

Submit Copy To Appropriate District  
Office  
District I – (575) 393-6161  
1625 N. French Dr., Hobbs, NM 88240  
District II – (575) 748-1283  
811 S. First St., Artesia, NM 88210  
District III – (505) 334-6178  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV – (505) 476-3460  
1220 S. St. Francis Dr., Santa Fe, NM  
87505

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

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

WELL API NO. 30-005-20017	
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Cato San Andres Unit	
8. Well Number	73
9. OGRID Number	330485
10. Pool name or Wildcat Cato; San Andres	
4. Well Location Unit Letter <u>A</u> <u>660</u> feet from the <u>    </u> N <u>    </u> line and <u>660</u> feet from the <u>    </u> E <u>    </u> line Section <u>16</u> Township <u>08S</u> Range <u>30E</u> NMPM County <u>Chaves</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4072	

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.

NMOCD plans to plug this well in accordance with the attached procedure and any agreed modifications thereto.

ESTIMATED START DATE 3/15/21

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 Authorized Representative \_\_\_\_\_ DATE 3/5/21

Type or print name Drake McCulloch \_\_\_\_\_ E-mail address: [drake@dwsrigns.com](mailto:drake@dwsrigns.com) PHONE: 505 320 1180

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

## **Cano Petro/NMOCD OWP**

### **Plug And Abandonment Procedure**

#### **Cato San Andres Unit #73**

660' FNL & 660' FEL, Section 16, T8S, R30E

Chaves County, NM / API 30-005-20017

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 3237'. 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 3276'.
7. P/U 4-1/2" CR, RIH and set CR at +/- 3226'. 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 3226' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Brandon Powell at [Brandon.powell@state.nm.us](mailto:Brandon.powell@state.nm.us) upon completions of logging operations.
9. 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 3226'-2926', 25 Sacks Class C Cement)**

Mix 25 sx Class C 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', 150 Sacks(Squeeze 100 sacks) Class C Cement)**

RIH and perforate squeeze holes at 1595'. Establish injection rate into perforations at 1595'. Mix 150 sx Class C cement. Squeeze 100 sx outside casing leaving 50 sx inside casing to cover the Yates and Rustler formation tops.

**13. Plug 3 (Surface Casing Shoe 500'-Surface, 150 Sacks Class C 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 150 sx cement and spot a balanced plug from 500' 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 500' 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.

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## Wellbore Diagram

Cato San Andres Unit #073

API #: 30-005-20017

Chaves County, New Mexico

### Plug 3

500 feet - Surface  
500 feet plug  
150 sacks of Class C Cement

### Plug 2

1595 feet - 972 feet  
623 feet plug  
150 sacks of Class C Cement  
100 sacks squeezed

### Plug 1

3226 feet - 2926 feet  
300 feet plug  
25 sacks of Class C Cement

### Surface Casing

8.625" 20# @ 450 ft

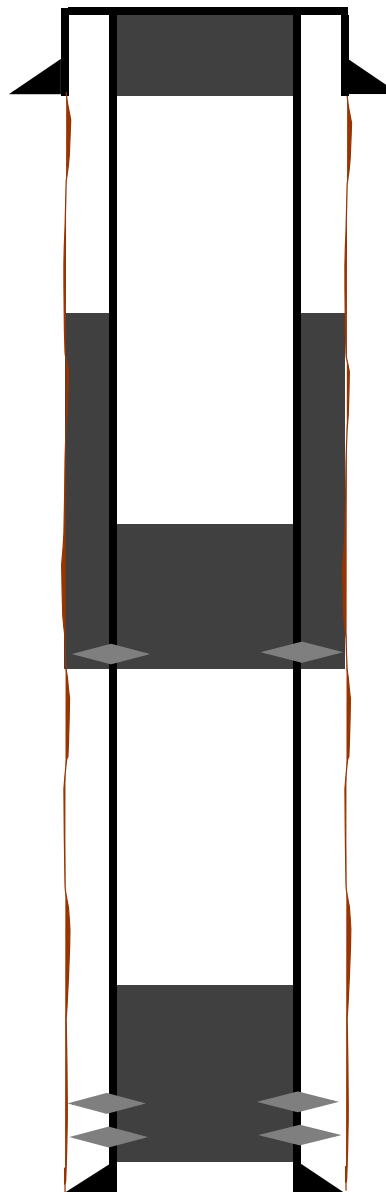
### Formation

Rustler - 1072 ft

Yates - 1545 ft

### Production Casing

4.5" 9.5# @ 3450 ft



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

CONDITIONS

Action 19921

**CONDITIONS OF APPROVAL**

Operator:	J.A. DRAKE WELL SERVICE INC.	607 W Pinon	Farmington, NM87401	OGRID:	330485	Action Number:	19921	Action Type:	C-103F
OCD Reviewer	Condition								
kfortner	See attached conditions of approval								