Santa Fe Main Office
Phone: (505) 476-3441 Fax: (55) 476-3462
General Information
Phone: (505) 629-6116

Online Phone Directory Visit:
https://www.emnrd.nm.gov/ocd/contact-us/

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-35931

5. Indicate Type of Lease STATE ☑ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: Gach 31 State

1. Type of Well: Oil Well ☐ Gas Well ☑ Other

8. Well Number 002

2. Name of Operator: Maverick Permian

9. OGRID Number: 331199

3. Address of Operator: 1000 Main Street Ste 2900 Houston, TX 77002

10. Pool name or Wildcat

4. Well Location
Unit Letter K : 1980 feet from the South line and 1500 feet from the West line
Section 31 Township 17S Range 34E 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:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☑	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			OTHER:			☐

Notify OCD 24 hrs. prior to any work done. gilbert.cordero@emnrd.nm.gov

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 11/25/2024

Type or print name Nicole Lee E-mail address: nicole.lee@mavresources.com PHONE: 713-437-8097

For State Use Only

APPROVED BY: TITLE Staff Manager DATE 12/17/24

Conditions of Approval (if any):

MAVERICK NATURAL RESOURCES

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

GACH 31 STATE 02
P&A Procedure

1. MIRU WOR & equipment. Test anchors if haven't been tested in the last two years.
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 @ 13,106'. Test Casing 500psi/30min - Bubble Test - Run CBL from 13,106' to surface.
   Any cement plug above TOC will require perf and sqz.- See CBL
6. Displace well with gel water.
7. **Atoka & Strawn Plug:**
   Spot 83 sx Class H cement plug on CIBP at 13,106'. WOC 4 hrs. Tag 12270' or higher
8. **Wolfcamp Plug:**
   Spot 25 sx Class H cement plug at 9,942'. WOC 4 hrs. Tag and record cement plug top.
9. **Abo & Tubb Plug:**
   Perforate 5 ½" casing at 8,335'. Squeeze 115 sx Class H cement at 8,335' and leave a cement plug from 7,608' – 8,335'. WOC 4 hrs. Tag 7608' or higher
10. perf & sqz 6420' - WOC & Tag 6320' or higher
11. **San Andres & Grayburg Plug:**
    Perforate 5 ½" casing at 4,720'. Squeeze 85 sx Class C cement at 4,720' and leave a cement plug from 4,180' – 4,720'. WOC 4 hrs. Tag 4180' or higher
12. **Queen, 7 Rivers & Yates Plug:**
    Perforate 5 ½" casing at 3,978'. Squeeze 185 sx Class C cement at 3,978' and leave a cement plug from 2,782' – 3,978'. WOC 4 hrs. Tag 2782' or higher
13. **T.Salt Plug:**
    Perforate 5 ½" casing at 1,600'. Squeeze 30 sx Class C cement at 1,600' and leave a cement plug from 1,400' – 1,600'. WOC 4 hrs. Tag 1400' or higher
14. **Surface Plug:**
    Perforate 5 ½" casing at 500'. Squeeze 65 sx Class C cement at 500'. Circulate cement to surface and top fill. WOC & Bubble Test
15. Cut wellhead and install AGL dry hole marker.
16. RDMO WOR & equipment.

State: New Mexico
County: Lea
Spud Date: 6/29/2002
KB:

Maverick Permian LLC
GACH 31 STATE 02
API# 30-025-35931

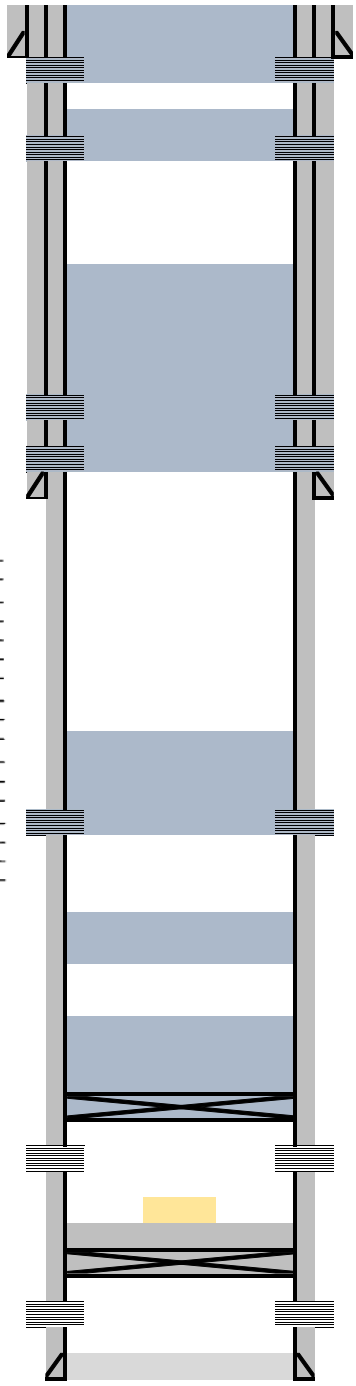
PROPOSED WBD
11/25/2024

Surface Casing:
13-3/8" 48# J-55
Cmt w/ 250 sx to Surf

Intermediate Casing:
9-5/8" 40# J-55 & N-80
Cmt w/ 1550 sx to Surf

Production Casing:
5-1/2" 17# P-110/N-80
Cmt w/ 1050 sx to 9,500'

	MD
T. Anhy	
T. Salt	
B. Salt	
T. Yates	2882'
T. 7 Rivers	3395'
T. Queen	3878'
T. Grayburg	4280'
T. San Andres	4620'
T. Glorieta	6366'
T. Paddock	6442'
T. Blinebry	
T. Tubb	7708'
T. Drinkard	
T. Abo	8235'
T. Wolfcamp	9842'
T. Penn	
T. Cisco (Bough C)	
T. Canyon	
T. Strawn	12,316'
T. Atoka	12,605'
T. Miss	13,496'
T. Devonian	
T. Silurian	
T. Montoya	
T. Simpson	
T. McKee	
T. Ellenburger	
T. Gr. Wash	
T. Delaware Sand	
T. Bone Springs	
T.	
T.	
T.	
T.	



MD	
446'	
4,802'	
13,588'	

MD	
	SURFACE PLUG
	Perf 5-1/2" casing @ 500'
500'	Attempt sq. DO NOT exceed 500 psi.
	Squeeze 65 sx Class C cement plug.
1,400'	Circ cmt to surface and top fill.
1,600'	
	T.SALT PLUG
	Perf 5-1/2" casing @ 1,600'
	Attempt sq. DO NOT exceed 500 psi.
	Squeeze 30 sx Class C cement plug.
2,782'	Cement plug from 1,400' - 1,600'
	WOC 4 hrs. Tag and record plug depth.
	QUEEN, 7 RIVERS & YATES PLUG
3,978'	Perf 5-1/2" casing @ 3,978'
	Attempt sq. DO NOT exceed 500 psi.
4,180'	Squeeze 185 sx of Class C cement @ 3,978'
4,720'	Cement plug from 2,782' - 3,978'
	WOC 4 hrs. Tag and record plug depth.
	SAN ANDRES & GRAYBURG PLUG
	Perf 5-1/2" casing @ 4,720'
	Attempt sq. DO NOT exceed 500 psi.
	Squeeze 85 sx of Class C cement @ 4,720'
	Cement plug from 4,180' - 4,720'
	WOC 4 hrs. Tag and record plug depth.
	ABO & TUBB PLUG
7,608'	Perf 5-1/2" casing @ 8,335'
	Attempt sq. DO NOT exceed 500 psi.
	Squeeze 115 sx of Class C cement @ 8,335'
8,335'	Cement plug from 7,608' - 8,335'
	WOC 4 hrs. Tag and record plug depth.
	WOLFCAMP PLUG
9,742'	Spot 25 sx of Class C cement @ 9,942'
9,942'	WOC 4 hrs. Tag and record plug depth.
	ATOKA & STRAWN PLUG
12,216'	Set CIBP @ 13,106'
	Run CBL from TOC to surface
	Spot 75 sx of Class H cement
13,106'	WOC 4 hrs. Tag and record plug depth.
13,156'	**Atoka Perforations**
	13,156' - 13,170'
13,188'	Top of Fish (firing assembly)
13,250'	TOC @ 13,250'
13,270'	CIBP @ 13,270'
13,284'	**Atoka Perforations**
	13,284' - 13,348'
13,517'	**PBTD**

MAVERICK NATURAL RESOURCES

GACH 31 STATE 02

Wellbore Diagram

Well Header				
API #	State	County	District	
3002535931	NEW MEXICO	LEA	PERMIAN CONVENTIONAL	
Division	Business Unit	Region	Area	Total Depth (ftKB)
PERMIAN	MAVERICK PERMIAN	RG_SE_NEW_MEXICO	A_GEMSTONE_CAPROCK	13,600.0

Wellbore Sections

Section Des	Size (in)	Act Top (ftKB)	Act Top (TVD) (ftKB)	Act Btm (ftKB)	Act Btm (TVD) (ftKB)	Start Date	End Date
SURFAC	17 1/2	23.0		447.0		6/29/2002	7/1/2002
INTRM1	12 1/4	447.0		4,825.0		7/2/2002	7/11/2002
PROD1	8 3/4	4,825.0		13,164.0		7/13/2002	8/9/2002
PROD2	7 7/8	13,164.0		13,600.0		8/10/2002	8/13/2002

Casing Strings

Casing String: Surface Casing 13 3/8" Set Depth: 446.0

Casing Description	Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min (in)	Wt/Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (TVD)
Surface Casing	7/1/2002 01:00	13 3/8	13 3/8	12.72	12.715	48.00	J-55	422.97	23.0	

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	9	13 3/8	12.715	48.00	J-55	377.22	9	23.0	400.2		
Baffle Plate	1	13 3/8				0.00	1	400.2	400.2		
Casing Joints	1	13 3/8	12.715	48.00	J-55	45.05	1	400.2	445.3		
Texas Pattern Guide Shoe	1	13 3/8				0.70	1	445.3	446.0		

Casing String: Intermediate Casing 9 5/8" Set Depth: 4,801.5

Casing Description	Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min (in)	Wt/Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (TVD)
Intermediate Casing	7/12/2002 01:00	9 5/8	9 5/8	8.83	8.835	40.00	J-55	4,778.48	23.0	

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	90	9 5/8	8.835	40.00	J-55	3,982.90	90	23.0	4,005.9		
Casing Joints	16	9 5/8	8.835	40.00	N-80	745.92	16	4,005.9	4,751.8		
Float Collar	1	9 5/8				1.20	1	4,751.8	4,753.0		
Casing Joints	1	9 5/8	8.835	40.00	N-80	47.36	1	4,753.0	4,800.4		
Float Shoe	1	9 5/8				1.10	1	4,800.4	4,801.5		

Casing String: Production Casing 5 1/2" Set Depth: 13,588.0

Casing Description	Run Date	OD (in)	OD Nom Max	ID (in)	ID Nom Min (in)	Wt/Len (lb/ft)	String Grade	Length (ft)	Top (ftKB)	Set Depth (TVD)
Production Casing	8/16/2002 01:00	5 1/2	5 1/2	4.89	4.892	17.00	P-110	13,564.93	23.1	

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	5	5 1/2	4.892	17.00	P-110	210.05	5	23.1	233.1		
Casing Joints	142	5 1/2	4.892	17.00	N-80	6,458.16	142	233.1	6,691.3		
Casing Joints	147	5 1/2	4.892	17.00	P-110	6,848.72	147	6,691.3	13,540.0		
Float Collar	1	5 1/2				1.20	1	13,540.0	13,541.2		
Casing Joints	1	5 1/2	4.892	17.00	P-110	45.00	1	13,541.2	13,586.2		
Float Shoe	1	5 1/2				1.80	1	13,586.2	13,588.0		

Cement

Surface Casing Cement

Cementing Start Date	Cementing End Date	String
7/2/2002 02:00	7/2/2002 00:00	Surface Casing, 446.0ftKB

Stg #	Pump Start Date	Pump End Date	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
1	7/2/2002	7/2/2002	23.0	446.0		

Intermediate Casing Cement

Cementing Start Date	Cementing End Date	String
7/12/2002 02:00	7/12/2002 00:00	Intermediate Casing, 4,801.5ftKB

Stg #	Pump Start Date	Pump End Date	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
1	7/12/2002	7/12/2002	23.0	4,801.5		

Production Casing Cement

Cementing Start Date	Cementing End Date	String
8/16/2002 00:00	8/16/2002 00:00	Production Casing, 13,588.0ftKB

Stg #	Pump Start Date	Pump End Date	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
1	8/16/2002	8/16/2002	9,500.0	13,588.0		

Cement Plug

Cementing Start Date	Cementing End Date	String
9/7/2002 00:00	9/7/2002 00:00	Production Casing, 13,588.0ftKB

Stg #	Pump Start Date	Pump End Date	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
	9/7/2002	9/7/2002	13,250.0	13,270.0		

Tubing Strings

Set Depth: 13,059.0

Run Job	String	String Max N	OD Nom Max	ID (in)	ID Nom Min	Wt (lb/ft)	String Grade	Top (ftKB)	Set Depth (T	Len (ft)
OPTIMIZATION, 12/27/2012 00:00		2 7/8	4.85	2.26	2.259	8.60	N-80	22.9		13,036.12

Item Des	Len (ft)	OD (in)	ID (in)	Wt (lb/ft)	Grade	Tally Jts Run	Tally Len (ft)	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)
Tubing	13,029.45	2 7/8	2.26	8.60	N-80	0		22.9	13,052.3		
2.313" "X" Profile ON/OFF	2.18	2 3/8	2.31			0		13,052.3	13,054.5		
PLS 10K Packer	4.05	4.85				0		13,054.5	13,058.6		
RE-ENTRY GUIDE	0.44	3.67	2.80			0		13,058.6	13,059.0		

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

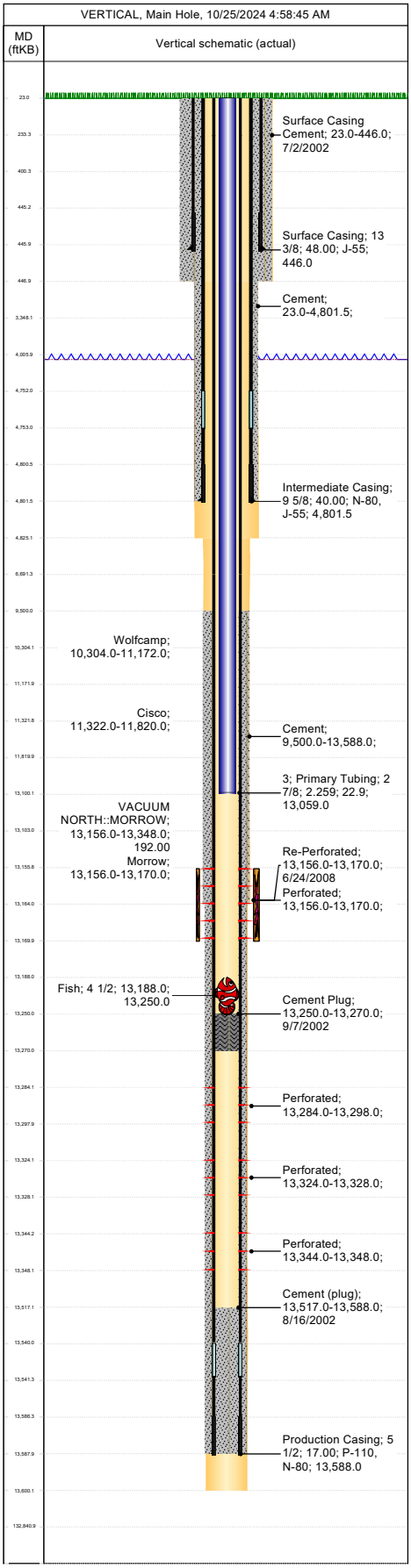
Date	Top (ftKB)	Btm (ftKB)	Top (TVD) (ftKB)	Btm (TVD) (ftKB)	Shot Dens (shots/ft)	Calculated Shot Total	Btm - Top (ft)
9/10/2002 00:00	13156	13170			6.0	85	14
6/24/2008 00:00	13156	13170			4.0	57	14
8/29/2002 00:00	13284	13298			6.0	85	14
8/29/2002 00:00	13324	13328			6.0	25	4
8/29/2002 00:00	13344	13348			6.0	25	4

Deviation Surveys

Date	Description	Job
	Main Hole	

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)



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

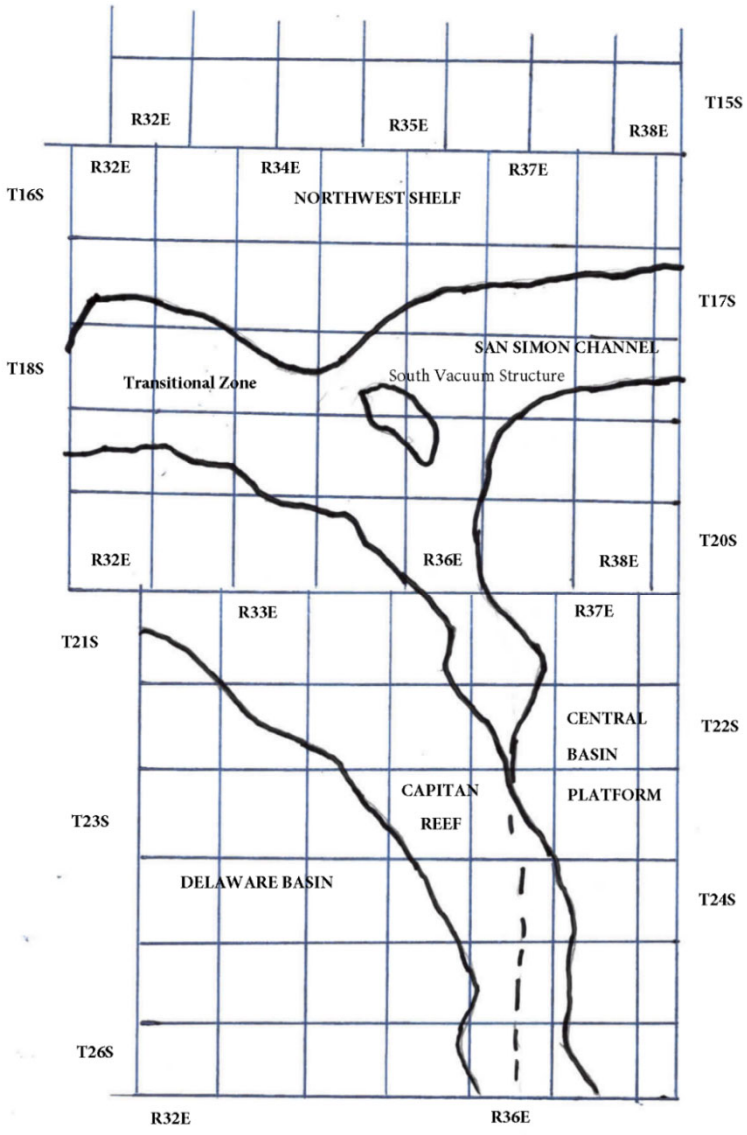


Figure D2 Formation Table

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		Blinebry	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					Blinebry
Drinkard or Lower Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinebry (Township 15 South to Township 17 South)						San Andres
Paddock (Township 15 South to Township 17 South)						Grayburg
Glorieta						Grayburg-San Andres
San Andres						Queen
Queen (Township 15 South to Township 17 South)						Seven Rivers
Seven Rivers (Township 15 South to Township 17 South)						Yates
Yates (Township 15 South to Township 17 South)						Base of Salt
Base of Salt						Rustler
Rustler						

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
Sec**tion** 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
Sect ion 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

EXHIBIT "A" con'd

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
Section15: 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 to3 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**

EXHIBIT "A" **con'd**

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,** NMPM
Section 6: Lots 3 to 7 **inclusive**, SE/4 NEW/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/4
Section 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/4
Section 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: All
Section 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 NMPM
Section 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 Sect ion 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
Sect**ion** 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 1**4**: W/2 NE/4 and **NW/4**
Section 15: NE/4 and N/2 NW/4

TOWNSHIP 24 SOUTH, **RANGE 31 EAST,** NMPM
Sect**ion** 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/ocd/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 406462

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 406462
	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