

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

Form C-103
 Revised July 18, 2013

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

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. 30-005-20142
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>D</u> <u>660</u> feet from the <u>N</u> line and <u>660</u> feet from the <u>W</u> line Section <u>9</u> Township <u>08S</u> Range <u>30E</u> NMPM County Chaves		8. Well Number <u>13</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4050		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"/>	
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 plugged well according to attached EOW report and plugged WBD.

WELL PLUGGED 4/6/22

Spud Date:

Rig Release Date:

Approved for plugging of well bore only. Liability under bond is retained pending Location cleanup & receipt of C-103Q (Subsequent Report of Well Plugging) which may be found at OCD Web Page, OCD Permitting @ www.emnrd.state.nm.us

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 4/12/22

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

For State Use Only

APPROVED BY: Accepted for record – NMOCD gc 12/1/2022 DATE _____
 Conditions of Approval (if any):

Cano Petro Inc./NMOCD OWP

Plug And Abandonment End Of Well Report

Cato San Andres Unit #13

660' FNL & 660' FWL, Section 9, T8S, R30E

Chaves County, NM / API 30-005-20142

Work Summary:

- 3/27/22** Made NMOCD P&A operations notifications at 9:00 AM MST.
- 3/28/22** MOL and R/U P&A rig. Prepped location with backhoe. Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Removed horse's head in preparation to pull rods. Worked stuck sucker rod pump free. L/D polish rod, 2 - 8' 7/8" pony rods, 83- 3/4" sucker rods, 45 - 7/8" sucker rods, and sucker rod pump. N/D wellhead, N/U BOP and function tested. Worked stuck tubing. L/D 2 - 6' 2-3/8" pup joints, 127 joints of 2-3/8" tubing, seating nipple, 4' perforated pup joint, and 1 joint of 2-3/8" tubing with bull plug. Secured and shut-in well for the day.
- 3/29/22** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 245 psi. Bled down well. P/U 4 1/2" casing scraper and work string and round tripped above top perforation to a depth of 3,281'. P/U 4 1/2" CR, TIH and set at 3,219'. There was trouble setting retainer properly at 3,219' based on casing integrity issues. TOOH and L/D stinger nose. TIH to 3,219'. R/U cementing services. Circulated wellbore clean with 60 bbls of fresh water. Pumped plug #1 from 3,219'-2,470' to cover the San Andres perforations and formation top. L/D tubing up to next plug depth. TOOH with remaining tubing. WOC overnight. Secured and shut-in well for the day.
- 3/30/22** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #1 top at 2,684'. Circulated wellbore with 25 bbls of fresh water. Attempted to pressure test production casing to 500 psi in which it failed to hold pressure. R/U

cementing services. Spotted 9.5 ppg mud spacer from 2,684'-1,595'. L/D tubing up to next plug depth. TOOH with remaining tubing. R/U wireline services. Ran CBL from top of plug #1 at 2,684' to surface. CBL results were sent to NMOCD office for review. RIH and perforated squeeze holes at 1,595'. P/U packer, TIH and set at 972'. Successfully established injection rate through packer at 972' and into perforations at 1,595'. Un-set packer and TOOH. P/U CR, TIH to 1,022' where CR hung up on casing and preset at 1,022'. Attempted to establish injection rate through CR at 1,022' but water started circulating up production casing indicating CR had not sufficiently set and isolated wellbore below 1,022'. Stung out of CR and TOOH. P/U mule shoe sub. TIH and tagged CR at 1,022'. Attempted to push CR down wellbore but was unsuccessful. TOOH and L/D mule shoe sub. P/U 4 ½" packer, TIH and set at 972'. Attempted to establish injection rate below packer at 972' but was unsuccessful. Un-set packer and TOOH. Secured and shut-in well for the day.

3/31/22 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH with stinger to attempt to sting into CR. Attempted to sting into CR and establish injection rate below CR but was unsuccessful. TOOH. L/D stinger nose. TIH with cementing sub to 1,022'. R/U cementing services. Pumped plug #2 from 1,022'-654' to cover the Yates and Rustler formation tops. TOOH. WOC 4 hours. TIH to tag plug #2 top and tagged CR at 1,022'. TOOH and made sure tubing was clear. TIH to 654' and reversed circulated wellbore. TOOH. Secured and shut-in well for the day.

4/1/22 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #2 top at 684'. TOOH with work string. Waited on wireline services. Secured and shut-in well for the day.

4/4/22 Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #2 top at 684'. R/U cementing services. Pressure tested production casing to 500 psi in which it successfully held pressure. Spotted 9.5 ppg mud spacer from 684'-369'. TOOH. R/U wireline services. RIH and perforated squeeze holes at 369'. R/U cementing services. Successfully established circulation down production casing through perforations at 369' and back around and out Bradenhead valve at surface with 12 bbls of fresh water. Circulated cement down production casing through perforations at 369' and back around and out Bradenhead valve at surface. After circulating 11 bbls of cement circulation out of Bradenhead was lost. Pumped a total of 228 sx of cement and 10 additional bbls of fresh water but never re-established circulation

out of Bradenhead. Shut-in well with 245 psi left on production casing. WOC overnight. Secured and shut-in well for the day.

- 4/5/22** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. TIH and tagged plug #3 top at 401' which was below the perforation depth at 369'. Attempted to establish circulation down production casing through perforations at 369' and back around and out Bradenhead valve at surface with 10 bbls of fresh water but was unsuccessful. TOOH with tubing. Wireline services will re-perforate casing for surface plug so that cement can be circulated to surface on 4/6/22. Secured and shut-in well for the day.
- 4/6/22** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. R/U wireline services. RIH and perforated squeeze holes at 196'. R/U cementing services. Successfully established circulation down 4 ½" production casing through perforations at 196' and back around and out Bradenhead valve at surface with 10 bbls of fresh water. TIH to 401'. R/U cementing services. Pumped plug #3 from 401' to perforations at 196' and circulated cement through perforations at 196' and back around and out Bradenhead valve at surface. Filled casing from 196' to surface with cement. N/D BOP, N/U wellhead. R/D and MOL. Secured and shut-in well for the day.
- 12/28/22** Checked well pressures: Tubing: 0 psi, Casing: 0 psi, Bradenhead: 0 psi. Bled down well. Dug out wellhead with backhoe. Performed wellhead cut-off. Cement was at surface in 4 ½" production casing. Ran weighted tally tape down 8-5/8" surface casing annulus and tagged cement 30' down. R/U cementing services. Ran ¾" poly pipe down 8-5/8" surface casing annulus and topped-off well with 12 sx of cement. Installed subsurface P&A marker per NMOC regulations. Photographed the P&A marker in place and recorded its location via GPS coordinates. Back filled P&A marker. R/D and MOL.

Plug Summary:

Plug #1:(San Andres Perforations and Formation Top 3,219'-2,684', 50 Sacks Type III Cement)

Mixed 50 sx Type III cement and spotted a balanced plug to cover the San Andres perforations and formation top.

Plug #2:(Yates and Rustler Formation Tops 1,022'-684', 25 Sacks Type III Cement)

RIH and perforated squeeze holes at 1,595'. P/U packer, TIH and set at 972'. Successfully established injection rate through packer at 972'

and into perforations at 1,595'. Un-set packer and TOOH. P/U CR, TIH to 1,022' where CR hung up on casing and preset at 1,022'. Attempted to establish injection rate through CR at 1,022' but water started circulating up production casing indicating CR had not sufficiently set and isolated wellbore below 1,022'. Stung out of CR and TOOH. P/U mule shoe sub. TIH and tagged CR at 1,022'. Attempted to push CR down wellbore but was unsuccessful. TOOH and L/D mule shoe sub. P/U 4 ½" packer, TIH and set at 972'. Attempted to establish injection rate below packer at 972' but was unsuccessful. Un-set packer and TOOH. TIH with stinger to attempt to sting into CR. Attempted to sting into CR and establish injection rate below CR but was unsuccessful. TOOH. L/D stinger nose. TIH with cementing sub to 1,022'. R/U cementing services. Pumped plug #2 from 1,022'-654' to cover the Yates and Rustler formation tops. TOOH. WOC 4 hours. TIH to tag plug #2 top and tagged CR at 1,022'. TOOH and made sure tubing was clear. TIH to 654' and reversed circulated wellbore. TOOH. TIH and tagged plug #2 top at 684'.

Plug #3: (Surface Casing Shoe 401'-Surface, 282 Sacks Type III Cement)

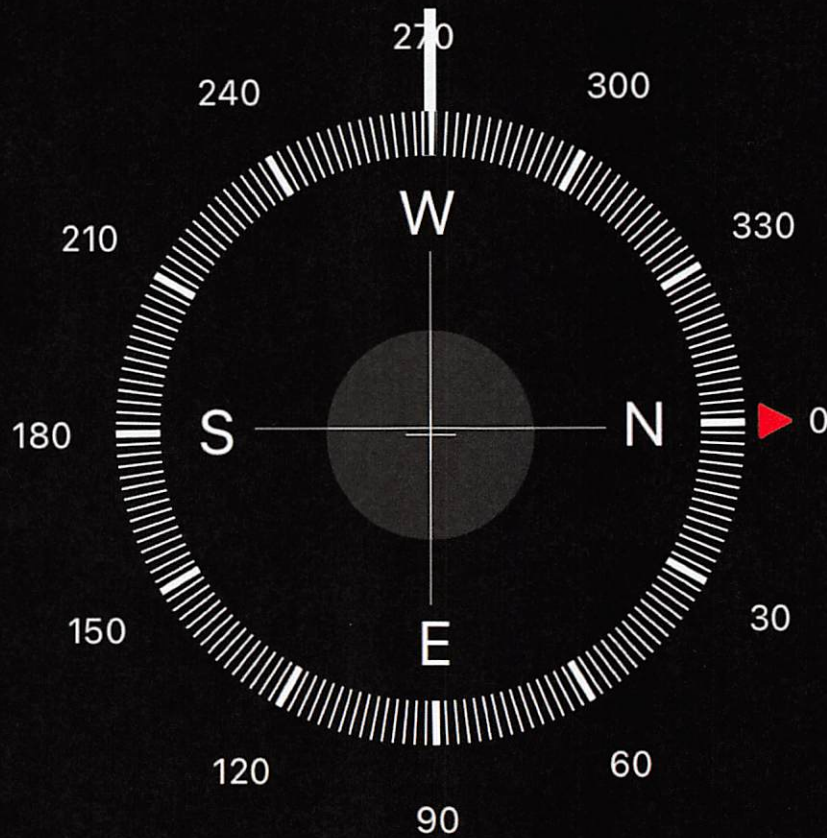
RIH and perforated squeeze holes at 369'. R/U cementing services. Successfully established circulation down production casing through perforations at 369' and back around and out Bradenhead valve at surface with 12 bbls of fresh water. Circulated cement down production casing through perforations at 369' and back around and out Bradenhead valve at surface. After circulating 11 bbls of cement circulation out of Bradenhead was lost. Pumped a total of 228 sx of cement and 10 additional bbls of fresh water but never re-established circulation out of Bradenhead. Shut-in well with 245 psi left on production casing. WOC overnight. TIH and tagged plug #3 top at 401' which was below the perforation depth at 369'. Attempted to establish circulation down production casing through perforations at 369' and back around and out Bradenhead valve at surface with 10 bbls of fresh water but was unsuccessful. TOOH with tubing. Wireline services will re-perforate casing for surface plug so that cement can be circulated to surface on 4/6/22. R/U wireline services. RIH and perforated squeeze holes at 196'. R/U cementing services. Successfully established circulation down 4 ½" production casing through perforations at 196' and back around and out Bradenhead valve at surface with 10 bbls of fresh water. TIH to 401'. R/U cementing services. Pumped plug #3 from 401' to perforations at 196' and circulated cement through perforations at 196' and back around and out Bradenhead valve at surface. Filled casing from 196' to surface with cement. N/D BOP, N/U wellhead. R/D and MOL. Dug out wellhead with backhoe. Performed wellhead cut-off. Cement was

at surface in 4 ½" production casing. Ran weighted tally tape down 8-5/8" surface casing annulus and tagged cement 30' down. R/U cementing services. Ran ¾" poly pipe down 8-5/8" surface casing annulus and topped-off well with 12 sx of cement. Installed subsurface P&A marker per NMOCD regulations. Photographed the P&A marker in place and recorded its location via GPS coordinates. Back filled P&A marker. R/D and MOL.





3:23



270° W

33°38'23" N 103°53'29" W

4050 ft Elevation

Wellbore Diagram

Cato San Andres Unit #013
API #: 30-005-20142
Chaves County, New Mexico

Plug 3

401 feet - Surface
401 feet plug
282 sacks of Type III Cement

Plug 2

1022 feet - 684 feet
338 feet plug
25 sacks of Type III Cement

Plug 1

3219 feet - 2684 feet
535 feet plug
50 sacks of Type III Cement

Perforations

3262 ft - 3264 ft
3282 ft - 3292 ft
3306 ft - 3316 ft

Surface Casing

8.625" 24# @ 319 ft

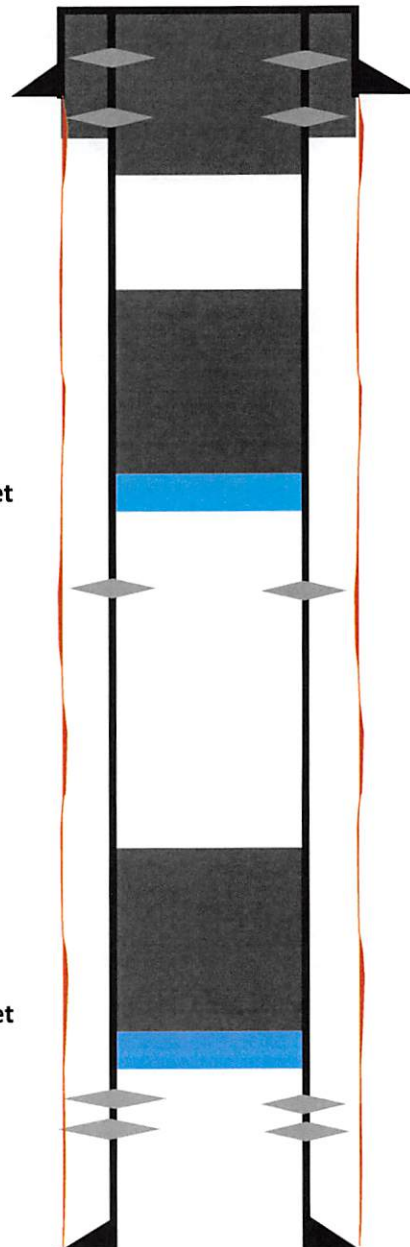
Formation

Anhy - 1010 ft
Yates - 1362 ft
San Andres - 3212 ft

Retainer @ 1022 feet

Retainer @ 3219 feet

Production Casing
4.5" 9.5# @ 3384 ft



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Santa Fe, NM 87505

CONDITIONS

Action 97996

CONDITIONS

Operator: J.A. Drake Well Service Inc. 607 W Pinon Farmington, NM 87401	OGRID: 330485
	Action Number: 97996
	Action Type: [C-103] Sub. Plugging (C-103P)

CONDITIONS

Created By	Condition	Condition Date
gcordero	None	12/1/2022