(DO NOT USE THIS FORM FOR PROPOSAI DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.)	Energy, Minerals and Natural Resou OIL CONSERVATION DIVISI 1220 South St. Francis Dr. Santa Fe, NM 87505 ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO TION FOR PERMIT" (FORM C-101) FOR SUCH	ION WELL API NO. 30-045-09576 5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. NA 7. Lease Name or Unit Agreement Name
https://www.emnrd.nm.gov/ocd/contact-us/ SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.) 1. Type of Well: Oil Well 🛛 Ga 2. Name of Operator	1220 South St. Francis Dr. Santa Fe, NM 87505 ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO TION FOR PERMIT" (FORM C-101) FOR SUCH	5. Indicate Type of Lease STATE FEE 6. State Oil & Gas Lease No. NA 7. Lease Name or Unit Agreement Name
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAI DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.) 1. Type of Well: Oil Well Ga 2. Name of Operator	Santa Fe, NM 87505 ES AND REPORTS ON WELLS LS TO DRILL OR TO DEEPEN OR PLUG BACK TO TION FOR PERMIT" (FORM C-101) FOR SUCH	 6. State Oil & Gas Lease No. NA 7. Lease Name or Unit Agreement Name
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DIFFERENT RESERVOIR. USE "APPLICAT PROPOSALS.) 1. Type of Well: Oil Well Ga 2. Name of Operator	TION FOR PERMIT" (FORM C-101) FOR SUCH	
1. Type of Well: Oil Well Ga 2. Name of Operator		TO A NE Hogsback Unit
2. Name of Operator	as Well Other	8. Well Number #5
CHUZA OIL COMPANY		9. OGRID Number 279508
3. Address of Operator NA		10. Pool name or Wildcat HORSESHOE GALLUP
4. Well Location		HORSESHOE GALLUF
	t from the North line and 21	70 feet from the West line
Section 15	Township 30N Range	16W NMPM County San Juan
	11. Elevation (Show whether DR, RKB, RT	
	5448 GR	.,,,
12. Check Ap	propriate Box to Indicate Nature of I	Notice, Report or Other Data
—	—	ENCE DRILLING OPNS. P AND A
		G/CEMENT JOB
DOWNHOLE COMMINGLE		
CLOSED-LOOP SYSTEM		
OTHER:	OTHER:	:
		letails, and give pertinent dates, including estimated date
		Itiple Completions: Attach wellbore diagram of
proposed completion or recom	ipletion.	
This well was previously operated by C	Chuza Oil Company. Marathon Petroleum C	Company LP, BP America, and BHP
		lers and has taken responsibility for plugging and
bandoning the well.	-	
his well will be plugged and abandon	ed per the attached approved P&A procedu	ıre/COAs.
pud Date:	Rig Release Date:	
pud Date:	Rig Release Date:	
	Rig Release Date:	knowledge and belief.
		knowledge and belief.
hereby certify that the information abo	ove is true and complete to the best of my k	
Spud Date: hereby certify that the information about the second s		
hereby certify that the information abo	ove is true and complete to the best of my k TITLESenior Managir	ng GeologistDATE8/26/2024
hereby certify that the information about the second secon	ove is true and complete to the best of my k TITLE_ <u>Senior Managir</u>	ng GeologistDATE8/26/2024
hereby certify that the information about the second secon	ove is true and complete to the best of my k TITLE_Senior Managir E-mail address:shyde@ens	ng GeologistDATE8/26/2024

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U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		08/01/2024
Well Name: NE HOGBACK UNIT	Well Location: T30N / R16W / SEC 15 / NENW / 36.81909 / -108.51328	County or Parish/State: SAN JUAN / NM
Well Number: 5	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM04443	Unit or CA Name: NE HOGBACK UNIT	Unit or CA Number: NMNM78403A
US Well Number: 3004509576	Operator: CHUZA OIL CO INCORPORATED	



Sundry ID: 2803348

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/26/2024

Type of Action: Plug and Abandonment

Time Sundry Submitted: 10:45

Date proposed operation will begin: 12/01/2024

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:	Jul 25, 2024	Oral Notification Time:	12:00 AM
Contacted By:	Devin Hencmann	Contact's Email:	dhencmann@ensolum.com
Comments:		tion plan submitted through email a ous record title owners of the lease	
NOI Attachments			

Procedure Description

Well Name: NE HOGBACK UNIT	Well Location: T30N / R16W / SEC 15 / NENW / 36.81909 / -108.51328	County or Parish/State: SAN JUAN / NM
Well Number: 5	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM04443	Unit or CA Name: NE HOGBACK UNIT	Unit or CA Number: NMNM78403A
US Well Number: 3004509576	Operator: CHUZA OIL CO INCORPORATED	

Conditions of Approval

Specialist Review

2803348_NOI_PnA_NE_Hogback_Unit_5_3004509576_MHK_07.31.2024_20240801085052.pdf

General_Requirement_PxA_20240801082240.pdf

SN_ID_2803348_30N16W15_NE_Hogback_Unit_5_Geo_MHK_20240801082228.pdf

BLM Point of Contact

BLM POC Name: MATTHEW H KADE

BLM POC Phone: 5055647736

Disposition: Approved

Signature: Matthew Kade

BLM POC Title: Petroleum Engineer

BLM POC Email Address: MKADE@BLM.GOV

Disposition Date: 08/01/2024

f 43			INTERIOR		Expir	
4 0	BUR	EAU OF LAND MAN	IAGEMENT		5. Lease Serial No. NN	1 04443
Page	Do not use this i	form for proposals	to drill or to re-enter an		6. If Indian, Allottee or	Tribe Name
	SUBMIT IN	TRIPLICATE - Other instr	ructions on page 2		7. If Unit of CA/Agreen	nent, Name and/or No.
	I. Type of Well				•	
	Oil Well Gas Well	Other			8. Well Name and No.	NEHBU #5
	2 Name of Operator	ipany			9. API Well No. 30-045	5-09576
	3a. Address		3b. Phone No. (include area code	le)		
	4. Location of Well (Footage, Sec., T., F	R. M. or Survey Description	1)		11. Country or Parish, S	itate
	· · · · · · · · · · · · · · · · · · ·				San Juan County, N	IM
	12. CHE	CK THE APPROPRIATE E	BOX(ES) TO INDICATE NATURE	E OF NOTI	CE, REPORT OR OTHE	ER DATA
	TYPE OF SUBMISSION		TY	PE OF AC	TION	
	Notice of Intent	Acidize	Deepen	—	· · ·	Water Shut-Off
		Alter Casing	Hydraulic Fracturing	Reci	amation	Well Integrity
	Subsequent Report	Casing Repair	New Construction	Ξ		Other
	Final Abandonment Notice			=		
						and approximate duration thereof. If
	the proposal is to deepen directions the Bond under which the work will completion of the involved operation	ally or recomplete horizontal Il be perfonned or provide th ons. If the operation results i	Ily, give subsurface locations and r he Bond No. on file with BLM/BIA in a multiple completion or recomp	measured a A. Required pletion in a	nd true vertical depths of subsequent reports must new interval, a Form 310	all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been
	This well was previously operated I	by Chuza Oil Company. Ma	rathon Petroleum Company LP ha	is been ider	ntif ied as a record title h	older and has taken
	(June 2015) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Expire:: 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 04443 SUBMIT IN TRIPLICATE - Other instructions on page 2 7. If Unit of CA/Agreement, Name and/or No. Northeast Hogback Unit I. Type of Well Gas Well Other Ø Oil Well Gas Well Other Jan and Operator Chuza Oil Company 3b. Phone No. (include area code) 10. Field and Pool or Exploratory Area Horsehoe Gallup Unit 4 Location of Well (Footage, Sec., T.R. M., or Survey Description) 11. 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 SUBMISSION Production (Star/Resume) Water Shut-Oif Wolice of Intent Alter Casing Hydraulic Fracturing Production (Star/Resume) Water Shut-Oif Subsequent Report Casing Repair Production (Star/Resume) Water Shut-Oif Subsequent Report Charge Plans Plug and Abandon Temporarily Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal 13. Describe Proposed or Completed Opera					
	This well will be plugged and a	abandoned per the attach	ed P&A procedure.			

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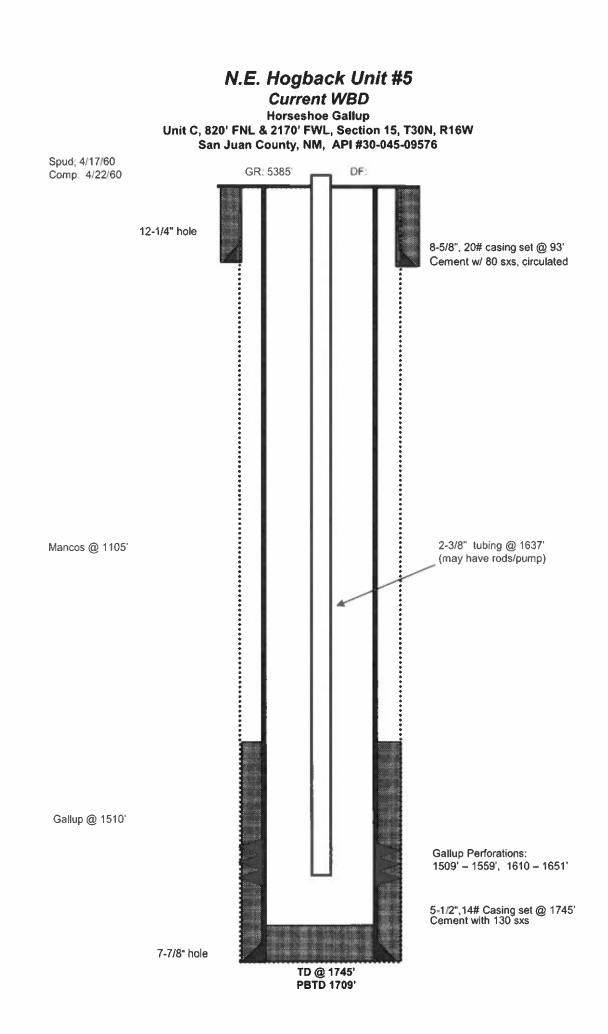
14. I hereby certify that the foregoing is true and correct. Name (Printed/Ty, Devin Hencmann	ped) Title	Associate Principal Ge	eologist	
Signature D.	Date	6/03/2024		4M
THE SPACE FOR	R FEDERA	L OR STATE OFIC	EUSE	-13
Approved by Conditions of approval, if any, are attached. Approval of this notice does no certify that the applicant holds legal or equitable title to those rights in the s which would entitle the applicant to conduct operations thereon.		Title	Date	9/5/2024 11:15
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a cria any false, fictitious or fraudulent statements or representations as to any ma	me for any per atter within its j	son knowingly and willful jurisdiction.	ly to make to any department or agency of the United S	tates.
(Instructions on page 2)				Released to Im

Plug and Abandonment Procedure N.E. Hogback Unit #5 API #30-45-09576 Unit C, 820' FNL and 2170' FWL Sec. 15, 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 5.5" CIBP and set at 1459'. 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:
- 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 (NMOCD, BLM) for procedure change.

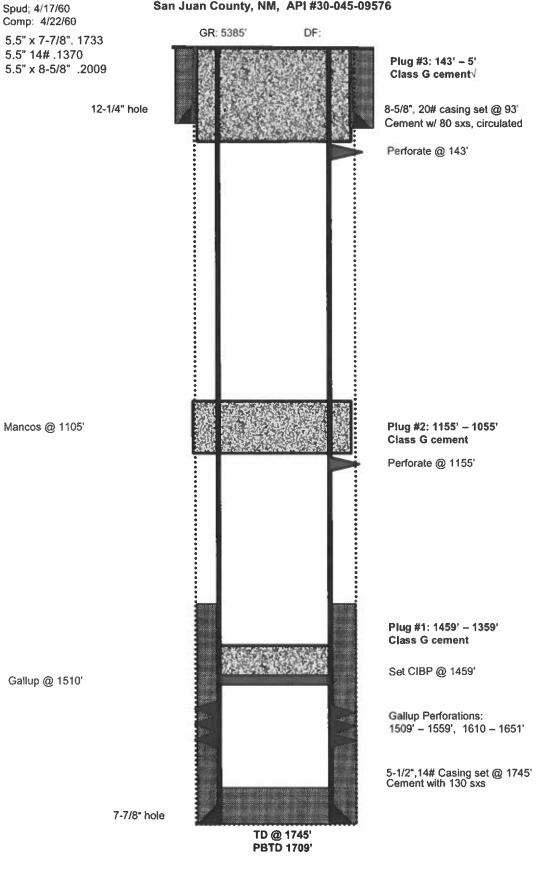
- 10. Plug 1: Gallup perforation: With CIBP @ 1459' mix and pump Class G cement from top of BP to to 1359'.
- 11. Pull up hole, WOC. TIH, tag Plug 1. If Plug 1 is at 1359' or above, continue to next step. If tag is lower than 1359' then discuss with Regulatory (NMOCD, BLM) for procedure change.
- 12. MIRU wireline unit. Perforate squeeze holes at 1155'. Establish injection rate.
- Plug #2: Gallup top. Mix and pump Class G cement inside/outside from 1155' to 1055'. PUH and WOC. If cement is lower than 1055' contact Regulatory (NMOCD, BLM) for procedure change.
- 14. MIRU wireline unit. Perforate squeeze holes at 143'. Establish injection rate.
- 15. Plug 3: Mancos formation and Surface casing top: Spot Class G cement plug from 143' to 5' and circulate good cement out casing and annulus.
- 16. 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.
- 17. Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.
- 18. Top off casings and cellar with cement as required.
- 19. RD and MO all rig and cement equipment. Assure that location is free of trash before moving off.
- 20. Send all reports and attachments will be uploaded to NMOCD website within 30 days of completion.



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N.E. Hogback Unit #5 Proposed WBD Horseshoe Gallup Unit C, 820' FNL & 2170' FWL, Section 15, T30N, R16W San Juan County, NM, API #30-045-09576



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June 03, 2024

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

Re: Proposed Reclamation Plan NE Hogback Unit #5 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 #5 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 #5

API Number: 30-045-09576

GPS Coordinates: 36.8192215, -108.5136948

Location: Unit C, Section 15, Township 30N, Range 16W, San Juan County, New Mexico

SITE HISTORY

- The NE Hogback Unit #5 is an oil and gas production well that was in production between 1960 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.
 - No spills or incidents were recorded at the Site by the NMOCD.
 - No spills or pits were identified at the Site during a review of historical satellite imagery.

SITE CONDITIONS

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- A Site visit was conducted on May 8, 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 combustion engine pumpjack, 1-inch and 1.5-inch ploy pipe running off pad, 2-inch buried steel line, and a concrete pad.
 - The Site is accessed by an approximate 990 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 vegetated with native flora.
 - The well pad and surrounding topography are gently rolling with a slope to the north.
 - 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 NMOCD 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.
- No impacted soil was identified during the aerial imagery review or Site visit. However, if any stained or impacted soil is discovered during reclamation activities it 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 NMOCD and remediation and soil sampling activities will 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 globernallow	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.

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- 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 waddles 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

Decq.

cc: Kateri A Luka, Marathon Petroleum Company LP



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⁹age 13 of 43

Marathon Petroleum Company LP Reclamation Plan NE Hogback Unit 5

Appendices:

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

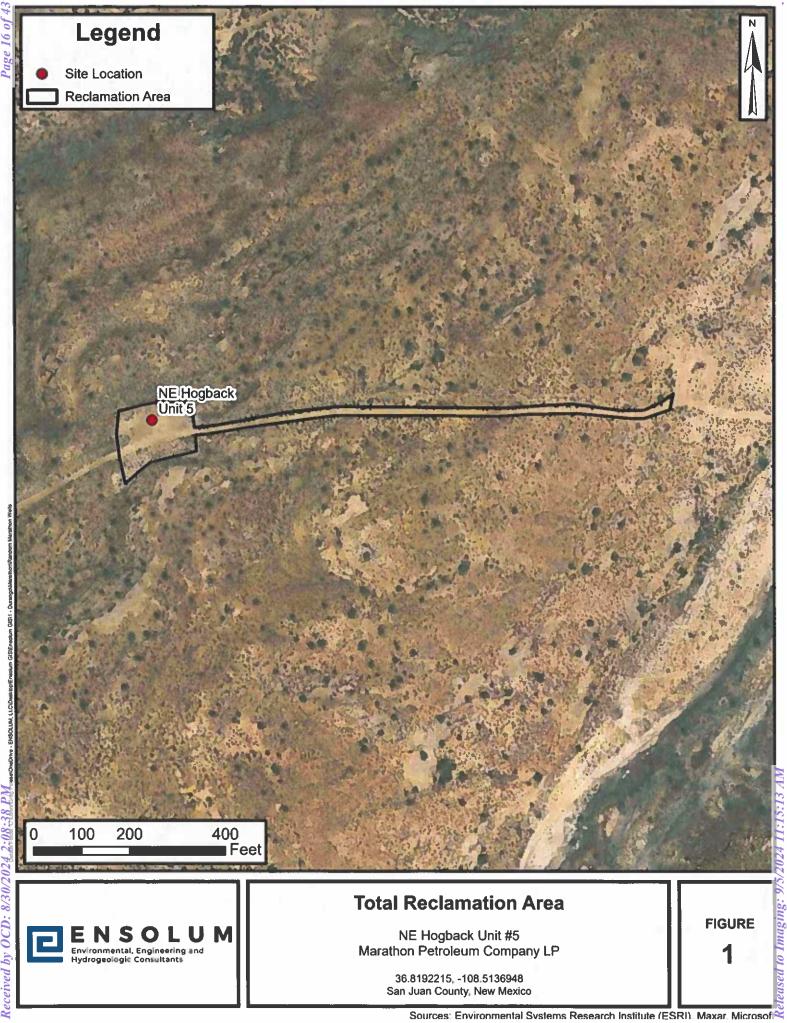
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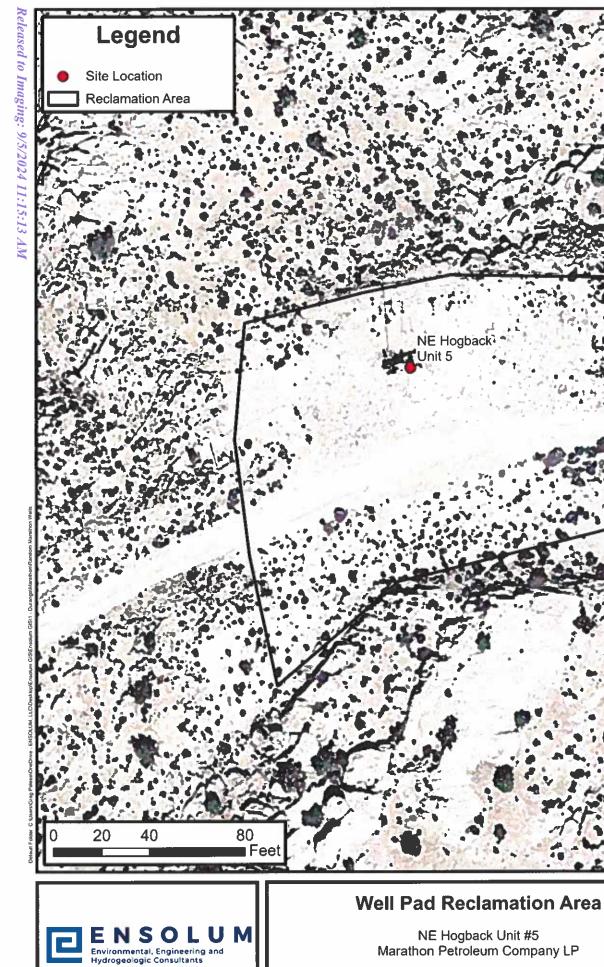
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FIGURES





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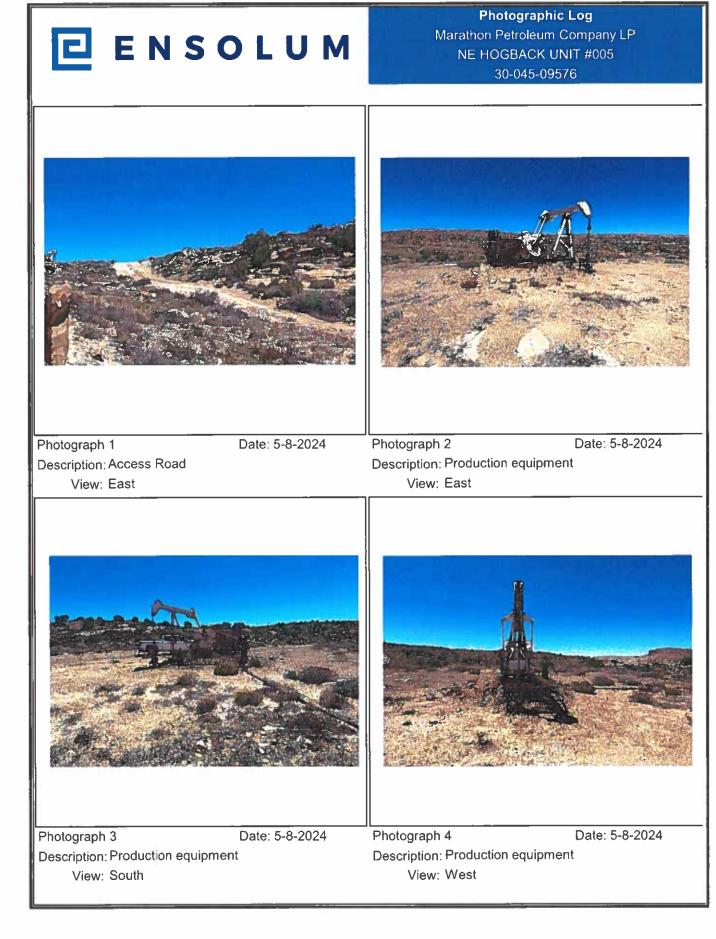
36 8192215 -108.5136948 San Juan County, New Mexico FIGURE

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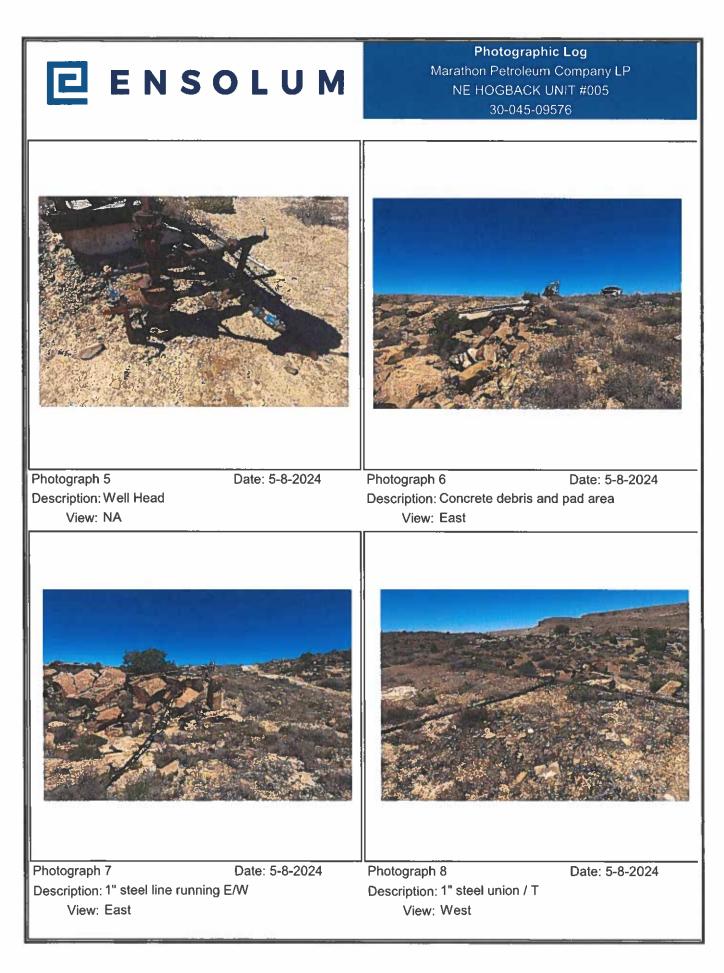
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ENSOLUM

APPENDIX A



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BLM FLUID MINERALS P&A Geologic Report

AFMSS ID: 2803348

Date Completed: 06/13/2024

Well No.: NE Hogback Unit 5 (API 30-045-09576)		Location:	820	FNL	&	2170	FWL
Lease No.: NMNM 04444		NENW	Sec.	Sec. 15 T30N R		RI	6W
Operator: Chuza Oil Company		County:	San Juan State: New M		New Mexi	co	
Total Depth: 1747'	1706' (PBTD)	Formation:	Gallup				
Elevation (GL): 5430'		Elevation (K	B):				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	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	175'			Possible gas/water
Mancos Shale	175'	1150'			Oil & gas
Gallup	1150'				Oil & gas
Greenhorn					
Graneros Shale					
Dakota Ss					

<u>Remarks:</u>

P&A

- Marathon Petroleum is plugging this well as previous record title owner of the lease

Reference Wells: Chuza Oil Co Inc. NE Hogback Unit 5 (3004509576) Sec 15, T30N, R16W

Gallup perfs 1509 - 1559', 1610 - 1651'

Prepared by: Matthew Kade With help from Aleksandr Knapowski Released to Imaging: 9/5/2024 11:15:13 AM

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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

July 31, 2024

Notice of Intent - Plug and Abandonment

Operator:	Chuza Oil Company
	Marathon Petroleum Company LP (as previous record title owner)
Lease:	NMNM04443
Unit:	NMNM78403A
Well(s):	NE Hogback Unit 5, API # 30-045-09576
Location:	NENW Sec 15 T30N R16W (San Juan County, NM)
Sundry Notice ID#:	2803348

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 (<u>mkade@blm.gov</u>) and Kenneth Rennick (<u>krennick@blm.gov</u>)
- 3. The following modifications to your plugging program are made:

a. Adjust Plug #2 (Step 12/13) to cover BLM Gallup formation top pick @ 1150'. If CBL shows TOC below 1200', perforate squeeze holes at 1200' and establish an injection rate. Pump Class G cement inside/outside from 1200' - 1050' (estimated minimum of 41 sx). If CBL shows TOC above 1100', pump Class G cement inside from 1200' - 1050' (estimated minimum 18 sx). If cement is lower than 1100' contact BLM for procedure changes.

b. Adjust Plug #3 (Step 14/15) to cover BLM Mancos formation top pick @ 175'. Perforate squeeze holes at 225' and establish injection rate. Pump Class G cement inside/outside from 225' - 5' and circulate good cement out casing and annulus (estimated minimum of 63 sx).

- 4. <u>Notification</u>: 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.

ce c prov 4:30

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)

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GENERAL REQUIREMENTS FOR PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON FIELD OFFICE

1.0 The approved plugging plans may contain variances from the following <u>minimum general</u> 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.

Page 1

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.

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- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S .

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), 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 <u>date</u> 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.

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BLM FLUID MINERALS P&A Geologic Report

AFMSS ID: 2803348

Date Completed: 06/13/2024

Well No.: NE Hogback Unit 5 (API 30-045-09576)		Location:	820	FNL	&	2170	FWL
Lease No.: NMNM 04444		NENW	Sec. 15		T30N	R16W	
Operator: Chuza Oil Company		County:	San Juan		State:	New Mexico	
Total Depth: 1747'	1706' (PBTD)	Formation: Gallup					
Elevation (GL): 5430' Ele			B):				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					
Nacimiento Fm					
Ojo Alamo Ss					
Kirtland Shale					
Fruitland Fm					
Pictured Cliffs Ss					
Lewis Shale					5 S
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss	Surface	175'			Possible gas/water
Mancos Shale	175'	1150'			Oil & gas
Gallup	1150'				Oil & gas
Greenhorn					
Graneros Shale	Î				
Dakota Ss					

Remarks:

P&A

Received by OCD: 8/30/2024 2:08:38 PM

- Marathon Petroleum is plugging this well as previous record title owner of the lease

Reference Wells: Chuza Oil Co Inc. NE Hogback Unit 5 (3004509576) Sec 15, T30N, R16W

- Gallup perfs 1509 - 1559', 1610 - 1651'

Prepared by: Matthew Kade With help from Aleksandr Knapowski Released to Imaging: 9/5/2024 11:15:13 AM

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Received by OCD: 8/30/2024 2:08:38 PM



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

July 31, 2024

Notice of Intent - Plug and Abandonment

Operator:	Chuza Oil Company Marathon Petroleum Company LP (as previous record title owner)
_	
Lease:	NMNM04443
Unit:	NMNM78403A
Well(s):	NE Hogback Unit 5, API # 30-045-09576
Location:	NENW Sec 15 T30N R16W (San Juan County, NM)
Sundry Notice ID#:	2803348

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 (<u>mkade@blm.gov</u>) and Kenneth Rennick (<u>krennick@blm.gov</u>)
- 3. The following modifications to your plugging program are made:

a. Adjust Plug #2 (Step 12/13) to cover BLM Gallup formation top pick @ 1150'. If CBL shows TOC below 1200', perforate squeeze holes at 1200' and establish an injection rate. Pump Class G cement inside/outside from 1200' = 1050' (estimated minimum of 41 sx). If CBL shows TOC above 1100', pump Class G cement inside from 1200' = 1050' (estimated minimum 18 sx). If cement is lower than 1100' contact BLM for procedure changes.

b. Adjust Plug #3 (Step 14/15) to cover BLM Mancos formation top pick @ 175'. Perforate squeeze holes at 225' and establish injection rate. Pump Class G cement inside/outside from 225' - 5' and circulate good cement out casing and annulus (estimated minimum of 63 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 <u>minimum general</u> requirements.

- 1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.
- 1.2 Requirements may be added to address specific well conditions.
- 2.0 Materials used must be accurately measured. (densometer/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

- 4.1 The cement shall be as specified in the approved plugging plan.
- 4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
- 4.3 Surface plugs may be no less than 50' in length.
- 4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.
- 4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.
- 4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously ran or cement did not circulate to surface during the original casing cementing job or subsequent cementing jobs.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H_2S .

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 <u>date</u> 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

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- 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.

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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.
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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)

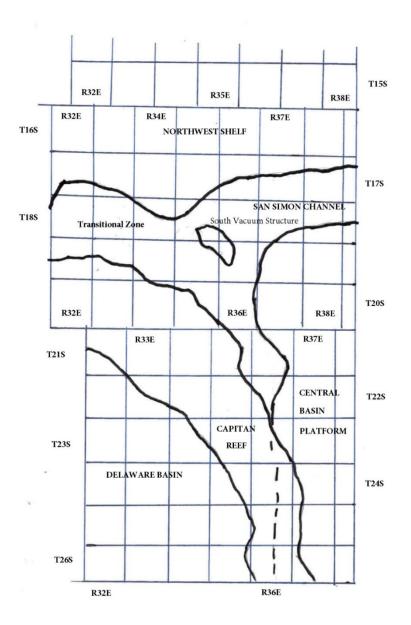


Figure D1 Map

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Figure D2 Formation Table

	100' P'lug to isolate upper and lower fresh water zones (typiailly 2.50' to 350')					
ND!rthwest Shelf	C;iptan Reef Are <a< th=""><th>Trani5ition Zone</th><th>San Simon Oh.annel</th><th>South \lacJUUm Structure</th><th>Delaware Basin</th><th>Ce<n,tiral basin="" platform<="" th=""></n,tiral></th></a<>	Trani5ition Zone	San Simon Oh.annel	South \lacJUUm Structure	Delaware Basin	Ce <n,tiral basin="" platform<="" th=""></n,tiral>
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 Y eso (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
Pad dock (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

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
Western Refining Southwest LLC	267595
539 South Main Street	Action Number:
Findlay, OH 45840	379619
	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.	9/5/2024
loren.diede	Use these elevations: GL = 5430', DF = 5440', KB = 5441'.	9/5/2024
loren.diede	There ia a significant difference in formation top picks between Marathon and BLM. NMOCD believes the Gallup top to be at 1508'. Set CIBP at 1459' and pump Plug 1 as per the procedure from 1459' to 1359'.	9/5/2024
loren.diede	Plug # 2: Cover the SP log deflection (BLM Gallup pick) with perforations at 1200'. Place Plug # 2 from 1200' to 1050'.	9/5/2024
loren.diede	Plug # 3: Use BLM Mancos top pick: Perforate at 225', place cement inside/outside from 225' to surface.	9/5/2024
loren.diede	The P&A marker is to be an above-ground marker.	9/5/2024

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Action 379619