

District I - (575) 393-6161

Energy, Minerals and Natural Resources

Revised July 18, 2013

District II - (575) 748-1283

District III - (505) 334-6178

District IV - (505) 476-3460

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

Santa Fe, NM 87505

WELL API NO:

30-005-20230

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Cato San Andres Unit

8. Well Number

197

9. OGRID Number

248802

10. Pool name or Wildcat

Cato: San Andres

4. Well Location

Unit Letter I : 1980 feet from the South line and 660 feet from the East line
Section 5 Township 09 S Range 30 E NMPM County Chaves

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

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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.

- SEE ATTACHMENTS -

*** SEE ATTACHED COA'S

MUST BE PLUGGED BY
2/24/21

Spud Date:

Rig Release Date:

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

SIGNATURE _____ TITLE _____ DATE _____

Type or print name _____ E-mail address: _____ PHONE: _____

For State Use Only

APPROVED BY: [Signature] TITLE Staff DATE 2/24/20

Conditions of Approval (if any):

57

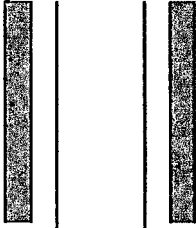
Cano Petro of NM Inc
Cato San Andres Unit # 197
30-005-20230
UL – I, Sec 5, T9S, R30E
1980' FSL & 660' FEL

8 5/8" 24 # csg @ 271' w/ 200 sx (circ)
4 1/2" 10.5# csg @ 3507' w/ 400 sx
Perfs 3337' – 3359'
TD 3507'

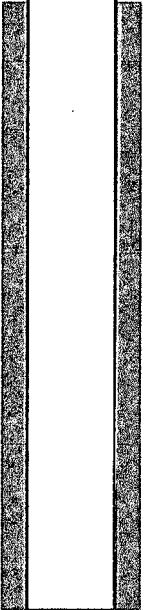
1. Set CIBP at 3237'.
2. Circulate mud laden fluid. Pressure test casing.
3. Spot 25 sx cmt on CIBP.
4. Perf at 1450' Sqz w/ 40 sx cmt. WOC & Tag. (Base of Salt)
5. Perf at 920'. Sqz w/ 40 sx cmt. WOC & Tag. (Top of Salt)
6. Perf at 321'. Pump sufficient cmt to circulate to surface. (Fill 8 5/8" x 4 1/2" annulus and 4 1/2" csg to surface).
7. Cut off wellhead. Verify cement to surface all strings. Install dry hole marker.

Canó Petro of NM Inc
CATO SAN ANDRES UNIT #197

CURRENT
30-005-20230



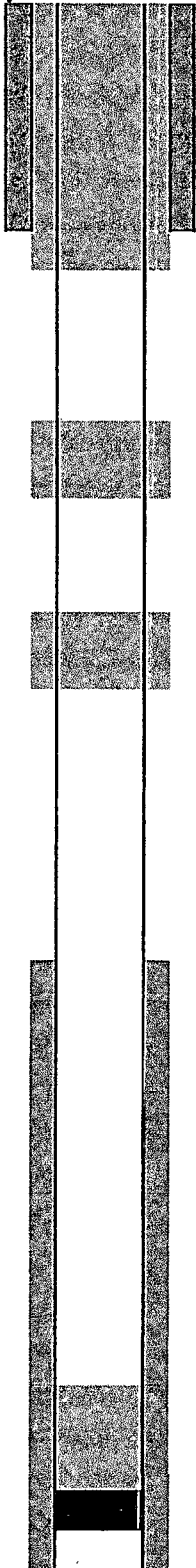
8 5/8" 24# @ 271'
w/200 sx cmt (circ)



Perfs 3337'-3359'
4 1/2 "10.5# @ 3507'
w/ 400 sx cmt
TD 3507'

Cano Petro of NM, Inc.
CATO SAN ANDRES UNIT #197

PROPOSED
30-005-20230



8 5/8" 24# @ 271'
w/200 sx cmt (circ)

INSTALL P&A MARKER
CUT OFF WELLHEAD

CIRC CMT TO SURFACE INSIDE/OUTSIDE
4 1/2" CASING
PERFORATE AT 321'

WOC & TAG
SQZ W/ 40 SX CMT
PERFORATE AT 920'

WOC & TAG
SQZ W/ 40 SX CMT
PERFORATE AT 1450'

SPOT 25 SX CMT
CIRC MUD LADEN FLUID & PRESSURE TEST CSG
SET CIBP AT 3237'

Perfs 3337'-3359'
4 1/2 "10.5# @ 3507'
w/ 400 sx cmt
TD 3507'

CONDITIONS FOR PLUGGING AND ABANDONMENT

OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD 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 as well as the 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 NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water will not be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
 - A) Fusselman
 - B) Devonian
 - C) Morrow
 - D) Wolfcamp
 - E) Bone Springs
 - F) Delaware
 - G) Any salt sections
 - H) Abo
 - I) Glorieta
 - J) Yates.
 - K) Potash--- (In the R-111-P Area (Potash Mine 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, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3. API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date
8. County (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, 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 NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION