



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

Sundry Print Report

01/26/2024

Well Name: FEDERAL	Well Location: T27N / R11W / SEC 19 / NENW / 36.564789 / -108.045532	County or Parish/State: SAN JUAN / NM
Well Number: 1E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM029145	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004524046	Well Status: Gas Well Shut In	Operator: P R O MANAGEMENT INCORPORATED

Notice of Intent

Sundry ID: 2771626

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 01/24/2024

Time Sundry Submitted: 02:25

Date proposed operation will begin: 01/24/2024

Procedure Description: P-R-O Management Inc intends to plug and abandon the subject well. Please find attached the P&A summary, WBD and Reclamation Plan,.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Federal_1E_P_A_Summary_WBD_Reclamation_20240124142519.pdf

Well Name: FEDERAL	Well Location: T27N / R11W / SEC 19 / NENW / 36.564789 / -108.045532	County or Parish/State: SAN JUAN / NM
Well Number: 1E	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM029145	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004524046	Well Status: Gas Well Shut In	Operator: P R O MANAGEMENT INCORPORATED

Conditions of Approval**Specialist Review**

2771626_NOI_PnA_Federal_1E_3004524046_MHK_1.26.2024_20240126093046.pdf

27N11W19_Federal_1E_Geo_KR_20240125143433.pdf

General_Requirement_PxA_20240125071220.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:** JAN 24, 2024 02:25 PM**Name:** P R O MANAGEMENT INCORPORATED**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:** MATTHEW H KADE**BLM POC Title:** Petroleum Engineer**BLM POC Phone:** 5055647736**BLM POC Email Address:** MKADE@BLM.GOV**Disposition:** Approved**Disposition Date:** 01/26/2024**Signature:** Matthew Kade

P&A Procedure**P-R-O Management INC, – Federal #1E**

Basin Dakota

1120' FNL & 2300' FWL, Section 19, T27N, R11W

San Juan Co, New Mexico, API #30-045-24046

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 ft³/sk or equivalent. If casing pressure tests tagging plugs will not be required. Cement circulated on surface casing string. Volumes calculated off 4-1/2" 10.5# casing and 7-7/8" open hole. If casing pressure tests per NMAC 19.15.25. Tagging plugs will not be required. Three stage cement job conducted on production casing. If casing does not test. Pump 50%-100% excess on volumes prescribed below to ensure tag heights.

Prior to Mobilization

1. Notify BLM & NMOCD
2. Verify all cement volumes based on actual slurry to be pumped. Calculations based on 1.15 ft³/sk.
3. Comply with all COA's from BLM and NMOCD

P&A Procedure

1. MIRU PU and cement equipment
 2. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools
 3. POOH 2 3/8" production string set at unknown depth.
 4. TIH with 4 1/2" casing scraper to 6300'. TOOH LD 4 1/2" scraper.
 5. TIH with CICR and set @ 6284'. Roll hole with fresh water. PT tubing to 500 psi. PT casing to 500 psi.
 6. MIRU WL to run CBL.
-
1. **Plug #1, 6184' – 6284' (Dakota top 6340', Perfs 6334' – 6378')**: Sting out of CICR, mix and pump 12 sxs (13.8 cf) Class G Neat in balanced plug leaving 100' on retainer. PU 200' above plug reverse circulate to clean tubing. WOC and tag plug if necessary.
 2. **Plug #2, 5765'-5865' Gallup**: Attempt to pressure test casing to 500 psi. Mix & spot 12 sx (13.8 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.

3. **Plug #3, 4363'-4597' (Mancos/DV):** Mix & spot 23 sx (26.45 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.
4. **Plug #4, 3240' – 3340' (Mesa Verde):** Mix & spot 12 sx (13.8 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.
5. **Plug #5, 1823' – 2165' (PC/DV):** Mix & spot 31 sx (33.65 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.
6. **Plug #6, 1148' – 1248' (Fruitland):** Mix and spot 21 sx (13.8 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.
7. **Plug #7, 606' – 943' (OJO/Kirtland):** Mix and spot 31 sx (33.65 ft³) Class G neat cement in balanced plug. PUH 200' above plug and reverse circulate tubing clean. WOC and tag plug if necessary. Re-spot cement if necessary. If casing pressure test WOC & tag not necessary.
8. **Plug #8, 0' – 100': Note: Cement circulated on surface casing string.** Perforate at 291'. Establish circulation up BH. Mix and pump 100 sx (115 ft³) 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 - 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.

Kyle T. Mason

Engineer

P-R-O Management INC, Federal #1E

Current Status

Basin Dakota

1120' FNL & 2300' FWL, Section 19, T27N, R11W, San Juan County, NM

API: 30-045-24046

Today's Date: 12/20/2023

Spud: 03/14/1980

Completed: 05/22/1980

Elevation: 6132' GL

Ojo Alamo @ 342'

Kirtland @ 932'

Fruitland @ 1229'

Pictured Cliffs @ 1873'

Chacra @ 2998'

Mesa Verde @ 3290'

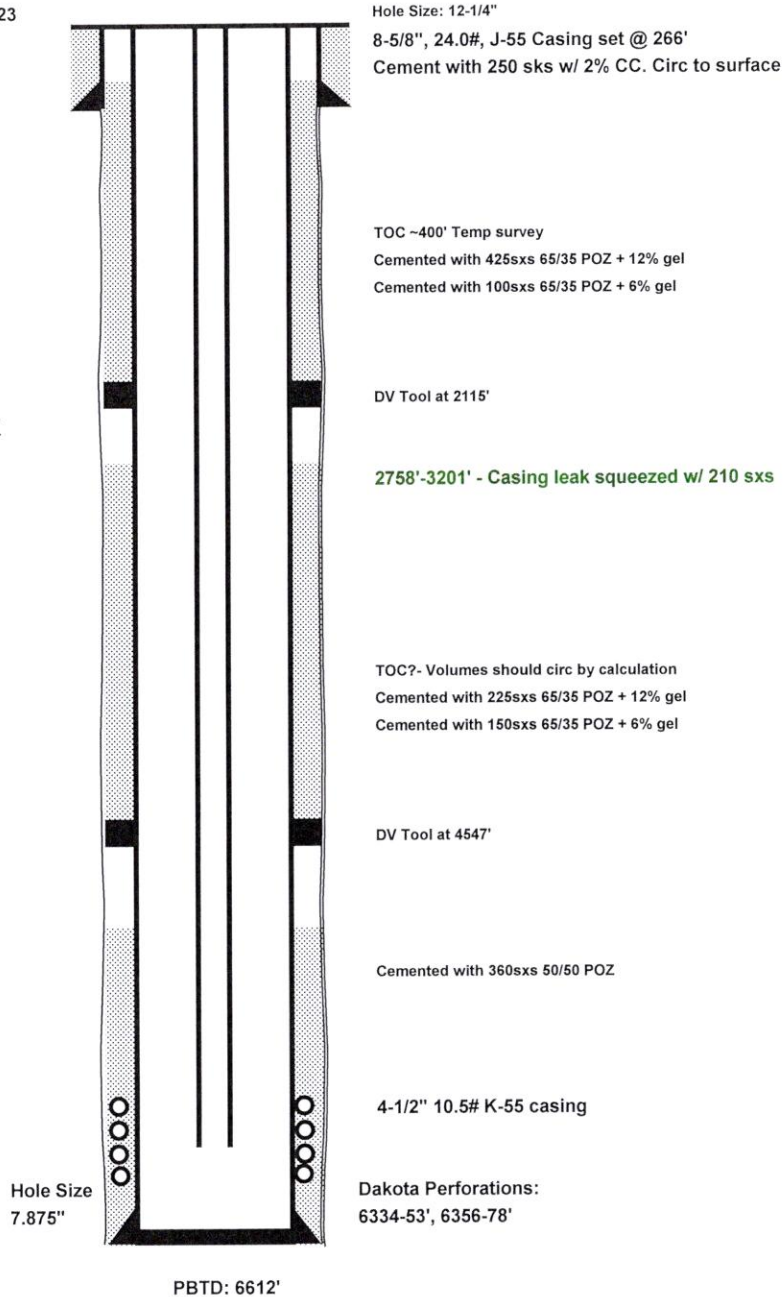
Mancos @ 4413'

Gallup @ 5815'

Greenhorn @ 6990'

Graneros @ 6386'

Dakota @ 6340'



P-R-O Management INC, Federal #1E

Proposed

Basin Dakota

1120' FNL & 2300' FWL, Section 19, T27N, R11W, San Juan County, NM

API: 30-045-24046

Today's Date: 12/20/2023

Spud: 03/14/1980

Completed: 05/22/1980

Elevation: 6132' GL

Ojo Alamo @ 656'

Kirtland @ 893'

Fruitland @ 1198'

Pictured Cliffs @ 1873'

Chacra @ 2998'

Mesa Verde @ 3290'

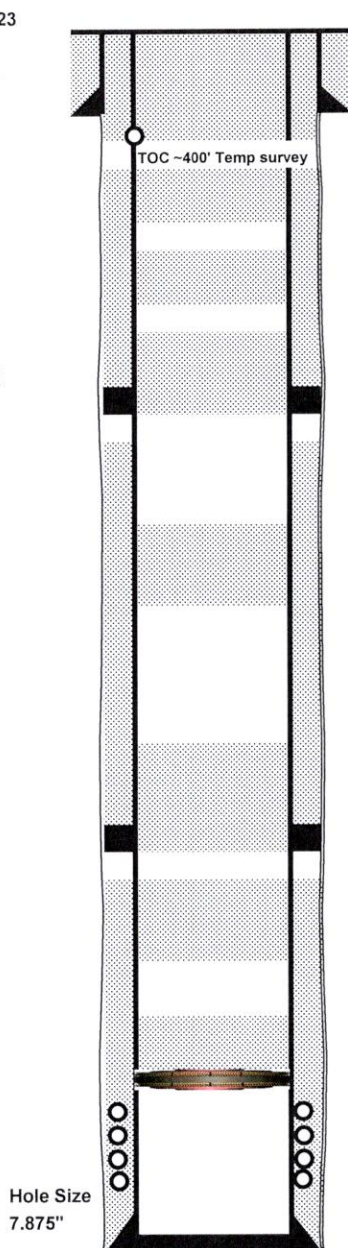
Mancos @ 4413'

Gallup @ 5815'

Greenhorn @ 6990'

Graneros @ 6386'

Dakota @ 6340'



Hole Size: 12-1/4"

8-5/8", 24.0#, J-55 Casing set @ 266'

Cement with 250 sks w/ 2% CC. Circ to surface

Plug #8: Surface: 0' - 291'100 sxs Class G Neat (115 cf)

OR UNTIL CEMENT CIRCULATES

Plug #7: OJO/Kirtland: 606' - 943'31 sxs Class G Neat (35.65 cf)Plug #6: Fruitland: 1148' - 1248'12 sxs Class G Neat (13.8 cf)

3rd Stage

Cemented with 425sxs 65/35 POZ + 12% gel

Cemented with 100sxs 65/35 POZ + 6% gel

Plug #5: PC/DV: 1823' - 2165'31 sxs Class G Neat (35.65 cf)

DV Tool at 2115'

2758'-3201' - Casing leak squeezed w/ 210 sxs

Plug #4: M12 sxs Class G Neat (13.8 cf)

2nd Stage

Cemented with 225sxs 65/35 POZ + 12% gel

Cemented with 150sxs 65/35 POZ + 6% gel

Plug #3: Mancos/DV: 4363'-4597'23 sxs Class G Neat (26.45 cf)

DV Tool at 4547'

Plug #2: Gallup - 5765'-5865'12 sxs Class G Neat (13.8 cf)

Set cement retainer @ 6284'

Plug #1: Dakota - 6284'-6184'Above CICR: 12 sxs Class G Neat (13.8 cf)

4-1/2" 10.5# K-55 casing

1st stage

Cemented with 360sxs 50/50 POZ

Dakota Perforations:

6334-53', 6356-78'

Hole Size
7.875"

PBTD: 6612'

RECLAMATION PLAN

for

Federal #1E
1120' FNL & 2300' FWL
Sec. 19, T27N, R11W
San Juan County, New Mexico

Prepared for

P-R-O Management, Inc

January 2024



Created by:

Arleen Smith



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

Table of Contents

Introduction.....	3
Revision of the Reclamation Plan.....	3
Project Description.....	3
Estimated Total Area of Disturbance	3
Site Visit	4
Vegetation Community.....	4
Weed Survey.....	4
Soil Evaluation.....	4
Reclamation Techniques for Successful Revegetation.....	4
Topsoil Replacement.....	4
Water Management/Erosion Control Features	5
Soil Amendments	5
Mulching	5
Noxious and Invasive Weed Control.....	5
Monitoring Requirements.....	6
Post Reclamation Monitoring Initiation	6
Annual Monitoring	6
Attainment of Vegetation Reclamation Standards.....	6
Long-Term Monitoring	6
Final Abandonment	6
Cessation of Monitoring.....	7
References	7

Applicant	P-R-O Management Inc.
Project Type	Reclamation of a natural oil well site.
Well, Oil and Gas Lease, or Right-of-Way (ROW) Name	Federal #1E
Legal Location	1120' FNL 2300' FWL Section 19, Township 27 North, Range 11 West San Juan County, NM
Lease Number(s)	NMNM-029145

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.

Walsh Engineering & Production contact person for this Reclamation Plan is:

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

Revision of the Reclamation Plan

P-R-O Management Inc. 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). P-R-O Management Inc. will include justification for the revision request.

Project Description

P-R-O Management Inc. will plug and abandon the Federal #1E wellbore and reclaim the well pad. This location is located on lands owned by Navajo Agriculture Products Industry (NAPI) and managed by the Bureau of Indian Affairs (BIA) and oversight by Bureau of Land Management (BLM). Well located 22.5 miles South of Farmington, NM. The Federal #1E is accessed by travelling from West Main St to Murray Dr for 0.9 miles. Turn right onto NM-371 S for 5.5 miles. Turn left onto N 302/Rd 7100 for 1.7 miles. Turn right onto Rd 7044/Indian Service Rte 4002 for 1.5 miles. Turn left onto Rd 7080/Indian Service Rte 4022 for 2.0 miles continue turn left 0.2 mile, continue straight 0.2 mile and the well will be located to the left.

Estimated Total Area of Disturbance

The Federal #1E well pad was originally 71 ft by 73 ft with a maximum 1 ft cut and a maximum of a 1 ft fill. The well location is located on Navajo Agricultural Product Industry (NAPI). Total surface disturbance in conjunction of well pad and pipeline

construction that will be reclaimed is approximately 0.47 acres on NAPI land.

Site Visit

The disturbance site visit occurred on January 24, 2024. The following persons were present at the site visit (Table 1).

Table 1 Site Visit Attendees

Name	Affiliation	Contact Info
Clay Green	Walsh Engineering	505-320-7713
Michael Dean	Walsh Engineering	505-860-0481
Roger Herrera	BLM	505-564-7703
Bertha Spencer	BIA	505-863-8336
Alysse Pablo	NAPI	505-566-2600

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 classified as Badlands community.

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 Site Clearing

After the well is plugged and abandoned, the below-ground marker was installed with a steel plate welded onto the abandoned well's surface three feet below the ground surface with all the information stenciled into the steel plate. BGT Closure process and sample underneath tank after removal. Recontour location by pulling soil from West to East. Leveling of soil inside of crop circle. Remove Enterprise meter. Remove line drip and all surface equipment. Crested wheat grass is the preferred seed for the East half of the location.

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. Walsh Engineering & Production (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.

Water Management/Erosion Control Features

Based on the site visit with the Bureau Land Management representative(s) and the Walsh Engineering & Production 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.

Walsh Engineering & Production (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.

Soil Amendments

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

Mulching

Based on the onsite, mulching will be needed by 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 clayey soils should be evaluated carefully to avoid developing an adobe mixture. In these cases, a soil amendment may be beneficial.

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.

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/BIA when ready for Final Abandonment Notice (FAN) inspection.

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.

Annual Monitoring

If needed, Walsh Engineering & Production 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 Walsh Engineering & Production 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. Walsh Engineering & Production will keep a record of the monitoring for future submittal to the Bureau Land Management at reclamation attainment.

Attainment of Vegetation Reclamation Standards

When vegetation on a reclaimed site appears to meet the required percent revegetation standard, Walsh Engineering & Production 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.

Long-Term Monitoring

If needed, after the required percent revegetation standard has been attained, Walsh Engineering & Production will begin long-term monitoring per BLM directions.

Final Abandonment

Revegetation percent cover standards will be attained, documented, and submitted to the Bureau Land Management by Walsh Engineering & Production 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.

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. Walsh Engineering & Production 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.

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

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

AFMSS 2 Sundry ID 2771626

Attachment to Notice of Intent for Plug and Abandonment

Operator: P R O Management Incorporated
Well: Federal #1E (API#30-045-24046)

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 made:
 - a. Adjust plug #2 to cover BLM Gallup formation top pick @ 5320' (Minimum 5220' – 5370').
 - b. Add plug to cover BLM Chacra formation top pick @ 2635' (Minimum 2560' – 2685').
 - c. Adjust plug #5 or add an additional plug to cover BLM Picture Cliffs formation pick @ 1752' (Minimum 1695' – 1802').
 - d. Adjust plug #6 to cover BLM Fruitland Coal formation pick @ 1520' (Minimum 1455' – 1570').
 - e. Adjust plug #7 to cover BLM Kirtland and Ojo Alamo formation picks @ 732' and 605', respectively (Minimum 555' - 782').
 - f. Adjust plug #8 Surface, perf at 316' and circulate to surface.
3. Provide copy of cement bond log through email to Matthew Kade (mkade@blm.gov) and Kenny Rennick (krennick@blm.gov)
4. **NOTIFICATION:** Farmington Office is to be notified at least 24 hours before the plugging operations commence at (505) 564-7750.
5. **Deadline of Completion of Operations:** Complete the plugging operation before July 31, 2024. If unable to meet deadline, notify the Bureau of Land Management's Farmington Field Office prior to the deadline via Sundry Notice (Form 3160-5) Notice of Intent detailing the reason for the delay and the date the well is to be plugged.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements. Estimated minimum sacks provided here include the necessary excesses.

Office Hours: 7:45 a.m. to 4:30 p.m. / M. Kade (mkade@blm.gov / 505-564-7736)

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 01/25/2024

Well No. Federal 1E	Location	NENW			
Lease No. NMNM 0029145	Sec. 19	T27N			R11W
Operator P R O Management Incorporated	County	San Juan	State		New Mexico
Total Depth 6612' (TD) 6550' (PB)	Formation	Dakota			
Elevation (GL) 6132'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm					Possible freshwater sands
Ojo Alamo Ss			605		Aquifer (possible freshwater)
Kirtland Shale			732		
Fruitland Fm			1520		Coal/Gas/Possible water
Pictured Cliffs Ss			1752		Gas
Lewis Shale					
Chacra			2635		Gas
Cliff House Ss			3290		Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale			4510		
Gallup			5320		O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss			6340		O&G/Water

Remarks: BLM formation top picks differ from formation top picks by the operator. The BLM formation top picks were justified by available raster log and reference well. Recommend modify, condition of approval, plugging procedure based on BLM formation top picks.

Reference Well:
Angel Peak 2
US Well No. 30-045-06373
NWSW Sec 20, T 27N, R 11W
San Juan County, NM

Prepared by: Kenneth Rennick

**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 H₂S.

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) and 43 CFR 3172.12(a)(10). 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.

(March 2023 Revision)

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
Standard Plugging Conditions



This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
 - North Contact, Monica Kuehling, 505-320-0243, monica.kuehling@emnrd.nm.gov
 - South Contact, Gilbert Cordero, 575-626-0830, gilbert.cordero@emnrd.nm.gov
2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.
4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
 - North, water or mud laden fluids
 - South, mud laden fluids
6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.
7. Class of cement shall be used in accordance with the below table for depth allowed.

Class	TVD Lower Limit (feet)
Class A/B	6,000
Class I/II	6,000
Class C or III	6,000
Class G and H	8,000
Class D	10,000

Class E	14,000
Class F	16,000

8. After cutting the well head any "top off cement jobs" must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.
9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD C-133 permit.
 - A copy of this permit shall be available in each truck used to haul waste products.
 - It is the responsibility of the Operator and Contractor to verify that this permit is in place prior to performing work.
 - Drivers shall be able to produce a copy upon request of an OCD Compliance Officer.
10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.
11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.
12. Produced water or brine-based fluids **may not** be used during any part of plugging operations without **prior OCD approval**.
13. Cementing;
 - All cement plugs will be neat cement and a minimum of 100' in length. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
 - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50' below the formation top and the cement retainer shall be set no more than 50' from the perforations.
 - WOC (Wait on Cement) time will be:
 - 4 hours for accelerated (calcium chloride) cement.
 - 6 hours on regular cement.
 - Operator must tag all cement plugs unless it meets the below condition.
 - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
 - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
 - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
 - Cement can only be bull-headed with specific prior approval.
 - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.
14. A cement plug is required to be set from 50' below to 50' above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
 - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than

50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.

- Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
- Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35' of cement in lieu of the 100' plug. The bridge plug or retainer must be set within 50ft of the perforations.
- Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating 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. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:

- Northwest See Figure A
- South (Artesia) See Figure B
- Potash See Figure C
 - In the R-111-P (Or as subsequently revised) Area a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
- South (Hobbs) See Figure D1 and D2
- Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers

- Dry hole marker requirements 19.15.25.10.

The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:

 1. Operator name
 2. Lease name and well number
 3. API number
 4. Unit letter
 5. Section, Township and Range
- AGRICULTURE (Below grade markers)

In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;

 - A) Aerial photo showing the agricultural area
 - B) Request from the landowner for the below ground marker.

C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

Note: A below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.

Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
 - 1. Bell Canyon
 - 2. Cherry Canyon
 - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

Figure C

Potash Area R-111-P

T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All
except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23.
Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec
10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec
24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32
Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec
23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit
A-H. Sec 36 Unit B-G.

T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P.
Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P.
Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec
23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

T 21S – R 30E

Sec 1 – Sec 36

T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E

Sec 36 Unit A,H,I,P.

T 22S – R 29E

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit

A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

T 22S – R 30E

Sec 1 – Sec 36

T 22S – R 31E

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25

Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

T 23S – R 28E

Sec 1 Unit A

T 23S – R 29E

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit

A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33

Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

T 23S – R 30E

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit

A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec

33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

T 23S – R 31E

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P.

Sec 16 Unit

I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec

34. Sec 35 Unit C,D,E.

T 24S – R 29E

Sec 2 Unit A, B, C, D. Sec 3 Unit A

T 24S – R 30E

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11.

Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

T 24S – R 31E

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O, P. Sec 10 Unit B – G, K – N. Sec

35 Unit E – P. Sec 36 Unit E, K, L, M, N.

T 25S – R 31E

Sec 1 Unit C, D, E, F. Sec 2 Unit A – H.

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

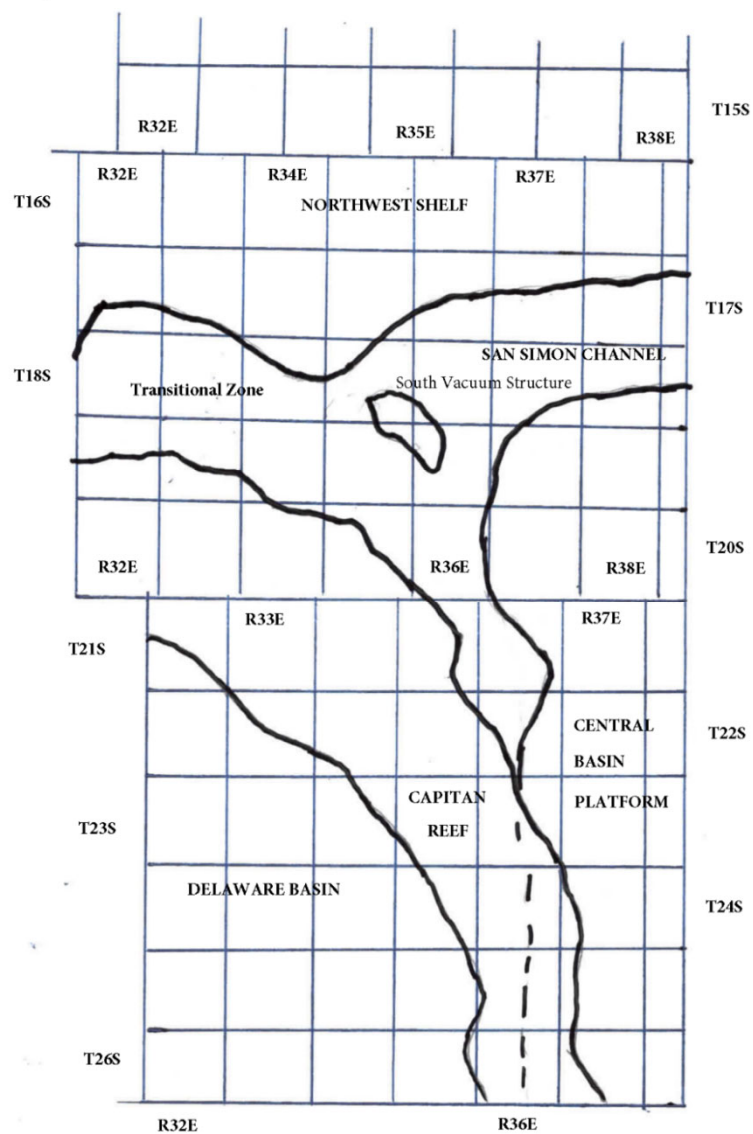


Figure D2 Formation Table

100' Plug to isolate upper and lower fresh water zones (typically 250' to 350')						
Northwest Shelf	Captan Reef Area	Transition Zone	San Simon Channel	South Vacuum Structure	Delaware Basin	Central Basin Platform
Granit Wash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit Wash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	McKee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	Wolfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	McKee
Chester	Pennsylvanian	Wolfcamp	Delaware	Barnett Shale	Lower Wolfcamp	Simpson Group
Austin	Wolfcamp	Bone Spring	San Andres	Morrow	Upper Wolfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	Wolfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of Wolfbone)	Silurian
Atoka	Queen, if present	Grayburg-San Andres	Base of Salt	Canyon	First Bone Spring Sand (Top of Lower Bone Spring)	Devonian
Lower Pennsylvanian	Bone Spring	Queen	Rustler	Pennsylvanian	Bone Spring	Strawn
Cisco-Canyon	Delaware	Seven Rivers		Blinbry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaware (Base of Salt)	Wolfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
Wolfcamp	Yates	Rustler		Queen		Abo Reef
Abo	Top Capitan Reef			Base of Salt		Drinkard
Abo Reef, if present	Base of Salt			Rustler		Tubb
Yeso (Township 15 South to Township 17 South)	Rustler					Blinbry
Drinkard or Lower Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinbry (Township 15 South to Township 17 South)						San Andres
Paddock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Grayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						

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 308427

CONDITIONS

Operator: P-R-O MANAGEMENT INC P.O. Box 190 Farmington, NM 87499	OGRID: 16788
	Action Number: 308427
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	Follow BLM call on tops - CBL required - Notify NMOCD 24 hours prior to moving on - review State COAS	3/4/2024