

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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)		WELL API NO. 30-005-21167
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Cano Petro of New Mexico, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator 801 Cherry Street Suite 3200 Unit 25 Fort Worth, TX 76102		7. Lease Name or Unit Agreement Name Cato San Andres Unit
4. Well Location Unit Letter <u>E</u> 1330 feet from the <u>N</u> line and 1305 feet from the <u>W</u> line Section <u>16</u> Township <u>08S</u> Range <u>30E</u> NMPM County <u>Chaves</u>		8. Well Number <u>355</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4136		9. OGRID Number 330485
		10. Pool name or Wildcat Cato; San Andres

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input checked="" type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	PNR <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

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 1/25/21

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 Drake McCulloch TITLE Authorized Representative DATE 1/21/20

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

**For State Use Only**

APPROVED BY: Kerry Fortner TITLE Compliance Officer A DATE 7/8/21  
 Conditions of Approval (if any):

## **Cano Petro Inc./NMOCD OWP**

### **Plug And Abandonment End Of Well Report**

#### **Cato San Andres Unit #355**

1330' FNL & 1305' FWL, Section 16, T8S, R30E

Chaves County, NM / API 30-005-21167

#### **Work Summary:**

- 2/9/21** Made NMOCD P&A operations notifications at 12:00 PM MST.
- 2/9/21** MOL and R/U P&A rig. Checked well pressures: Tubing: 0 psi, Casing: 90 psi, Bradenhead: 0 psi. Bled down well. Leveled out location for P&A rig. Pulled and L/D (2) 10' pup joints, 134 sucker rods, and sucker rod pump. Shut-in well for the day.
- 2/10/21** Checked well pressures: Tubing: 0 psi, Casing: 90 psi, Bradenhead: 90 psi. Bled down well. Gas monitors indicated a light presence of H<sub>2</sub>S gas. 20 bbls of fresh water was pumped down wellbore to kill well and gas migration. N/U BOP and function tested. L/D 108 joints of 2-3/8" tubing. P/U casing scraper and round tripped above top perforation at 3,286'. L/D 2 joints of tubing and stood the rest back in the derrick. Shut-in well for the day.
- 2/11/21** Checked well pressures: Tubing: 0 psi, Casing: 10 psi, Bradenhead: 10 psi. Bled down well. P/U CR, TIH and set at 3,236'. Stung out of CR and circulated wellbore with fresh water. When wellbore was circulated H<sub>2</sub>S gas was detected at 300 ppm. Shut-in well and had safety meeting about H<sub>2</sub>S. DWS utilized buddy system while on location. Circulated wellbore clean. R/U cementing services. Pumped plug #1 from 3,236'-2,994' to cover the San Andres perforations and formation top. L/D 16 joints of tubing and stood the remaining tubing back in derrick. WOC overnight. Shut-in well for the day.
- 2/18/21** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #1 top at 2,964'. TOOH with

work string. R/U wireline services. Ran CBL from top of plug #1 at 2,964' to surface. CBL results were sent to NMOCD office for review. CBL indicated TOC at 1,560'. TIH with tubing to 2,964'. Spotted 9.5 ppg mud spacer from 2,964'-1,550'. Attempted to pressure test production casing but casing failed to hold pressure. TOOH with tubing. R/U wireline services. RIH and perforated squeeze holes at 1,545'. PUH. Perforated squeeze holes at 500'. POOH. P/U 3 joints of tubing, 5.5" packer, and 27 additional joints of tubing to a depth of 957'. Set packer. Loaded wellbore with 3 bbls of fresh water. Successfully established injection rate into perforations at 1,545' at 430 psi. Pumped down casing and successfully established circulation down through perforations at 500' and back around and out Bradenhead valve at surface. Released packer and TOOH with 5 joints of tubing. Shut-in well for the day.

**2/19/21** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH with 1 joint of tubing and set packer at 732' with EOT at 827'. R/U cementing services. Successfully established injection rate down through perforations at 1,545' at a rate of 1.2 bpm at 280 psi. Pumped plug #2 from 1,545'-903' to cover the Yates and Rustler formation tops. WOC 4 hours. TIH and tagged plug #2 top at 815'. Spotted 9.5 ppg mud from 815'-600'. L/D tubing to 600'. R/U cementing services. Successfully established circulation down through perforations at 500' and back around and out Bradenhead valve at surface. Successfully circulated cement from 600' to surface to cover the surface casing shoe. WOC overnight. Shut-in well for the day.

**2/20/21** Checked well pressures: Tubing: N/A, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. P/U 1 joint of tubing and tagged surface plug at 20'. R/D and MOL. Used backhoe to dig out wellhead. Performed wellhead cut-off. Cement was at surface in 8-5/8" surface casing and 20' down 4 1/2" production casing. R/U cementing services. Topped-off well with 12 sx of cement. Installed P&A marker and plate per NMOCD standards. Photographed the P&A marker in place and recorded its location via GPS coordinates. R/D and MOL. Material Left on location: 132 sucker rods, 108 joints of 2-3/8" tubing, wellhead.

#### **Plug Summary:**

##### **Plug #1: (San Andres Perforations and Formation Top 3,236'-2,964', 25 Sacks Class C Cement)**

Mixed 25 sx Class C cement and spotted a balanced plug to cover the San Andres perforations and formation top.

**Plug #2:(Yates/Rustler Formation Tops 1,545'-815', 175 Sacks Class C Cement(Squeezed 110 sx))**

RIH and perforated squeeze holes at 1,545'. Successfully established injection rate into perforations at 1,545'. Squeezed 110 sx of cement into perforations at 1,545'. Un-set packer and spotted 65 sx Class C cement inside casing from 1,545-815' to cover the Yates and Rustler formation tops.

**Plug #3: (Surface Casing Shoe 600'-Surface, 219 Sacks Class C Cement(12 Sacks for Top-off))**

RIH and perforated squeeze holes at 500'. Successfully established circulation down through perforations at 500' and back around and out Bradenhead valve at surface. Successfully circulated cement from 600' to surface to cover the surface casing shoe. WOC overnight. P/U 1 joint of tubing and tagged surface plug at 20'. R/D and MOL. Used backhoe to dig out wellhead. Performed wellhead cut-off. Cement was at surface in 8-5/8" surface casing and 20' down 4 1/2" production casing. R/U cementing services. Topped-off well with 12 sx of cement. Installed P&A marker and plate per NMOC standards. Photographed the P&A marker in place and recorded its location via GPS coordinates. R/D and MOL.

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## Wellbore Diagram

Cato San Andres Unit #355

API #: 30-005-21167

Chaves County, New Mexico

### Plug 3

600 feet - Surface

600 feet plug

219 sacks of Class C Cement

12 sacks for top-off

### Plug 2

1545 feet - 815 feet

730 feet plug

175 sacks of Class C Cement

110 sacks squeezed

### Plug 1

3236 feet - 2964 feet

272 feet plug

25 sacks of Class C Cement

### Surface Casing

8.625" 24# @ 540 ft

### Formation

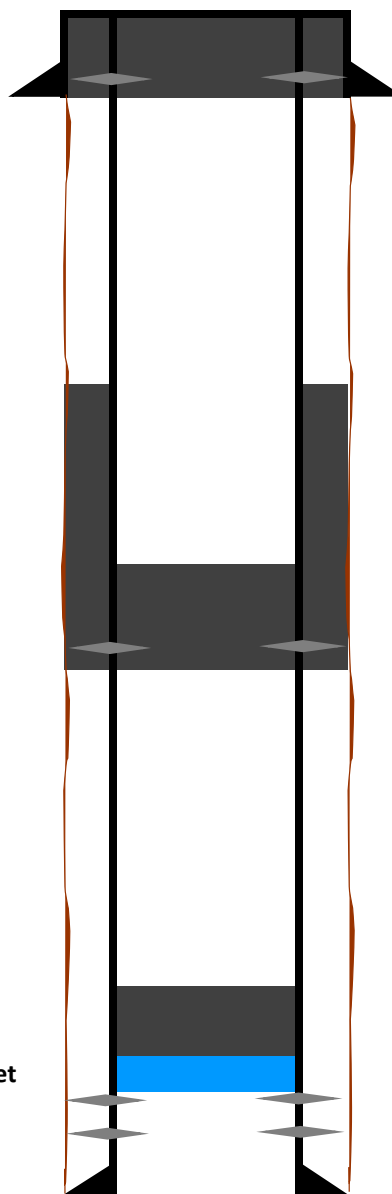
Rustler - 1072 ft

Yates - 1545 ft

Retainer @ 3236 feet

### Production Casing

5.5" 15.5# @ 3552 ft



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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
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**State of New Mexico**  
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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 20689

CONDITIONS

Operator: J.A. Drake Well Service Inc. 607 W Pinon Farmington, NM 87401	OGRID: 330485
	Action Number: 20689
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
kfortner	None	7/8/2021