AFMSS

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

Sundry Print Report

09/03/2024

Well Name: FEDERAL E	**Well Location:** T27N / R8W / SEC 25 / NWNW / 36.549647 / -107.642193	**County or Parish/State:** SAN JUAN / NM
Well Number: 4	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMSF078480	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 300452346600S1	**Operator:** EPIC ENERGY LLC	

Notice of Intent

Sundry ID: 2808250

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 08/23/2024

Time Sundry Submitted: 12:01

Date proposed operation will begin: 08/23/2024

Procedure Description: Please see attached P&A Procedure. Reclamation Plan is attached. On-site was conducted with Abiodun Adeloye on July 12, 2024.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

NOI_P_A_Federal_E__004._20240823120004.pdf

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US Well Number: 300452346600S1	**Operator:** EPIC ENERGY LLC	

Conditions of Approval

Additional

2808250_NOIA_E_4_3004523466_KR_08302024_20240830111253.pdf

General_Requirement_PxA_20240830111237.pdf

Federal_E_No_4_Geo_Rpt_20240829151918.pdf

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: SHAWNA MARTINEZ

Signed on: AUG 23, 2024 12:00 PM

Name: EPIC ENERGY LLC

Title: Regulatory Tech

Street Address: 332 RD 3100

City: AZTEC **State:** NM

Phone: (505) 327-4892

Email address: SHAWNA@WALSHENG.NET

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 08/30/2024

Signature: Kenneth Rennick

P&A Procedure

EPIC Energy – Federal E #4

Otero Chacra

800' FNL & 500 FWL, Section 25, T27N, R8W

San Juan Co, New Mexico, API #30-045-23466

Plug & Abandonment Procedure:

Note: All cement volumes use 100% excess outside casing and 50' excess inside pipe. Stabilizing wellbore fluid will be 8.33 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class G neat 1.15 ft^3/sk or equivalent. If casing pressure tests or the hole stays full (static) tagging plugs will not be required. Records indicate that cement was circulated to surface on both surface and production casing strings. Volumes calculated off 4-1/2", 9.5#, K55 casing.

Prior to Mobilization

1. Notify BLM & NMOCD 48 hrs before moving on to location to start P&A operations.
2. Verify all cement volumes based on actual slurry to be pumped. Calculations based on 1.15 ft^3/sk.
3. Comply with all COA's from BLM and NMOCD

P&A Procedure

1. MIRU pulling unit/workover rig, cement equipment, clean up tank and related surface equipment. Note: Monitor and record BH pressures throughout P&A job.
2. ND WH, NU BOP, RU rig floor and 1-1/2" handling tools.
3. POOH, laying down 1-1/2" IJ tubing.
4. PU 2-3/8" work string & TIH with 4 ½" casing scraper to 2952' (top perf) . TOOH LD 4 ½" scraper.
5. TIH with CICR and set @ ~ 2902' (50' above Chacra top perf) . Roll hole with fresh water. PT tubing to 500 psi. PT casing to 500 psi. TOH.
6. MIRU WL to run CBL, send copy to NMOCD.

1. **Plug #1, 2902' - 2852' (Chacra: Perfs 2952' - 3284'):** Sting out of CICR, mix and pump 4 sxs (4.6 cf) Class G Neat, leaving 50' on top of retainer. PU 200' above plug reverse circulate to clean tubing. WOC and tag plug if hole is not staying full.

2. **Plug #2, 2192'-1848' (PC Top 2142', Fruitland Top: 1948'):** Mix & spot 28 sx (32.2 ft^3) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if hole is not staying full.

3. **Plug #3, 1365' – 1515' (Kirtland : 1465'):** Mix and spot 12 sx (13.8 ft^3) Class G neat cement in balanced plug. PUH 100' above plug and reverse circulate tubing clean. WOC and tag plug if hole is not staying full (static). Re-spot cement if necessary.

4. **Plug #4, 630' – 780' (Ojo Alamo top: 730'):** Mix and spot 12 sx (13.8 ft^3) Class G neat cement in balanced plug. PUH 100' above plug and reverse circulate tubing clean. WOC and tag plug if hole is not staying full (static). Re-spot cement if necessary.

5. **Plug #5, Surface – 262'.** If required, shoot 2 holes at 262' and attempt to circulate out BH. Otherwise, mix and pump 28 sx (32.2 ft^3) or until cement circulates to surface. Top off cement as necessary.

7. ND BOP and cut off wellhead below surface casing flange, top off casing and annulus as necessary. Install P&A marker and cut off and/or remove anchors. RD, MOL. Notify BLM prior to reclamation phase.

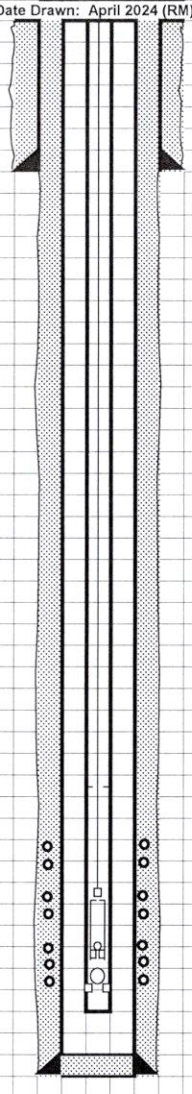
John Thompson

Engineer

Well/Facility:	Federal E#4	Well Status:	Producing
Operator:	Epic Energy	Orig Oper:	AAA Operating Co, Inc
Lease/Op Agmt:	SF-078480	KB:	
Field:	Otero Chacra	API #:	30-045-23466
County:	San Juan	GR/KB:	5968'GR
State:	NM	TD:	3350'
Spud:	5/21/1979	PBTD:	
Comp. Date:	8/6/1979	WI:	
1st Prod:		NRI:	
Wellhead Conn:	Rector Type "R" Nom 8" Body x 8-5/8" OD Female		
Surface Loc:	800'FNL & 500' FWL		
Sec-Twn-Rge:	D, Sec 25, T27N, R8W		
Pumper:			
Foreman:			
Anchors Tested			
Notes:			

Date:	History:

Date Drawn: April 2024 (RM)



PBTD:
TD: 3350' KB

WALSH ENGINEERING & PRODUCTION CORP.

Casing Record

Surface

OD	WT/FT	GRADE	Top	Bottom	Thead	Bit Size	
8-5/8"	24#		0	212'	ST&C	12-3/4"	

Production

OD	WT/FT	GRADE	Top	Bottom	Thread	Bit Size	200sx
4.5"	9.5		0	3350'	ST&C	6-3/4"	353sx

Cement

String/Stage	Cement Type and Volume	TOC/Method
Surface	Lead: 200sx	Not Reported
	Tail:	
1st Stage Production	Lead: 353sx	Not Reported
	Tail:	
2nd Stage Production	Lead: N/A	
	Tail:	

Tubing Record

Size:	1-1/2"		Depth:	3165'			
Grade:	NR		SN:	B&R			
Thread:	IJ						

NR="Not Reported"

Rod Detail

Polish rod:	
Rods:	
Rods:	
Pump:	

Perforations (Depth, SPF, EHD)

2952', 3075', 81', 3101', 11', 22', 45', 49', 53', 96', 3230', 38', 41', 81', 84', 15 total perforations, 1SPF 0.33 EHD

Stimulation Detail

300 gal 15% HCl Acid, Frac w/45,000 gal of water 1% KCl & 45,000lbs of 20/40 sand

Production Tubing Detail

	Length	WT			Top	Bottom
KB Adjustment	5.00					5.00
						5.00
						5.00
						5.00
						5.00

Rod Detail - UNK

					Top	Bottom
Pump details - UNK						

Pumping Unit:		Gear Sheave:	
API Designation:		Stroke Length:	
Samson Post SN:		Gear Ratio:	
Gear Box SN:		SPM:	
Structural Unbalance:		Horse Power:	
Power:		Volts:	
Power SN:		Amps:	
Sheave Size:		Belts:	

Deviation

MD	Inclination
789'	0.25
1427'	0.25
1948'	0.50
2421'	0.75
3062'	0.75
3360'	0.75

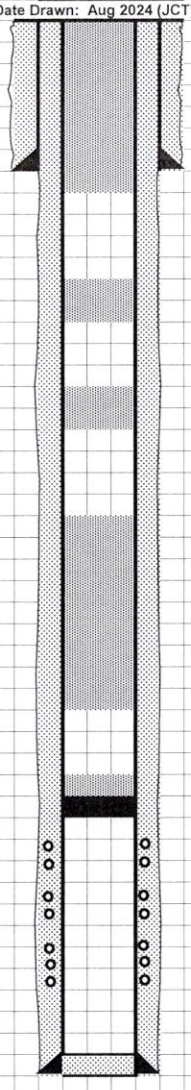
Geologic Markers

MD	Formation
	Ojo Alamo
	Kirtland
1948'	Fruitland
2142'	Pictured Cliffs
2952'	Chacra

Well/Facility:	Federal E#4	Well Status:	Producing
Operator:	Epic Energy	Orig Oper:	AAA Operating Co, Inc
Lease/Op Agmt:	SF-078480	KB:	
Field:	Otero Chacra	API #:	30-045-23466
County:	San Juan	GR/KB:	5968'GR
State:	NM	TD:	3350'
Spud:	5/21/1979	PBTD:	
Comp. Date:	8/6/1979	WI:	
1st Prod:		NRI:	
Wellhead Conn:	Rector Type "R" Nom 8" Body x 8-5/8" OD Female		
Surface Loc:	800'FNL & 500' FWL		
Sec-Twn-Rge:	D, Sec 25, T27N, R8W		
Pumper:			
Foreman:			
Anchors Tested			
Notes:			

Date:	History:

Date Drawn: Aug 2024 (JCT)



Plug #5: Surf - 262'
21 sx (24.2 cf) of Class G Neat

8-5/8" at 212'

Plug #4: 630' - 780'
12 sx (13.8 cf) of Class G Neat
Ojo Alamo Top: 730'

Plug #3: 1365' - 1515'
12 sx (13.8 cf) of Class G Neat
Kirtland Top: 1465'

Plug #2: 2192' - 1848'
28 sx (32.2 cf) of Class G Neat
PC Top: 2142' & Fruitland Top: 1948'

Plug #1: 2902' - 2852'
4 sx (4.6 cf) of Class G Neat
CICR: 2902'

Perforations (Depth, SPF, EHD)
2952', 3075', 81', 3101', 11', 22', 45', 49', 53', 96', 3230', 38', 41', 81', 84', 15 total perforations, 1SPF 0.33 EHD

PBTD:
TD: 3350' KB

Production Tubing Detail

	Length	WT			Top	Bottom
KB Adjustment	5.00					5.00
						5.00
						5.00
						5.00
						5.00

Rod Detail - UNK

					Top	Bottom
Pump details - UNK						

Deviation	
MD	Inclination
789'	0.25
1427'	0.25
1948'	0.50
2421'	0.75
3062'	0.75
3360'	0.75

Geologic Markers	
MD	Formation
730'	Ojo Alamo
1465'	Kirtland
1948'	Fruitland
2142'	Pictured Cliffs
3144'	Chacra

Pumping Unit:		Gear Sheave:	
API Designation:		Stroke Length:	
Samson Post SN:		Gear Ratio:	
Gear Box SN:		SPM:	
Structural Unbalance:		Horse Power:	
Power:		Volts:	
Power SN:		Amps:	
Sheave Size:		Belts:	

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402

AFMSS 2 Sundry ID 2808250

Attachment to notice of Intention to Abandon

Well: Federal E 4

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. The following modifications to your plugging program are to be made:
   a. Modify the TOC for Plug 2 to 1740' to account for the BLM geologist's pick for the Fruitland top.
   b. Combine Plug 3 and 4 to make the BOC 1160' and the TOC 630' to entirely cover the Ojo Alamo and to account for the BLM geologist's pick for the Kirtland top.

3. Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

K. Rennick 08/30/2024

GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 **A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.**

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.

5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.

5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.

6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) with the Field Manager, Bureau of Land Management, 6251 College Blvd., Suite A, Farmington, NM 87402. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

BLM - FFO - Geologic Report

Date Completed 8/29/2024

Well No.	Federal E No 4			Surf. Loc.	800	FNL	500 FWL
Lease No.	NMSF078480				Sec	8	T27N 8W
Operator	Epic Energy Inc.			County:	San Juan	State	New Mexico
TVD:	3350	PBTD:	3350	Formation:	Otero Chacra		
Elevation	GL	5968		Elevation:	Est. KB	5983	

Geologic Formations	Est. tops	Subsea Elev.	Remarks
Nacimiento Fm.	Surface		Surface /fresh water sands
Ojo Alamo Ss	730	5253	Fresh water aquifer
Kirtland Fm.	1110	4873	
Fruitland Fm.	1840	4143	Coal/gas/possible water
Pictured Cliffs	2142	3841	Possible gas/water
Lewis Shale	2215	3768	Source rock

Remarks:

-Vertical wellbore, all formation depths are TVD from KB at the wellhead.

-Modify the TOC for Plug 2 to 1740' to account for the BLM geologist's pick for the Fruitland top.

-Combine Plug 3 and 4 to make the BOC 1160' and the TOC 630' to entirely cover the Ojo Alamo and to account for the BLM geologist's pick for the Kirtland top.

Reference Well:

Same

Prepared by: Walter Gage

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 381164

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 381164
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	NMOCD calls Chacra top at 3144 - cement plug should be ran across chacra top 50 feet below 100 feet above - not required to tag due to perforations - can run in open ended - Notify NMOCD 24 hours prior to moving on - monitor string pressures daily report on subsequent - submit all logs prior to subsequent	9/18/2024