

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

04/18/2022

Well Name: RR ZANOTTI	Well Location: T24N / R7W / SEC 34 / NENW / 36.275238 / -107.564377	County or Parish/State: RIO ARRIBA / NM
Well Number: 1	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMSF080107	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390527200S1	Well Status: Producing Oil Well	Operator: EPIC ENERGY LLC

### Notice of Intent

Sundry ID: 2658539

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 02/23/2022

Time Sundry Submitted: 03:30

Date proposed operation will begin: 02/23/2022

Procedure Description: Please find attached the P&amp;A, Reclamation Plan

### Surface Disturbance

Is any additional surface disturbance proposed?: No

### NOI Attachments

Procedure Description

RR\_Zanotti\_001\_20220223152930.pdf

<b>Well Name:</b> RR ZANOTTI	<b>Well Location:</b> T24N / R7W / SEC 34 / NENW / 36.275238 / -107.564377	<b>County or Parish/State:</b> RIO ARRIBA / NM
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<b>US Well Number:</b> 300390527200S1	<b>Well Status:</b> Producing Oil Well	<b>Operator:</b> EPIC ENERGY LLC

### Conditions of Approval

#### Additional Reviews

24N07W34CKg\_RR\_Zanotti\_1\_20220308125054.pdf

#### Authorized Officer

2658539\_NOIA\_1\_3003905272\_KR\_03082022\_20220308143114.pdf

General\_Requirement\_PxA\_20220308143005.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:** ARLEEN SMITH

**Signed on:** FEB 23, 2022 03:30 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

**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:** 03/08/2022

**Signature:** Kenneth Rennick

**P&A Procedure****EPIC Energy – RR Zanotti #1**

API: 30-039-05272

560' FNL &amp; 1980' FWL, Section 34, T24N, R7W

Rio Arriba 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<sup>3</sup>/sk or equivalent. Cement calculations based on 5-1/2" 14# casing. Cement bond log will be required. Primary cement job estimated @ 5000' from original temp survey. 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<sup>3</sup>/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 (24" 7/8" and 200" 3/4")
3. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools
4. POOH 2 3/8" production string set at ~5670'.
5. TIH with 5 1/2" casing scraper to 5600'. TOOH LD 5 1/2" scraper.
6. TIH with CICR and set @ 5554'. Roll hole with fresh water. PT tubing to 500 psi.
7. Plug #1, 5315' – 5678' (Gallup top 5415'; Perfs: 5604-24', 5640-58', 5668-78"): Sting into CICR Mix & pump 15 sks (17.25 cf) of Class G cement (or equivalent) covering from CICR to bottom of Gallup perfs. Sting out of CICR, mix and pump 36 sk (41.1 cf) of Class G cement (or equivalent) in balanced plug. PU 200' above plug and reverse circulate tubing clean. TOOH LD setting tool. WOC. PT casing to 500 psi.
8. MIRU WL and run CBL. Total of 500 sks previously squeezed from 1610' – 3614'.
9. Plug #2, 4490' - 4640' (Mancos top: 4590'): MIRU WL shoot 4 spf @ 4640'. RIH w/ WL set CICR @ 4590' Sting into CICR Mix & pump 37 sx (42.55 cf) of Class G cement (or equivalent). Sting out of CICR and mix and pump 13 sks in balanced plug. PU 200' above TOC and reverse circulate tubing clean. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.
10. Plug #2, 4280' - 4430' (Mesaverde Top: 4380'): MIRU WL shoot 4 spf @ 4430'. RIH w/ WL set CICR @ 4380' Sting into CICR Mix & pump 37 sx (42.55 cf) of Class G cement (or equivalent). Sting out of CICR and mix and pump 13 sks in balanced plug. PU 200' above TOC and reverse circulate tubing

clean. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.

11. Plug #4, 1960' – 2110' (Pictured Cliffs top: 2060'): Mix and spot 18 sx (20.7 cf) of Class G cement in a balanced plug. PU 200' above plug and reverse circulate tubing clean. PU & WOC. Pressure test casing to 500 psi if previous test failed. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.
12. Plug #5, 1396' – 1679' (Ojo Alamo top: 1496', Kirtland top 1629'): Mix and spot 35 sx (40.5 cf) of Class G cement in a balanced plug. PU 200' above TOC and reverse circulate tubing clean. WOC. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary. Re-spot with 2% CC BWOC if necessary.
13. Plug #6, 400'-surface' (8 5/8" surface shoe @ 394'): MIRU WL RIH shoot 4 spf at 400'. Establish circulation down 5 1/2" through braidenhead. Mix and pump approximately 125 sks Class G cement or until cement circulates to surface. Top off as necessary.
14. 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

## R.R. Zanotti #1

Current WBD

Escrito Gallup

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

API: 30-039-05272

Today's Date: 8/31/2021  
 Spud: 1/25/1958  
 Completed: 2/15/1958

Elevation: 6954' GL

Ojo Alamo @ 1495'  
 Kirtland @ 1629'

Pictured Cliffs @ 2060'

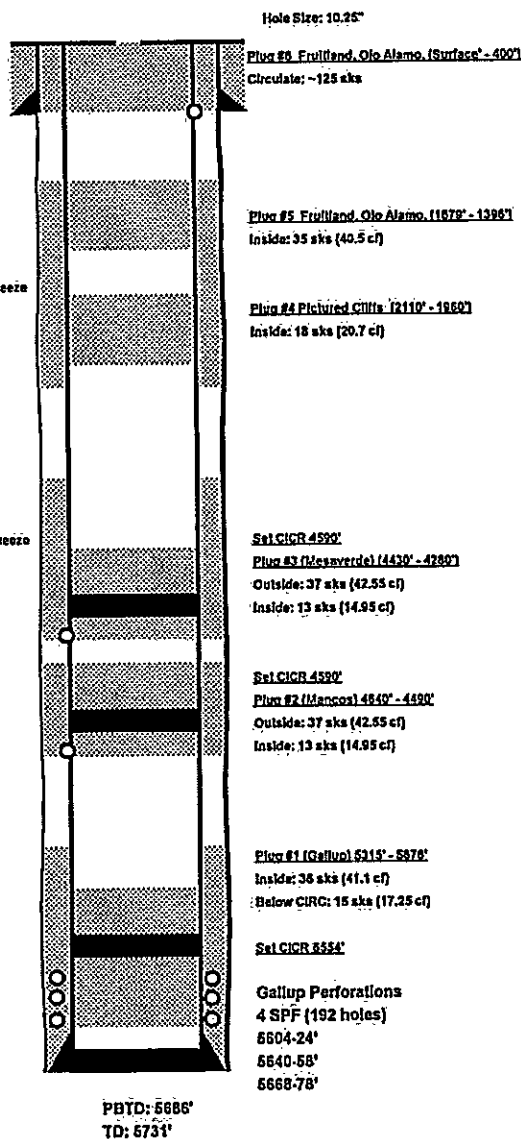
Lewis @ 2202'

Pt Lookout @ 4380'

Mancos @ 4590'

Gallup @ 5415'

Hole Size  
 7.875"



Squeeze (12/21/2015)  
 Holes 1610-2102  
 250 sks total - 3 attempts  
 Passed MIT 1/13/2016

Squeeze (8/26/2008)  
 1760' - 1830' - 50 sks Neat (102 cuft)  
 3548' - 3614' - 190 sks 60/50 (224 cuft)

8-5/8" casing set 384'  
 Surface CMT w/ 300 sx cement - Unknown TOC

6-1/2", 14# @ 5731'  
 Production CMT - Load: 65 sx w/ 4% gel, Tell: 50 sx neat  
 TOC 5000' (Temp survey)

**R.R. Zanoftti #1****WBD****Escribo Gallup****560' FNL & 1980' FWL, Section 34, T24N, R7W, Rio Arriba County, NM****API: 30-039-05272**

Hole Size: 10.25"

Today's Date: 8/31/2021

Spud: 1/25/1958

Completed: 2/15/1958

Elevation: 6954' GL

Ojo Alamo @ 1496'

Kirtland @ 1629'

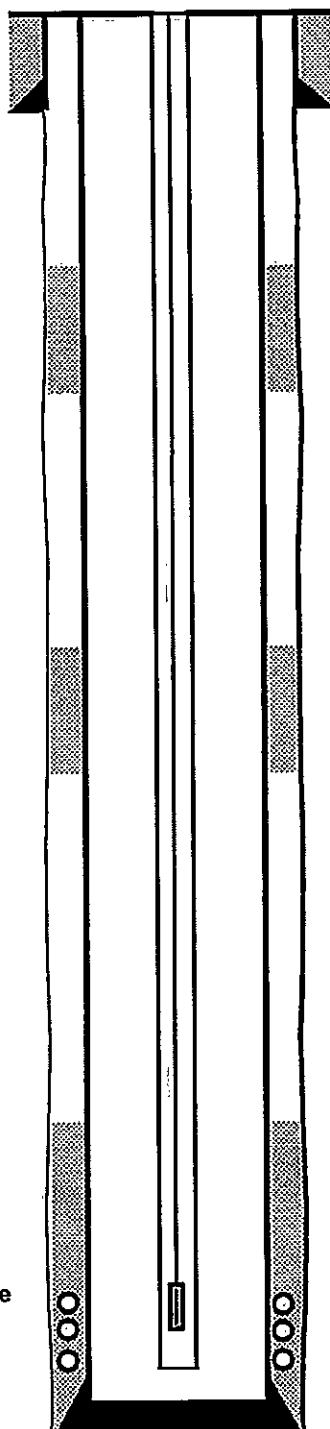
Pictured Cliffs @ 2060'

Lewis @ 2202'

Pt Lookout @ 4380'

Mancos @ 4590'

Gallup @ 5415'

Hole Size  
7.875"

8-5/8" casing set 394'

Surface CMT w/ 300 sx cement - Unknown TOC

5-1/2", 14# @ 5731'

Production CMT - Lead: 65 sx w/ 4% gel, Tail: 50 sx neat  
TOC 5000' (Temp survey)

Squeeze (8/26/2008)

1760' - 1830' - 50 sks Neat (102 cuft)

3548' - 3614' - 190 sks 50/50 (224 cuft)

Squeeze (12/21/2015)

Holes 1610-2102

250 sks total - 3 attempts

Passed MIT 1/13/2016

Production Tubing

2 3/8" 180 Jnts EOT: 5670' KB'

SN: 5309'

Production Rods

24 7/8", 200 3/4", 2-2' &amp; 4 7/8" pony

Gallup Perforations

4 SPF (192 holes)

5604-24'

5640-58'

5668-78'

PBD: 5686'

TD: 5731'



United States Department of the Interior  
Bureau of Land Management

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Reclamation Plan

EPIC Energy, LLC.

R.R. Zanotti #001  
Plug and Abandonment  
Project

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Prepared by

Arleen Smith, Regulatory Specialist

Walsh Engineering & Production Corporation  
332 RD 3100  
Aztec, NM  
87410

February  
2022

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U.S. Department of the Interior  
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6251 N. College Blvd., Ste. A  
Farmington, NM 87402  
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BLM



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## Reclamation Plan (Procedure B)

Applicant	EPIC Energy, LLC.
Project Type	Reclamation of a natural gas well site.
Well, Oil and Gas Lease, or Right-of-Way (ROW) Name	R.R. Zanotti #001 API# 30-039-05272
Legal Location	Section 34 (560' FNL, 1980' FWL), Township 24 North, Range 7 West, New Mexico Principal Meridian, in Rio Arriba, New Mexico
Lease Number(s)	SF 080107

### 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 as well as any requirements from the

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

Arleen Smith, Regulatory Specialist  
332 RD 3100  
Aztec, NM 87410  
Phone: (505) 327-4892

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### Vegetation Reclamation Procedure B

Completion of a Vegetation Reclamation Plan in accordance with Procedure B of the Bureau Land Management Bare Soil Reclamation Procedures is required for surface disturbing actions, grants, or permits authorized by the Bureau Land Management resulting in bare mineral soil across an area greater than or equal to 1 acre, not including a BLM approved working area. Working areas include areas routinely used to operate and maintain facilities or improvements. The FFO makes no distinction between interim and final revegetation processes; revegetation processes and standards are the same for all revegetation activities.

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### Revision of the Reclamation Plan

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 to page 44 of the Gold Book (USDI-USDA 2007). EPIC Energy LLC will include justification for the revision request.

## Project Description

EPIC Energy is proposing to plug and abandon the R.R. Zanotti #001 wellbore and reclaim the well pad. This location is located on lands owned and managed by the Bureau of Land Management, ~ 47.5 miles South of Bloomfield, NM. The R.R. Zanotti #001 is accessed by travelling South on HWY 550 for 47.5 miles. Turn right onto CR 377 travel 2.1 miles turn left and travel 1.4 miles. Turn Left and travel 1.4 miles. Slight right onto CR 499 travel 1.9 miles. The access road to R.R. Zanotti will be closed and brought in.. All rig anchors and piping will be removed from location including the berms. Existing soil will be utilized from the R.R. Zanotti #001 to fill from the cut to grade. No further soil will be brought onto location. The access road will be contoured in and reseeded.

## Estimated Total Area of Disturbance

The existing R.R. Zanotti #001 well pad was originally 392 ft by 236 ft with a maximum 1 ft cut and a maximum of a 1 ft fill. The access road will be closed. The well pad will be reseeded with the BLM approved seed mix. The anchor and piping will be removed, and the disturbed area will be reclaimed with Mesa seed mix. The well location is located on Bureau of Land Management and is managed by the Bureau of Land Management. Total surface disturbance as a result of well pad and pipeline construction that will be reclaimed is approximately 1.20 acre on Bureau of Land Management Lands.

The pre-disturbance site visit occurred on February 9, 2021. The following persons were present at the site visit (Table 1).

Table 1. Site Visit Attendees

Name	Affiliation	Contact Info
James Hellekson	Envirotech	505-801-4034
Bob Switzer	BLM	505-564-7600
Vanessa Fields	EPIC Energy	505-787-9100
Jimmie McKinney	EPIC Energy	505-320-5332

## Vegetation Community

Based on observations made during the pre-disturbance site visit, it has been determined that the vegetation community which best represents the proposed project area is Mesa or Pinion –Juniper Community. The Mesa or Pinion–Juniper Community is comprised primarily of pinion and juniper trees with lesser amounts of basin big sage and minor areas of black sage with various grasses. It is found on all aspects from about 4,800 to 8,800 with pinyon trees dominating at higher elevations and juniper trees at lower elevations. The Mesa or Pinion –Juniper Community are typically found in shallow rock soils. The seed mix will be used with an emphasis placed on protecting reclaimed well pad from exotic plant invasion.

## 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 Energy and its contractor using the BLM-approved seed mix (Mesa), which is shown in Table 2. The proposed reclamation seed mix considers the existing vegetation on the proposed project site.

### MESA menu-based seed mix by habitat type for reclamation (minimum requirement) \*\*

Common Name	Scientific Names	Variety	Season	Form	PLS lbs/acre*
Plant one of the following:					
Mountain mahogany	<i>Cercocarpus montanus</i>	VNS	Warm	Shrub	2.0
Antelope bitterbrush	<i>Purshia tridentata</i>	VNS	Cool	Shrub	2.0
and two of the following:					
Western wheatgrass	<i>Pascopyrum smithii</i>	Arriba	Cool	Sod	2.0
Bottlebrush squirreltail	<i>Elymus elymoides</i>	Tusas or VNS	Cool	Bunch	3.0
Needleandthread	<i>Hesperostipa comata</i>	VNS	Cool	Bunch	3.0
and three of the following:					
Indian ricegrass	<i>Achnatherum hymenoides</i>	Paloma or Rimrock	Warm	Bunch	3.5
Blue grama	<i>Bouteloua gracilis</i>	Alma or Hachita	Warm	Bunch	2.0
Sand dropseed	<i>Sporobolus cryptandrus</i>	VNS	Warm	Bunch	0.5
Prairie Junegrass	<i>Koeleria macrantha</i>	VNS	Cool	Bunch	2.0
Muttongrass	<i>Poa fendleriana</i>	VNS	Cool	Bunch	2.0
and one of the following:					
Scarlet globemallow	<i>Sphaeralcea coccinea</i>	VNS	Warm	Forb	0.25
Utah sweetvetch	<i>Hedysarum boreale</i>	VNS	Warm	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.

## 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 Mesa or Pinion-Juniper-Mesa Community Cover – Wooded shrubland (deep soil)

<i>Functional Group</i>	<i>Percent (%) Foliar Cover</i>	<i>Common Species</i>
Trees/Shrubs/Grasses/Forbs	≥20	Utah juniper, Pinyon pine; big sagebrush, four-wing saltbrush, Antelope bitterbrush, rubber rabbitbrush, broom snakeweed, bottlebrush squirreltail, western wheatgrass, Indian ricegrass, galleta, sand dropseed, threeawn grass, scarlet globemallow, wooly Indianwheat, fleabane spp., Penstemon spp., buckwheat spp., threadleaf groundsel
Invasive/undesirables 10% allowed toward meeting standard of 20%.	≤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 community. Examples of invasive species include cheatgrass, Russian thistle, kochia.

## 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.

## Soil Evaluation

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

## Reclamation Techniques for Successful Revegetation

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### Site Clearing

After the well is plugged the wellhead will be cut-off 3' below ground level and a 4" diameter P&A marker will be welded to the casing stub. All flow lines and anchors will be cut-off at least 3' below ground level or removed completely. The production equipment (tanks, separator) will be removed from location.

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### Topsoil Replacement

No topsoil was stock piled during the original construction of the well pad. The remaining location will be re-contoured to match the natural topography. Epic Energy (and its contractor) will take care not to mix topsoil with the underlying subsoil horizons. Topsoil and sub-surface soils will be replaced in the proper order, prior to final seedbed preparation.

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### Water Management/Erosion Control Features

Based on the site visit with the Bureau Land Management representative(s) and the EPIC Energy representative determined there was no need to develop any other site-specific erosion control or water management features than the planned silt trap. Based on the topography natural run off can occur with no impact as far as erosion is concerned.

EPIC Energy (or its contractors) will use erosion control blankets, straw bales, or straw wattles as appropriate to limit erosion and sediment transport from any stockpiled soils.

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### Seedbed Preparation

For cut and fill slopes, initial seedbed preparation will consist of backfilling and re-contouring to achieve a configuration as close to pre-disturbance conditions as possible. Areas to be reclaimed will be re-contoured to blend with the surrounding landscape, emphasizing restoration of existing drainage patterns and landform to pre-construction condition, to the extent practicable.

Seedbed preparation of compacted areas will be ripped to a minimum depth of 12 inches, with a maximum furrow spacing of 2 feet. Where practicable, ripping will be conducted in two passes at perpendicular directions. Disking will be conducted if large clumps or clods remain after ripping. Any tilling or disking that occurs along the contour of the slope and seed drills will also be run along the contour to provide terracing and prevent rapid run-off and erosion. If broadcast seeding is used, a dozer or other tracked equipment will track perpendicular to the slope prior to broadcast seeding.

Final seedbed preparation will consist of raking or harrowing the spread topsoil prior to seeding to promote a firm (but not compacted) seedbed without surface crusting.

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### Soil Amendments

Based on information gathered at the onsite inspection, the EPIC Energy and Bureau Land Management representatives have decided collaboratively that no soil amendments will be used during reclamation of the affected environment.

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### Seeding Requirements

The seed mix chosen for this project is listed in Table 2. Seeding will occur in Early Fall or later (depending upon weather conditions) after the well has been plugged and abandoned.

A Truax 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. Intermediate size seeds (such as wheatgrasses and shrubs) will be planted at a depth of 1 to 2 inches. 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.

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. 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.

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## 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:

- o 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.
- o 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.
- o 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 clayey soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may be beneficial.

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## Noxious and Invasive Weed Control



Should noxious or invasive weeds be documented after earthwork and seeding activities, the Bureau Land Management weed coordinator will provide EPIC Energy, LLC with specific requirements and instructions for weed treatments, including the period of treatment, approved herbicides that may be used, required documentation to be submitted to the Bureau Land Management after treatment, and any other site-specific instructions that may be applicable.

## Monitoring Requirements

Monitoring will be completed according to the Bureau Land Management Bare Soil Reclamation Procedure B (BLM 2013b) and Monitoring activities will be initiated after the project is completed, during the post-disturbance earthwork and seeding inspection process.

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### 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 Bureau Land Management representative (in collaboration with EPIC Energy) will determine site-specific monitoring locations for photo point monitoring and vegetation line point intercept transects, (if necessary). Bureau Land Management will collect GPS data on the monitoring locations, take the initial monitoring photographs, and complete the initial monitoring report within 60 days of the post-disturbance earthwork and seeding inspection. The initial report will be available from the Bureau Land Management.

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### Post-Reclamation Monitoring Photographs

The minimum photo points necessary to document post-disturbance monitoring (including annual monitoring and long-term monitoring) are described in Table 5. Photographs will be taken with a digital camera without zoom or wide-angle adjustments. GPS coordinates for each photo point will be provided by the Bureau Land Management the initial monitoring report and subsequently included with each photograph in the annual monitoring report.

Table 5. List of Minimum Required Post-Disturbance Monitoring Photographs

Photo Point	Photographs	Location Description

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### 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.

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### **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.

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### **Long-Term Monitoring**

If needed, after the required percent revegetation standard has been attained, EPIC Energy will begin long-term monitoring. Every fifth year after attainment, EPIC Energy will monitor the site at all established photo points to ensure the site remains productive and stable. A completed monitoring report of the permanent photo points will be submitted to the Bureau Land Management by December 31 of the year the site is monitored. The Bureau Land Management will acknowledge that the report has been received and evaluated within 60 days after receipt.

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### **Final Abandonment**

If 1 or more acre of bare soil results from earthwork required in preparation for final abandonment, EPIC Energy, LLC will follow Vegetation Reclamation Plan in accordance with Procedure B of the BLM/FFO Bare Soil Reclamation Procedures (2013a) and any additional or separate requirements from the Bureau Land Management.

Revegetation percent cover standards will be attained, documented, and submitted to the Bureau Land Management by EPIC Energy, LLC 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.

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### **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, LLC will document that percent cover standards have been attained when submitting a request for a FAN or relinquishment.

## 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.

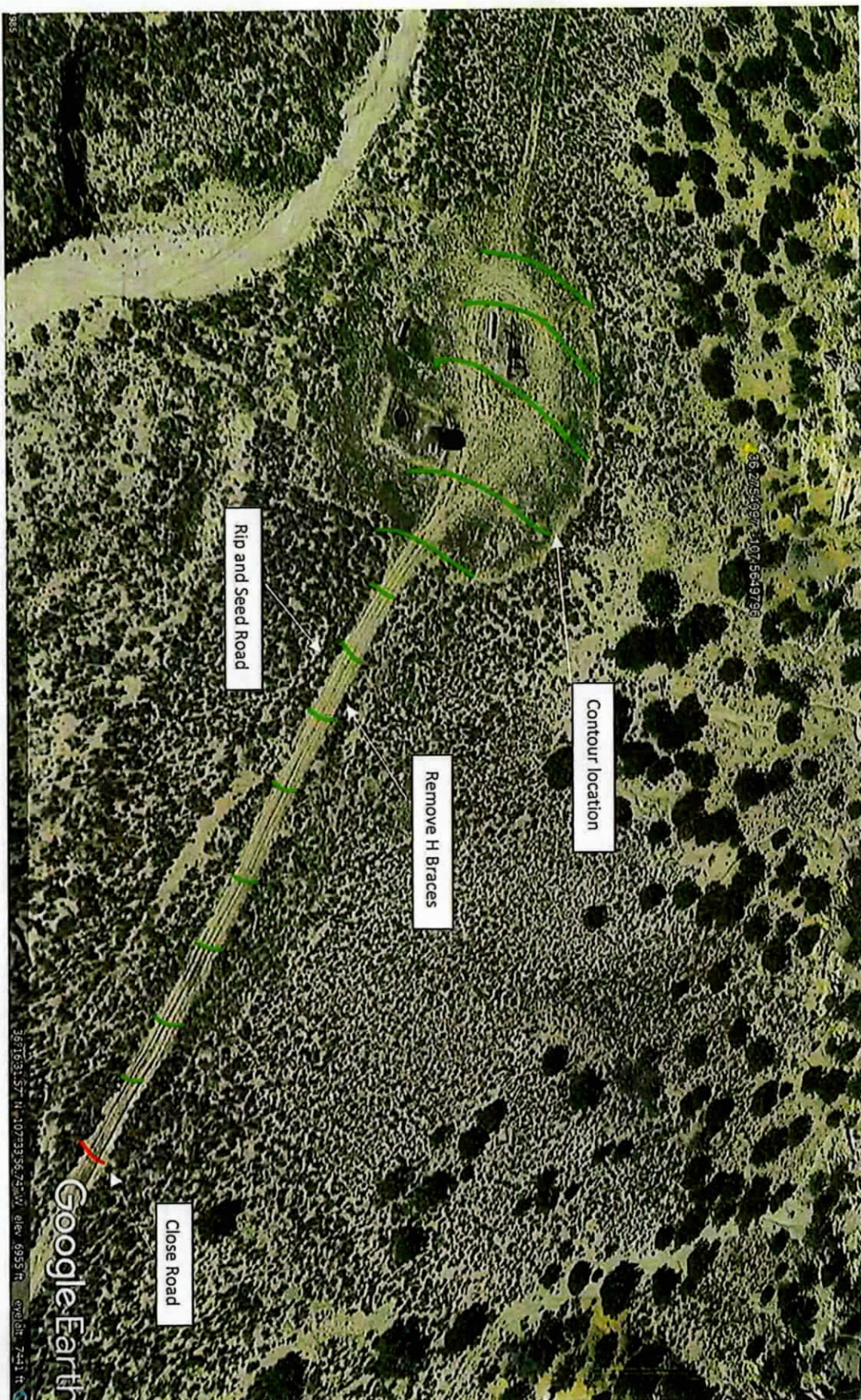
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BLM. 2013b. Updated Reclamation Goals. Available at: [http://www.blm.gov/nm/st/en/fo/Farmington\\_Field\\_Office/ffo\\_planning/surface\\_use\\_plan\\_of/updated\\_reclamation.html](http://www.blm.gov/nm/st/en/fo/Farmington_Field_Office/ffo_planning/surface_use_plan_of/updated_reclamation.html). Accessed November 2013.

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R.R. Zanotti #001 API# 30-039-05272  
Lat/Long 36.2754097, -107.5649796





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

AFMSS 2 Sundry ID 2658539

Attachment to notice of Intention to Abandon

Well: RR Zanotti 1

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) Plug 3 (Mesa Verde): Adjust to cover the top of the Cliff House formation at 2890'.
  - b) Add a plug (inside/outside if needed based on CBL) to cover the Chacra formation top at 2305'.
  - c) Plug 4: Bring the top, or add a plug, to cover the Fruitland formation top at 1855'.
  - d) Bring the bottom of Plug 6 down to cover a minimum of 50 feet below the surface casing shoe at 394'.

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 03/08/2022

**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), 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.

# BLM FLUID MINERALS P&A Geologic Report

Date Completed: 3/8/2022

Well No. RR Zanotti #1 (API# 30-039-05272)	Location	560	FNL	&	1980	FWL
Lease No. NMSF-080107	Sec. 34	T24N			R07W	
Operator Epic Energy, LLC	County	Rio Arriba	State		New Mexico	
Total Depth 5731'	PBTD 5686'	Formation	Gallup			
Elevation (GL) 6925'		Elevation (KB) 6937'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface		Surface/freshwater sands
Nacimiento Fm				1465	
Ojo Alamo Ss			1465	1590	Freshwater aquifer
Kirtland Shale			1590	1855	
Fruitland Fm			1855	2060	Coal/Gas/Possible water
Pictured Cliffs Ss			2060	2168	Gas
Lewis Shale			2168	2305	
Chacra			2305	2890	Gas
Cliff House Ss			2890	3095	Water/Possible gas
Menefee Fm			3095	4380	Coal/Ss/Water/Possible O&G
Point Lookout Ss			4380	4590	Probable water/Possible O&G
Mancos Shale			4590	5426	
Gallup			5426	PBTD	O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

## P &amp; A

- BLM picks for the top of the Gallup, Fruitland, Kirtland, and Ojo Alamo formations vary from Operator submission.
- Adjust Plug #3 (Mesaverde) to cover the top of the Cliff House formation at 2890'.
- Add a plug (inside/outside if needed based on CBL) to cover the Chacra formation top at 2305'.
- Bring the top of Plug #4 up, or add a plug, to cover the Fruitland formation top at 1855'.
- The plugs proposed in the P&A procedure, with recommended changes, will adequately protect any freshwater sands in this well bore.
- Gallup perfs 5604' – 5678'.

Reference Well:1) **Formation Tops**

Same

Prepared by: Chris Wenman

**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 100226

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 100226
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	4/25/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	4/25/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	4/25/2022