.766.548.760 32.219982227 -107.666121312 5.300.00 71.18 135.314 6.001.42 222.66 -179.84 1.899.220.33 2.766.548.769 32.2199.1433 -107.6655079624 5.400.00 81.18 135.314 5.016.74 202.02 -110.44 1.899.157.762 2.766.649.930 32.2199.04221 -107.665505961 5.400.00 90.44 135.314 5.016.74 202.02 9 -110.44 1.899.127.447 2.705.679.673 32.2192.0490 -107.665505961 5.600.00 90.44 135.314 5.016.42 2.48 65.34 1.899.802.54 2.766.685.013 32.2189.1474 -107.685054343 5.600.00 90.44 135.314 5.015.66 -46.12 135.66 1.898.908.54 2.768.960.33 32.2182.0547 -107.68450289 6.000.00 90.44 135.314 5.014.30 -172.225.86 1.898.967.67.5 2.770.169.94 32.2182.28474 -107.684502898								2,766,475.349	36.219789881	
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	9,100.00	90.44	135.314	4,990.51	-2,392.23	2,456.24	1,896,562.841	2,769,216.611	36.212164749	-107.676973977

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COMPASS 5000.16 Build 96



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
9,200.00	90.44	135.314	4,989.75	-2,463.33	2,526.57	1,896,491.747	2,769,286.931	36.211969135	-107.676735987
9,300.00	90.44	135.314	4,988.99	-2,534.42	2,596.89	1,896,420.653	2,769,357.252	36.211773521	-107.676497998
9,400.00	90.44	135.314	4,988.22	-2,605.52	2,667.21	1,896,349.558	2,769,427.573	36.211577906	-107.676260010
9,500.00	90.44	135.314	4,987.46	-2,676.61	2,737.53	1,896,278.464	2,769,497.893	36.211382290	-107.676022023
9,600.00	90.44	135.314	4,986.70	-2,747.71	2,807.85	1,896,207.370	2,769,568.214	36.211186675	-107.675784038
9,700.00	90.44	135.314	4,985.94	-2,818.80	2,878.17	1,896,136.275	2,769,638.534	36.210991058	-107.675546053
9,800.00	90.44	135.314	4,985.18	-2,889.90	2,948.49	1,896,065.181	2,769,708.855	36.210795441	-107.675308070
9,900.00	90.44	135.314	4,984.41	-2,960.99	3,018.81	1,895,994.087	2,769,779.175	36.210599824	-107.675070088
10,000.00	90.44	135.314	4,983.65	-3,032.08	3,089.13	1,895,922.992	2,769,849.496	36.210404206	-107.674832107
10,100.00	90.44	135.314	4,982.89	-3,103.18	3,159.45	1,895,851.898	2,769,919.816	36.210208588	-107.674594128
10,200.00	90.44	135.314	4,982.13	-3,174.27	3,229.77	1,895,780.804	2,769,990.137	36.210012969	-107.674356150
10,300.00	90.44	135.314	4,981.36	-3,245.37	3,300.09	1,895,709.709	2,770,060.457	36.209817350	-107.674118172
10,400.00	90.44	135.314	4,980.60	-3,316.46	3,370.41	1,895,638.615	2,770,130.778	36.209621730	-107.673880196
10,500.00	90.44	135.314	4,979.84	-3,387.56	3,440.73	1,895,567.521	2,770,201.098	36.209426110	-107.673642221
10,600.00	90.44	135.314	4,979.08	-3,458.65	3,511.05	1,895,496.426	2,770,271.419	36.209230489	-107.673404248
10,700.00	90.44	135.314	4,978.32	-3,529.75	3,581.38	1,895,425.332	2,770,341.739	36.209034868	-107.673166275
10,800.00	90.44	135.314	4,977.55	-3,600.84	3,651.70	1,895,354.238	2,770,412.060	36.208839246	-107.672928304
10,900.00	90.44	135.314	4,976.79	-3,671.93	3,722.02	1,895,283.144	2,770,482.380	36.208643624	-107.672690334
11,000.00	90.44	135.314	4,976.03	-3,743.03	3,792.34	1,895,212.049	2,770,552.701	36.208448002	-107.672452365
11,100.00	90.44	135.314	4,975.27	-3,814.12	3,862.66	1,895,140.955	2,770,623.021	36.208252379	-107.672214397
11,200.00	90.44	135.314	4,974.51	-3,885.22	3,932.98	1,895,069.861	2,770,693.342	36.208056755	-107.671976431
11,300.00	90.44	135.314	4,973.74	-3,956.31	4,003.30	1,894,998.766	2,770,763.662	36.207861131	-107.671738466
11,400.00	90.44	135.314	4,972.98	-4,027.41	4,073.62	1,894,927.672	2,770,833.983	36.207665507	-107.671500501
11,500.00	90.44	135.314	4,972.22	-4,098.50	4,143.94	1,894,856.578	2,770,904.303	36.207469882	-107.671262538
11,600.00	90.44	135.314	4,971.46	-4,169.60	4,214.26	1,894,785.483	2,770,974.624	36.207274256	-107.671024577
11,700.00	90.44	135.314	4,970.70	-4,240.69	4,284.58	1,894,714.389	2,771,044.944	36.207078630	-107.670786616
11,800.00	90.44	135.314	4,969.93	-4,311.79	4,354.90	1,894,643.295	2,771,115.265	36.206883004	-107.670548657
11,900.00	90.44	135.314	4,969.17	-4,382.88	4,425.22	1,894,572.200	2,771,185.585	36.206687377	-107.670310698
12,000.00	90.44	135.314	4,968.41	-4,453.97	4,495.54	1,894,501.106	2,771,255.906	36.206491750	-107.670072741
12,100.00	90.44	135.314	4,967.65	-4,525.07	4,565.86	1,894,430.012	2,771,326.227	36.206296122	-107.669834785
12,200.00	90.44	135.314	4,966.89	-4,596.16	4,636.19	1,894,358.917	2,771,396.547	36.206100493	-107.669596831
12,300.00	90.44	135.314	4,966.12	-4,667.26	4,706.51	1,894,287.823	2,771,466.868	36.205904865	-107.669358877
12,400.00	90.44	135.314	4,965.36	-4,738.35	4,776.83	1,894,216.729	2,771,537.188	36.205709235	-107.669120925
12,500.00	90.44	135.314	4,964.60	-4,809.45	4,847.15	1,894,145.634	2,771,607.509	36.205513606	-107.668882974
12,600.00	90.44	135.314	4,963.84	-4,880.54	4,917.47	1,894,074.540	2,771,677.829	36.205317975	-107.668645024
12,700.00	90.44	135.314	4,963.08	-4,951.64	4,987.79	1,894,003.446	2,771,748.150	36.205122345	-107.668407075
12,800.00	90.44	135.314	4,962.31	-5,022.73	5,058.11	1,893,932.351	2,771,818.470	36.204926714	-107.668169127
12,900.00	90.44	135.314	4,961.55	-5,093.82	5,128.43	1,893,861.257	2,771,888.791	36.204731082	-107.667931181
13,000.00	90.44	135.314	4,960.79	-5,164.92	5,198.75	1,893,790.163	2,771,959.111	36.204535450	-107.667693236
13,103.49	90.44	135.314	4,960.00	-5,238.49	5,271.52	1,893,716.591	2,772,031.882	36.204333000	-107.667447000



Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		
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 305H v∉ - plan hits target cente - Point	0.00 er	0.000	4,415.06	619.82	-523.02	1,899,574.889	2,766,237.351	36.220451876	-107.687057960
Betonnie Tsosie 305H B - plan hits target cente - Point	0.00 er	0.000	4,960.00	-5,238.49	5,271.52	1,893,716.591	2,772,031.882	36.204333000	-107.667447000
Betonnie Tsosie 305H F [.] - plan hits target cente - Point	0.00 er	0.000	5,018.00	172.42	-80.49	1,899,127.494	2,766,679.876	36.219221000	-107.685560000

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Na	Casing Diameter ame (")	Hole Diameter (")
350.00	350.00	13 3/8" Csg	13-3/8	17-1/2
3,087.22	3,012.00	9 5/8" Csg	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
762.00	762.00	Ojo Alamo		-0.44	135.314
832.00	832.00	Kirtland		-0.44	135.314
1,020.00	1,020.00	Fruitland		-0.44	135.314
1,374.68	1,372.28	Pictured Cliffs		-0.44	135.314
1,510.58	1,504.52	Lewis		-0.44	135.314
1,759.86	1,743.07	Chacra_A		-0.44	135.314
2,902.74	2,835.64	Cliff House_Basal		-0.44	135.314
2,934.20	2,865.71	Menefee		-0.44	135.314
3,891.21	3,781.83	Point Lookout		-0.44	135.314
4,097.73	3,985.10	Mancos		-0.44	135.314
4,413.40	4,300.21	MNCS_A		-0.44	135.314
4,509.40	4,396.21	MNCS_B		-0.44	135.314
4,591.50	4,478.18	MNCS_C		-0.44	135.314
4,636.97	4,523.13	MNCS_Cms		-0.44	135.314
4,773.41	4,652.81	MNCS_D		-0.44	135.314
4,925.44	4,781.19	MNCS_E		-0.44	135.314
4,993.49	4,830.84	MNCS_F		-0.44	135.314
5,108.59	4,901.14	MNCS_G		-0.44	135.314
5,207.25	4,950.48	MNCS_H		-0.44	135.314
5,346.16	5,000.49	MNCS I		-0.44	135.314

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Planning Report - Geographic

Database:	DT_Aug2923v16	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Company:	Enduring Resources LLC	TVD Reference:	RKB=6837+25 @ 6862.00ft
Project:	San Juan County, New Mexico NAD83 NM W	MD Reference:	RKB=6837+25 @ 6862.00ft
Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	North Reference:	Grid
Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	rev0		

Plan Annotations

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
1,568.82	1,560.45	64.26	-54.23	Begin 17.06° tangent
3,759.42	3,654.61	555.56	-468.79	Begin 3°/100' drop
4,328.25	4,215.06	619.82	-523.02	Begin vertical hold
4,528.25	4,415.06	619.82	-523.02	Begin 10°/100' build
5,128.25	4,911.26	416.14	-321.56	Begin 60.00° tangent
5,188.25	4,941.26	379.20	-285.02	Begin 10°/100' build
5,492.62	5,018.00	172.42	-80.49	Begin 90.44° lateral
13,103.49	4,960.00	-5,238.49	5,271.52	PBHL @ 13103.48 MD 4960.00 TVD



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

Reference	rev0							
Filter type:	GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference							
Interpolation Method:	MD Interval 100.00ft	Error Model:	ISCWSA					
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D					
Results Limited by:	Maximum centre distance of 1,510.35ft	Error Surface:	Ellipsoid Separation					
Warning Levels Evaluate	ed at: 2.00 Sigma	Casing Method:	Not applied					

Survey Tool Program		Date 1/16/2024		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	13,103.4	9 rev0 (Original Hole)	MWD	OWSG MWD - Standard

Summary

	Reference	Offset	Dista	nce		
Site Name Offset Well - Wellbore - Design	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Betonnie Tsosie Wash Unit (305, 306 & 721)						
Betonnie Tsosie Wash Unit 306H - Original Hole - rev0 Betonnie Tsosie Wash Unit 721H - Original Hole - rev0 Betonnie Tsosie Wash Unit 721H - Original Hole - rev0 Betonnie Tsosie Wash Unit 721H - Original Hole - rev0	709.59 707.95 800.00 13,000.00	710.02 707.95 799.90 11,879.77	16.45 19.66 19.79 1,201.16	11.81 15.03 14.50 856.97	3.548 4.248 3.744 3.490	ES

rvey Progr	ram: 0-N rence	/WD Off	4	0	-1		Offset Wellbo		Dist	Rule Assi	gned:		Offset Well Error:	0.00
Refei Aeasured	vertical	Measured	Vertical	Reference	ajor Axis Offset	Highside		ore Centre	Between	Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+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	163.71	-19.28	5.63	20.09					
100.00	100.00	100.00	100.00	0.13	0.13	163.71	-19.28	5.63	20.09	19.82	0.27	74.727		
200.00	200.00	200.00	200.00	0.49	0.49	163.71	-19.28	5.63	20.09	19.10	0.99	20.380		
300.00	300.00	300.00	300.00	0.85	0.85	163.71	-19.28	5.63	20.09	18.39	1.70	11.799		
400.00	400.00	400.00	400.00	1.21	1.21	163.71	-19.28	5.63	20.09	17.67	2.42	8.303		
500.00	500.00	500.00	500.00	1.57	1.57	163.71	-19.28	5.63	20.09	16.95	3.14	6.405		
600.00	600.00	600.51	600.47	1.93	1.92	170.36	-18.43	3.13	18.70	14.85	3.85	4.857		
700.00	700.00	700.48	700.11	2.29	2.28	-164.80	-15.90	-4.32	16.48	11.92	4.57	3.610		
709.59	709.59	710.02	709.59	2.32	2.32	-161.24	-15.58	-5.29	16.45	11.81	4.64	3.548 CC	C, ES, SF	
800.00	800.00	799.35	798.12	2.64	2.65	-125.42	-11.76	-16.53	20.38	15.10	5.27	3.863		
900.00	900.00	896.63	893.78	3.00	3.04	-100.39	-6.09	-33.22	34.34	28.40	5.94	5.778		
1,000.00	1,000.00	991.87	986.45	3.36	3.47	-88.97	0.97	-54.01	55.69	49.10	6.59	8.448		
1,100.00	1,099.95	1,085.28	1,076.16	3.72	3.93	-43.80	9.32	-78.62	80.86	73.64	7.22	11.201		
1,200.00	1,199.63	1,177.32	1,163.21	4.08	4.44	-42.31	18.93	-106.91	107.13	99.31	7.83	13.684		
1,300.00	1,298.77	1,267.98	1,247.45	4.44	5.01	-42.26	29.70	-138.62	134.21	125.77	8.43	15.912		
1,400.00	1,397.08	1,357.23	1,328.74	4.82	5.64	-42.89	41.54	-173.50	162.02	152.96	9.05	17.893		
1,500.00	1,494.31	1,445.08	1,406.98	5.23	6.33	-43.87	54.38	-211.30	190.58	180.88	9.70	19.650		
1,600.00	1,590.26	1,531.48	1,482.06	5.68	7.08	-45.17	68.12	-251.77	220.10	209.72	10.38	21.203		
1,700.00	1,685.85	1,615.82	1,553.42	6.16	7.89	-46.41	82.57	-294.33	253.00	241.90	11.10	22.799		
1,800.00	1,781.45	1,699.91	1,622.52	6.66	8.77	-47.12	97.98	-339.70	289.86	278.00	11.86	24.446		
1,900.00	1,877.05	1,789.51	1,695.00	7.17	9.77	-47.59	114.91	-389.56	328.70	315.93	12.77	25.742		
2,000.00	1,972.64	1,881.62	1,769.53	7.70	10.82	-47.98	132.32	-440.83	367.57	353.81	13.76	26.721		

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Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

-														
ey Progr/ Refer		-MWD Off	set	Semi M	ajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi tance	gned:		Offset Well Error:	0.0
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	+N/-S (ft)	+E/-W (ft)	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft) ,100.00	(ft) 2,068.24	(ft) 1,973.73	(ft) 1,844.05	(ft) 8.24	(ft) 11.88	(°) -48.29	149.72	-492.09	(ft) 406.44	(ft) 391.68	(ft) 14.76	27.534		
,200.00	2,008.24	2,065.85	1,918.57	8.79	12.96	-48.54	149.72	-492.09	400.44	429.54	14.70	28.215		
,300.00	2,103.04	2,003.05	1,993.10	9.34	14.05	-48.76	184.54	-594.62	484.22	467.40	16.82	28.793		
,400.00	2,355.03	2,250.07	2,067.62	9.90	15.14	-48.94	201.95	-645.89	523.12	505.25	17.86	29.285		
,500.00	2,450.63	2,342.19	2,142.14	10.47	16.24	-49.10	219.35	-697.15	562.02	543.10	18.92	29.709		
,600.00	2,546.23	2,434.30	2,216.67	11.04	17.35	-49.24	236.76	-748.41	600.92	580.94	19.98	30.077		
,700.00	2,641.83	2,526.41	2,291.19	11.61	18.46	-49.36	254.17	-799.68	639.83	618.78	21.05	30.399		
,800.00	2,737.42	2,618.53	2,365.71	12.19	19.57	-49.47	271.57	-850.94	678.74	656.61	22.12	30.683		
,900.00	2,833.02	2,710.64	2,440.24	12.76	20.69	-49.56	288.98	-902.21	717.65	694.45	23.20	30.933		
,000.00	2,928.62	2,802.75	2,514.76	13.35	21.80	-49.65	306.39	-953.47	756.56	732.28	24.28	31.156		
,100.00	3,024.22	2,894.87	2,589.28	13.93	22.92	-49.72	323.80	-1,004.74	795.47	770.10	25.37	31.355		
,200.00	3,119.81	2,986.98	2,663.81	14.52	24.05	-49.79	341.20	-1,056.00	834.39	807.93	26.46	31.533		
,300.00	3,215.41	3,079.09	2,738.33	15.10	25.17	-49.86	358.61	-1,107.27	873.30	845.75	27.55	31.694		
,400.00	3,311.01	3,171.20	2,812.86	15.69	26.29	-49.92	376.02	-1,158.53	912.22	883.57	28.65	31.840		
,500.00	3,406.61	3,263.32	2,887.38	16.28	27.42	-49.97	393.43	-1,209.80	951.13	921.39	29.75	31.973		
,600.00	3,502.20	3,355.43	2,961.90	16.87	28.55	-50.02	410.83	-1,261.06	990.05	959.20	30.85	32.094		
,700.00	3,597.80	3,447.54	3,036.43	17.46	29.67	-50.07	428.24	-1,312.33	1,028.97	997.02	31.95	32.206		
,800.00	3,693.52	3,539.55	3,110.86	18.05	30.80	-50.49	445.63	-1,363.53	1,068.14	1,035.10	33.04	32.324		
,900.00	3,790.39	3,630.39	3,184.36	18.59	31.91	-51.39	462.80	-1,414.09	1,109.82	1,075.77	34.05	32.596		
,000.00	3,888.42	3,719.61	3,256.54	19.07	33.01	-52.19	479.66	-1,463.74	1,154.46	1,119.53	34.94	33.043		
,100.00	3,987.35	3,806.95	3,327.20	19.49	34.08	-52.91	496.16	-1,512.35	1,202.02	1,166.31	35.72	33.656		
,200.00	4,086.91	3,892.19	3,396.16	19.84	35.13	-53.58	512.27	-1,559.79	1,252.46	1,216.07	36.38	34.423		
,300.00	4,186.81	3,975.08	3,463.22	20.15	36.15	-54.23	527.93	-1,605.92	1,305.74	1,268.79	36.95	35.335		
,400.00	4,286.81	4,056.08	3,528.76	20.41	37.14	-93.88	543.24	-1,651.00	1,361.19	1,323.74	37.46	36.341		
,500.00	4,386.81	6,624.23	4,992.85	20.68	51.43	-134.90	-227.30	-1,373.16	1,344.48	1,283.25	61.23	21.959		
,600.00	4,486.62	6,627.98	4,992.82	20.90	51.46	92.84	-229.97	-1,370.51	1,302.52	1,239.16	63.36	20.556		
,700.00	4,584.25	6,648.33	4,992.67	21.00	51.62	95.60	-244.43	-1,356.20	1,267.73	1,202.33	65.39	19.386		
,800.00	4,676.74	6,685.35	4,992.40	21.02	51.91	96.75	-270.75	-1,330.17	1,240.95	1,173.71	67.25	18.454		
,900.00	4,761.27	6,737.91	4,992.02	21.00	52.37	96.56	-308.12	-1,293.21	1,222.11	1,153.19	68.92	17.731		
,000.00	4,835.29	6,804.43	4,991.53	20.98	52.96	95.42	-355.41	-1,246.44	1,210.26	1,139.81	70.45	17.179		
,100.00	4,896.53	6,882.86	4,990.96	21.04	53.73	93.76	-411.17	-1,191.28	1,203.84	1,131.90	71.94	16.734		
,200.00	4,947.03	6,968.80	4,990.33	21.22	54.62	91.80	-472.27	-1,130.85	1,200.91	1,127.41	73.50	16.339		
,300.00	4,987.37	7,059.86	4,989.66	21.56	55.64	90.10	-537.01	-1,066.81	1,200.13	1,124.93	75.20	15.960		
,307.13	4,989.63	7,066.60	4,989.61	21.60	55.71	90.00	-541.80	-1,062.07	1,200.13	1,124.80	75.33	15.931		
,400.00	5,011.24 5,017.94	7,156.66 7,256.26	4,988.95 4,988.22	22.08 22.77	56.78 58.04	88.95 88.58	-605.83 -676.64	-998.74 -928.70	1,200.33 1,200.50	1,123.23 1,121.26	77.11 79.23	15.567 15.151		
500.00	5,017.94	1,200.20	4,300.ZZ	22.11	50.04	00.00	-070.04	-920.70	1,200.00	1,121.20	19.20	10.101		
600.00	5,017.18	7,356.26	4,987.49	23.64	59.36	88.58	-747.74	-858.38	1,200.49	1,118.90	81.59	14.713		
,700.00	5,016.42	7,456.26	4,986.76	24.69	60.76	88.58	-818.83	-788.06	1,200.49	1,116.31	84.18	14.260		
,800.008,	5,015.66	7,556.26	4,986.03	25.90	62.21	88.59	-889.92	-717.74	1,200.49	1,113.51	86.98	13.802		
,900.00 ,000.00	5,014.90 5,014.13	7,656.26 7,756.26	4,985.30 4,984.57	27.25 28.72	63.72 65.28	88.59 88.59	-961.02 -1,032.11	-647.42 -577.10	1,200.49 1,200.49	1,110.53 1,107.39	89.96 93.10	13.345 12.895		
,100.00	5,013.37	7,856.26	4,983.84	30.29	66.89	88.59	-1,103.21	-506.78	1,200.49	1,104.11	96.38	12.456		
,200.00	5,012.61	7,956.26	4,983.11	31.95	68.55	88.59	-1,174.30	-436.46	1,200.49	1,100.72	99.77	12.032		
,300.00	5,011.85 5,011.09	8,056.26 8,156.26	4,982.37 4,981.64	33.68 35.48	70.24 71.98	88.59 88.59	-1,245.40 -1,316.49	-366.13 -295.81	1,200.49 1,200.49	1,097.21	103.28 106.88	11.624 11.233		
,400.00	5,011.09	8,156.26	4,981.64 4,980.91	35.48 37.33	73.74	88.59 88.60	-1,316.49 -1,387.59	-295.81 -225.49	1,200.49	1,093.61 1,089.93	110.55	10.859		
,600.00	5,009.56	8,356.26	4,980.18	39.22	75.54	88.60	-1,458.68	-155.17	1,200.49	1,086.18	114.30	10.503		
,700.00	5,008.80	8,456.26 8,556.26	4,979.45 4,978.72	41.16 43.13	77.37 79.23	88.60 88.60	-1,529.78 -1,600.87	-84.85 -14.53	1,200.49 1 200 49	1,082.37 1,078.50	118.12 121.99	10.164 9.841		
,800.00 ,900.00	5,008.04 5,007.28	8,556.26 8,656.26	4,978.72	43.13 45.13	79.23 81.11	88.60 88.60	-1,600.87 -1,671.97	-14.53 55.79	1,200.49 1,200.49	1,078.50 1,074.58	121.99	9.841		
,900.00	5,007.28	8,756.26	4,977.99	40.10	01.11	00.00	-1,071.87	33.19	1,200.49	1,074.00	120.00	0.000		

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CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

ey Progr		MWD						_		Rule Assi	gned:		Offset Well Error:	0
Refer asured)epth	rence Vertical Depth	Off Measured Depth	set Vertical Depth	Semi M Reference	ajor Axis Offset	Highside Toolface	Offset Wellb +N/-S	ore Centre +E/-W	Dist Between Centres	ance Between Ellipses	Minimum Separation	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)			
,100.00	5,005.75	8,856.26	4,976.52	49.21	84.93	88.60	-1,814.16	196.43	1,200.48	1,066.61	133.87	8.967		
,200.00	5,004.99	8,956.26	4,975.79	51.28	86.88	88.61	-1,885.25	266.75	1,200.48	1,062.57	137.92	8.704		
,300.00	5,004.23	9,056.26	4,975.06	53.37	88.84	88.61	-1,956.34	337.07	1,200.48	1,058.49	141.99	8.455		
,400.00	5,003.47	9,156.26	4,974.33	55.47	90.82	88.61	-2,027.44	407.39	1,200.48	1,054.39	146.10	8.217		
,500.00	5,002.70	9,256.26	4,973.60	57.59	92.81	88.61	-2,098.53	477.71	1,200.48	1,050.25	150.23	7.991		
,600.00	5,001.94	9,356.26	4,972.87	59.72	94.82	88.61	-2,169.63	548.04	1,200.48	1,046.10	154.38	7.776		
,700.00	5,001.18	9,456.26	4,972.14	61.86	96.85	88.61	-2,240.72	618.36	1,200.48	1,041.92	158.56	7.571		
,800.00	5,000.42	9,556.26	4,971.40	64.01	98.88	88.62	-2,311.82	688.68	1,200.48	1,037.71	162.76	7.376		
,900.00	4,999.65	9,656.26	4,970.67	66.18	100.93	88.62	-2,382.91	759.00	1,200.48	1,033.49	166.99	7.189		
,000.00	4,998.89	9,756.26	4,969.94	68.35	102.99	88.62	-2,454.01	829.32	1,200.48	1,029.25	171.22	7.011		
,100.00	4,998.13	9,856.26	4,969.21	70.52	105.05	88.62	-2,525.10	899.64	1,200.48	1,025.00	175.48	6.841		
,200.00	4,997.37	9,956.26	4,968.48	72.71	107.13	88.62	-2,596.20	969.96	1,200.48	1,020.73	179.75	6.679		
,300.00	4,996.61	10,056.26	4,967.75	74.90	109.22	88.62	-2,667.29	1,040.28	1,200.48	1,016.44	184.03	6.523		
400.00	4,995.84	10,156.26	4,967.02	77.09	111.31	88.62	-2,738.39	1,110.60	1,200.47	1,012.14	188.33	6.374		
,500.00	4,995.08	10,256.26	4,966.28	79.29	113.42	88.63	-2,809.48	1,180.92	1,200.47	1,007.83	192.64	6.232		
,600.00	4,994.32	10,356.26	4,965.55	81.50	115.53	88.63	-2,880.57	1,251.24	1,200.47	1,003.51	196.96	6.095		
,700.00	4,993.56	10,456.26	4,964.82	83.71	117.64	88.63	-2,951.67	1,321.56	1,200.47	999.18	201.30	5.964		
,800.00	4,992.80	10,556.26	4,964.09	85.93	119.77	88.63	-3,022.76	1,391.89	1,200.47	994.83	205.64	5.838		
,900.00	4,992.03	10,656.26	4,963.36	88.14	121.90	88.63	-3,093.86	1,462.21	1,200.47	990.48	209.99	5.717		
,000.00	4,991.27	10,756.26	4,962.63	90.37	124.03	88.63	-3,164.95	1,532.53	1,200.47	986.12	214.35	5.600		
,100.00	4,990.51	10,856.26	4,961.90	92.59	126.18	88.63	-3,236.05	1,602.85	1,200.47	981.75	218.72	5.489		
,200.00	4,989.75	10,956.26	4,961.17	94.82	128.32	88.64	-3,307.14	1,673.17	1,200.47	977.37	223.10	5.381		
,300.00	4,988.99	11,056.26	4,960.43	97.05	130.48	88.64	-3,378.24	1,743.49	1,200.47	972.98	227.49	5.277		
,400.00	4,988.22	11,156.26	4,959.70	99.29	132.63	88.64	-3,449.33	1,813.81	1,200.47	968.59	231.88	5.177		
,500.00	4,987.46	11,256.26	4,958.97	101.52	134.79	88.64	-3,520.43	1,884.13	1,200.47	964.19	236.28	5.081		
,600.00	4,986.70	11,356.26	4,958.24	103.76	136.96	88.64	-3,591.52	1,954.45	1,200.47	959.78	240.69	4.988		
,700.00	4,985.94	11,456.26	4,957.51	106.00	139.13	88.64	-3,662.62	2,024.77	1,200.47	955.37	245.10	4.898		
,800.00	4,985.18	11,556.26	4,956.78	108.24	141.30	88.64	-3,733.71	2,095.09	1,200.46	950.95	249.51	4.811		
,900.00	4,984.41	11,656.26	4,956.05	110.49	143.48	88.65	-3,804.81	2,165.41	1,200.46	946.53	253.94	4.727		
,000.00	4,983.65	11,756.26	4,955.31	112.74	145.66	88.65	-3,875.90	2,235.73	1,200.46	942.10	258.37	4.646		
,100.00	4,982.89	11,856.26	4,954.58	114.98	147.85	88.65	-3,946.99	2,306.06	1,200.46	937.66	262.80	4.568		
,200.00	4,982.13	11,956.26	4,953.85	117.23	150.04	88.65	-4,018.09	2,376.38	1,200.46	933.23	267.24	4.492		
,300.00	4,981.36	12,056.26	4,953.12	119.48	152.23	88.65	-4,089.18	2,446.70	1,200.46	928.78	271.68	4.419		
,400.00	4,980.60	12,156.26	4,952.39	121.74	154.42	88.65	-4,160.28	2,517.02	1,200.46	924.34	276.12	4.348		
,500.00	4,979.84	12,256.26	4,951.66	123.99	156.62	88.65	-4,231.37	2,587.34	1,200.46	919.88	280.57	4.279		
,600.00	4,979.08	12,356.26	4,950.93	126.25	158.82	88.66	-4,302.47	2,657.66	1,200.46	915.43	285.03	4.212		
,700.00	4,978.32	12,456.26	4,950.20	128.50	161.02	88.66	-4,373.56	2,727.98	1,200.46	910.97	289.49	4.147		
,800.00	4,977.55	12,556.26	4,949.46	130.76	163.22	88.66	-4,444.66	2,798.30	1,200.46	906.51	293.95	4.084		
,900.00	4,976.79	12,656.26	4,948.73	133.02	165.43	88.66	-4,515.75	2,868.62	1,200.46	902.05	298.41	4.023		
,000.00	4,976.03	12,756.26	4,948.00	135.28	167.64	88.66	-4,586.85	2,938.94	1,200.46	897.58	302.88	3.963		
,100.00	4,975.27	12,856.26	4,947.27	137.54	169.85	88.66	-4,657.94	3,009.26	1,200.46	893.11	307.35	3.906		
,134.77	4,975.00	12,891.04	4,947.02	138.33	170.62	88.66	-4,682.66	3,033.72	1,200.46	891.55	308.91	3.886		
,200.00	4,974.51	12,893.17	4,947.00	139.80	170.66	88.66	-4,684.18	3,035.22	1,202.11	892.36	309.75	3.881		
,300.00	4,973.74	12,893.17	4,947.00	142.06	170.66	88.66	-4,684.18	3,035.22	1,211.48	902.81	308.68	3.925		
,400.00	4,972.98	12,893.17	4,947.00	144.33	170.66	88.66	-4,684.18	3,035.22	1,228.94	923.93	305.02	4.029		
,500.00	4,972.22	12,893.17	4,947.00	146.59	170.66	88.66	-4,684.18	3,035.22	1,254.16	955.02	299.14	4.193		
,600.00	4,971.46	12,893.17	4,947.00	148.86	170.66	88.66	-4,684.18	3,035.22	1,286.68	995.15	291.52	4.414		
700.00	4,970.70	12,893.17	4,947.00	151.12	170.66	88.66	-4,684.18	3,035.22	1,325.95	1,043.28	282.68	4.691		
800.00	4,969.93	12,893.17	4,947.00	153.39	170.66	88.66	-4,684.18	3,035.22	1,371.41	1,098.35	273.06	5.022		
,900.00	4,969.17	12,893.17	4,947.00	155.66	170.66	88.66	-4,684.18	3,035.22	1,422.46	1,159.38	263.08	5.407		
000.000	4,968.41	12,893.17	4,947.00	157.92	170.66	88.66	-4,684.18	3,035.22	1,478.51	1,225.47	253.04	5.843		

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Anticollision Report

Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

vey Progr		/WD		• • • • •			04			Rule Assi	gned:		Offset Well Error:	0.
Refer easured Depth (ft)	rence Vertical Depth (ft)	Offs Measured Depth	set Vertical Depth (ft)	Semi M Reference (ft)	ajor Axis Offset (ft)	Highside Toolface	Offset Wellb +N/-S (ft)	+E/-W (ft)	Between Centres	ance Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
0.00	0.00	(ft) 0.00	0.00	0.00	0.00	(°) -15.76	18.92	-5.34	(ft) 19.66	(11)	(14)			
100.00	100.00	100.00	100.00	0.13	0.13	-15.76	18.92	-5.34	19.66	19.39	0.27	73.124		
200.00	200.00	200.00	200.00	0.49	0.49	-15.76	18.92	-5.34	19.66	18.67	0.99	19.943		
300.00	300.00	300.00	300.00	0.85	0.85	-15.76	18.92	-5.34	19.66	17.96	1.70	11.546		
400.00	400.00	400.00	400.00	1.21	1.21	-15.76	18.92	-5.34	19.66	17.24	2.42	8.125		
500.00	500.00	500.00	500.00	1.57	1.57	-15.76	18.92	-5.34	19.66	16.52	3.14	6.268		
600.00	600.00	600.00	600.00	1.93	1.93	-15.76	18.92	-5.34	19.66	15.81	3.85	5.102		
700.00	700.00	700.00	700.00	2.29	2.29	-15.76	18.92	-5.34	19.66	15.09	4.57	4.301		
707.95	707.95	707.95	707.95	2.31	2.31	-15.76	18.92	-5.34	19.66	15.03	4.63	4.248 CC		
800.00	800.00	799.90	799.89	2.64	2.64	-13.90	19.21	-4.75	19.79	14.50	5.28	3.744 ES		
900.00	900.00	899.42	899.26	3.00	2.99	-0.26	21.50	-0.10	21.51	15.52	5.99	3.590		
1,000.00	1,000.00	998.13	997.43	3.36	3.35	19.29	26.02	9.11	27.69	21.00	6.69	4.140		
1,100.00	1,099.95	1,095.37	1,093.49	3.72	3.71	78.08	32.66	22.61	39.65	32.31	7.35	5.398		
,200.00	1,199.63	1,190.24	1,186.35	4.08	4.10	93.35	41.21	39.99	58.86	50.89	7.97	7.387		
,300.00	1,298.77	1,281.93	1,275.08	4.44	4.50	103.70	51.40	60.71	86.23	77.64	8.58	10.048		
,400.00	1,397.08	1,369.78	1,358.96	4.82	4.93	110.37	62.91	84.12	121.42	112.23	9.19	13.211		
1,500.00	1,494.31	1,453.26	1,437.48	5.23	5.37	114.64	75.41	109.55	163.85	154.04	9.81	16.707		
1,600.00	1,590.26	1,532.08	1,510.40	5.68	5.84	117.79	88.59	136.36	212.80	202.37	10.43	20.402		
1,700.00	1,685.85	1,607.26	1,578.76	6.16	6.32	120.37	102.40	164.43	266.14	255.10	11.03	24.119		
00.008, 1	1,781.45	1,685.26	1,648.57	6.66	6.87	121.99	117.75	195.66	322.31	310.58	11.73	27.484		
,900.00	1,877.05	1,767.49	1,722.03	7.17	7.48	123.19	134.05	228.81	378.90	366.39	12.51	30.277		
2,000.00	1,972.64	1,849.71	1,795.49	7.70	8.11	124.08	150.35	261.96	435.58	422.26	13.32	32.703		
2,100.00	2,068.24	1,931.93	1,868.95	8.24	8.75	124.76	166.65	295.11	492.31	478.17	14.14	34.819		
2,200.00	2,163.84	2,014.15	1,942.40	8.79	9.40	125.30	182.95	328.26	549.08	534.11	14.97	36.674		
2,300.00	2,259.44	2,096.38	2,015.86	9.34	10.06	125.74	199.25	361.41	605.88	590.07	15.82	38.309		
2,400.00	2,355.03	2,178.60	2,089.32	9.90	10.73	126.11	215.55	394.56	662.70	646.03	16.67	39.755		
2,500.00	2,450.63	2,260.82	2,162.78	10.47	11.41	126.42	231.84	427.71	719.54	702.00	17.53	41.042		
2,600.00	2,546.23	2,343.04	2,236.23	11.04	12.09	126.68	248.14	460.86	776.38	757.98	18.40	42.193		
2,700.00	2,641.83	2,425.27	2,309.69	11.61	12.78	126.91	264.44	494.01	833.24	813.96	19.28	43.227		
2,800.00	2,737.42	2,507.49	2,383.15	12.19	13.47	127.10	280.74	527.15	890.10	869.95	20.16	44.160		
2,900.00	2,833.02	2,589.71	2,456.61	12.76	14.16	127.28	297.04	560.30	946.97	925.93	21.04	45.004		
3,000.00	2,928.62	2,671.93	2,530.06	13.35	14.86	127.43	313.34	593.45	1,003.85	981.92	21.93	45.771		
3,100.00	3,024.22	2,754.16	2,603.52	13.93	15.56	127.57	329.64	626.60	1,060.73	1,037.90	22.83	46.470		
3,200.00	3,119.81	2,836.38	2,676.98	14.52	16.26	127.69	345.94	659.75	1,117.61	1,093.89	23.72	47.110		
3,300.00	3,215.41	2,918.60	2,750.43	15.10	16.96	127.81	362.24	692.90	1,174.50	1,149.87	24.62	47.698		
3,400.00	3,311.01	3,000.82	2,823.89	15.69	17.66	127.91	378.54	726.05	1,231.39	1,205.86	25.53	48.240		
3,500.00	3,406.61	3,083.05	2,897.35	16.28	18.37	128.00	394.84	759.20	1,288.28	1,261.85	26.43	48.739		
3,600.00	3,502.20	3,165.27	2,970.81	16.87	19.08	128.09	411.14	792.35	1,345.17	1,317.83	27.34	49.201		
3,700.00	3,597.80	3,247.49	3,044.26	17.46	19.78	128.16	427.44	825.50	1,402.07	1,373.82	28.25	49.630		
3,800.00	3,693.52	3,329.87	3,117.86	18.05	20.49	128.87	443.77	858.71	1,458.74	1,429.58	29.16	50.028		
5,300.00	4,987.37	4,900.00	4,612.73	21.56	28.89	-62.74	569.62	1,214.38	1,499.46	1,460.19	39.27	38.184		
5,400.00	5,011.24	4,933.80	4,643.38	22.08	29.02	-68.35	559.50	1,224.39	1,454.28	1,414.59	39.68	36.646		
5,500.00	5,017.94	4,950.00	4,657.77	22.77	29.08	-73.51	554.20	1,229.63	1,407.97	1,367.67	40.30	34.941		
5,600.00	5,017.18	4,978.23	4,682.30	23.64	29.20	-74.59	544.28	1,239.44	1,364.41	1,323.14	41.27	33.061		
5,700.00	5,016.42	5,000.00	4,700.74	24.69	29.29	-75.42	536.04	1,247.59	1,326.10	1,283.57	42.53	31.177		
5,800.00	5,015.66	5,033.59	4,728.29	25.90	29.45	-76.67	522.38	1,261.10	1,293.21	1,249.04	44.17	29.279		
5,900.00	5,014.90	5,068.23	4,755.46	27.25	29.62	-77.91	507.12	1,276.20	1,265.88	1,219.78	46.10	27.461		
6,000.00	5,014.13	5,100.00	4,779.21	28.72	29.78	-79.00	492.12	1,291.04	1,244.13	1,195.85	48.28	25.771		
6,100.00	5,013.37	5,150.00	4,814.11	30.29	30.07	-80.63	466.68	1,316.20	1,227.59	1,176.87	50.72	24.201		
6,200.00	5,012.61	5,212.18	4,852.94	31.95	30.47	-82.46	432.18	1,350.32	1,215.88	1,162.51	53.38	22.780		
6,300.00	5,011.85	5,279.45	4,888.87	33.68	30.95	-84.17	391.78	1,390.29	1,208.31	1,152.14	56.17	21.512		

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Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

vey Progr		MWD								Rule Assi	gned:		Offset Well Error:	0
Refer easured	rence Vertical	Off: Measured	set Vertical	Semi M Reference	ajor Axis Offset	Highside	Offset Wellbo	ore Centre	Dist Between	ance Between	Minimum	Separation	Warning	
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	Toolface (°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Separation (ft)	Factor		
6,400.00	5,011.09	5,360.43	4,928.55	35.48	31.59	-86.08	341.60	1,439.92	1,203.49	1,144.37	59.12	20.356		
6,500.00	5,010.32	5,442.12	4,959.99	37.33	32.32	-87.60	288.05	1,492.89	1,201.11	1,138.92	62.19	19.313		
6,600.00	5,009.56	5,532.64	4,981.94	39.22	33.24	-88.68	225.69	1,554.58	1,200.27	1,134.84	65.43	18.345		
6,700.00	5,008.80	5,628.42	4,989.83	41.16	34.31	-89.09	157.90	1,621.63	1,200.09	1,131.28	68.82	17.438		
6,703.59	5,008.77	5,631.90	4,989.81	41.23	34.35	-89.09	155.43	1,624.08	1,200.09	1,131.15	68.94	17.407		
,800.00	5,008.04	5,728.31	4,989.15	43.13	35.53	-89.10	86.89	1,691.88	1,200.10	1,127.79	72.31	16.597		
6,900.00	5,007.28	5,828.31	4,988.47	45.13	36.85	-89.10	15.79	1,762.20	1,200.10	1,124.07	76.03	15.784		
,000.00	5,006.51	5,928.31	4,987.78	47.16	38.27	-89.11	-55.30	1,832.52	1,200.10	1,120.28	79.82	15.036		
,100.00	5,005.75	6,028.31	4,987.10	49.21	39.77	-89.11	-126.39	1,902.85	1,200.10	1,116.42	83.68	14.341		
,200.00	5,004.99	6,128.31	4,986.41	51.28	41.35	-89.11	-197.49	1,973.17	1,200.10	1,112.48	87.62	13.697		
,300.00	5,004.23	6,228.31	4,985.73	53.37	42.99	-89.12	-268.58	2,043.49	1,200.10	1,108.48	91.62	13.099		
,400.00	5,003.47	6,328.31	4,985.04	55.47	44.70	-89.12	-339.67	2,113.82	1,200.10	1,104.43	95.68	12.544		
,500.00	5,002.70	6,428.31	4,984.36	57.59	46.46	-89.12	-410.77	2,184.14	1,200.10	1,100.33	99.78	12.028		
,600.00	5,001.94	6,528.31	4,983.67	59.72	48.27	-89.13	-481.86	2,254.46	1,200.11	1,096.18	103.92	11.548		
,700.00	5,001.18	6,628.31	4,982.99	61.86	50.12	-89.13	-552.95	2,324.78	1,200.11	1,092.00	108.11	11.101		
,800.00	5,000.42	6,728.31	4,982.30	64.01	52.01	-89.14	-624.04	2,395.11	1,200.11	1,087.79	112.32	10.685		
,900.00	4,999.65	6,828.31	4,981.62	66.18	53.93	-89.14	-695.14	2,465.43	1,200.11	1,083.54	116.57	10.296		
,000.00	4,998.89	6,928.31	4,980.93	68.35	55.88	-89.14	-766.23	2,535.75	1,200.11	1,079.28	120.83	9.932		
,100.00	4,998.13	7,028.31	4,980.24	70.52	57.86	-89.15	-837.32	2,606.07	1,200.11	1,074.99	125.13	9.591		
,200.00	4,997.37	7,128.31	4,979.56	72.71	59.86	-89.15	-908.42	2,676.40	1,200.11	1,070.68	129.44	9.272		
,300.00	4,996.61	7,228.31	4,978.87	74.90	61.88	-89.15	-979.51	2,746.72	1,200.12	1,066.35	133.77	8.972		
,400.00	4,995.84	7,328.31	4,978.19	77.09	63.92	-89.16	-1,050.60	2,817.04	1,200.12	1,062.00	138.11	8.689		
,500.00	4,995.08	7,428.31	4,977.50	79.29	65.98	-89.16	-1,121.70	2,887.37	1,200.12	1,057.64	142.48	8.423		
,600.00	4,994.32	7,528.31	4,976.82	81.50	68.05	-89.16	-1,192.79	2,957.69	1,200.12	1,053.27	146.85	8.172		
,700.00	4,993.56	7,628.31	4,976.13	83.71	70.14	-89.17	-1,263.88	3,028.01	1,200.12	1,048.88	151.24	7.935		
,800.00	4,992.80	7,728.31	4,975.45	85.93	72.24	-89.17	-1,334.98	3,098.33	1,200.12	1,044.48	155.64	7.711		
,900.00	4,992.03	7,828.31	4,974.76	88.14	74.36	-89.18	-1,406.07	3,168.66	1,200.12	1,040.08	160.05	7.499		
,000.00	4,991.27	7,928.31	4,974.08	90.37	76.48	-89.18	-1,477.16	3,238.98	1,200.12	1,035.66	164.47	7.297		
,100.00	4,990.51	8,028.31	4,973.39	92.59	78.61	-89.18	-1,548.26	3,309.30	1,200.13	1,031.23	168.89	7.106		
,200.00	4,989.75	8,128.31	4,972.71	94.82	80.75	-89.19	-1,619.35	3,379.63	1,200.13	1,026.80	173.33	6.924		
,300.00	4,988.99	8,228.31	4,972.02	97.05	82.90	-89.19	-1,690.44	3,449.95	1,200.13	1,022.36	177.77	6.751		
,400.00	4,988.22	8,328.31	4,971.34	99.29	85.06	-89.19	-1,761.53	3,520.27	1,200.13	1,017.91	182.22	6.586		
,500.00	4,987.46	8,428.31	4,970.65	101.52	87.23	-89.20	-1,832.63	3,590.59	1,200.13	1,013.46	186.68	6.429		
,600.00	4,986.70	8,528.31	4,969.97	103.76	89.40	-89.20	-1,903.72	3,660.92	1,200.13	1,009.00	191.14	6.279		
,700.00	4,985.94	8,628.31	4,969.28	106.00	91.58	-89.20	-1,974.81	3,731.24	1,200.13	1,004.53	195.60	6.136		
800.00	4,985.18	8,728.31	4,968.60	108.24	93.76	-89.21	-2,045.91	3,801.56	1,200.14	1,000.06	200.08	5.998		
900.00	4,984.41	8,828.31	4,967.91	110.49	95.95	-89.21	-2,117.00	3,871.88	1,200.14	995.58	204.55	5.867		
,000.00	4,983.65	8,928.31	4,967.22	112.74	98.14	-89.22	-2,188.09	3,942.21	1,200.14	991.10	209.03	5.741		
,100.00	4,982.89	9,028.31	4,966.54	114.98	100.34	-89.22	-2,259.19	4,012.53	1,200.14	986.62	213.52	5.621		
,200.00 ,300.00	4,982.13 4,981.36	9,128.31 9,228.31	4,965.85 4,965.17	117.23 119.48	102.54 104.74	-89.22 -89.23	-2,330.28 -2,401.37	4,082.85 4,153.18	1,200.14 1,200.14	982.13 977.64	218.01 222.50	5.505 5.394		
,400.00	4,980.60	9,328.31	4,964.48	121.74	106.95	-89.23	-2,472.47	4,223.50	1,200.14	973.15	227.00	5.287		
,500.00	4,979.84	9,428.31	4,963.80	123.99	109.16	-89.23	-2,543.56	4,293.82	1,200.14	968.65	231.50	5.184		
,600.00	4,979.08 4,978.32	9,528.31	4,963.11	126.25	111.38	-89.24	-2,614.65	4,364.14	1,200.15	964.15	236.00	5.085		
,700.00 ,800.00	4,978.32 4,977.55	9,628.31 9,728.31	4,962.43 4,961.74	128.50 130.76	113.60 115.82	-89.24 -89.25	-2,685.75 -2,756.84	4,434.47 4,504.79	1,200.15 1,200.15	959.64 955.14	240.50 245.01	4.990 4.898		
,900.00	4,976.79	9,828.31	4,961.06	133.02	118.04	-89.25	-2,827.93	4,575.11	1,200.15	950.63	249.52	4.810		
,900.00	4,976.03	9,928.31	4,960.37	135.02	120.27	-89.25	-2,899.02	4,645.44	1,200.15	930.03 946.12	254.04	4.810		
,100.00	4,976.03	10,028.31	4,959.69	135.28	120.27	-89.25	-2,999.02	4,045.44	1,200.15	940.12 941.60	258.55	4.642		
,200.00	4,974.51	10,128.31	4,959.00	139.80	122.30	-89.26	-3,041.21	4,786.08	1,200.15	937.09	263.07	4.562		
,300.00	4,973.74	10,228.31	4,958.32	142.06	126.96	-89.26	-3,112.30	4,856.40	1,200.16	932.57	267.59	4.485		

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Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft
Site Error:	0.00 ft	North Reference:	Grid
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 ft	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16
Reference Design:	rev0	Offset TVD Reference:	Offset Datum

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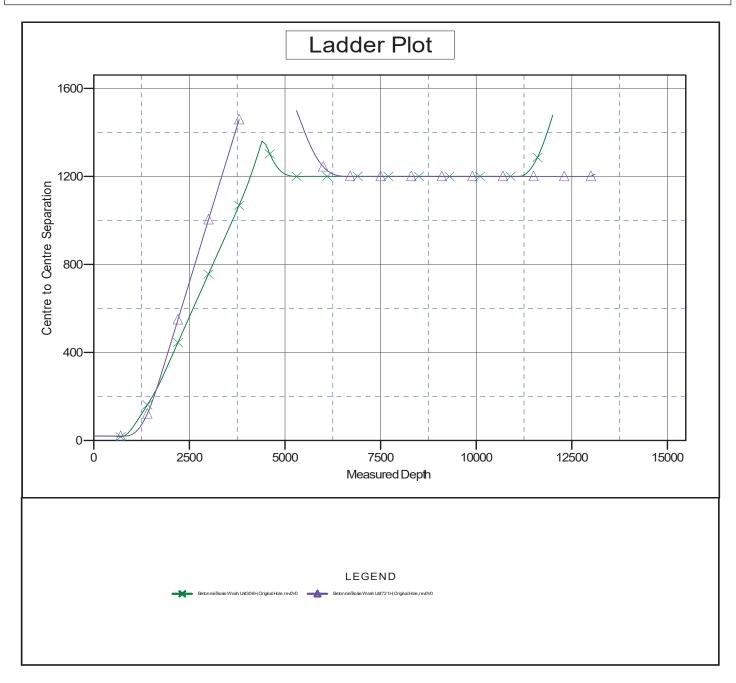
	rence	MWD Off			lajor Axis		Offset Wellb	ore Centre	Dist	Rule Assi tance	-		Offset Well Error:	0.00 f
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Minimum Separation (ft)	Separation Factor	Warning	
11,400.00	4,972.98	10,328.31	4,957.63	144.33	129.20	-89.27	-3,183.40	4,926.73	1,200.16	928.05	272.11	4.411		
11,500.00	4,972.22	10,428.31	4,956.95	146.59	131.44	-89.27	-3,254.49	4,997.05	1,200.16	923.53	276.63	4.338		
11,600.00	4,971.46	10,528.31	4,956.26	148.86	133.68	-89.27	-3,325.58	5,067.37	1,200.16	919.00	281.16	4.269		
11,700.00	4,970.70	10,628.31	4,955.58	151.12	135.92	-89.28	-3,396.68	5,137.69	1,200.16	914.48	285.68	4.201		
11,800.00	4,969.93	10,728.31	4,954.89	153.39	138.16	-89.28	-3,467.77	5,208.02	1,200.16	909.95	290.21	4.135		
11,900.00	4,969.17	10,828.31	4,954.21	155.66	140.40	-89.29	-3,538.86	5,278.34	1,200.17	905.42	294.74	4.072		
12,000.00	4,968.41	10,928.31	4,953.52	157.92	142.65	-89.29	-3,609.96	5,348.66	1,200.17	900.89	299.27	4.010		
12,100.00	4,967.65	11,028.31	4,952.83	160.19	144.89	-89.29	-3,681.05	5,418.99	1,200.17	896.36	303.81	3.950		
12,200.00	4,966.89	11,128.31	4,952.15	162.46	147.14	-89.30	-3,752.14	5,489.31	1,200.17	891.83	308.34	3.892		
12,300.00	4,966.12	11,228.31	4,951.46	164.73	149.39	-89.30	-3,823.24	5,559.63	1,200.17	887.29	312.88	3.836		
12,400.00	4,965.36	11,328.31	4,950.78	167.00	151.64	-89.30	-3,894.33	5,629.95	1,200.17	882.76	317.41	3.781		
12,500.00	4,964.60	11,428.31	4,950.09	169.27	153.89	-89.31	-3,965.42	5,700.28	1,200.17	878.22	321.95	3.728		
12,600.00	4,963.84	11,528.31	4,949.41	171.54	156.15	-89.31	-4,036.51	5,770.60	1,200.18	873.69	326.49	3.676		
12,700.00	4,963.08	11,628.31	4,948.72	173.81	158.40	-89.31	-4,107.61	5,840.92	1,200.18	869.15	331.03	3.626		
12,800.00	4,962.31	11,728.31	4,948.04	176.08	160.66	-89.32	-4,178.70	5,911.25	1,200.18	864.61	335.57	3.577		
12,900.00	4,961.55	11,828.31	4,947.35	178.36	162.91	-89.32	-4,249.79	5,981.57	1,200.18	860.07	340.11	3.529		
12,900.01	4,961.55	11,828.31	4,947.35	178.36	162.91	-89.32	-4,249.80	5,981.57	1,200.18	860.07	340.11	3.529		
13,000.00	4,960.79	11,879.77	4,947.00	180.63	164.07	-89.32	-4,286.38	6,017.76	1,201.16	856.97	344.19	3.490 SF		
13,100.00	4,960.03	11,879.77	4,947.00	182.90	164.07	-89.32	-4,286.38	6,017.76	1,209.34	863.99	345.35	3.502		
13,103.49	4,960.00	11,879.77	4,947.00	182.98	164.07	-89.32	-4,286.38	6,017.76	1,209.77	864.44	345.34	3.503		

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)			
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft			
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft			
Site Error:	0.00 ft	North Reference:	Grid			
Reference Well:	Betonnie Tsosie Wash Unit 305H	Survey Calculation Method:	Minimum Curvature			
Well Error:	0.00 ft	Output errors are at	2.00 sigma			
Reference Wellbore	Original Hole	Database:	DT_Aug2923v16			
Reference Design:	rev0	Offset TVD Reference:	Offset Datum			

Reference Depths are relative to RKB=6837+25 @ 6862.00ft Offset Depths are relative to Offset Datum Central Meridian is -107.8333333333 Coordinates are relative to: Betonnie Tsosie Wash Unit (305, 306 & 721) Coordinate System is US State Plane 1983, New Mexico Western Zone Grid Convergence at Surface is: 0.09°



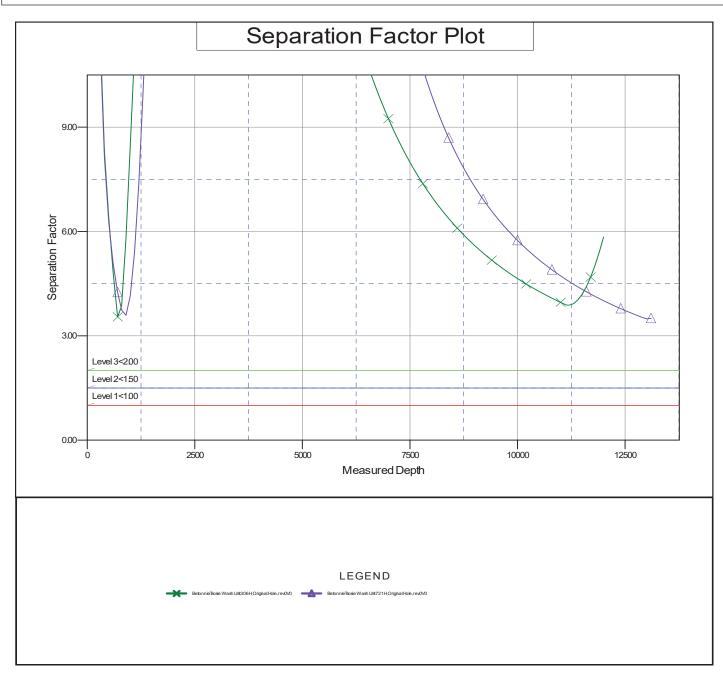
CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

1/16/2024 10:42:08AM



Company:	Enduring Resources LLC	Local Co-ordinate Reference:	Site Betonnie Tsosie Wash Unit (305, 306 & 721)			
Project:	San Juan County, New Mexico NAD83 NM W	TVD Reference:	RKB=6837+25 @ 6862.00ft			
Reference Site:	Betonnie Tsosie Wash Unit (305, 306 & 721)	MD Reference:	RKB=6837+25 @ 6862.00ft			
Site Error:	0.00 ft	North Reference:	Grid			
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Reference Depths are relative to RKB=6837+25 @ 6862.00ft Offset Depths are relative to Offset Datum Central Meridian is -107.8333333333 Coordinates are relative to: Betonnie Tsosie Wash Unit (305, 306 & 721) Coordinate System is US State Plane 1983, New Mexico Western Zone Grid Convergence at Surface is: 0.09°



CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

1/16/2024 10:42:08AM

	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.									
<u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>									
I. Operator:DJR Operating	I. Operator:DJR Operating, LLCOGRID:371838Date: _1_/_31_/_2024_								
II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other.									
If Other, please describe:									
III. Well(s): 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	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D			
Betonnie Tsosie Wash Unit 305H	30-045-38327	B-21-23N-08W	406 FNL x 2059 FEL	532	677	189			
Betonnie Tsosie Wash Unit 306H	30-045-38328	B-21-23N-08W	425 FNL x 2054 FEL	305	388	108			
Betonnie Tsosie Wash Unit 721H	30-045-38329	B-21-23N-08W	387 FNL x 2064 FEL	487	620	173			
IV. Central Delivery Point Name:Chaco Processing Plant [See 19.15.27.9(D)(1) NMAC]									
V. Anticipated Schedule: Prov proposed to be recompleted fro					of wells propos	ed to be drilled or			
Well Name	API Spud Date		TD Reached Date	Completion	Initial	First			
, on runic				Commenceme Date					
Betonnie Tsosie Wash Unit 305H	30-045-38327	02/16/2024 02/26/2024		04/16/2024	04/26/202	4 05/31/2024			
Betonnie Tsosie Wash Unit 306H	30-045-38328	02/17/2024	02/27/2024	04/16/2024	04/26/202	4 05/31/2024			
Betonnie Tsosie Wash Unit 721H	30-045-38329	02/18/2024	02/28/2024	04/16/2024	04/26/202	4 05/31/2024			
L	11				1				
 VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: ⊠ Attach a complete description of the actions Operator will take to comply with the requirements of 									
Subsection A through F of 19.15.27.8 NMAC.									
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 Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. \Box 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 \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

 \Box Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box 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 of the specific information for which confidentiality is asserted and the basis for such assertion.

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

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes 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

 \Box 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. \Box 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. \Box 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:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

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:
Printed Name: Shaw-Marie Ford
Title: Regulatory Specialist
E-mail Address: sford@djrllc.com
Date: 01/31/2024
Phone: 505-716-3297
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

.



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:

- 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.
- The 3-phase production separator will be equipped with a 0.75 MMBtu/hr indirect fired heater.

Heater treaters will be set as follows:

- Individual heater treaters will be set for the individual well.
- 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.
- 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.

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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:

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

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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

- 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.
- 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:

- DJR facilities are built and ready from day 1 of Flowback.
- 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.

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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.

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- 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.



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.

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Received by OCD: 1/31/2024310151140(AMI



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 #305H Betonnie Tsosie Wash Unit Lease: NMNM76842 Unit:NMNM135219A SH: NW¼NE¼ Section 21, T.23 N., R.8 W. BH: SE¼NE¼ Section 27, 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. \boxtimes 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 F. \boxtimes 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. <u>GENERAL</u>

- 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 life-threatening 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. <u>CHANGE OF PLANS OR ABANDONMENT</u>

- 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

District IV

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

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

CONDITIONS

Operator:	OGRID:
DJR OPERATING, LLC	371838
1 Road 3263	Action Number:
Aztec, NM 87410	309867
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

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

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Action 309867