

Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**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 0155254A

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well

☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator  
Shell Oil Company (Western Division)

3a. Address  
P.O. Box 576, Houston, TX 77210

3b. Phone No. (include area code)  
(832)-337-2434

7. If Unit of CA/Agreement, Name and/or No.  
Cato San Andres Unit

8. Well Name and No.  
Cato San Andres Unit # 176

9. API Well No.  
30-005-20197

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
J 33 08S 30E 1980 FSL 1980 FEL

10. Field and Pool or Exploratory Area  
Cato; San Andres

11. Country or Parish, State  
USA, Chaves County, New Mexico

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

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

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

Please refer to the enclosed plugging and abandonment program and well bore diagram for review.

**See Conditions of Approval**

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

Title Attorney-in-Fact

Signature

*Philip D. Ladner*

Date

*5/31/2023*

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Petroleum Engineer

06/14/2023

Title

Date

RFO

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

## SPECIFIC INSTRUCTIONS

*Item 4* - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

*Item 13* - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

## NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

**PRINCIPAL PURPOSE:** The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

**ROUTINE USES:** Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

**EFFECT OF NOT PROVIDING THE INFORMATION:** Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Cato San Andres Unit No. 176  
Abandonment Program v.1  
API Number: 30-005-20197-00-00  
Cato San Andres [10540]

Date: 5/30/2023

**Comments:**

1/1968: Spudded well and drilled to 3590'. Installed 4-1/2", 10.5# production casing at 3586' and cemented in-place. Perforated F/3422' – T/3488'.

5/1997: Returned to production using swab production method.

5/2009: Swab tested well results as follows:

5/5/2009: Swab 4 hrs, 1 bo, 5 bw

5/6/2009: Swab 4 hrs, 2 bo, 6 bw

**Notes:**

**Note 1:** Notify BLM when reaching final clean out depth of 3553' (PBD) and any activity after that point as per BLM permit.

**Note 2:** Yates perforations and cement volumes can be adjusted as necessary.

**Note 3:** Surface plug perforations and cement volumes can be adjusted as necessary.

**Note 4:** Cement volumes are based on 4-1/2", 10.5# casing.

**Note 5:** Class "C" neat cement has slurry yield of 1.32 CF/sack.

**Note 6:** Abandonment mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of brine water. Minimum of nine (9) pounds per gallon.

**Note 7:** Wireline lubricator system to be NU on BOP will be as follows:

- a. 3K lubricator with pump-in sub,
- b. 3K pack-off system with grease injector.

**Note 8:** Monitoring prior to wellhead removal (per Shell Well Abandonment Manual 4.6.2)

The wellhead shall only be removed when one (1) of the following conditions is met:

- a. Monitoring has been demonstrated absence of pressure build-up and/or bubbles.
- b. If the above cannot be met, a documented assessment is required to demonstrate that risk are ALARP (As Low As Reasonably Practicable)

**Note 9:** There is no record to indicate that tubing has been recovered from the well. If tubing is in the well, unlaid tubing, pull out of well with the tubing and lay down. If the tubing is not free, MIRU wireline unit with lubricator run in well with collar locator and determine if tubing is landed with a packer. Pull out of well collar locator. Attempt to unset packer. If unable to un-set packer, back-off tubing at top of "saver" sub. Pull out of well with tubing. Run in well with over shot, jars, accelerator jars, collars on work string and latch on to saver sub. Jar packer loose and pull out of well and recover packer.

**Note 10:** Bureau of Land Management, Interior, Subpart 3263 – Well Abandonment, 3261.11(2):

## Cato San Andres Unit No.176 Abandonment Program v.1

Methods you will use to verify the plugs (Tagging, pressure, etc.).

### Cato San Andres Unit No. 176 Abandonment Procedure

1. MIRU abandonment rig. Install Class II 2M BOPE with hydraulic controls on 4-1/2" casing, during abandonment operations with 2" kill line rated to 2000 psi per permit instructions. It will be maintained in operating condition and meet the following minimum guidelines:
  - a. Class II 2M with hydraulic controls during abandonment operations.
  - b. A 3M lubricator for wireline operations.
  - c. BOPE prevention drills will be conducted and recorded on the tour sheet.
  - d. Hole fluid of a quality and in sufficient quantity to control subsurface conditions.
2. Un-land 2-3/8" tubing, release packer set at 3308'. Pull out of well with tubing and packer. Lay down tubing and packer. **See Note 9 regarding additional information to recover tubing and packer in the event they are in the well.**
- 3.
4. Pick-up work string.
5. Run in well with bit and casing scraper for 4-1/2", 10.5# casing on work string, tag top of cement plug at 3553' (PBD). Circulate well clean. Pull out of well and lay down casing scraper and bit.
6. MIRU wireline equipment, install lubricator and test as necessary. Run in well with CIBP to 3370' (52' above top perforation at 3422'). Set CIBP at 3370'. Pull out of hole with wireline, RDMO wireline equipment.
7. Run in well with open ended work string tag top of CIBP at +/-3370'.
8. MIRU cementers, test lines. Place 413', 28 sx cement plug F/3370' – T/2942' with 37 CF of class "C" neat cmt (includes 10% excess). Pull out of well with work string to 2000', circulate tubing clean, estimated top of cement = 2957'. Wait on cement and tag top of cement plug notify BLM to witness cement tag (if required).
9. Lower and tag top of cement plug at +/-2957' with open ended work string. Shut well in and pressure test 4-1/2", casing to 300 psi for 15 minutes, notify consultant of pressure test results. If pressure test fails pull out of well with open ended work string.
10. Run in well with test packer for 4-1/2", 10.5# casing on work string locate leak and establishing injection rate and pressure, notify consultant of injection rate results and review possible squeeze cementing operations.

## Cato San Andres Unit No.176 Abandonment Program v.1

11. Load well with 31 bbls of at least 9 lb/gal abandonment fluid F/2957' - T/1000'.
12. After tagging cement plug at 2957', and placing abandonment fluid F/2957' – T/1000' pull out of well with open ended work string to 1921' and place 369' cement "bump" plug F/1921' – T/1552' with 33 cf of cement (no excess included). Allow cement to set, notify BLM to witness tagging of cement plug (if required).
13. Run in well with bit for 4-1/2", 10.5# casing on workstring to tag depth, tag top of cement plug at 1552'. Drill out cement as necessary F/tag depth – T/1552' notify BLM to witness tagging of cement plug (if required).
14. Pull out of well with work string.
15. MIRU wireline unit with lubricator. Run in well 10' perforating equipment to 1552' (top of Yates) and perforate F/1552' – T/1542'. Pull out of well with perforating equipment. RDMO wireline unit.
16. Run in well with test packer for 4-1/2", 10.5# casing on work string to 600'. Set test packer at 600' and establish injection rate through perforations F/1552' – T/1542', notify consultant of injection rate pressure results and review squeeze cementing operations.
17. MIRU cementing equipment test lines. Pump 835 cf (includes 10% excess) of class "C" neat cement as follows:
  - a. Pump 781 cf (139 bbls) through perforations, should bring top of cement in 4-1/2" csg x 16" OH to +/-1000'.
  - b. Displace cement to 1000' with at least 9 ppg abandonment fluid, leaving 54 cf of Class "C" neat cement in the 4-1/2" casing. Leave 200 psi on work string and allow cement to set.
- Note: Caliper log was run on this well, but does register through this interval of the well. Annular cement volume is based on 16" through this section of the well.**
18. After allowing cement to set, release packer and pull out of well with work string and packer, lay down packer.
19. Run in well with open ended work and tag top of cement plug at +/-1000'.
20. After tagging cement plug at 1000', pull out of well with open ended work string to 682' and place 369' cement "bump plug F/683' – T/314' with 33 cf of cement (no excess included). Allow cement to set, notify BLM to witness tagging of cement plug (if required).
21. Run in well with bit for 4-1/2". 10.5# bit on workstring to tag depth, tag top of cement plug at 320'. Drill out cement as necessary F/tag depth – T/314' notify BLM to witness tagging of cement plug (if required).

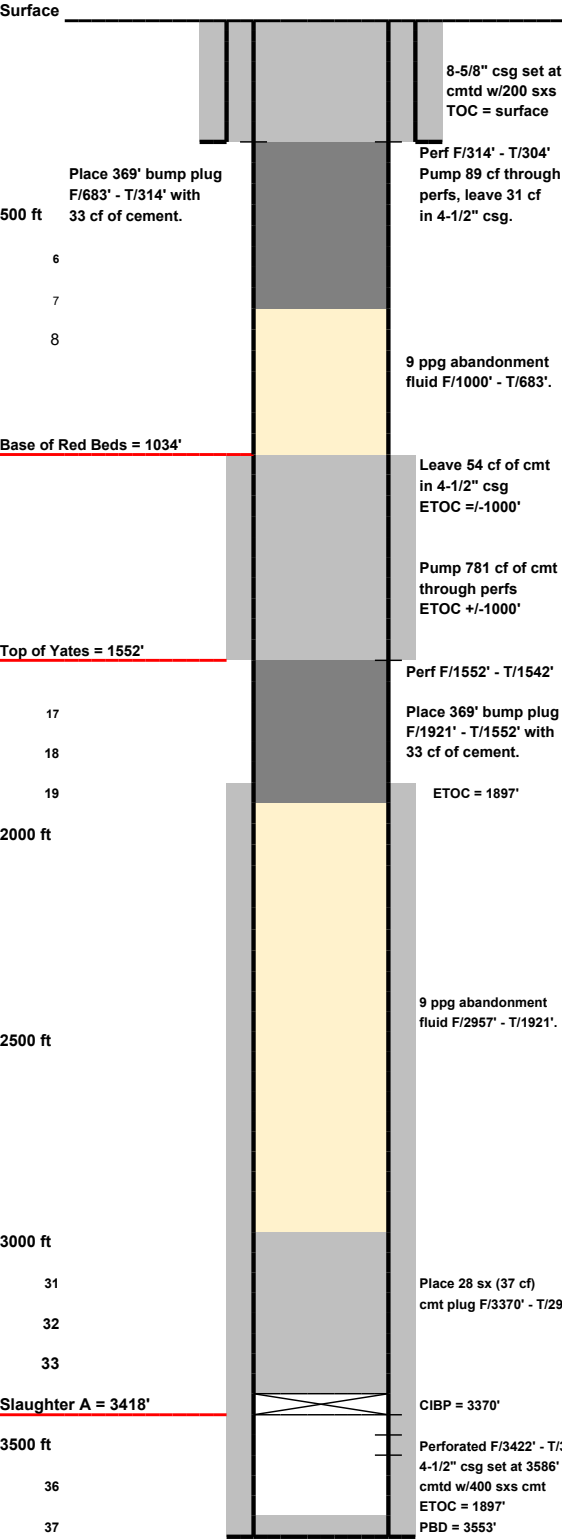
## Cato San Andres Unit No.176 Abandonment Program v.1

22. Surface casing is set 264'. MIRU wireline unit with lubricator. Run in well with 10' of perforating equipment to 314' and perforate F/314' – T/304'. Pull out of well with perforating equipment. RDMO wireline unit.
23. MIRU cementing equipment, test lines. Tie on to 4-1/2" casing and establish circulation to surface, notify consultant that circulation has been established.
24. After circulation has been established, pump 121 cf (includes 10% excess), pump 90 cf of class "C" neat cement through perforations F/314' – T/304', should bring cement in the 4-1/2" x 8-5/8" casing annulus to surface. And leave 31 cf of Class "C" neat cement in 4-1/2" casing at surface. Allow cement to set. RD cementing equipment.
25. Confirm cement at surface in 4-1/2" x 8-5/8" casing annulus and 4-1/2" casing. If cement has dropped make a arrangements to top off cement as necessary in the 4-1/2" and the 8-1/2" x 8-5/8" annulus.
26. Prior to nipping down BOP, monitor wellhead prior to removal. The wellhead shall only be removed when one of the following conditions is met:
  1. Monitoring has demonstrated absence of pressure build-up(s) and/or bubbles.
  2. If the above cannot be met, a documented assessment is required to demonstrate that risks are ALARP (As Low As Reasonably Practicable).
27. Rig down and move out workover rig.
28. All casing shall be cut-off at the base of the cellar or 3 feet below final restored ground level (whichever is deeper). Install surface cap and well marker.
  - a. Surface cap: the well bore shall be covered with a metal plate at least 1/4" thick and welded in place. A weep hole shall be left if a metal plate is welded in place.
  - b. The well bore shall then be capped with a 4" pipe, 10' in length, 4' above the ground and embedded in cement. The following information shall be permanently inscribe on the dry hole marker:
    - i. Well name
    - ii. Well number
    - iii. Name of Operator
    - iv. Lease serial number
    - v. Surveyed location (quarter-quarter section, Section, Township, Range – or other authorized survey designation acceptable to the authorized officer; such as metes and Bounds)
29. Backfill cellar

Proposed Well Bore Diagram after Abandonment Operations

Well #: Cato San Andres Unit 176  
Status: Idle  
API#: 30-005-20197

Date: 5/30/2023  
Field: Cato San Andres Unit  
Unit J, 1980 FSL, 1980 FEL, Sec 33, T08S, R30E, Chaves County



|                      |           |           |
|----------------------|-----------|-----------|
| Elevation            | DF        | above mat |
| DF                   | 4144'     | ASL       |
| TD                   | 3590'     |           |
| Completion Date:     | 1/28/1968 |           |
| Directional Drilled: | Vertical  |           |

|                                                                                                   |  |  |
|---------------------------------------------------------------------------------------------------|--|--|
| Junk/Plugs                                                                                        |  |  |
| Original drill well (1968)                                                                        |  |  |
| Drill 12-1/4" hole, 8-5/8" conductor set at 264' cmt w/200 sxs, cmt circulated.                   |  |  |
| Drilled 7-5/8" hole to 3590', 4-1/2", 10.5# csg set at 3586', cmt w/400 sxs of cmt, ETOC = 1897'. |  |  |
| Return to production (1997)                                                                       |  |  |
| Returned to production using swab production method.                                              |  |  |
| Swab tested well (5/2009)                                                                         |  |  |
| 5/5/2009: Swab 4 hrs, 1 bo, 5 bw                                                                  |  |  |
| 5/6/2009: Swab 4 hrs, 1 bo, 6 bw                                                                  |  |  |
|                                                                                                   |  |  |
|                                                                                                   |  |  |
|                                                                                                   |  |  |

|                                     |        |       |     |        |    |       |         |          |
|-------------------------------------|--------|-------|-----|--------|----|-------|---------|----------|
| Current Hole and Casing Information |        |       |     |        |    |       |         |          |
| Hole                                | Casing | WPF   | Top | Bottom | CF | Sacks | ETOC    | Comments |
| 12-1/4"                             | 8-5/8" | 24#   | 0'  | 264'   |    | 200   | Surface |          |
| 7-7/8"                              | 4-1/2" | 10.5# | 0'  | 3590'  |    | 400   | 1897'   |          |
|                                     |        |       |     |        |    |       |         |          |

|                   |       |       |
|-------------------|-------|-------|
| Zones of Interest |       |       |
| Formation         | Top   | Base  |
| Base of Red Beds  | 239'  | 1034' |
| Yates             | 1552' | 1650' |
| San Andres        | 2716' |       |
| Slaughter A (SA)* | 3418' |       |

(SA)\* = San Andres

|              |       |        |          |
|--------------|-------|--------|----------|
| Perforations |       |        |          |
|              | Top   | Bottom | Comments |
| San Andres   | 3422' | 3488'  | Open     |
|              |       |        |          |
|              |       |        |          |
|              |       |        |          |
|              |       |        |          |

Well Bore Diagram  
for  
Cato San Andres Unit No. 176  
(30-005-20197-00-00)

Hole Information

Casing Information

**Surface Hole**  
12-1/4'  
Depth 264'

**Surface Casing**  
8-5/8" Weight 24#  
Set Depth 264'

**Top of Cement - Surface**  
200 Sacks

Base Red Beds 1034'

Yates 1552'

**Top of Cement - 1897'**  
400 Sacks

**Production Hole**  
7-7/8"  
Depth 3683'

**Production Casing**  
4-1/2" Weight 10.5#  
Depth 3586'

**Tubing**  
2"  
Depth 3308'  
Packer set at 3308'

**Top of Pay** San Andres 3420'  
Depth 3420'

Perforations  
3422, 3426, 3436,  
3438, 3448, 3452,  
3453, 3458, 3465,  
3471, 3473, 3475,  
3479, 3481, 3485,  
3488

**Top of Cement 3553'**

**Total Depth 3590'**

**Cato San Andres Unit 176  
30-005-20197  
Shell Oil Company  
June 14, 2023  
Conditions of Approval**

- 1. Operator shall place CIBP at 3,370' (50'-100' above top most perf) and place a minimum of 25 sx of Class C cement on top. WOC and TAG.**
- 2. Operator shall place a balanced Class C cement plug from 1,921' to 1,552' as proposed. WOC and TAG.**
- 3. Operator shall perf at 1,552' and squeeze Class C cement to 1,000' to seal the Yates and the Salt Formations. WOC and TAG.**
- 4. Operator shall perf at 314' and squeeze class c cement to surface to seal the 8-5/8" casing shoe.**
- 5. Dry hole marker must be below ground.**
- 6. Surface reclamation will need to be completed once the well bore has been plugged. Please contact [rflores@blm.gov](mailto:rflores@blm.gov) for additional information.**
- 7. See Attached for general plugging stipulations.**

**JAM 06142023**

**BUREAU OF LAND MANAGEMENT**  
**Roswell Field Office**  
**2909 W. Second Street**  
**Roswell, New Mexico 88201**  
**575-627-0272**

**General Requirements for Plug Backs**

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging operations shall commence within **ninety (90)** days from this approval.

**If you are unable to plug back the well by the 90<sup>th</sup> day provide this office, prior to the 90<sup>th</sup> day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged back. Failure to do so will result in enforcement action.**

2. **Notification:** Contact the appropriate BLM office at least 24 hours prior to the commencing of any plug back operations. Call 575-627-0205.

3. **Blowout Preventers:** A blowout preventer (BOP), as appropriate, shall be installed before commencing any plugging operation. The BOP must be installed and maintained as per API and manufacturer recommendations. The minimum BOP requirement is a 2M system for a well not deeper than 9,090 feet; a 3M system for a well not deeper than 13,636 feet; and a 5M system for a well not deeper than 22,727 feet.

4. **Mud Requirement:** Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.

5. **Cement Requirement:** Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement.

**Before pumping cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.**

Unless otherwise specified in the approved procedure, the cement plug shall consist of either **Neat Class "C"**, for up to 7,500 feet of depth or **Neat Class "H"**, for deeper than 7,500 feet plugs.

6. **Subsequent Plug back Reporting:** Within 30 days after plug back work is completed, file one original and three copies of the Subsequent Report, Form 3160-5 to BLM. The report should give in detail the manner in which the plug back work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. **Show date work was completed.**

7. **Trash:** All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Michelle Lujan Grisham**  
Governor

**Sarah Cottrell Propst**  
Cabinet Secretary

**Dylan M. Fuge**  
Deputy Secretary

**Dylan M. Fuge**, Division Director (Acting)  
Oil Conservation Division



**NOTICE**

**NEW MEXICO PLUG AND ABANDON CONDITIONS OF APPROVAL**

**Effective January 1, 2024**

The New Mexico Oil Conservation Division (“OCD”) is announcing the release of its updated Plugging and Abandoning Conditions of Approval (“COA”). These COAs will bring consistency throughout the state and formalize existing practice in the field that are already being required by OCD and performed by Operators. OCD staff reviewing plans are directed to implement these COA’s are throughout the entire State of New Mexico, except when circumstances warrant modifications or additional requirements as dictated by specific plugging project conditions, which determines are left solely to OCD.

For the most part, these updates simply consolidate current practice to ensure it applied uniformly state-wide. The most significant changes from existing practice are as follows:

- **Logs.**
  - A Cement Bond Log is required to ensure isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can 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 the Compliance Officer Supervisor for faster review times, but email transmittal does not relieve the requirement for an operator to file through OCD permitting.
- **Cement:**
  - A table has been included which indicates the Class of cement and its allowed lower limits. This table is intended to align OCD requirements with applicable API standards and the Haliburton Redbook.
  - We are also standardizing practices with respect to cement waiting times:
    - 4 hours for accelerated (calcium chloride) cement.
    - 6 hours on regular cement.
- **Formations:**

1220 South St. Francis Drive • Santa Fe, New Mexico 87505  
Phone (505) 476-3460 • Fax (505) 476-3462 • [www.emnrd.nm.gov](http://www.emnrd.nm.gov)

- The COAs now include appendices for geological formation tops that shall be plugged.

The updated plugging COAs are attached to this notice. These COAs are effective for plugging operations for any NOI C-103F submitted on or after January 1, 2024, unless OCD determines that a modification or additional COAs are necessary based on specific plugging project conditions.

**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](mailto:monica.kuehling@emnrd.nm.gov)
  - South Contact, Gilbert Cordero, 575-626-0830, [gilbert.cordero@emnrd.nm.gov](mailto:gilbert.cordero@emnrd.nm.gov)
2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

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

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

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

|         |        |
|---------|--------|
| Class E | 14,000 |
| Class F | 16,000 |

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

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

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

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

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

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

17. Markers

- Dry hole marker requirements 19.15.25.10.  
The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
  1. Operator name
  2. Lease name and well number
  3. API number
  4. Unit letter
  5. Section, Township and Range
- AGRICULTURE (Below grade markers)  
In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
  - A) Aerial photo showing the agricultural area
  - B) Request from the landowner for the below ground marker.

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

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

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

Figure A

North Formations to be isolated with cement plugs are:

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

Figure B

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

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

## Figure C

## Potash Area R-111-P

## T 18S – R 30E

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

## T 19S – R 29E

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

## T 19S – R 30E

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

## T 19S – R 31E

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

## T 20S – R 29E

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

## T 20S – R 30E

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

## T 20S – R 31E

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

## T 21S – R 29E

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

## T 21S – R 30E

Sec 1 – Sec 36

## T 21S – R 31E

Sec 1 – Sec 36

T 22S – R 28E

Sec 36 Unit A,H,I,P.

T 22S – R 29E

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

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

T 22S – R 30E

Sec 1 – Sec 36

T 22S – R 31E

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

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

T 23S – R 28E

Sec 1 Unit A

T 23S – R 29E

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

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

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

T 23S – R 30E

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

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

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

T 23S – R 31E

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

Sec 16 Unit

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

34. Sec 35 Unit C,D,E.

T 24S – R 29E

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

T 24S – R 30E

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

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

T 24S – R 31E

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

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

T 25S – R 31E

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

Figure D1 and D2

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

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

Figure D1 Map

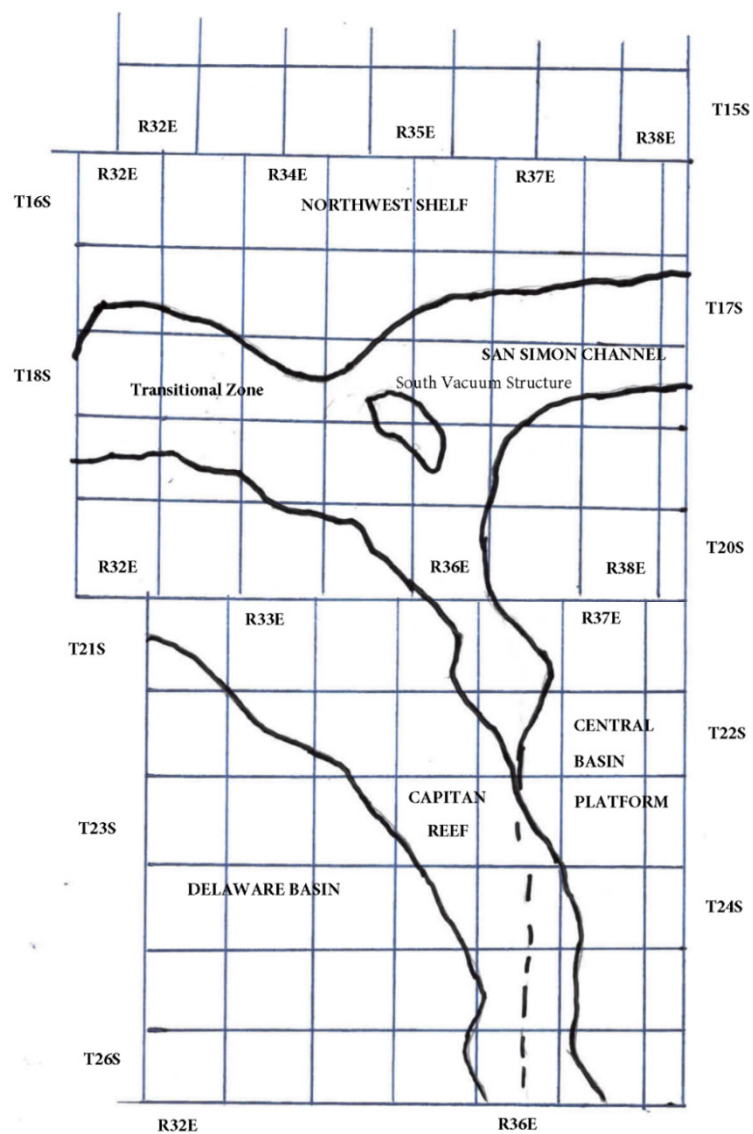


Figure D2 Formation Table

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
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**District IV**  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 325771

CONDITIONS

|                                                                                          |                                                     |
|------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>CANO PETRO OF NEW MEXICO, INC.<br>801 Cherry Street<br>Fort Worth, TX 76102 | OGRID:<br>248802                                    |
|                                                                                          | Action Number:<br>325771                            |
|                                                                                          | Action Type:<br>[C-103] NOI Plug & Abandon (C-103F) |

CONDITIONS

| Created By  | Condition                                                                                                                                                                                                                         | Condition Date |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| loren.diede | Contact NMOCD 24 hours prior to the start of P&A operations.                                                                                                                                                                      | 3/26/2024      |
| loren.diede | After setting the WL-set CIBP, (Step 6 Of Abandonment Program v.1) run CBL from 3370' to surface. Submit CBL to NMOCD via Electronic Permitting.                                                                                  | 3/26/2024      |
| loren.diede | Add cement plug to cover the San Andres formation top (2716') with a cement plug from 2766' to 2616'.                                                                                                                             | 3/26/2024      |
| loren.diede | Add a cement plug to cover the Grayburg and Queen formation tops (2354' and 2190') with a cement plug from 2404' to 2090'.                                                                                                        | 3/26/2024      |
| loren.diede | In lieu of the proposed plug from 1552' to 1034', isolate the Yates formation top (1552') with a cement plug from 1602' to 1452'. The results of the CBL will determine if the plug is to be an inside or inside / outside plug.  | 3/26/2024      |
| loren.diede | In lieu of the proposed plug from 1552' to 1034', isolate the Rustler formation top (1062') with a cement plug from 1112' to 962'. The results of the CBL will determine if the plug is to be an inside or inside / outside plug. | 3/26/2024      |