

Santa Fe Main Office

Phone: (505) 476-3441 Fax: (55) 476-3462

General Information

Phone: (505) 629-6116

Online Phone Directory Visit:

<https://www.emnrd.nm.gov/ocd/contact-us/>State of New Mexico
Energy, Minerals and Natural ResourcesForm C-103
Revised July 18, 2013OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-09728
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. NA
7. Lease Name or Unit Agreement Name NE Hogback Unit
8. Well Number # 28
9. OGRID Number 279508
10. Pool name or Wildcat HORSESHOE GALLUP

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator CHUZA OIL COMPANY	
3. Address of Operator NA	
4. Well Location Unit Letter <u>E</u> : <u>2310</u> feet from the <u> </u> North <u> </u> line and <u> </u> 925 <u> </u> feet from the <u> </u> West <u> </u> line Section <u>11</u> Township <u>30N</u> Range <u>16W</u> NMPM County <u>San Juan</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5493 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: <input type="checkbox"/>		SUBSEQUENT REPORT OF: REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER: <input type="checkbox"/>	
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13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

This well was previously operated by Chuza Oil Company, Marathon Petroleum Company LP, BP America, and BHP Petroleum/Woodside Energy have been identified by the BLM as record title holders and has taken responsibility for plugging and abandoning the well.

This well will be plugged and abandoned per the attached approved P&A procedure/COAs.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stuart Hyde TITLE Senior Managing Geologist DATE 9/10/2024

Type or print name Stuart Hyde E-mail address: shyde@ensolum.com PHONE: 970-903-1607

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Well Name: NE HOGBACK UNIT	Well Location: T30N / R16W / SEC 11 / SWNW / 36.82954 / -108.4995	County or Parish/State: SAN JUAN / NM
Well Number: 28	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077282	Unit or CA Name: NE HOGBACK UNIT	Unit or CA Number: NMNM78403A
US Well Number: 3004509728	Operator: CHUZA OIL CO INCORPORATED	

Notice of Intent

Sundry ID: 2807731
Type of Submission: Notice of Intent
Date Sundry Submitted: 08/20/2024
Date proposed operation will begin: 12/01/2024
Type of Action: Plug and Abandonment
Time Sundry Submitted: 02:11

Procedure Description: This well was previously operated by Chuza Oil Company. Marathon Petroleum Company LP, BP America, and BHP Petroleum/Woodside Energy have been identified as a previous record title owners and have taken responsibility for plugging and abandoning the well. This well will be plugged and abandoned per the attached P&A procedure.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Oral Submission

Oral Notification Date: Aug 20, 2024
Oral Notification Time: 12:00 AM
Contacted By: Devin Hencmann
Contact's Email: dhencmann@ensolum.com
Comments: Procedure and reclamation plan submitted through email and uploaded by BLM. Request was submitted by previous record title owners of the lease

NOI Attachments

Procedure Description
NE_Hogback_Unit_28__Reclamation_Plan_20240820141018.pdf
NEHU__28_P_A_Plan_20240820141018.pdf

Well Name: NE HOGBACK UNIT	Well Location: T30N / R16W / SEC 11 / SWNW / 36.82954 / -108.4995	County or Parish/State: SAN JUAN / NM
Well Number: 28	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077282	Unit or CA Name: NE HOGBACK UNIT	Unit or CA Number: NMNM78403A
US Well Number: 3004509728	Operator: CHUZA OIL CO INCORPORATED	

Conditions of Approval

Specialist Review

2807731_NOI_PnA_NE_Hogback_Unit_28_3004509728_MHK_08.23.2024_20240823134839.pdf

General_Requirement_PxA_20240822075121.pdf

SN_ID_2807731_30N16W11_NE_Hogback_Unit_28_Geo_MHK_20240822075108.pdf

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: 09/03/2024

Signature: Matthew Kade

Save

Print

Clear

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. NM 077282

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other Instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other7. If Unit of CA/Agreement, Name and/or No.
14-08-001-6674

8. Well Name and No. NEHU #28

2. Name of Operator Marathom Petroleum Corp for Chuza Oil Company

9. API Well No. 30-045-09728

3a. Address 539 S. Main St., Findlay, OH 45840

3b. Phone No. (include area code)

10. Field and Pool or Exploratory Area
Horseshoe Gallup4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit E, 2310' FNL, 925' FWL, Section 11, 30N, 16W11. Country or Parish, State
San Juan County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

This well will be plugged and abandoned per the attached P&A procedure.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Devin Hennemann

Associate Principal Geologist

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

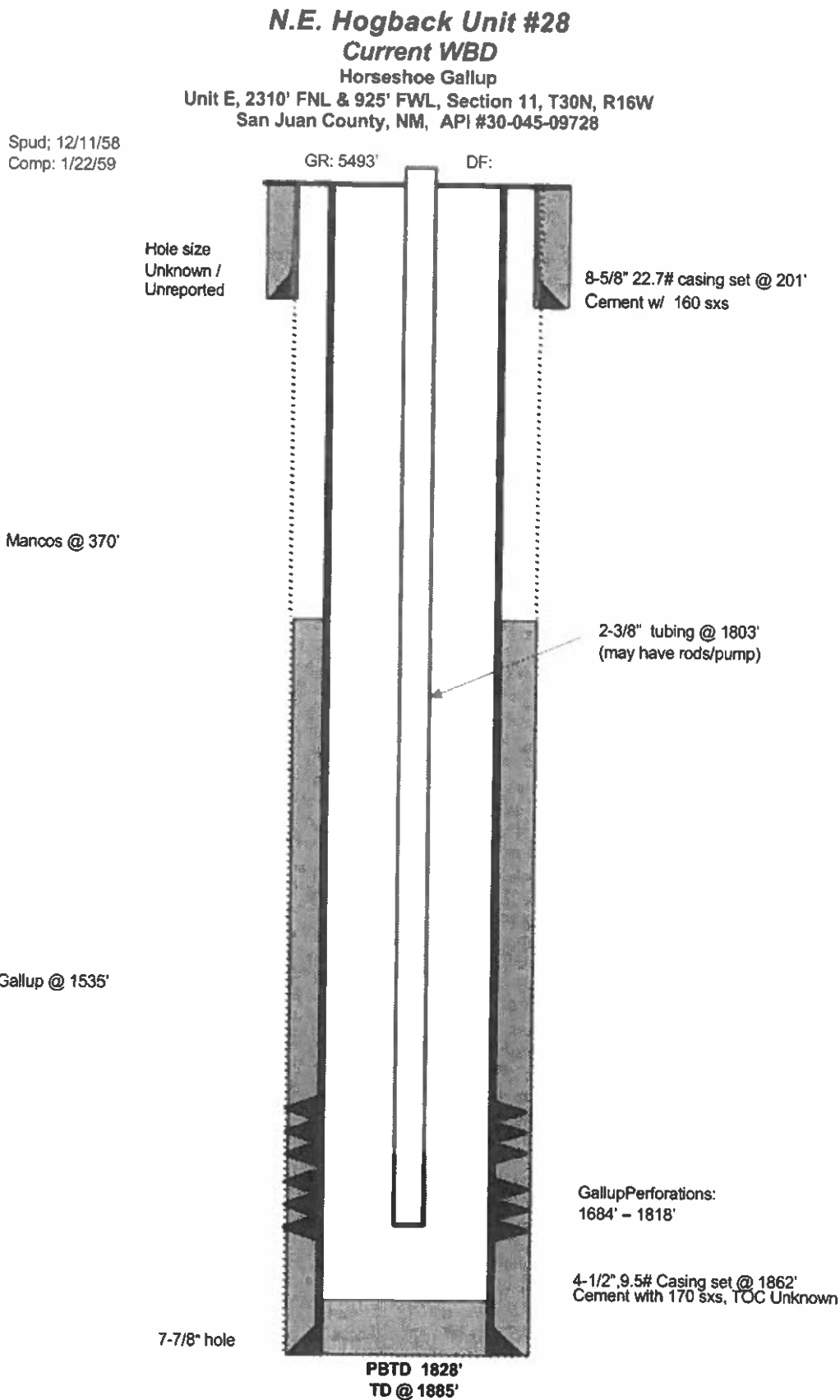
(Instructions on page 2)

Plug and Abandonment Procedure**N.E. Hogback Unit #28****API #30-45-09728****Unit E, 2310' FNL and 925' FWL Sec. 11, T30N, R16W****San Juan County, NM**

Note: All cement is to be Class G mixed at 15.8 ppg, yield 1.15 cu ft / sx. Cement volumes are based on inside capacities + 50' excess and outside capacities + 100% excess.

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU P & A rig and equipment.
3. Check and record tubing, casing and bradenhead pressures daily.
4. Remove existing piping from casing valve, RU blow lines from casing valves and blow down casing pressure. Kill well as necessary. Ensure that well is dead or on a vacuum.
5. ND WH, NU BOP, function test BOP.
6. TOH and LD tubing (may have rods and pump) if necessary PU workstring.
7. RIH 4.5" CIBP and set at 1634'. TOH.
8. MIRU logging truck. Run CBL log from CIBP to surface. Hold 600 psi on casing if possible. NOTE: Results of CBL may change the following plugs. Electronic copy of CBL to be sent to:
9. RIH with tubing workstring. Drop ball valve down tubing and pressure test to 1000#. Pressure test casing to 500#. If casing does not test then discuss with Regulatory for procedure change.
10. Plug 1: Gallup perforations and top: With CIBP @ 1634' mix and pump Classs G cement from top of BP to to 1435'.

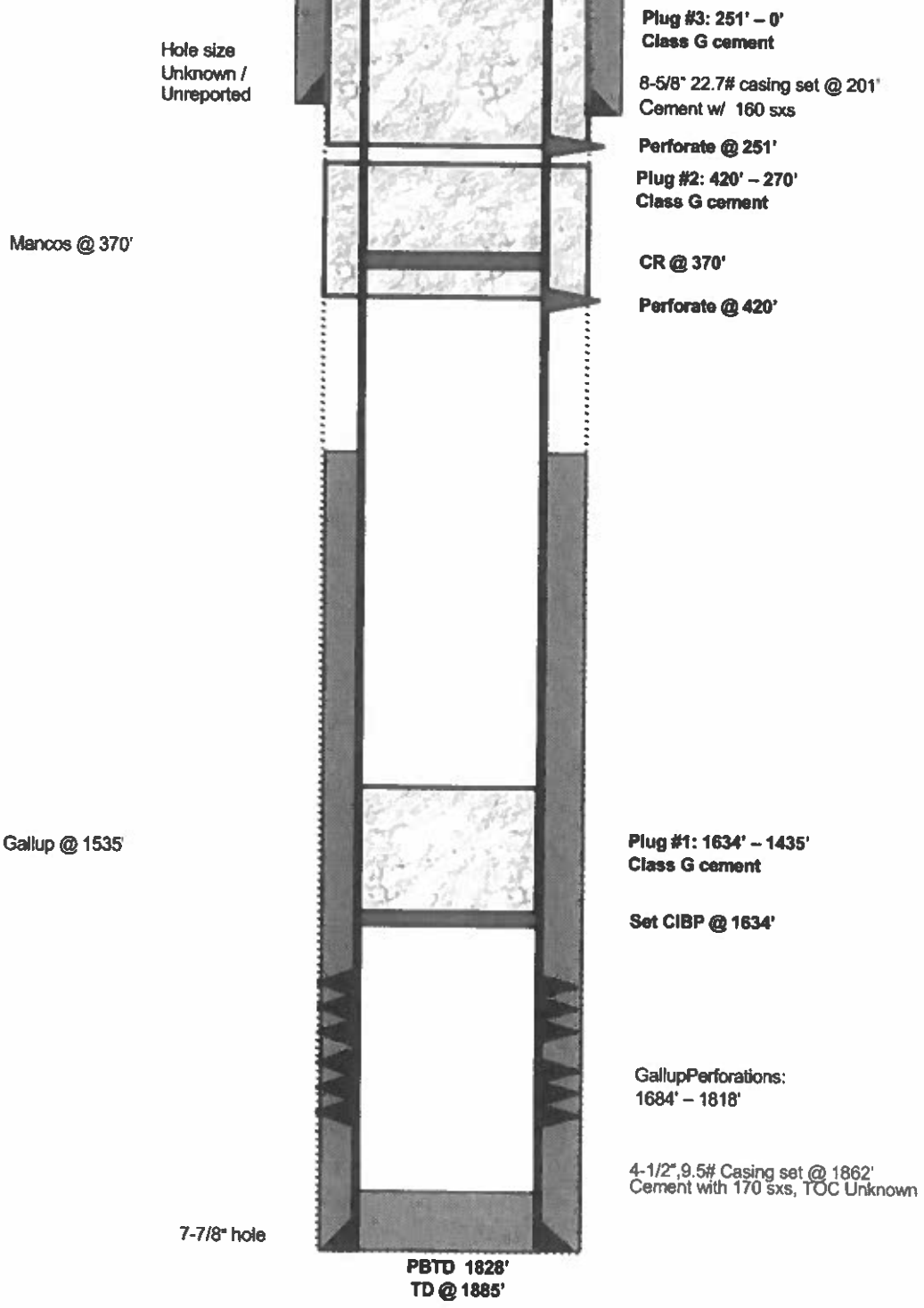
11. Pull up hole, WOC. TIH, tag Plug 1. If Plug 1 is at 1435' or above, continue to next step. If tag is lower than 1682' then discuss with Regulatory for procedure change.
12. Plug #2: Mancos top. Perforate casing @ 420', test ROI. RIH and set and release 4.5" CR @ 370'. Mix and pump Class G cement inside and outside from 420' – 270' PUH and WOC. If cement is lower than 270' contact Regulatory for procedure change.
13. Plug 3: Surface casing top: Perforate casing @ 251' and check for circulation out BH. Mix and pump Class G cement plug from 251' to 5' and circulate good cement out all annuli.
14. RD cementing equipment. Cut off wellhead, fill any exposed annulus with cement, as necessary. **Surface PxA marker is to be installed at surface, 12"x18", and exposed at the reclaimed GL surface.**
15. Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.
16. Top off casings and cellar with cement as required.
17. RD and MO all rig and cement equipment. Assure that location is free of trash before moving off.
18. Send all reports and attachments will be uploaded to NMOCD website within 30 days of completion.



N.E. Hogback Unit #28
Proposed P&A WBD
Horseshoe Gallup
Unit E, 2310' FNL & 925' FWL, Section 11, T30N, R16W
San Juan County, NM, API #30-045-09728

Spud: 12/11/58
Comp: 1/22/59

GR: 5493' DF:





June 04, 2024

Bureau of Land Management
Farmington Field Office
6521 College Blvd
Farmington, New Mexico 87402

Re: Proposed Reclamation Plan
NE Hogback Unit #28
San Juan County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of Marathon Petroleum Company LP (Marathon), has prepared the following Reclamation Plan for the NE Hogback Unit #28 well pad (Site). The Reclamation Plan documents the Site history and conditions and proposes reclamation and monitoring activities.

SITE INFORMATION

Operator: Chuza Oil Company

Well Name: NE Hogback Unit #28

API Number: 30-045-09728

GPS Coordinates: 36.8295822, -108.5001144

Location: Unit E, Section 11, Township 30N, Range 16W, San Juan County, New Mexico

SITE HISTORY

- The NE Hogback Unit #28 is an oil and gas production well that was in production between 1958 and 2016.
- The well was previously operated by Chuza Oil Company. Marathon Petroleum Company LP has been identified as a record title holder and has taken responsibility for the well. The well is scheduled for plugging and abandonment. The well will be plugged and abandoned in accordance with Bureau of Land Management (BLM) and New Mexico Oil Conservation Division (NMOCD) regulations.
- A review of NMOCD well records and available historical satellite imagery was completed.
 - No pits were documented in the NMOCD well records.
 - A spill or incident was recorded at the Site by the NMOCD on January 15, 2013.
 - Oil was leaking through the stuffing box and resolved on November 12, 2013.
 - No spills or pits were identified at the Site during a review of historical satellite imagery.

SITE CONDITIONS

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
776 E 2nd Ave | Durango Colorado, 81301 | ensolum.com

- A Site visit was conducted on May 9, 2024, to evaluate current Site conditions. Photographs from the Site visit are included in Appendix A.
 - Surface production equipment remained at the Site. The remaining production equipment included a small electric pumpjack, 130 gallon (gal) chemical tank, a buried 2-inch steel line, steel fencing, a concrete pad.
 - The Site is accessed by an approximate 1,125 feet of access road that will require reclamation.
 - The well pad surface was leveled (cut/fill) during pad construction activities and will require recontouring. No foreign material (caliche/gravel) appeared to have been hauled in during construction of the well pad or access road.
 - No surface staining was identified at the Site.
 - The well pad was mostly bare with some encroaching native vegetation.
 - The well pad and surrounding topography are flat.
 - The surrounding land consists of rock outcrops and native rangeland and is predominantly used for wildlife grazing and oil and gas operations.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Badland-Monierco-Rock Outcrop Complex.

Summary of Badland:

- Typical Soil Profile
 - 0 to 60 inches: Bedrock
- Properties
 - Slope: 5 to 30 percent slopes
 - Depth to restrictive feature: 0 to 2 inches to paralithic bedrock
 - Drainage Class: Well drained
 - Runoff class: Very high

Summary of Monierco:

- Typical Soil Profile
 - 0 to 2 inches: Fine sandy loam
 - 2 to 14 inches: Clay loam
 - 14 to 20 inches: Bedrock
- Properties
 - Slope: 0 to 8 percent slopes
 - Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
 - Drainage Class: Well drained
 - Runoff class: High

Summary of Rock Outcrop:

- Typical Soil Profile
 - 0 to 60 inches: Bedrock
- Properties
 - Slope: 5 to 30 percent slopes
 - Depth to restrictive feature: 0 inches to paralithic bedrock
 - Drainage Class: Well drained
 - Runoff class: Very high

RECLAMATION PLAN

- The well and flow lines will be abandoned in accordance with applicable NMOCDC regulations. All surface production equipment and power poles will be removed from the Site.
- The BLM will be notified at least two business days prior to commencement of reclamation operations.
- The visibly stained soil identified around the pumpjack and storage tank will be excavated and removed from the Site.
 - If impacted soil is encountered that is sufficient to be considered a reportable release, per Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC), a release notification will be submitted to NMOCDC and remediation and soil sampling activities will be completed in accordance with 19.15.29.12 NMAC.
- Upon completion of remediation activities, if required, surface reclamation will proceed.
- The well pad will be recontoured to match the surrounding topography.
- The well pad and access road will be ripped or disced, if needed, to alleviate compaction. Ripping will not be completed in areas of exposed or shallow bedrock.
- Any salvaged topsoil will be distributed across the well pad and roughened for initial seedbed preparation.
- The well pad and access road will be seeded.
 - Seeding will be completed within two weeks following completion of final seedbed preparation, if conditions are favorable. Alternatively, seeding will be completed the following spring/fall when temperatures and precipitation are the most conducive to vegetation growth.
- A certified weed-free seed mix will be used. Based on the soil type and location of the Site, the below BLM recommended Badland seed mix will be used to seed the Site at the rate specified in pounds of pure live seed (PLS) per acre. Seed species will include:

Common Name	Scientific Name	PLS/Acre
Fourwing saltbush	Atriplex canescens	4.0
Shadscale	Atriplex confertifolia	2.0
Indian ricegrass	Achnatherum hymenoides	5.0
Sand dropseed	Sporobolus cryptandrus	0.5
Blue grama	Bouteloua gracilis	2.0
Siberian wheatgrass	Agropyron fragile	3.0
Small flower globemallow	Sphaeralcea parvifolia	0.25

- Seed species may be substituted for other Badland seed mix species based on availability from the seed supplier.
- The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and seeding will be followed by light chaining or harrowing.
- The seeded areas may be fenced, if warranted, to prevent livestock and wildlife from impacting vegetation establishment.

- Reclamation activities will be documented with photographs and will be timestamped with GPS data in decimal degrees.
- Erosion control of the newly reclaimed areas will include prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- The access road will be bermed at the entrance to discourage vehicles from entering the reclaimed areas. Seed will be broadcast on the berm to encourage stabilization.

RECLAMATION MONITORING

- The Site will be monitored for vegetation growth to ensure that reclamation activities were successful. Focus for this phase will be to prevent erosion and site degradation, and to monitor for and treat invasive and noxious weed species.
 - In the event erosion control management is necessary to support vegetation growth and minimize erosion until the root structures take hold, the following best management practices (BMPs) may be applied:
 - Placement of wattles in areas with a propensity for high run off rates;
 - Straw cover, if high winds are anticipated, to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control BMPs as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
 - Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.
- Annual inspections (at a minimum) will take place at the location until revegetation is consistent with local natural vegetation density.
- Upon completion of revegetation, a Final Abandonment Notice (FAN), Form 3160-5, will be submitted to the BLM for final inspection and release.

SCHEDULE OF IMPLEMENTATION

All Site activities are planned to be completed as soon as possible. The schedule will be arranged as necessary pending plugging and abandonment of the well and approval of this Reclamation Plan by the BLM.

If you have any questions or comments, please contact Mr. Devin Hencmann at (970) 403-6023 or dhencmann@ensolum.com.

Sincerely,
Ensolum, LLC

Devin Hencmann
Associate Principal



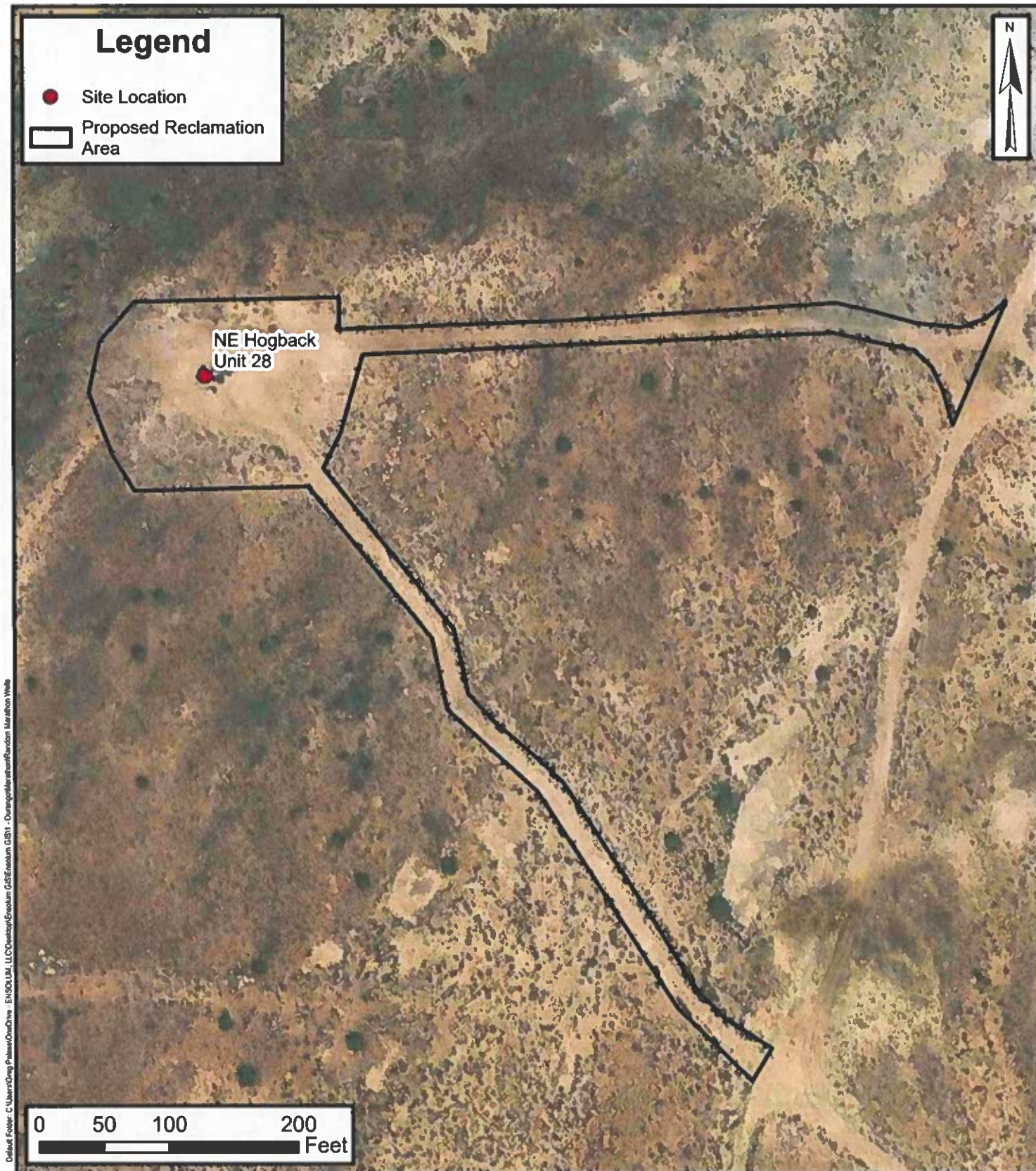
cc: Kateri A Luka, Marathon Petroleum Company LP

Appendices:

- Figure 1 Total Reclamation Area
- Figure 2 Well Pad Reclamation Area
- Appendix A Photographic Log



FIGURES



Total Reclamation Area

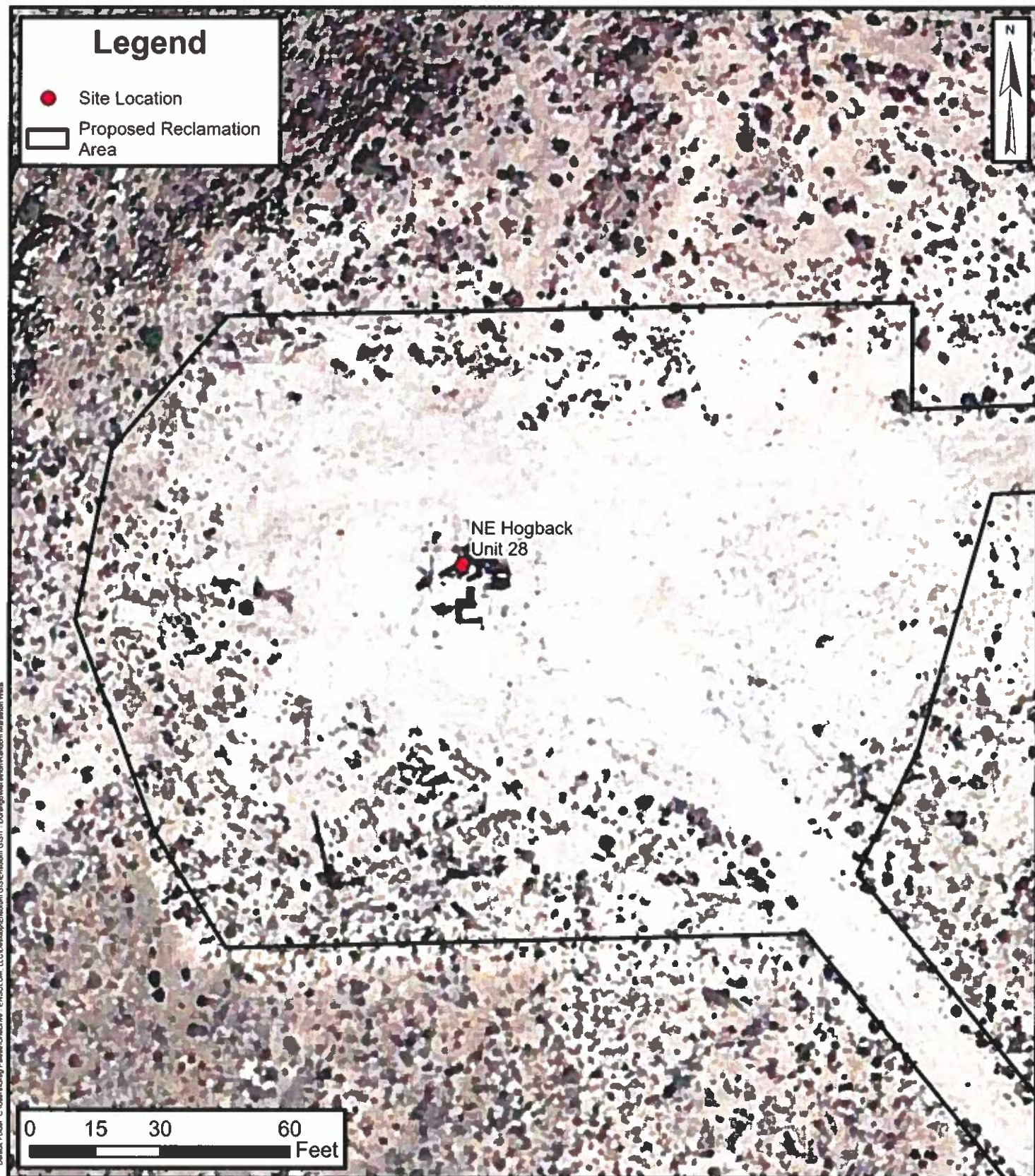
NE Hogback Unit #28
Marathon Petroleum Company LP

36.8295822, -108.5001144
San Juan County, New Mexico

FIGURE

1

Sources: Environmental Systems Research Institute (ESRI), Maxar, Microsoft



Well Pad Reclamation Area

NE Hogback Unit #28
Marathon Petroleum Company LP

36.829582, -108.500114
San Juan County, New Mexico



FIGURE
2

Sources: Google Earth (2019)



APPENDIX A

**Photographic Log**

Marathon Petroleum Company LP
NE HOGBACK UNIT #028
30-045-09728



Photograph 1 Date: 5-9-2024
Description: Production equipment
View: North



Photograph 2 Date: 5-9-2024
Description: Production equipment
View: East



Photograph 3 Date: 5-9-2024
Description: Production equipment
View: South



Photograph 4 Date: 5-9-2024
Description: Production equipment
View: West



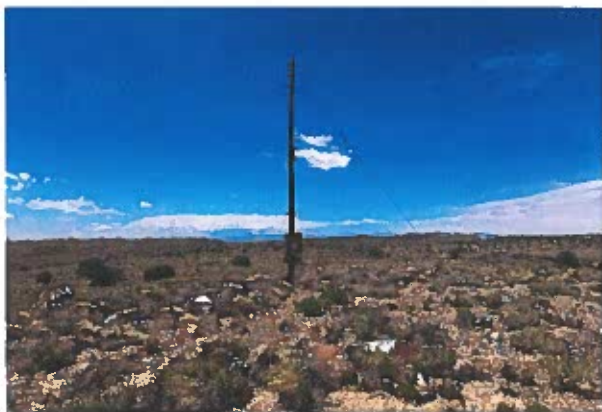
Photographic Log
Marathon Petroleum Company LP
NE HOGBACK UNIT #028
30-045-09728



Photograph 5
Date: 5-9-2024
Description: Well head and cellar
View: NA



Photograph 6
Date: 5-9-2024
Description: Concrete pad and surrounding area
View: Northwest



Photograph 7
Date: 5-9-2024
Description: Electric pole and drop
View: South



Photograph 8
Date: 5-9-2024
Description: Electric pole and drop towards pad
View: North

BLM FLUID MINERALS P&A Geologic Report

AFMSS ID: 2807731

Date Completed: 08/22/2024

Well No.: NE Hogback Unit 28 (API 30-045-09728)		Location:	2310	FNL	&	925	FWL
Lease No.: NMNM 04407		SWNW	Sec. 11		T30N	R16W	
Operator: Chuza Oil Company		County:	San Juan		State:	New Mexico	
Total Depth: 1885'	1828' (PBTD)	Formation: Gallup					
Elevation (GL): 5493'		Elevation (KB):					

Geologic Formations	Est. Top	Log Top	Remarks
San Jose Fm			
Nacimiento Fm			
Ojo Alamo Ss			
Kirtland Shale			
Fruitland Fm			
Pictured Cliffs Ss			
Lewis Shale			
Chacra			
Cliff House Ss			
Menefee Fm			
Point Lookout Ss		Surface	Possible gas/water
Mancos Shale		320'	Oil & gas
Gallup		1650'	Oil & gas
Greenhorn			
Graneros Shale			
Dakota Ss			

Remarks:

P&A

- Marathon Petroleum is plugging this well as previous record title owner of the lease
- Gallup perfs 1684 – 1818'

Reference Wells:

Chuza Oil Co Inc.
NE Hogback Unit 28 (3004509728)
Sec 11, T30N, R16W

Prepared by: Matthew Kade

With help from Aleksandr Knapowski



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



CONDITIONS OF APPROVAL

August 28, 2024

Notice of Intent - Plug and Abandonment

Operator: Chuza Oil Company
Marathon Petroleum Company LP (as previous record title owner)
Lease: NMNM077282
Unit: NMNM78403A
Well(s): NE Hogback Unit 28, API # 30-045-09728
Location: SWNW Sec 11 T30N R16W (San Juan County, NM)
Sundry Notice ID#: 2807731

The Notice of Intent to Plug and Abandon is accepted with the following Conditions of Approval (COA):

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Send electronic copy of CBL to BLM Petroleum Engineers Matthew Kade (mkade@blm.gov) and Kenneth Rennick (krennick@blm.gov)
3. The following modifications to your plugging program are made:
 - a. Adjust Plug #2/3 (Steps 12/13) to cover BLM Mancos formation top pick @ 320'. Perforate @ 370' and pump class G cement inside/outside from 370' – 5' (estimated minimum 108 sx)
4. **Notification:** Farmington Field 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 December 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. Any estimated minimum sacks provided in procedure modification include necessary excesses.

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

**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.

BLM FLUID MINERALS P&A Geologic Report

AFMSS ID: 2807731

Date Completed: 08/22/2024

Well No.: NE Hogback Unit 28 (API 30-045-09728)		Location:	2310	FNL	&	925	FWL
Lease No.: NMNM 04407		SWNW	Sec. 11		T30N	R16W	
Operator: Chuza Oil Company		County:	San Juan		State:	New Mexico	
Total Depth: 1885'	1828' (PBSD)	Formation: Gallup					
Elevation (GL): 5493'		Elevation (KB):					

Geologic Formations	Est. Top	Log Top	Remarks
San Jose Fm			
Nacimiento Fm			
Ojo Alamo Ss			
Kirtland Shale			
Fruitland Fm			
Pictured Cliffs Ss			
Lewis Shale			
Chacra			
Cliff House Ss			
Menefee Fm			
Point Lookout Ss		Surface	Possible gas/water
Mancos Shale		320'	Oil & gas
Gallup		1650'	Oil & gas
Greenhorn			
Graneros Shale			
Dakota Ss			

Remarks:

P&A

- Marathon Petroleum is plugging this well as previous record title owner of the lease
- Gallup perms 1684 – 1818'

Reference Wells:

Chuza Oil Co Inc.
NE Hogback Unit 28 (3004509728)
Sec 11, T30N, R16W

Prepared by: Matthew Kade
With help from Aleksandr Knapowski



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Farmington District Office
6251 College Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



CONDITIONS OF APPROVAL

August 28, 2024

Notice of Intent - Plug and Abandonment

Operator: Chuza Oil Company
Marathon Petroleum Company LP (as previous record title owner)
Lease: NMNM077282
Unit: NMNM78403A
Well(s): NE Hogback Unit 28, API # 30-045-09728
Location: SWNW Sec 11 T30N R16W (San Juan County, NM)
Sundry Notice ID#: 2807731

The Notice of Intent to Plug and Abandon is accepted with the following Conditions of Approval (COA):

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Send electronic copy of CBL to BLM Petroleum Engineers Matthew Kade (mkade@blm.gov) and Kenneth Rennick (krennick@blm.gov)
3. The following modifications to your plugging program are made:
 - a. Adjust Plug #2/3 (Steps 12/13) to cover BLM Mancos formation top pick @ 320'. Perforate @ 370' and pump class G cement inside/outside from 370' - 5' (estimated minimum 108 sx)
4. **Notification:** Farmington Field 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 December 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. Any estimated minimum sacks provided in procedure modification include necessary excesses.

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

**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.

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

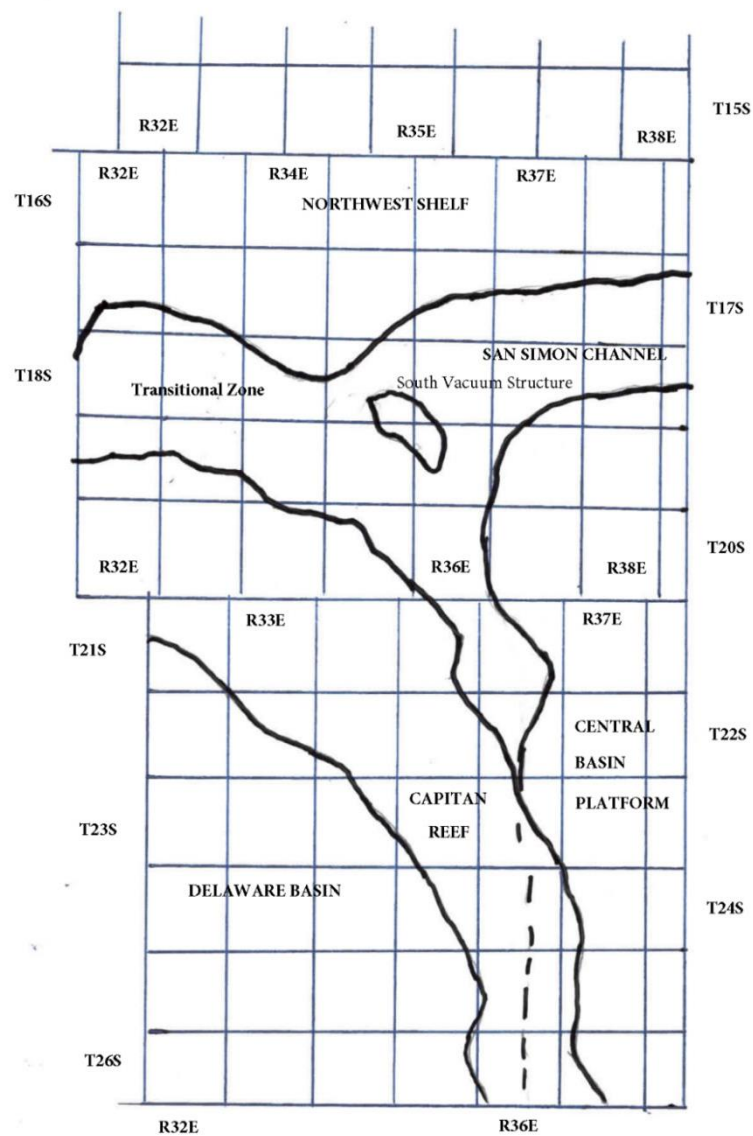


Figure D2 Formation Table

100' P'lug to isolate upper and lower fresh water zones (typiailly 2.50' to 350')						
NDIthwest Shelf	C;iptan Reef Area	Tran5ition Zone	San Simon Oh.annel	South \lacJUUm Structure	Delaware Basin	Ce<n,tiral Basin Platform
Granit \./ash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit \./ash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	Mckee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	\./olfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	Mckee
Chester	Pennsylvanian	\./olfcamp	Delaware	Barnett Shale	Low er \./olfcamp	Simpson Group
Austin	\./olfcamp	Bone Spring	San Andres	Morrow	Upper \./olfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	\./olfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of \./olfbone)	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		Blinebry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaw are (Base of Salt)	\./olfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
\./olfcamp	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					Blinebry
Drinkard or Low er Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinebry (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						

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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 382347

CONDITIONS

Operator: Western Refining Southwest LLC 539 South Main Street Findlay, OH 45840	OGRID: 267595
	Action Number: 382347
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	Notify NMOCD 24 hours prior to beginning P&A operations.	9/11/2024
loren.diede	The P&A marker is to be an above-ground 4" marker, not a plate marker.	9/11/2024