

Cano Petro

Plug And Abandonment Procedure

Cato San Andres #573

1345' FNL & 2450' FEL, Section 14, 8S, 30E

Chaves County, NM / API 30-005-28016

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. P/U 5-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 3,482'.
6. P/U 5-1/2" CR, TIH and set CR at +/- 3,432'. 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.
7. RU wireline and run CBL with 500 psi on casing from CR at 3,432' 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.

8. Rig up to pump cement down tubing. Pump water to establish rate down tubing.
9. Circulate wellbore with 9.5 ppg salt gel.

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

10. Plug 1 (**San Andres Perforations 3,432'-3,212', 25 Sacks Type I/II Cement**)

Mix 25 sx Type I/II cement and spot a balanced plug inside casing to cover the San Andres perforations.

11. Plug 2 (**San Andres formation top 2,813'-2,593', 25 Sacks Type I/II Cement**)

Mix 25 sx Type I/II cement and spot a balanced plug inside casing to cover the San Andres perforations.

12. Plug 3 (**Grayburg Formation Top 2,406'-2,186', 25 Sacks Type I/II Cement**)

Mix 25 sx Type I/II cement and spot a balanced plug inside casing to cover the Grayburg formation top.

13. Plug 4 (**Tansill, Yates and Seven Rivers formation Tops 1,695'-1,320', 43 Sacks Type I/II Cement**)

Mix 43 sx Type I/II cement and spot a balanced plug inside casing to cover the Tansill, Yates, and Seven Rivers formation tops.

14. Plug 5 (**Surface Casing Shoe 1,152'-1,002', 46 Sacks Type I/II Cement**)

Mix 46 sx Type I/II cement and spot a balanced plug inside casing to cover the Surface Casing Shoe.

15. Plug 6 (Surface, 600'-Surface, 182 Sacks Type I/II 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 182 sx cement and spot a balanced plug from 600' 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 600' and the annulus from the squeeze holes to surface. Shut in well and WOC.

16. 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.

Existing Wellbore Diagram

Cano Petro Of New Mexico
Cato San Andres #573
API: 30-005-28016
Chaves County, New Mexico

Surface Casing

8.625" 24# @ 1102 ft
OH: 12.25"

Formation

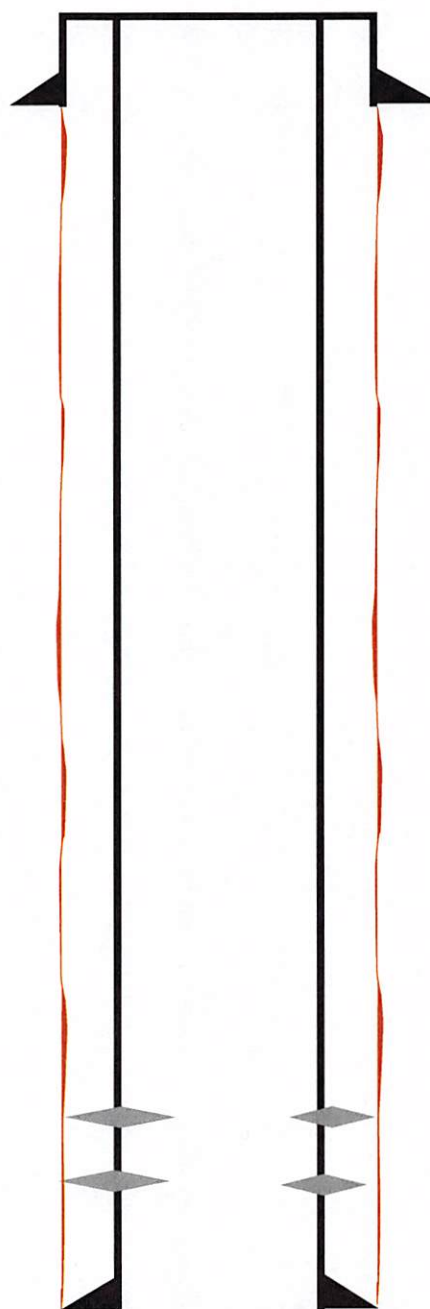
Tansill - 1420'
Yates - 1547'
Seven Rivers - 1645'
Grayburg - 2356'
San Andres - 2763'

Perforations

3482 feet - 3565 feet

Production Casing

5.5" 15.5# @ 4010 feet
OH: 7.875"



Proposed Wellbore Diagram

Cano Petro Of New Mexico
Cato San Andres #573
API: 30-005-28016
Chaves County, New Mexico

Surface Casing

8.625" 24# @ 1102 ft
OH: 12.25"

Plug 6

600 feet - Surface
600 foot plug
182 Sacks of Type I/II Cement

Plug 5

1152 feet - 1002
150 foot plug
46 Sacks of Type I/II Cement

Plug 4

1695 feet - 1320 feet
375 foot plug
43 Sacks of Type I/II Cement

Plug 3

2406 feet - 2186 feet
220 foot plug
25 Sacks of Type I/II Cement

Plug 2

2813 feet - 2593 feet
220 foot plug
25 sacks of Type I/II Cement

Plug 1

3432 feet - 3212 feet
220 foot plug
25 sacks of Type I/II Cement

Perforations

3482 feet - 3565 feet

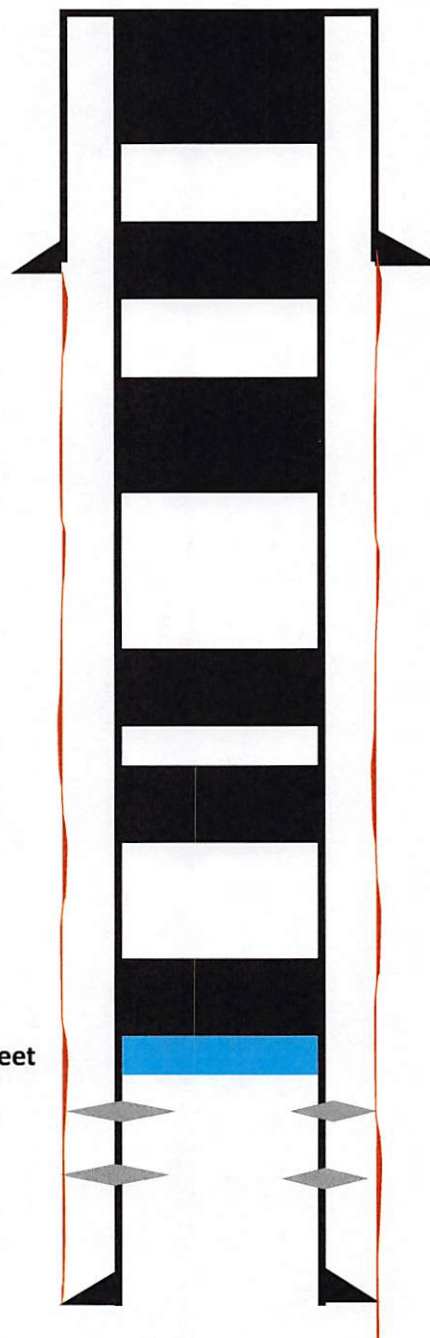
Formation

Tansill - 1420'
Yates - 1547'
Seven Rivers - 1645'
Grayburg - 2356'
San Andres - 2763'

Retainer @ 3432 feet

Production Casing

5.5" 15.5# @ 4010 feet
OH: 7.875"



Submit 1 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

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

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (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. 30-005-28016
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 on NM. INC		6. State Oil & Gas Lease No.
3. Address of Operator 801 Cherry Street Unit 25 Suite 3200 Fort Worth, Texas 76102		7. Lease Name or Unit Agreement Name Cato San Andres
4. Well Location Unit Letter <u>G</u> <u>1345</u> feet from the <u>N</u> line and <u>2450</u> feet from the <u>E</u> line Section <u>14</u> Township <u>08S</u> Range <u>30E</u> NMPM County Chaves		8. Well Number <u>573</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 248802
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:

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 there to.

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 3/14/23

Type or print name Ethan Wakefield

E-mail address: e.wakefield@dwsrigns.com

PHONE: 405 343 7736

For State Use Only

APPROVED BY:

TITLE

DATE

Conditions of Approval (if any):

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
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
District IV
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 221118

CONDITIONS

Operator: J.A. Drake Well Service Inc. 607 W Pinon Farmington, NM 87401	OGRID: 330485
	Action Number: 221118
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
john.harrison	Approved w/ conditions. Adhere to NMOCD COAs attached.	6/2/2023