ARMSS

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

Sundry Print Report

12/07/2021

Well Name: TONKIN FEDERAL

Well Location: T27N / R12W / SEC 23 / SENE / 36.563889 / -108.074066

County or Parish/State: SAN JUAN / NM

Well Number: 1E

Type of Well: OTHER

Allottee or Tribe Name:

Lease Number: NMNM02691

Unit or CA Name:

Unit or CA Number:

US Well Number: 300452602800S1

Well Status: Inactive

Operator: EPIC ENERGY LLC

Notice of Intent

Sundry ID: 2647079

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 12/06/2021

Time Sundry Submitted: 08:46

Date proposed operation will begin: 12/08/2021

Procedure Description: Please find attached P&A Procedure

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Tonkin_Federal_001E_20211206084546.pdf

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Operator: EPIC ENERGY LLC

Conditions of Approval

Additional Reviews

2647079_NOIA_Fed_1E_3004526028_KR_12072021_20211207095505.pdf

General_Requirement_PxA_20211207095449.pdf

27N12W23H_Tonkin_Federal_1E_20211206162736.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: VANESSA FIELDS

Signed on: DEC 06, 2021 08:46 AM

Name: EPIC ENERGY LLC

Title: Regulatory Manager

Street Address: 7415 EAST MAIN STREET

City: FARMINGTON **State:** NM

Phone: (505) 327-4892

Email address: VANESSA@WALSHENG.NET

Field Representative

Representative Name: VANESSA FIELDS

Street Address: 332 RD 3100

City: Aztec **State:** NM **Zip:** 87410

Phone: (150)578-7910

Email address: vanessa@walsheng.net

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

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P&A Procedure

EPIC Energy – Tonkin Federal #1E

API: 30-045-26028

1450' FNL & 790' EL, Section 23, T27N, R12W

San Juan County, New Mexico

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. Cement calculations based on 4-1/2" 10.5# casing. Well previously plugged back from Dakota. Current PBTD is 2302'. Cement bond log to surface available in well file - dated 4/20/2006. If casing pressure tests tagging plugs will not be required.

Prior to Mobilization

1. Notify BLM & NMOCD
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 PU and cement equipment
2. ND horse head. LD stuffing box and polished rod. Pull rods and pump (58 * 3/4" rods)
3. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools
4. POOH 2 3/8" production string set at ~1580'.
5. TIH with 4-½" casing scraper to 1460' . TOOH LD 4-½" scraper.
6. TIH with CICR and set @ 1410'. Roll hole with fresh water. PT tubing to 500 psi.
7. Dakota, Gallup, and Mesa Verde plugs (#1-3) completed
8. **Plug #4, 1282' – 1518' Fruitland Coal Top @ 1505'; Perfs: LFC 1505-1518', UFC 1460-1464' (UFC perfs not broken down):** Sting into CICR Mix & pump 13 sks (14.95 cf) of Class G cement (or equivalent) covering from CICR to bottom of Fruitland Coal perfs. Sting out of CICR, mix and pump 10 sks (11.5 cf) of Class G cement (or equivalent) in balanced plug. Leaving 100' on top of retainer. PU 200' above plug and reverse circulate tubing clean. TOOH LD setting tool. WOC. PT casing to 500 psi.
9. CBL available in well file. Good cement to ~750'. Spotty cement above.
10. **Plug #5, 0' - 534 ' (Kirtland Top @ 484'):** RIH open ended to ~ 534'. Mix & pump ~42 sx (48.3 cf) of Class G cement (or equivalent) until cement circulates to surface. Top off as necessary.
11. 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 - Restore location per BLM stipulations.

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Kyle T. Mason
Operations Engineer

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Tonkin Federal #1E

Current WBD

Escrito Gallup

560' FNL & 1980' FWL, Section 34, T24N, R7W, Rio Arriba County, NM

API: 30-039-05272

Today's Date: 10/25/2021
Spud: 10/2/1984
Completed: 11/17/1984
Elevation: 5989' GL
KB: 12.5'

Ojo Alamo @ Surface
Kirtland @ 484'

Fruitland Coal @ 1505'

Pictured Cliffs @ 1520'

Cliffhouse @ 2406'

Pt Lookout @ 4380'

Mancos @ 4282'

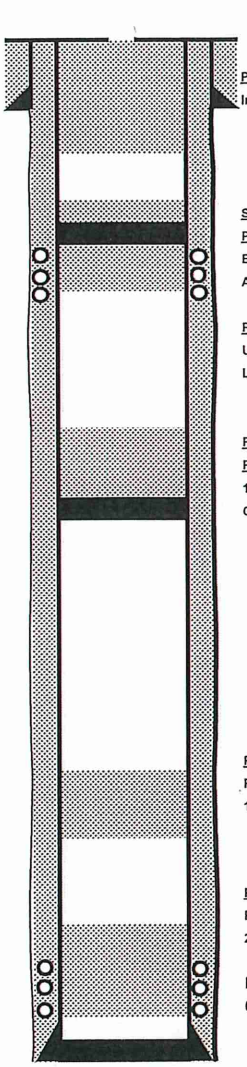
Gallup @ 5085'

Greenhorn @ 5915'

Graneros @ 6031'

Dakota @ 6089'

Hole Size
7.875"



Plug #5 Kirtland, Ojo Alamo, Surface (0'-534')
Inside: 42 sks (48.3 cf)

Set CICR @ 1410'
Plug #4 Fruitland/PC (1282'-1518')
Below CICR: 13 sks (14.95 cf)
Above CICR: 10 sks (11.5 cf)

Perfs
UFC: 1460-1464'
LFC: 1505-1518'

Previously abandoned
Plug #3: 2472' - 2302' (TOC)
15 sx (18 cf)
CICR set at 2472'

Previously abandoned
Plug #2: 5117' - 4915' (TOC)
15 sx (18 cf)

Previously abandoned
Plug #1: 6174' - 6011' (TOC)
25 sx (29.5 cf) & 15 sx (18 cf)

Dakota Perforations
6095-6174'

PBTD: 2302'
TD: 6256'

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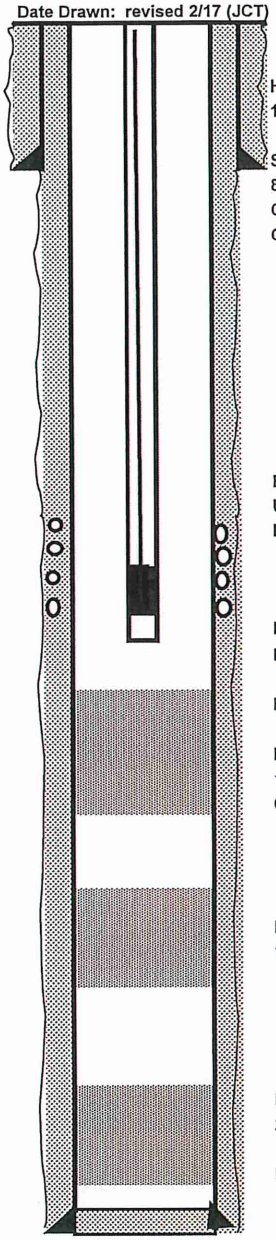
Well/Facility:	Tonkin #1E	Well Status:	Producing
Operator:	Thompson E&P	Orig Oper:	Alex Campbell
Lease No.:	NM-002691	Inj Interval:	n/a
Field:	Basin FTC	API #:	30-045-26028
County:	San Juan	GR/KB:	5989' GL/6001.5' KB
State:	NM	TD:	6265' KB
Spud:	10/2/1984	PBTD:	2302' KB
Comp. Date:	11/17/1984	WI:	
1st Prod:	11/17/1984	NRI:	
Xmas tree:			
Surface Loc:	1450' fnl & 790' fel		
Sec-Twn-Rge:	Sec 23/T27N/12W		
Comments:			

Date Drawn: revised 2/17 (JCT)

WALSH ENGINEERING FARMINGTON, NM



Hole Size
12-1/4"

Surf Csg @ 255' KB
8-5/8", 23#, J55
Cement w/ 150sx (177 cf)
Circulated cmt to surface

Existing Perforations:
U FTC: 1460' -1464'
L FTC: 1505' - 1518'

Frac L FTC w/ 60K 20/40 brady in 20# x/l gel & 70Q foam
Did not frac upper coals

Hole Size: 7-7/8"

Plug #3: 2472' - 2302' (TOC)
15 sx (18 cf)
CICR set at 2472'

Plug #2: 5117" - 4915' (TOC)
15 sx (18 cf)

Plug #1: 6174' - 6011' (TOC)
25 sx (29.5 cf) & 15 sx (18 cf)

DK perfs: 6095'-6174'

TD - 6256' KB
PBTD - 2302' KB

4-1/2", 10.5#, J55 at 6264' KB
Cemented w/ 508 cf 50/50 pox mix w/ 2% gel & 10% salt
1470 cf Class B w/ Econofil & 59 cf of Class B

Date:	History:
April 2006	Take over well. Plug & abadon well bore back to PC/FTC
	formations. Good bond to 1350', then spotty to TOC at
	775' (CBL).
April 2006	Frac lower coals w/ 60K 20/40 Brady. Did not frac upper
	coals due to sand in wellbore f' 1st stage.
June 2009	Pump change - checked for fill - none
Dec 2009	Pump change & tbg repair (replaced bottom 2 jts)
May 2010	Ran scraper over perfs, tbg showed signs of scale on
	bottom 12 jts. Pumped 500 gal of 15% HCL
Nov 2013	PT tbg OK. Change out pump
June 2013	Pump Change (traveling valve not holding - scale build
	up). Swabbed and return well to production
June 2015	Pump change. Swab, very little fluid entry.
Aug 2015	Checked for fill, very little fluid entry. Installed
	baird valve on tbg.
Feb 2016	Found pump stuck in scale, swabbed well before running
	new pump (ran pump w/ HVR to help w/ trash)

Deviation		Geologic Markers	
MD	Inclination	MD	Formation
			Ojo Alamo
			Kirtland
			Fruitland Sand
			Fruitland Coal
		1520'	Pictured Cliffs
		2406'	Cliffhouse
		4282'	Mancos
		5085'	Gallup
		5915'	Greenhorn
		6031'	Graneros
		6089'	Dakota

Tubing Detail			
	Length	Top	Bottom
KB Adjustment		0	10.00
49 jts of 2-3/8", 4.7#, EUE, J55	1538.78	10.00	1548.78
Seating nipple	1.10	1548.78	1549.88
Slotted Mud Anchor	29.90	1549.88	1579.78
			0.00

Rod Detail -			
	Length	Top	Bottom
2 ea. 1-1/4" sinker bars			
58 ea. 3/4" plain rods			
2 ea. 8' & 1 ea. 2' x 3/4" pony			

Pump Detail
2"x1-1/4"x5'x6'x9' RHAC w/ 6' gas anchor (John Crane/CDI)

Pumping Unit: _____ Gear Sheave: _____
API Designation: _____ Stroke Length: _____
Samson Post SN: Gear Ratio:

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

AFMSS 2 Sundry ID 2647079

Attachment to notice of Intention to Abandon

Well: Tonkin Federal 1E

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

3. The following modifications to your plugging program are to be made:

   a) Add a plug to cover the Chacra top at 2018 feet.
   b) Add a plug to cover the Pictured Cliffs top at 1530 feet.
   c) Add a plug, or extend Plug No. 4 (Fruitland), to cover BLM pick for the Fruitland formation top at 1280 feet.
   d) Bring the bottom of Plug No. 5 (Kirtland, Ojo Alamo, and Surface) down to 560 feet.

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 12/07/2021

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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.**

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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), five copies, 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.

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BLM FLUID MINERALS
P&A Geologic Report

Date Completed: 12/6/2021

Well No. Tonkin Federal #1E (API# 30-045-26028)		Location	1450	FNL	&	790 FEL
Lease No. NMNM-02691		Sec. 23	T27N			R12W
Operator Epic Energy, LLC		County	San Juan		State	New Mexico
Total Depth 6265'	PBTD 2302'	Formation	Fruitland coal (previously Dakota)			
Elevation (GL) 5976'		Elevation (KB) 5989'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm			Surf	360	Surface/freshwater sands
Ojo Alamo Ss			360	510	Aquifer (freshwater)
Kirtland Shale			510	1280	
Fruitland Fm			1280	1530	Coal/Gas/Possible water
Pictured Cliffs Ss			1530	1815	Gas
Lewis Shale			1815	2018	
Chacra			2018	PBTD	
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					

Remarks:
P & A

- BLM picks for the top of the Pictured Cliffs, Chacra, Kirtland and Ojo Alamo formations vary from Operator picks.
- Note: in the "Current WBD" submitted by operator, the well location information and API number are incorrect. They are correct elsewhere in the NOI.
- Well was originally drilled and completed in the Dakota formation, then plugged back to 2302' and re-completed in the Fruitland coal in May 2006. CBL was run in 2006.
- Add a plug to cover the Chacra top at 2018'.
- Add a plug to cover the Pictured Cliffs top at 1530'.
- Add a plug, or extend Plug #4 (Fruitland), to cover BLM pick for the Fruitland formation top at 1280'. Plug #4 as proposed adequately covers the Fruitland coal perforations, but not the Fruitland formation top.
- Bring the bottom of Plug #5 (Kirtland, Ojo Alamo and Surface) down to 560'.
- The plugs proposed in the P&A procedure, with changes as recommended above, will adequately protect any freshwater sands in this well bore.
- Fruitland perfs 1460' – 1464' and 1505' – 1518'.

Reference Well:
1) **Formation Tops**
Same

Prepared by: *Chris Wenman*

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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 65354

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 65354
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	12/7/2021
kpickford	Adhere to BLM approved plugs (See GEO report)	12/7/2021