| Received by OK Do A/275/2412 D4128:04 Office District I - (575) 393-6161 | State of New Mexico Energy, Minerals and Natural Resources | | Form Pusion of 13 Revised July 18, 2013 | | |
|--|--|---------------------------------|---|--|--|
| 1625 N. French Dr., Hobbs, NM 88240 | | | WELL API NO. | | |
| <u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210 | OIL CONSERVATION DIVISION | | 30-005-20042 | | |
| <u>District III</u> – (505) 334-6178 | 1220 South St. Francis Dr. | | 5. Indicate Type of Lease STATE FEE | | |
| 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> – (505) 476-3460 | Santa Fe, NM 87 | | 6. State Oil & Gas Lease No. | | |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | | | o. State Office das Lease No. | | |
| SUNDRY NOTI (DO NOT USE THIS FORM FOR PROPOSE DIFFERENT RESERVOIR. USE "APPLICATION OF THE PROPOSE OF THE PROPO | 7. Lease Name or Unit Agreement Name Cato San Andres Unit | | | | |
| PROPOSALS.) 1. Type of Well: Oil Well | 8. Well Number 123 | | | | |
| 2. Name of Operator Cano Petro of New Mexico, Inc. | 9. OGRID Number 330485 | | | | |
| 3. Address of Operator | | | | | |
| 801 Cherry Street Suite 3200 Uni | t 25 Fort Worth, TX 76102 | | Cato; San Andres | | |
| 4. Well Location | 660 | 0 1 1 | 1000 Cod Coords W. Nor | | |
| Unit Letter N Section 16 | 660feet from the Township 08S | _S line and Range 30E | 1980_feet from theWline NMPM County Chaves | | |
| Section 10 | 11. Elevation (Show whether DR, | | | | |
| | 4113 | Tanb, R1, GR, cre.) | | | |
| | | | | | |
| 12. Check A | Appropriate Box to Indicate N | ature of Notice, | Report or Other Data | | |
| NOTICE OF IN | TENTION TO: | SUB | SEQUENT REPORT OF: | | |
| PERFORM REMEDIAL WORK | PLUG AND ABANDON 🗵 | REMEDIAL WORI | 로 보이 있는 것이 없는 것이 되었습니다. 그는 사람들이 없는 이 전에 가장하는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이다. 그렇게 되었습니다. 그렇게 되었습니다. 그 사람들이 없는 것이 없는 것이 없는 것이다. 그렇게 되었습니다. 그렇게 그렇게 되었습니다. 그렇게 그렇게 되었습니다. 그렇게 되었습니다. 그렇게 되었습니다. 그렇게 되었습니다. 그렇게 되었습니다. 그렇게 되었습니다. | | |
| TEMPORARILY ABANDON | CHANGE PLANS | COMMENCE DRILLING OPNS. P AND A | | | |
| PULL OR ALTER CASING | MULTIPLE COMPL | CASING/CEMENT | T JOB | | |
| DOWNHOLE COMMINGLE | | | | | |
| CLOSED-LOOP SYSTEM OTHER: | | OTHER: | | | |
| | leted operations. (Clearly state all r | | d give pertinent dates, including estimated date | | |
| | ork). SEE RULE 19.15.7.14 NMAC | | mpletions: Attach wellbore diagram of | | |
| NMOCD plans to plug this w | vell in accordance with the attached | procedure and any | agreed modifications thereto. | | |
| ESTIMATED START DAT | E 1/25/21 | | | | |
| | All diameter Altell Alexan On | d Mandan | | | |
| | 4" diameter 4' tall Above Gro | ound Marker | | | |
| | | | | | |
| | | | ATTACHED CONDITIONS PPROVAL | | |
| | | OI A | TROVAL | | |
| | | | | | |
| Smud Data | Dia Palansa Da | tai | | | |
| Spud Date: | Rig Release Da | ite: | | | |
| | | | | | |
| I hereby certify that the information | above is true and complete to the be | est of my knowledge | e and belief. | | |
| SIGNATURE DI MCC | TITLE Authoriz | ed Representative_ | DATE 1/21/20 | | |
| Type or print name Drake McCulloo | chE-mail address: | drake@dwsrigs.co | PHONE: 505 320 1180 | | |
| For State Use Only | A - M - | | | | |
| APPROVED BY: | Forther TITLE Comp | oliance Officer A | DATE_1/29/21 | | |

Wellbore Diagram

Cato San Andres Unit #123 API #: 30-005-20042 Chaves County, New Mexico

P&S Plug 3

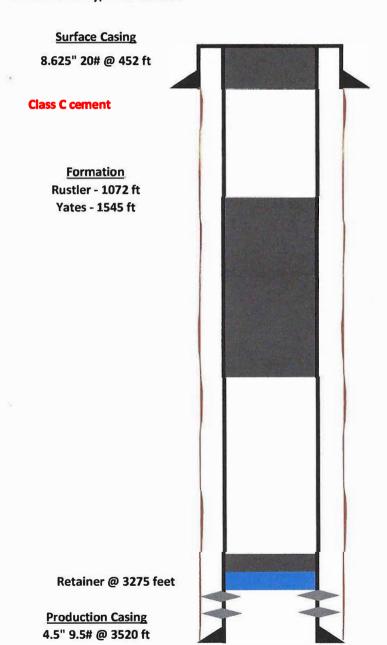
502 feet - Surface 502 feet plug 40 sacks of Class G Cement

P&S Plug 2

1595 feet - 972 feet 623 feet plug 50 sacks outside of casing

Plug 1

3275 feet - 3225 feet 50 feet plug 25 6 sacks of Class G Cement



Cano Petro/NMOCD OWP

Plug And Abandonment Procedure Cato San Andres Unit #123

660' FSL & 1980' FWL, Section 16, T8S, R30E Chaves County, NM / API 30-005-20042

- 1. Hold pre-job safety meeting. Comply with all NMOCD, BLM safety and environmental regulations. Test rig anchors prior to moving in rig if not rigged to base beam.
- 2. Check casing, tubing, and Bradenhead pressures.
- 3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
- 4. ND wellhead and NU BOP. Function test BOP.
- 5. Un-set packer at 3264'. TOOH with 2-3/8" tubing.
- 6. P/U 4-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 3325'.
- 7. P/U 4-1/2" CR, RIH and set CR at +/- 3275'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. POOH w/ tubing.

- 8. RU wireline and run CBL with 500 psi on casing from CR at 3275' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Brandon Powell at Brandon.powell@state.nm.us upon completions of logging operations.
- Rig up to pump cement down tubing. Pump water to establish rate down tubing.
- 10. Circulate wellbore with 9.5 ppg salt gel.

NOTE: All Plugs Include 100% excess outside casing and 50% Excess inside casing $\,$

11. Plug 1 (San Andres Perforations and Formation Top 3275'-3225', 6 25 Sacks Class G. Cement)

Mix 6 sx Class G cement and spot a balanced plug inside casing to cover the San Andres perforations and formation top.

12. Plug 2 (Yates and Rustler Formation Tops 1595'-972', 50 Sacks Class G Cement)

Mix 50 sx Class G cement and spot a balanced plug inside casing to cover the Yates and Rustler formation tops.

13. Plug 3 (Surface Casing Shoe 502'-Surface, 40 Sacks Class G Cement)

Attempt to pressure test the bradenhead annulus to 300 psi; note the volume to load. If BH annulus holds pressure, then establish circulation out casing valve with water. Mix approximately 40 sx cement and spot a balanced plug from 502' to surface, circulate good cement out of casing valve. TOH and LD tubing. Shut well in and WOC. If BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the casing from 502' and the annulus from the squeeze holes to surface. Shut in well and WOC.

14. ND cementing valves and cut off wellhead. Fill annuli with cement as necessary. Install P&A marker to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. RD, MOL and restore location per BLM stipulations.

CONDITIONS OF APPROVAL 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 I (Hobbs) at (575)-263-6633 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, woe 4 hours and tag, this plug will be SO' 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, woe and tagged. These plugs will be set SO' below formation bottom to 50' above formation top inside the casing.

DRY HOLE MARKER REQ.UIRMENTS

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 least¼" 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

Cano Petro/NMOCD OWP

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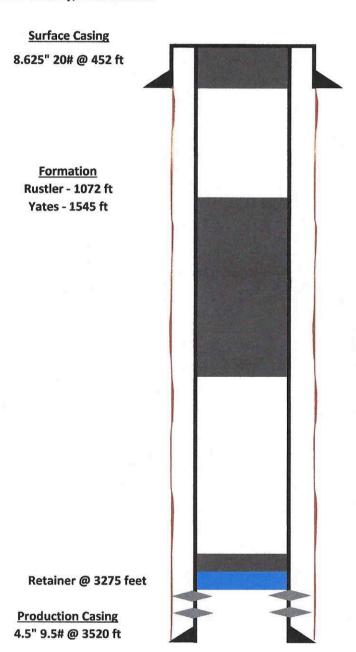
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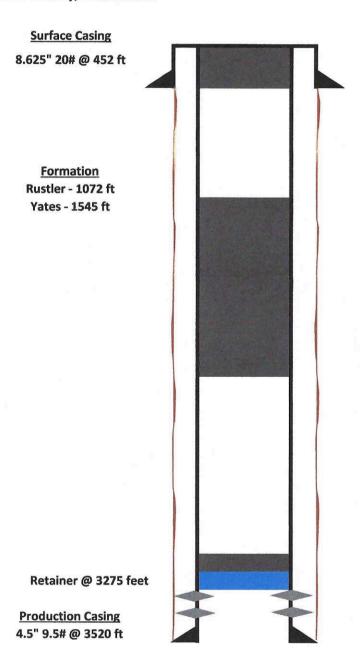
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<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 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 15894

CONDITIONS OF APPROVAL

| Operator: | | | OGRID: | Action Number: | Action Type: |
|------------------------------|-------------|---------------------|--------|----------------|--------------|
| J.A. DRAKE WELL SERVICE INC. | 607 W Pinon | Farmington, NM87401 | 330485 | 15894 | C-103F |

| OCD Reviewer | Condition |
|--------------|---|
| kfortner | See Attached Conditions of Approval Note Changes to Procedure |