

Santa Fe Main Office

Phone: (505) 476-3441 Fax: (505) 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 87505WELL API NO.
30-025-085495. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Vacuum Abo Unit

8. Well Number 002

9. OGRID Number
33119910. Pool name or Wildcat
[61780] VACUUM; ABO REEF

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 ☐ Gas Well ☒ Other Injection2. Name of Operator
Maverick Permian LLC3. Address of Operator
1000 Main Street Ste 2900 Houston, TX 770024. Well Location
Unit Letter O : 990 feet from the South line and 2195 feet from the East line
Section 26 17S Township 35E Range NMPM County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐Notify OCD 24 hrs. prior to any work
done. gilbert.cordero@emnrd.nm.govOTHER: ☐

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.

Maverick Permian LLC is requesting approval of the attached P&A plan.

Spud Date:

Rig Release Date:

SEE ATTACHED COA's

MUST BE PLUGGED BY 12/4/25

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

SIGNATURE Nicole Lee TITLE Regulatory Lead DATE 11/25/2024Type or print name Nicole Lee E-mail address: nicole.lee@mavresources.com PHONE: 713-437-8097**For State Use Only**APPROVED BY: [Signature] TITLE Staff Manager DATE 12/17/24

Conditions of Approval (if any):



1111 Bagby Street • Suite 1600
Houston • Texas • 77002
713-437-8000

VACUUM ABO UNIT 005-002W
P&A Procedure

1. MIRU WOR & equipment.
2. ND WH. NU BOP's.
3. Release packer and POOH with tubing and packer.
4. Scan tubing out of hole and note condition of tubing and BHA.
5. Set CIBP @ 8,611'. Find "suspected" casing leak - Report to OCD - Test Casing 500psi/30 min - Run CBL from 8,611' to surface.
6. Displace well with gel water.
7. Pressure test CIBP using a 4-1/2" packer to isolate from suspected casing leak.
8. **Abo Plug:**
Spot 25 sx Class H cement plug on CIBP at 8,611'. WOC 4 hrs. Tag and record cement plug top.
9. **Glorieta Plug:**
Spot 25 sx Class C cement plug at 6,291'. WOC 4 hrs. Tag and record cement plug top.
10. **San Andres Plug:**
Spot 25 sx Class C cement plug at 4,597'. WOC 4 hrs. Tag and record cement plug top.
11. **Queen Plug:**
Spot 105 sx Class C cement plug at 3,953'. WOC 4 hrs. Tag and record cement plug top.
12. **Rustler Plug:**
Perforate 4 ½" casing at 1,801'. Squeeze 25 sx Class C cement at 1,801' and leave a cement plug from 1,601' – 1,801'.
WOC 4 hrs. Tag and record cement plug top.
13. **Surface Plug:**
Perforate 4 ½" casing at 425'. Squeeze 55 sx Class C cement at 425'. Circulate cement to surface and top fill.
14. Cut wellhead and install AGL dry hole marker.
15. RDMO WOR & equipment.

State: New Mexico
County: Lea
Field:
Spud Date: 5/12/1962
KB:

MD

Surface Casing:
 13-3/8" 48# H-40
 Cmt w/ 325 sx to Surf

322'

Intermediate Casing:
 8-5/8" 32# H-40
 8-5/8" 24# J-55
 Cmt w/ 300 sx to Surface

3,150'

T. Anhy.....	T. Devonian.....	T.
T. Salt.....	T. Silurian.....	T.
B. Salt.....	T. Montoya.....	T.
T. Yates..... 2997' (+928')	T. Simpson.....	T.
T. 7 Rivers..... 3230' (+635')	T. McKee.....	T.
T. Queen..... 3853' (+72')	T. Ellenburger.....	T.
T. Grayburg.....	T. Gr. Wash.....	T.
T. San Andres..... 4497' (+572')	T. Granite.....	T.
T. Glorieta..... 6191' (-2266')	T. Base Red Beds..... 1701' (+2284')	T.
T. Drinkard.....	T. Paddock..... 6284' (+2359')	T.
T. Tubbs.....	T.	T.
T. Abo..... 8543' (-4618')	T.	T.
T. Penn.....	T.	T.
T. Miss.....	T.	T.

Production Casing:
 4-1/2" 9.5# J-55
 4-1/2" 11.6# J-55
 Cmt w/ 875 sx to 1,453'

8,990'

Maverick Permian LLC
Well: VACUUM ABO UNIT 005-002W
API# 30-025-08549

PROPOSED WBD
11/15/2024

MD

SURFACE PLUG

Perf 4-1/2" casing @ 425'
 Attempt sq. DO NOT exceed 500 psi.
 Squeeze 55 sx Class C cement plug.
 Circ cmt to surface and top fill.

425'

RUSTLER PLUG

Perf 4-1/2" casing @ 1,801'
 Attempt sq. DO NOT exceed 500 psi.
 Squeeze 25 sx Class C cement plug.
 Cement plug from 1,601' - 1,801'

1,601'

1,801'

YATES, 7 RIVERS & QUEEN PLUG

Spot 105 sx of Class C cement @ 3,753'
 WOC 4 hrs. Tag and record plug depth.

2,897'

3,753'

SAN ANDRES PLUG

Spot 25 sx of Class C cement @ 4,597'
 WOC 4 hrs. Tag and record plug depth.

4,397'

4,597'

GLORIETA PLUG

Spot 25 sx of Class C cement @ 6,291'
 WOC 4 hrs. Tag and record plug depth.

6,091'

6,291'

ABO PLUG

Set CIBP @ 8,636'
 Run CBL from TOC to surface
 Spot 25 sx of Class H cement
 WOC 4 hrs. Tag and record plug depth.

8,636'

8,661' Abo Perforations

8,661' - 8,840'

8,930' RBP @ 8,930'

8,956' PBTD

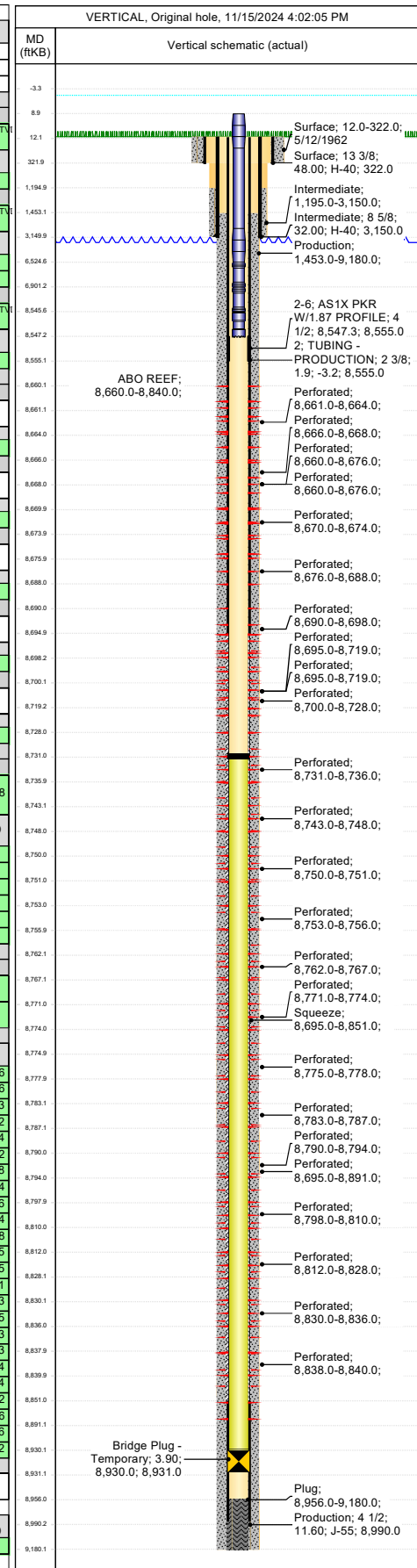


VACUUM ABO UNIT 005-002W

Wellbore Diagram

Well Header				
API #	State	County	District	
3002508549	NEW MEXICO	LEA	PERMIAN CONVENTIONAL	
Division	Business Unit	Region	Area	Total Depth (ftKB)
PERMIAN	MAVERICK PERMIAN	RG_SE_NEW_MEXICO	A_VAU	9,180.0

Wellbore Sections																																			
Section Des		Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)	Start Date		End Date																										
Hole		17 1/2	12.0		322.0		5/12/1962		5/12/1962																										
Hole		11	322.0		3,150.0		5/13/1962		5/15/1962																										
Hole		7 7/8	3,150.0		9,180.0		5/16/1962		6/1/1962																										
Casing Strings																																			
Casing String: Surface 13 3/8" Set Depth: 322.0																																			
Casing Description		Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min	HW Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (ftKB)	Top (TVD) (ftKB)	Set Depth (TVD) (ftKB)																						
Surface		5/12/1962 00:00	13 3/8	13 3/8	12.72	12.715	48.00	H-40	310.00	12.0	322.0																								
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)																							
Casing Joints		0	13 3/8	12.715	48.00	H-40	310.00		12.0	322.0																									
Casing String: Intermediate 8 5/8" Set Depth: 3,150.0																																			
Casing Description		Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min	HW Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (ftKB)	Top (TVD) (ftKB)	Set Depth (TVD) (ftKB)																						
Intermediate		5/16/1962 00:00	8 5/8	8 5/8	4.00	4	32.00	H-40	3,138.00	12.0	3,150.0																								
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)																							
Casing		0	8 5/8		32.00	H-40	3,138.00		12.0	3,150.0																									
Casing		0	8 5/8		24.00	J-55			3,150.0	3,150.0																									
Casing String: Production 4 1/2" Set Depth: 8,990.0																																			
Casing Description		Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min	HW Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (ftKB)	Top (TVD) (ftKB)	Set Depth (TVD) (ftKB)																						
Production		6/1/1962 00:00	4 1/2	4 1/2	4.00	4	11.60	J-55	8,978.00	12.0	8,990.0																								
Item Des		Joints in Tally	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Qty	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)																							
Casing Joints		0	4 1/2	4	11.60	J-55	8,978.00		12.0	8,990.0																									
Cement																																			
Surface																																			
Cementing Start Date				Cementing End Date				String																											
5/12/1962 00:00				5/12/1962 00:00				Surface, 322.0ftKB																											
Stg #		Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)																							
1		5/12/1962		5/12/1962		12.0		322.0																											
Intermediate																																			
Cementing Start Date				Cementing End Date				String																											
5/16/1962 00:00				5/16/1962 00:00				Intermediate, 3,150.0ftKB																											
Stg #		Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)																							
1		5/16/1962		5/16/1962		1,195.0		3,150.0																											
Production																																			
Cementing Start Date				Cementing End Date				String																											
6/1/1962 00:00				6/3/1962 00:00				Production, 8,990.0ftKB																											
Stg #		Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)																							
1		6/1/1962		6/3/1962		1,453.0		9,180.0																											
Plug																																			
Cementing Start Date				Cementing End Date				String																											
6/3/1962 00:00				6/3/1962 00:00				Production, 8,990.0ftKB																											
Stg #		Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)																							
1		6/3/1962		6/3/1962		8,956.0		9,180.0																											
Squeeze																																			
Cementing Start Date				Cementing End Date				String																											
1/5/1969 00:00				1/5/1969 00:00				Production, 8,990.0ftKB																											
Stg #		Pump Start Date		Pump End Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)																							
1		1/5/1969		1/5/1969		8,695.0		8,851.0																											
Tubing Strings																																			
Set Depth: 8,555.0																																			
Run Job		REPAIR, 8/28/2024 10:30		String		Production, 8,990.0ftKB		String Max		2 3/8		4 1/2		1.90		ID Nom Min		1.9		HW Len (lb/ft)		String Grade		Top (ftKB)		-3.2		Set Depth (TVD) (ftKB)		8,558.10		Len (ft)		8,558.10	
Item Des		Len (ft)		OD (in)		ID (in)		Wt (lb/ft)		Grade		Tally Jcs Run		Tally Len (ft)		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)													
KB CORRECTION		12.00										0				-3.2		8.8																	
IPC TBG BLUE BAND		6,515.91		2 3/8		1.90						0				8.8		6,524.7																	
IPC TBG YELLOW BAND		376.47		2 3/8		1.90						0				6,524.7		6,901.2																	
IPC TK-99 TBG (NEW)		1,644.48		2 3/8		1.90						0				6,901.2		8,545.7																	
ON/OFF TOOL		1.62		2 3/8		1.90						0				8,545.7		8,547.3																	
AS1X PKR W/1.87 PROFILE		7.70		4 1/2								0				8,547.3		8,555.0																	
Rod Strings																																			
Set Depth: <Set Depth?>																																			
Rod Description		Set Depth		Run Date		Run Job		OD (in)		Wt (lb/ft)		String Grade		Top (ftKB)		Set Depth		Set Depth		String Components															
Length (ft)		OD Nominal (in)		Quantity		ID (in)		Weight/Length (lb/ft)		Grade		Top Depth (ftKB)		Bottom Depth (ftKB)																					
Perforations																																			
Date		Top (ftKB)		Btm (ftKB)		Top (TVD) (ftKB)		Btm (TVD) (ftKB)		Shot Dens (shots/ft)		Calculated Shot Total		Btm - Top (ft)																					
1/8/1969 00:00		8660		8676								1		16																					
11/17/1969 00:00		8660		8676								1		16																					
3/7/1985 00:00		8661		8664						1.0		4		3																					
3/7/1985 00:00		8666		8668						1.0		3		2																					
3/7/1985 00:00		8670		8674						1.0		5		4																					
3/7/1985 00:00		8676		8688						1.0		13		12																					
3/7/1985 00:00		8690		8698						1.0		9		8																					
11/17/1969 00:00		8695		8719								31		24																					
6/15/1962 00:00		8695		8891								1		196																					
1/8/1969 00:00		8695		8719								92		24																					
3/7/1985 00:00		8700		8728						1.0		29		28																					
3/7/1985 00:00		8731		8736						1.0		6		5																					
3/7/1985 00:00		8743		8748						1.0		6		5																					
3/7/1985 00:00		8750		8751						1.0		2		1																					
3/7/1985 00:00		8753		8756						1.0		4		3																					
3/7/1985 00:00		8762		8767						1.0		6		5																					
3/7/1985 00:00		8771		8774						1.0		4		3																					
3/7/1985 00:00		8775		8778						1.0		4		3																					
3/7/1985 00:00		8783		8787						1.0		5		4																					
3/7/1985 00:00		8790		8794						1.0		5		4																					
3/7/1985 00:00		8798		8810						1.0		13		12																					
3/7/1985 00:00		8812		8828						1.0		17		16																					
3/7/1985 00:00		8830		8836						1.0		7		6																					
3/7/1985 00:00		8838		8840						1.0		3		2																					
Deviation Surveys																																			
Date				Description				Job																											
Survey Data																																			
MD (ftKB)		Incl (°)		Azm (°)		Method		TVD (ftKB)		VS (ft)		Depart (ft)		NS (ft)		EW (ft)		DLS (°/100ft)		Build (°/100ft)		Turn (°/100ft)		Unwrap Displace (ft)											
to Imagine: 12/17/2024 1:45:54 PM																																			



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 D1 and D2

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

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

Figure D1 Map

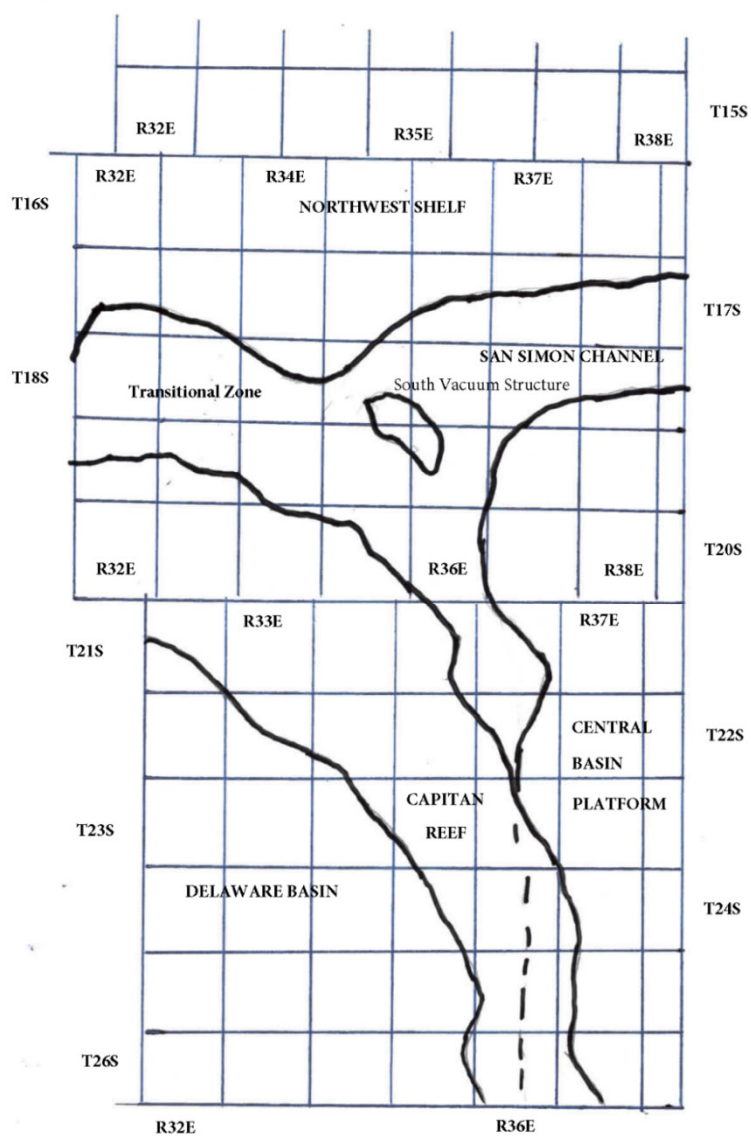


Figure D2 Formation Table

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

EXHIBIT "A"
CASE 9316
ORDER R-111-P

CONSOLIDATED LAND **DESCRIPTION** OF THE KNOWN POTASH
LEASING AREA, AS OF FEBRUARY 3, 1988

EDDY COUNTY, NEW MEXICO

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM

Section 10: SE/4 SE/4
 Section 11: S/2 SW/4
 Section 13: W/2 SW/4 and SE/4 SW/4
 Section 14: W/2 NE/4, NW/4 and S/2
 Section 15: E/2 NE/4, SE/4 SW/4 and SE/4
 Section 22: N/2, N/2 SW/4, SE/4 SW/4 and SE/4
 Section 23: All
 Section 24: N/2 NW/4, SW/4 NW/4 and NW/4 SW/4
 Section 26: NE/4, N/2 NW/4 and SE/4 NW/4
 Section 27: N/2 NE/4 and NE/4 NW/4

TOWNSHIP 19 SOUTH, RANGE 29 EAST, NMPM

Section 11: SE/4 SE/4
 Section 12: SE/4 NE/4 and S/2
 Section 13: All
 Section 14: NE/4, SE/4 NW/4 and S/2
 Section 15: SE/4 SE/4
 Section 22: NE/4, E/2 W/2 and SE/4
 Section 23: All
 Section 24: All
 Section 25: NW/4 NW/4
 Section 26: N/2 NE/4 AND NW/4
 Section 27: NE/4 AND E/2 NW/4

TOWNSHIP 19 SOUTH, RANGE 30 EAST, NMPM

Section 2: SW/4
 Section 3: W/2 SW/4, SE/4 SW/4, S/2 SE/4 and
 NE/4 SE/4
 Section 4: Lots 3 and 4. SW/4 NE/4, S/2 NW/4
 and S/2
 Section 5: Lots 1, 2. and 3, S/2 NE/4,
 S/2 NW/4 and S/2
 Section 6: S/2 SE/4 and NE/4 SE/4
Sections 7 to 10 inclusive
 Section 11: S/2 NE/4, NW/4 NW/4 and S/2
 Section 12: NE/4, S/2 NW/4 and S/2
 Section 13: NE/4, W/2, N/2 SE/4 and SW/4 SE/4
 Sections 14 to 18 inclusive
 Section 19: Lots 1, 2, and 3, NE/4, E/2 NW/4,
 NE/4 SW/4, E/2 SE/4 and
 NW/4 SE/4
 Sections 20 to 23 inclusive

Section 24: NW/4. NW/4 SW/4 and S/2 SW/4

Section 25: NW/4 NW/4
 Section 26: NE/4 NE/4, W/2 NE/4, W/2, W/2 SE/4
 and SE/4 SE/4
 Section 27: All
 Section 28: All
 Section 29: E/2, E/2 NW/4 and NW/4 NW/4
 Section 32: E/2 and SE/4 SW/4
 Section 33 to 35 inclusive
 Section 36: NW/4 NW/4, S/2 NW/4 and S/2

TOWNSHIP 19 SOUTH, RANGE 31 EAST, NMPM

Section 7: Lots 1, 2, and 3 and E/2 NW/4
 Section 18: Lots 1, 2, and 3 and SW/4 NE/4,
 E/2 NW/4 and NE/4 SW/4
 Section 31: Lot 4
 Section 34: SE/4 SE/4
 Section 35: S/2 SW/4 and SW/4 SE/4
 Section 36: S/2 SE/4

LEA COUNTY, NEW MEXICO

TOWNSHIP 19 SOUTH, RANGE 32 EAST, NMPM

Section 31: Lot 4
 Section 33: Lots 1 to 4 inclusive and N/2 S/2
 Section 34: Lots 1 to 4 inclusive and N/2 S/2
 Section 35: Lots 1 to 4 inclusive and N/2 S/2
 Section 36: Lots 1 to 4 inclusive, SE/4 NE/4,
 NW/4 SW/4 and NE/4 SE/4

TOWNSHIP 19 SOUTH, RANGE 33 EAST, NMPM

Section 22: SE/4 NE/4, E/2 SW/4 and SE/4
 Section 23: S/2 NW/4, SW/4, W/2 SE/4 and
 SE/4 SE/4
 Section 25: SW/4 NW/4, W/2 SW/4 and SE/4 SW/4
 Section 26: All
 Section 27: All
 Section 28: S/2 SE/4 and NE/4 SE/4
 Section 30: Lots 2 to 4 inclusive, S/2 NE/4,
 SE/4 NW/4, E/2 SW/4 and SE/4
 Section 31: All
 Section 32: NE/4, S/2 NW/4 and S/2
 Sections 33 to 35 inclusive
 Section 36: W/2 NE/4, SE/4 NE/4, NW/4 and S/2

TOWNSHIP 19 SOUTH, RANGE 34 EAST, NMPM

Section 31: Lots 3 and 4

EDDY COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM

Section 1: SE/4 NE/4 and E/2 SE/4
 Section 13: SW/4 NW/4, W/2 SW/4 AND SE/4 SW/4
 Section 14: NW/4 NE/4, S/2 NE/4, NW/4 and S/2
 Section 15: E/2 E/2, SE/4 SW/4 and W/2 SE/4
 Section 22: E/2 and E/2 NW/4
 Section 23: All
 Section 24: SW/4 NE/4, W/2, W/2 SE/4
 and SE/4 SE/4
 Section 25: N/2, SW/4, W/2 SE/4 and NE/4 SE/4
 Section 26: All
 Section 27: E/2
 Section 34: NE/4
 Section 35: N/2
 Section 36: W/2 NE/4 AND NW/4

TOWNSHIP 20 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 4 inclusive
 Section 5: Lots 1 to 3 inclusive, S/2 N/2
 and S/2
 Section 6 Lots 5, 6, and 7, S/2 NE/4, E/2 SW/4
 and SE/4
 Section 7 Lots 1 and 2. E/2 and E/2 NW/4
 Sections 8 to 17 inclusive
 Section 18 E/2
 Section 19 E/2 and SE/4 SW/4
 Sections 20 to 29 inclusive
 Section 30: Lots 1 to 3 inclusive, E/2 and
 E/2 W/2
 Section 31 E/4 and E/2 SE/4
 Sections 32 to 35 inclusive

TOWNSHIP 20 SOUTH, RANGE 31 EAST, NMPM

Section 1 Lots 1 to 3 inclusive, S/2 N/2
 and S/2
 Section 2: All
 Section 3: Lots 1 and 2, S/2 NE/4 and SE/4
 Section 6: Lots 4 to 7 inclusive, SE/4 NW/4,
 E/2 SW/4, W/2 SE/4 and
 SE/4 SE/4
 Section 7: All
 Section 8: S/2 N/2 and S/2
 Section 9: S/2 NW/4, SW/4, W/2 SE/4 and SE/4 SE/4
 Section 10: E/2 and SW/4
 Section 11 to 36 inclusive

LEA COUNTY, NEW MEXICO

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM

Sections 1 to 4 inclusive

Section 5: S/2 SE/4

Section 6: Lots 4 to 7 inclusive, SE/4 NW/4,
E/2 SW/4 and SW/4 SE/4

Sections 7 to 36 inclusive

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM

Sections 1 to 36 inclusive

TOWNSHIP 20 SOUTH, RANGE 34 EAST, NMPMSection 6: Lots 3 to 7 inclusive, SE/4 NE/4,
E/2SW/4, W/2 SE/4 AND
SE/4 SE/4

Section 7: All

Section 8: SW/4, S/2 NW/4, W/2 SE/4 and
SE/4 SE/4Section 16: W/2 NW/4, SE/4 NW/4, SW/4 and
S/2 SE/4

Sections 17 to 21 inclusive

Section 22: N/2 NW/4, SW/4 NW/4, W/2 SE/4,
and SE/4 SE/4

Section 26: SW/4, W/2 SE/4 and SE/4 SE/4

Sections 27 to 35 inclusive

Section 36: SW/4 NW/4 and W/2 SW/4

EDDY COUNTY, NEW MEXICO

TOWNSHIP 21 SOUTH, RANGE 29 EAST, NMPM

Sections 1 to 3 inclusive

Section 4: Lots 1 through 16, NE/4 SW/4 and
SE/4

Section 5: Lot 1

Section 10: N/2 NE/4, SE/4 NE/4 and SE/4 SE/4

Sections 11 to 14 inclusive

Section 15: E/2 NE/4 and NE/4 SE/4

Section 23: N/2 NE/4

Section 24: E/2, N/2NW/4 and SE/4NW/4

Section 25: NE/4 NE/4 and S/2 SE/4

Section 35: Lots 2 to 4 inclusive, S/2 NE/4,
NE/4 SW/4 and N/2 SE/4Section 36: Lots 1 to 4 inclusive, NE/4,
E/2 NW/4 AND N/2 S/2**TOWNSHIP 21 SOUTH, RANGE 30 EAST, NMPM**

Sections 1 to 36 inclusive

TOWNSHIP 21 SOUTH, RANGE 31 EAST, NMPM
Sections 1 to 36 inclusive**LEA COUNTY, NEW MEXICO****TOWNSHIP 21 SOUTH, RANGE 32 EAST, NMPM**

Sections 1 to 27 inclusive

Section 28: N/2 and N/2 S/2

Sections 29 to 31 inclusive

Section 32: NW/4 NE/4, NW/4 and NW/4 SW/4

Section 34: N/2 NE/4

Section 35: N/2 N/2

Section 36: E/2, N/2 NW/4, SE/4 NW/4 and
NE/4 SW/4**TOWNSHIP 21 SOUTH, RANGE 33 EAST, NMPM**Section 1: Lots 2 to 7 inclusive, Lots 10
to 14 inclusive, N/2 SW/4 and
SW/4 SW/4

Sections 2 to 11 inclusive

Section 12: NW/4 NW/4 and SW/4 SW/4

Section 13: N/2 NW/4, S/2 N/2 and S/2

Sections 14 to 24 inclusive

Section 25: N/2. SW/4 and W/2 SE/4

Sections 26 to 30 inclusive

Section 31: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4

Section 32: N/2 and NW/4 SW/4

Section 33: N/2

Section 34: NE/4, N/2 NW/4 and E/2 SE/4

Section 35: All

Section 36: W/2 NE/4, NW/4 and S/2

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM**Section 17:** W/2**Section 18:** AllSection 19: Lots 1 to 4 inclusive, NE/4,
E/2 W/2, N/2 SE/4 and
SW/4 SE/4**Section 20:** NW/4 NW/4

Section 30: Lots 1 and 2 and NE/4 NW/4

Section 31: Lots 3 and 4

EDDY COUNTY, NEW MEXICO**TOWNSHIP 22 SOUTH, RANGE 28 EAST, NMPM**

Section 36: E/2 E/2

TOWNSHIP 22 SOUTH, RANGE 29 EAST, NMPM

Sections 1 and 2 inclusive

Section 3 SE/4 SW/4 and SE/4

Section 9 S/2 NE/4 and S/2

Sections 10 to 16 inclusive

Section 17 S/2 SE/4

Section 19 SE/4 NE/4 and E/2 SE/4

Sections 20 to 28 inclusive

Section 29 N/2 N/2, S/2 NE/4 and SE/4

Section 30 NE/4 NE/4

Section 31 Lots 1 to 4 inclusive, S/2 NE/4,
E/2 W/2 and SE/4

Sections 32 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 36 inclusive

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM

Sections 1 to 11 inclusive

Section 12: NW/4 NE/4, NW/4 and NW/4 SW/4

Section 13: S/2 NW/4 and SW/4

Sections 14 through 23 inclusive

Section 24: W/2

Section 25: NW/4

Section 26: NE/4 AND N/2 NW/4

Sections 27 to 34 inclusive

LEA COUNTY, NEW MEXICO**TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM**

Section 1: Lot 1

Section 6: Lots 2 to 7 inclusive and SE/4 NW/4

TOWNSHIP 22 SOUTH, RANGE 33 EAST NMPMSection 1: Lots 1 to 4 inclusive, S/2 N/2 and
N/2 S/2

Section 2: All

Section 3: Lot 1, SE/4 NE/4 and SE/4

Section 6: Lot 4

Section 10: NE/4

Section 11: NW/4 NE/4 AND NW/4

TOWNSHIP 22 SOUTH, RANGE 34 EAST NMPM

Section 6: Lots 4 to 6 inclusive

EDDY COUNTY, NEW MEXICO

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM

Section 1: Lot 1

TOWNSHIP 23 SOUTH, RANGE 29 EAST, NMPM

Sections 1 to 5 inclusive

Section 6: Lots 1 to 6 inclusive, S/2 NE/4,
SE/4 NW/4, E/2 SW/4 and SE/4

Section 7: NE/4 and NE/4 NW/4

Section 8: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Sections 9 to 16 inclusive

Section 17: NE/4 and E/2 SE/4

Sections 21 to 23 inclusive

Section 24: N/2, SW/4 and N/2 SE/4

Section 25: W/2 NW/4 and NW/4 SW/4

Section 26: All

Section 27: All

Section 28: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Section 33: N/2 NE/4 and NE/4 NW/4

Section 34: NE/4, E/2 NW/4, NW/4 NW/4,
NE/4 SW/4 and SE/4

Section 35: All

Section 36: W/2 NE/4, NW/4 and N/2 SW/4

TOWNSHIP 23 SOUTH, RANGE 30 EAST, NMPM

Sections 1 to 18 inclusive

Section 19: N/2, N/2 SW/4, SE/4 SW/4 and SE/4

Section 20: All

Section 21: All

Section 22: N/2, S/2 SW/4, N/2 S/2 and SE/4 SE/4

Sections 23 to 25 inclusive

Section 26: E/2, SE/4 NW/4 and SW/4

Section 27: N/2 NW/4, SW/4 NW/4, SE/4 SW/4,
S/2 SE/4 and NE/4 SE/4

Section 28: N/2 and SW/4 Section 29 N/2 and SE/4

Section 30: N/2 NE/4

Section 32: N/2 NE/4

Section 33: SE/4 NE/4, N/2 NW/4, NE/4 SE/4
and S/2 SE/4

Sections 34 to 36 inclusive

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM**Section 2:** Lot 4, SW/4 NW/4 and W/2 SE/4

Sections 3 to 7 inclusive

Section 8: NE/4 NE/4, W/2 NE/4 and W/2

Section 9: N/2 N/2

Section 10: NW/4 NW/4 and SE/4 SE/4

Section 11: S/2 NE/4, S/2 SW/4 and SE/4

Section 12: SW/4 NW/4 and SW/4
Section 13: SW/4 **NE/4**, W/2 and W/2 SE/4
Section 14: All
Section 15: E/2, SE/4 NW/4 and **SW/4**
Section 16: SW/4 and S/2 SE/4
Section 17: NW/4 and S/2
Sections 18 to 23 inclusive
Section 24: W/2 NE/4 and W/2
Section 25: W/2 NE/4, NW/4, N/2 SW/4 and
NW/4 SE/4
Section 26 to 34 inclusive
Section 35: N/2 NW/4 and SW/4 NW/4

TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM

Section 2: Lots 2 to 4 inclusive
Section 3: Lot 1

TOWNSHIP 24 SOUTH, RANGE 30 EAST, NMPM

Section 1: Lots 1 to 4 inclusive, S/2 N/2,
SW/4 and NW/4 SE/4
Section 2: All
Section 3: All
Section 4: Lots 1 and 2, S/2 NE/4, SE/4 NW/4,
SW/4 SW/4, E/2 SW/4 and SE/4
Section 9: N/2, N/2 SW/4, SE/4 SW/4 and SE/4
Section 10: All
Section 11: All
Section 12: W/2 NW/4 and NW/4 SW/4
Section 14: W/2 NE/4 and **NW/4**
Section 15: NE/4 and N/2 NW/4

TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM

Section 3: Lots 2 to 4 inclusive, SW/4 NE/4,
S/2 NW/4, SW/4 and W/2 SE/4
Section 4: All
Section 5: Lots 1 to 4 inclusive, S/2 N/2,
N/2 S/2 and SE/4 SE/4
Section 6: Lots 1 to 6 inclusive, S/2 NE/4,
SE/4 NW/4, NE/4 SW/4 and
N/2 SE/4
Section 9: E/2 and NW/4
Section 10: W/2 NE/4 and W/2
Section 35: Lots 1 to 4 inclusive, S/2 N/2 and
N/2 S/2
Section 36: Lots 1 and 2, SW/4 NW/4 and N/2 SW/4

TOWNSHIP 25 SOUTH, RANGE 31 EAST, NMPM

Section 1: Lots 3 and 4 and S/2 NW/4
Section 2: Lots 1 to 4 inclusive and S/2 N/2

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 406154

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 406154
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
gcordero	A Cement Bond Log (CBL) is required to be submitted to electronic permitting.	12/17/2024
gcordero	Submit Cement Bond Logs (CBL) prior to submittal of C-103P.	12/17/2024