

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

Sundry Print Report  
06/22/2023

Well Name: FAIRFIELD	Well Location: T27N / R13W / SEC 15 / NENE / 36.580322 / -108.19957	County or Parish/State: SAN JUAN / NM
Well Number: 2	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM060402	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004506589	Well Status: Gas Well Shut In	Operator: EPIC ENERGY LLC

### Notice of Intent

Sundry ID: 2735663

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 06/13/2023

Time Sundry Submitted: 03:08

Date proposed operation will begin: 06/13/2023

Procedure Description: Epic Energy, LLC propose to plug and abandon the subject well. Please find attached the P&A Procedure, WBD and Reclamation plan.

### Surface Disturbance

Is any additional surface disturbance proposed?: No

### NOI Attachments

Procedure Description

Fairfield\_2\_PA\_Procedures\_20230613150824.pdf

<b>Well Name:</b> FAIRFIELD	<b>Well Location:</b> T27N / R13W / SEC 15 / NENE / 36.580322 / -108.19957	<b>County or Parish/State:</b> SAN JUAN / NM
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<b>US Well Number:</b> 3004506589	<b>Well Status:</b> Gas Well Shut In	<b>Operator:</b> EPIC ENERGY LLC

### Conditions of Approval

#### Additional

PxA\_27N13W15AKpc\_Fairfield\_002\_20230621161750.pdf

#### Authorized

General\_Requirement\_PxA\_20230621163222.pdf

2735663\_NOIA\_2\_3004506589\_KR\_06212023\_20230621163211.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:** ARLEEN SMITH

**Signed on:** JUN 13, 2023 03:08 PM

**Name:** EPIC ENERGY LLC

**Title:** Regulatory Specialist

**Street Address:** 332 RD 3100

**City:** AZTEC

**State:** NM

**Phone:** (505) 327-4892

**Email address:** ARLEEN@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:** 06/21/2023

**Signature:** Kenneth Rennick

**P&A Procedure**  
**EPIC Energy – Fairfield #2**  
West Kutz Pictured Cliffs  
790' FNL & 790' FEL, Section 15, T27N, R13W  
San Juan Co, New Mexico, API #30-045-06589

**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<sup>3</sup>/sk or equivalent. If casing pressure tests tagging plugs will not be required. Cement circulated on surface casing string. Well previously plugged back from Dakota. Production casing string was perforated and cement circulated from 1335' to surface. Volumes calculated off 4-1/2" 10.5# casing.

**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<sup>3</sup>/sk.
3. Comply with all COA's from BLM and NMOCD

**P&A Procedure**

1. MIRU PU and cement equipment
2. LD horses head. Unseat pump. POOH with pump/rods.
3. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools.
4. POOH 2 3/8" production string set at ~1338'.
5. **Plug #1, 1575' – surface' (Perfs 1380'-1487')**: Tie onto WH. Mix and pump 20 sxs Class G w/2% CC. Drop 27ea 7/8" frac balls. Continue pumping 125 sxs Class G w/ 2% CC or until well fills up. WOC and ensure no fall back. Re-spot cement if necessary.
6. 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. Take pictures from all cardinal directions. Ensure to notify project management of all remaining equipment on location once plugging is complete.

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Kyle T. Mason  
Engineer

**Fairfield #2**  
**Proposed P&A**  
**West Kutz Pictured Cliffs**  
**790' FNL & 790' FEL, Section 15, T27N, R13W, San Juan, NM**  
**API: 30-045-06589**

Today's Date: 05/02/2023  
 Spud: 8/13/62  
 Completed: 8/23/62

Elevation: 5955' GL  
 Elevation: 5966' KB

Ojo Alamo @ 600'  
 Kirtland @ 790'

Fruitland @ 1210'

Pictured Cliffs @ 1380'

Cliff House @ 2955'

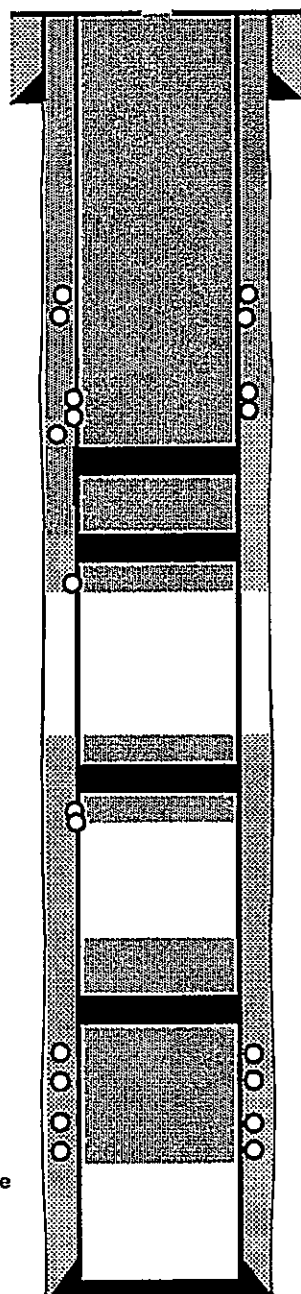
Mancos @ 4170'

Gallup @ 5080'

Base Greenhorn @ 5840'

Dakota @ 5930'

Hole Size  
7.875



PBTD: 1415'  
 PBTD: 6161'  
 TD: 6254'

Hole Size: 12-1/4"

9-5/8", 32.5# H-40, Casing set @ 216'  
 Cement with 115 sx w/ 2% CC, Circ to surface

Plug #1: Pump 20 sxs Class G w. 2% CC. Drop 27ea 7/8" frac balls  
 Follow frac balls with 125 sxs cement or until well fills up.

FC Perforations: 1318-25', 1289-90', 1275-85'  
 Squeezed with 100 sxs Type 5 cement.

PC Perforations 1380'-1487' 1 spf, 18 holes total

Per'd at 1335'  
 Pumped 260 sxs Super Lite & 75 sxs Class A  
 Circulated 7 bbls cement to surface, Squeezed 3.5 bbls.

CIBP SET @ 1575'

Per'd at 2290'  
 Retainer set @ 2238'  
 Pumped 300 sxs cmt, capped with 75'

Per'd at 5132'  
 Retainer set @ 5079'  
 Pumped 60 sxs cmt, capped with 75'

Set retainer @ 5880'  
 Pumped w/ 200 sxs, capped with 75'

DK Perforations  
 5931-6132'

4-1/2", 10.5#, casing set @ 6250'  
 Production CMT:  
 160 sx Poz-mix w/ 2% gel

## Fairfield #2

Current WBD

West Kutz Pictured Cliffs

790' FNL &amp; 790' FEL, Section 15, T27N, R13W, San Juan, NM

API: 30-045-06589

Today's Date: 05/02/2023

Spud: 8/13/62

Completed: 8/23/62

Elevation: 5955' GL

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Ojo Alamo @ 600'

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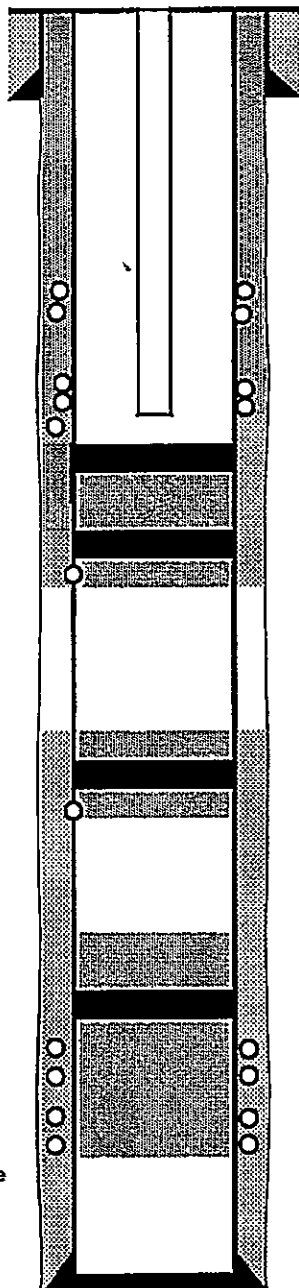
Cliff House @ 2955'

Mancos @ 4170'

Gallup @ 5080'

Base Greenhorn @ 5840'

Dakota @ 5930'

Hole Size  
7.875

Hole Size: 12-1/4"

9-5/8", 32.5# H-40, Casing set @ 216'

Cement with 115 sx w/ 2% CC, Circ to surface

2-3/8" tubing 1338' KB

FC Perforations: 1318-25', 1289-90', 1275-85'

Squeezed with 100 sxs Type 5 cement

PC Perforations 1380'-1487' 1 spf, 18 holes total

Per'd at 1335'

Pumped 260 sxs Super Lite &amp; 75 sxs Class A

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CIBP SET @ 1575'

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Pumped 60 sxs cmt, capped with 75'

Set retainer @ 5880'

Pumped w/ 200 sxs, capped with 75'

DK Perforations

5931-6132'

PBTD: 1415'

PBTD: 6161'

TD: 6254'

4-1/2", 10.5#, casing set @ 6250'

Production CMT:

160 sx Poz-mlx w/ 2% gel

## **P&A RECLAMATION PLAN**

**for**

**Fairfield #2  
790' FNL & 790' FEL  
Sec. 15, T27N, R13W  
San Juan County, New Mexico**

**Prepared for**

**Epic Energy**

**June 2023**



**Created by:**

**Arleen Smith**

**332 Rd 3100  
Aztec, New Mexico 87410  
Phone: (505) 327-4892**



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Applicant	Epic Energy, LLC
Project Type	Reclamation of a natural gas well site.
Well, Oil and Gas Lease, or Right-of-Way (ROW) Name	Fairfield #2 (30-045-06589)
Legal Location	790' FNL 790' FEL Section 15, Township 27 North, Range 13 West San Juan County, NM
Lease Number(s)	NM 060402

### **1. INTRODUCTION**

This reclamation plan has been prepared to meet the requirements and guidelines of the Bureau of Land Management (BLM) Farmington Field Office (FFO) Bare Soil Reclamation Procedures (BLM 2013a) and Onshore Oil and Gas Order No.1.

Epic Energy, LLC, may submit a request to the BLM/FFO to revise the Reclamation Plan at any time during the life of the project in accordance with page 44 of the Gold Book (USDI-USDA 2007). Epic Energy LLC will include justification for the revision request.

Epic Energy, LLC contact person for this Reclamation Plan is:

Arleen Smith, Regulatory Manager  
Walsh Engineering & Production  
332 Road 3100  
Aztec, New Mexico 87410  
Phone: (505) 327-4892

### **2. PROJECT DESCRIPTION**

Epic Energy, LLC is proposing to plug and abandon the Fairfield #2 wellbore and reclaim the well pad. This location is located on lands owned and managed by the BLM, ~ 28.2 miles South of Bloomfield, NM. Fairfield #2 is accessed by travelling South on US-550 for 8.3 miles. Turn right onto Co Rd 7010 for 12.9 miles. Turn left onto Hwy 302/Rd 7100 for 5.1 miles and turn right at Rd 7137 for 1.5 miles, the well will be located to the left.

### **3. Disturbance Site Visit**

The site visit occurred on June 9, 2023. The following people were present at the site visit (Table 1).

Table 1 Site Visit Attendees

Name	Affiliation	Contact Info
Abiodun Adeloje	BLM	505-564-7665
Laveran Jaquez	FIMO	505-564-7636
Charlie Dean	3D Services	
Clay Green	Walsh Engineering	505-320-7713



### 3.1 Vegetation Community

Based on observations made during the disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is classified as Sagebrush/Grass plant community.

### 3.2 Proposed Reclamation Seed Mix

Disturbance will be re-contoured, and topsoil will be redistributed and prepared for seeding by the construction contractor. Ripping, disking, and seeding of the site will be done by Epic's construction contractor using the BLM-approved seed mix shown which is shown in Table 2. The proposed reclamation seed mix considers the existing vegetation on the proposed project site.

Table 2. BLM Farmington Field Office Pinyon Juniper Community Seed Mix

**Sagebrush/grass community menu based seed mix for use in reclamation (minimum requirement) \*\***

Common Name	Scientific Names	Variety	Season	Form	PLS lbs/acre*
<b>Plant two of the following:</b>					
Fourwing saltbush	<i>Atriplex canescens</i>	VNS	Cool	Shrub	2.0
Antelope bitterbrush	<i>Purshia tridentata</i>	VNS	Cool	Shrub	2.0
Winterfat	<i>Krascheninnikovia lanata</i>	VNS	Cool	Shrub	2.0
<b>and three of the following:</b>					
Indian ricegrass	<i>Achnatherum hymenoides</i>	Paloma or Rimrock	Cool	Bunch	4.0
Blue grama	<i>Bouteloua gracilis</i>	Alma or Hachita	Warm	Sod-forming	2.0
Galleta	<i>Pleuraphis jamesii</i>	Viva florets	Warm	Bunch/Sod-forming	3.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	VNS	Warm	Bunch	0.5
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba	Cool	Sod-forming	4.0
<b>and one of the following:</b>					
Bottle brush squirreltail	<i>Elymus elymoides</i>	Tusas or VNS	Cool	Bunch	3.0
Siberian wheatgrass	<i>Agropyron fragile</i>	Vavilov	Cool	Bunch	3.0
<b>and two of the following</b>					
Small burnet	<i>Sanguisorba minor</i>	Delar	Cool	Forb	2.0

Rocky Mtn. bee plant	<i>Cleome serrulata</i>	Local collection or VNS	Cool	Forb	0.25
Blue flax	<i>Linum lewisii</i>	Apar	Cool	Forb	0.25

**\*\*Based on 60 pure live seeds (PLS) per square foot, drill seeded. Double this rate (120 PLS per square foot) if broadcast or hydroseeded.**

### 3.3 Vegetation Reclamation Standards

Requirements for determining reclamation and if it is successfully completed for the selected vegetation community are determined by the reclamation percent cover standards for the community, as outline in Table 3. These standards must be met during post-disturbance monitoring procedures in order for the Bureau of Land Management to sign off on the attainment of vegetation reclamation standards.

Table 3. Reclamation Goal for Sagebrush/Grass Community

Functional Group	Percent (%) Foliar	Common Species
Trees/Shrubs/Grasses/Forbs	≥35	Utah juniper, Pinyon pine; big sagebrush, four-wing saltbrush, Antelope bitterbrush, alkali sacaton, western wheatgrass, Indian ricegrass, galleta, sand dropseed, scarlet globmallow, wooly Indianwheat, fleabane, Penstemon spp., buckwheat, threadleaf groundsel
Invasive/undesirables 10% allowed toward meeting standard of 35%.	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant

### 3.4 Weed Survey

During the site visit, the proposed action area was surveyed for noxious weeds listed on the New Mexico Department of Agriculture's Class A and Class B list. During the survey, no noxious weeds were found.

### 3.5 Soil Evaluation

Unless any stained soil is discovered during the surface reclamation, no soil testing will be necessary.

#### **4. RECLAMATION TECHNIQUES FOR SUCCESSFUL REVEGETATION**

##### **4.1 Site Clearing**

After the well is plugged and abandoned, a steel plate at ground level is set in cement and extends at least four feet above ground level. The operator's name, lease name and well number and location, including unit letter, section, township and range, shall be welded, stamped or otherwise permanently engraved into the marker's metal. All rig anchors and oil and gas equipment will be removed. Rip, disc and seed. Treat for Halogeton glomeratus. Cut waterway to direct flow to entrance road to create tributary to wash. Cut waterway to direct flow away from well head. Fence off access road with keep out sign. Removal of Enterprise meter and dog leg.

##### **4.2 Topsoil Replacement**

No topsoil was stockpiled during the original construction of the well pad. The remaining location will be re-contoured to match the natural topography. Epic Energy (and it's contractors) will take care not to mix topsoil with the underlying subsoil horizons. Topsoil and sub-surface soils will be replaced in the proper to final seedbed preparation.

##### **4.3 Water Management/Erosion Control Features**

The BLM representative and the Epic Energy representative would work in collaboration to develop site-specific erosion control or water management features and to identify installation locations. Potential erosion control or water management features that may be used include (but are not limited to) water bars or rolling dips for roads, sediment basins or sediment traps, check dams, silt fencing, bellholes upstream of culverts, outlet protection for culverts, erosion control blankets, straw bales, and straw wattles. D

During interim reclamation, areas of the project that are not needed for long term well operations and maintenance will be recontoured to re-establish disturbed terrain and blend into the surrounding landscape. The natural drainage network would be re-established as practicable with necessary diversions and silt traps around the long-term project footprint.

##### **4.4 Seedbed Preparation**

For cut-and-fill slopes, initial seedbed preparation should consist of backfilling and recontouring to achieve the configuration specified in the reclamation plan. Seedbed preparation for compacted areas should be ripped to a minimum depth of eighteen (18) inches, with a maximum furrow spacing of two (2) feet. Where practicable, ripping should be conducted in two passes at perpendicular directions. Avoid leaving large clumps or clods. If this exists, disking should be conducted. Disking and seed drills should run perpendicular to slopes to provide terracing and prevent rapid runoff and erosion.

Seedbed preparation is one of the most important steps for reclamation success. Following final contouring, the backfilled or ripped surfaces should be covered evenly with topsoil. Final seedbed preparation should consist of raking or harrowing the spread topsoil prior to seeding to promote a firm seedbed. A loose seedbed makes it impossible to control the depth of seeding because the tires and the planter sink into the soil. Seedbed preparation may not be necessary for topsoil storage piles or other areas of temporary seeding.

#### 4.5 Soil Amendments

Soil amendments would be added to the topsoil, if needed, as advised by the Epic Energy environmental scientist or appropriate surface managing agency.

#### 4.6 Seeding

The seed mix chosen for this project is listed in Table 2. Seeding would occur at the time of final reclamation.

A disc-type seed drill or modified rangeland drill that allows for seeding species from different seed boxes at different planting depths will be used to seed the disturbed areas of the project area. Epic Energy or its reclamation contractor will ensure that perennial grasses and shrubs are planted at the appropriate depth. Larger seeds (such as Indian ricegrass) would be planted at a depth of one to two inches, intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 0.5 inch and small seeds (such as alkali sacaton and sand drop seed) will be planted at a depth of 0.25 inch. In situations where differing planting depths are not practicable using available equipment, the entire seed mix will be planted no deeper than 0.25 inch. A drag, packer, or roller would follow the seeder to ensure uniform seed coverage and adequate compaction. Seed would be drilled perpendicular to slopes at practical in order to minimize runoff and erosion.

Drill seeding may be used on well-packed and stable soils that occur on gentler slopes and where equipment and drills can safely operate. Where drill seeding is not practicable due to topography, the reclamation contractor will hand-broadcast seed using a "cyclone" hand seeder or similar broadcast seeder. Seeds like Galleta (with florets) and winter fat (with fine hairs) may also be broadcast as they do not flow well through a seeder. Broadcast application of seed requires a doubling of the drill-seeding rate. The seed will then be raked into the ground, so the seed is planted no deeper than 0.25 inch below the surface.

#### 4.7 Mulching

Based on the onsite, mulching should not be necessary but if needed hand seeding with hydro-mulch, excelsior netting, and/or mulch with netting could be utilized on cut and fill slopes. Mulch should be grass or straw spread at 2,000 to 3,000 pounds per acre, or approximately 1 to 2 inches deep. Mulching will consist of crimping certified weed-free straw or certified weed-free native grass hay into the soil.

Straw or native grass hay mulch can be applied by hand broadcasting or blowing to a relatively uniform depth of 2 to 3 inches, equivalent to a rate of approximately 2 tons per acre (one 74-pound bale per 800 square feet). When applied properly, approximately 20 to 40 percent of the original ground surface will be visible.

Straw or native grass hay mulch will then be anchored using one of the following methods:

Hand Punching - a spade or shovel is used to punch mulch into the topsoil at 1-foot intervals until all areas have mulch standing perpendicular to the slope and the mulch is embedded at least 4 inches into the soil.

Roller Punching - a roller is used to spread mulch over an area; the roller is equipped with straight studs not less than 6 inches long, from 4 to 6 inches wide, and approximately 1 inch thick. Crimper Punching - similar to roller punching, a crimper is used over the soil.

The crimper has serrated disk blades about 4 to 8 inches apart that force the mulch into the soil. Crimping should be done in two directions with the final pass across the slope. Mulch applications in extremely clay soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may be beneficial.

#### **4.8 Noxious and Invasive Weed Control**

Should noxious or invasive weeds be documented after earthwork and seeding activities, Walsh Engineering & Production will contact BLM for a management and development plan for noxious or invasive weed.

#### **4.9 Revegetation Success for Final Abandonment**

In order to reach a final abandonment status for disturbance and reclamation on BLM-manages lands, reclamation efforts must reach a uniform vegetative cover of native plant species. Requirements for determining reclamation and its successful completion of the selected vegetation community on BLM lands is determined by the reclamation percent cover standards for the community, as outlined previously in Table 3. These standards must be met on BLM managed lands during post-disturbance monitoring procedures in order for the BLM-FFO to sign off on the attainment of vegetation reclamation standards.

Revegetation percent cover standards will be attained, documented, and submitted to the BLM-FFO by Epic Energy, or an exception granted before the BLM-FFO will approve a final abandonment notice (FAN) or relinquishment.

### **5. MONITORING REQUIREMENTS**

Monitoring activities will be initiated after the project is completed, during the post-disturbance earthwork and seeding inspection process. Operator will contact BLM when ready for Final Abandonment Notice (FAN) inspection.

#### **5.1 Post-Reclamation Monitoring Initiation**

After the well has been plugged and the reclamation work and seeding have been completed, a post-disturbance inspection at the project site will occur. The operator will contact BLM to initiate an onsite inspection.

#### **5.2 Annual Monitoring**

If needed, Epic Energy will begin annual monitoring of the photo points and the vegetation line point intercept transects 2 calendar years after the completion and approval of the final earthwork and seeding. Monitoring may occur any time of the year. A completed monitoring report of the permanent photo points will be submitted by Epic Energy to Bureau Land Management by December 31 of the year the site is monitored. Within 60 days after receipt, the Bureau Land Management will acknowledge that the report has been received and evaluated. Vegetation line point intercept transects will be monitored annually until attainment of vegetation reclamation cover standards have been met. Epic



Energy will keep a record of the monitoring for future submittal to the Bureau Land Management at reclamation attainment.

### **5.3 Attainment of Vegetation Reclamation Standards**

When vegetation on a reclaimed site appears to meet the required percent revegetation standard, Epic Energy will submit to the Bureau Land Management a written request for concurrence that revegetation standards have been attained. The request will include all annual transect data sheets and a current set of monitoring photographs. The Bureau Land Management will review the request and approve or deny the request within 60 days of receipt. If the request is denied, the Bureau Land Management may initiate a site inspection within 60 days of the denial to analyze the site and determine if remedy actions may be appropriate.

### **5.4 Long-Term Monitoring**

If needed, after the required percent revegetation standard has been attained, Epic Energy will begin long-term monitoring per BLM directions.

### **5.5 Final Abandonment**

Revegetation percent cover standards will be attained, documented, and submitted to the Bureau Land Management by Epic Energy or an exception granted before the Bureau Land Management will approve a final abandonment notice (FAN) or relinquishment.

Upon final reclamation, the location will be returned to pre-disturbance conditions as practicable.

### **5.6 Cessation of Monitoring**

Monitoring requirements will remain in effect as long as the permit, grant, or authorization remains in effect and until all infrastructure or associated facilities are abandoned by established BLM procedure and a FAN or relinquishment is issued by the Bureau Land Management. Epic Energy will document that percent cover standards have been attained when submitting a request for a FAN or relinquishment.

## **6. REFERENCES**

43 CFR Part 3160, "Onshore Oil and Gas Order No. 1; Onshore Oil and Gas Operations; Federal and Indian Oil and Gas Leases; approval of Operations," 72 Federal Register 44 (March 2007), pp. 10328- 10338.

U.S. Department of the Interior, U.S. Department of Agriculture (USDI, USDA). 2007. Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development. BLM/WO/ST-06/021+307/REV07. Bureau of Land Management, Denver, Colorado. 84



**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<sub>2</sub>S.

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 Fluid Minerals P&A Geologic Report**

AFMSS ID: 2735663

Date Completed: 6/21/2023

Well No.	Fairfield #002	SHL	790	FNL	790	FEL
API No.	3004506589			Sec. 15	T27N	R13W
Lease No.	NMNM060402	BHL	Same			
Operator	Epic Energy, LLC					
Elev. (KB)	5966	County	San Juan	State	NM	
Total Depth	6254	PBTD	1415	Formation	Fruitland and Pictured Cliffs	

Formation Top	TVD (ft KB)	Remarks
San Jose Fm.		
Nacimiento Fm.	0	Surface/freshwater sands
Ojo Alamo Ss	584	Aquifer (possible freshwater)
Kirtland Fm.	622	Possible gas/water
Fruitland Fm.	839	Coal/gas/water
Pictured Cliffs Ss	1380	Gas/water
Lewis Shale		
Chacra (lower)		
Cliff House Ss		
Menefee Fm.		
Point Lookout Fm.		
Mancos Shale		
Gallup		
Greenhorn Ls		
Graneros Shale		
Dakota Ss		
Morrison Fm.		

**Remarks:****Reference Well:**

- Well was plugged back from the Dakota to the Fruitland in 2007. Fruitland perfs 1275' - 1325. Fruitland perfs squeezed and Pictured Cliffs perfs added in 2008. Pictured Cliffs perfs 1380' - 1487'.

- BLM formation top picks vary from Operator. No plug changes.

**1) Formation Tops**  
Same

Prepared by: Chris Wenman

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

AFMSS 2 Sundry ID 2735663

Attachment to notice of Intention to Abandon

Well: Fairfield 2

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 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 06/21/2023



**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 231474

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 231474
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Accepted for record - NMOCD JRH 6/2823. BLM approved P&A 6/21/23	6/28/2023