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District I - (575) 393-6161	Energy, Minerals and Natural Resources OIL CONSERVATION DIVISION		Form C-103 Revised July 18, 2013		
1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> – (575) 748-1283			WELL API NO.		
811 S. First St., Artesia, NM 88210 <u>District III</u> – (505) 334-6178			30-005-10572		
1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fra		5. Indicate Type of Lease STATE ☐ FEE ☐		
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 8	37505	6. State Oil & Gas Lease No.		
(DO NOT USE THIS FORM FOR PROPO	TCES AND REPORTS ON WELL OSALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT" (FORM C-101) F	LIC DACK TO A	7. Lease Name or Unit Agreement Name Cato San Andres Unit		
1. Type of Well: Oil Well	Gas Well Other		8. Well Number 081		
2. Name of Operator Cano Petro of New Mexico, Inc			9. OGRID Number 330485		
3. Address of Operator			10. Pool name or Wildcat		
801 Cherry Street Suite 3200 Un	it 25 Fort Worth, TX 76102		Cato; San Andres		
4. Well Location					
Unit LetterA	660 feet from the	N line and	660_feet from theE line		
Section 14	Township 08S	Range 30E	NMPM County Chaves		
	11. Elevation (Show whether DR 4168	, RKB, RT, GR, etc.)			
	1100				
12 Check	Annronriate Roy to Indicate N	Johnna of Notice	D 01 B		
	Appropriate Box to Indicate N	lature of Notice,	Report or Other Data		
NOTICE OF IN	TENTION TO:	SUBS	SEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON 🛛	REMEDIAL WORK			
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRIL	LLING OPNS. ☐ P AND A ☐		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB 🗆		
DOWNHOLE COMMINGLE CLOSED-LOOP SYSTEM					
OTHER:		OTHER:	nder er dagt kalt i der gr <u>e</u> ed		
	leted operations. (Clearly state all 1	pertinent details, and	give pertinent dates, including estimated date		
or starting any proposed wo	TK). SEE KULE 19.13./.14 NMA(C. For Multiple Com	appletions: Attach wellbore diagram of		
proposed completion or rec	ompletion.		, and the state of the state of		
NMOCD plans to plug this w	rell in accordance with the attached	procedure and any a	agreed modifications thousts		
		procedure and any a	igreed modifications thereto.		
ESTIMATED START DAT	E 5/15/22				
LDC Area Balaw ground m	arker and piec before backfillir	a hala			
LPC Area Below ground in	arker send pics before backfillin	ig flole			
			SEE ATTACHED CONDITIONS		
			OF APPROVAL		
Spud Date:	Rig Release Da	to			
	Kig Kelease Da	ic.	100000000000000000000000000000000000000		
I hereby certify that the information a	hove is true and complete to the he	at of mary long and a deci-	-11 1 0		
e and the information to	bove is true and complete to the be	st of my knowledge	and belief.		
To da.					
SIGNATURE AND MEQUE	TITLE Authorize	ed Representative	DATE 5/12/22		
Tyme or mint and B. 1. M. C. II.					
Type or print name Drake McCulloc For State Use Only	ı E-mail address:	drake@dwsrigs.con	PHONE: 505 320 1180		
I State Use Unity	M.				
APPROVED BY:	TITLE COMPL	iance Officer A	DATE 5/25/22		
Conditions of Approval (if any):			DATE_0/20/22		
•	575-2	263-6633			

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, WOC 4 hours and tag, this plug will be 50' 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, WOC and tagged. These plugs will be set 50' 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 least ¼" 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

Plug And Abandonment Procedure Cato San Andres Unit #081

660' FNL & 660' FEL, Section 14, T8S, R30E Chaves County, NM / API 30-005-10572

- 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 4-1/2" bit or casing scraper on 2-3/8" work string and round trip as deep as possible above top perforation at 3,528'.
- 6. P/U 4-1/2" CR, TIH and set CR at +/- 3,478'. 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 3,478' to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to

Brandon Powell at <u>Brandon.powell@state.nm.us</u> 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 and Formation Top 3,478'-3,116', 25 Sacks Type III Cement)

Mix 25 sx Type III cement and spot a balanced plug inside casing to cover the San Andres perforations and formation top.

11. Plug 2 (Yates and Rustler Formation Tops 1,595'-972', 150 Sacks Type III Cement(Squeeze 100 sx))

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

12. Plug 3 (Surface Casing Shoe 508'-Surface, 140 Sacks Type III 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 140 sx cement and spot a balanced plug from 508' 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 508' and the annulus from the squeeze holes to surface. Shut in well and WOC.

13. 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

Cato San Andres Unit #081 API #: 30-005-10572 Chaves County, New Mexico

Surface Casing

8.625" 24# @ 458 ft

Formation

Rustler - 1072 ft Yates - 1545 ft

San Andres - 3478 ft

Perforations

3604 feet - 3614 feet 3618 feet - 3620 feet 3628 feet - 3636 feet

3641 feet - 3652 feet

Production Casing 4.5" 9.5# @ 3680 ft

Proposed Wellbore Diagram

Cato San Andres Unit #081 API #: 30-005-10572 Chaves County, New Mexico

Plug 3

508 feet - Surface 508 foot plug

140 sacks of Type III Cement

Plug 2

1595 feet - 972 feet 623 foot plug 150 sacks of Type III Cement Squeeze 100 sacks of Cement

Plug 1

3478 feet - 3116 feet 362 foot plug 25 sacks of Type III Cement

Perforations

3604 feet - 3614 feet 3618 feet - 3620 feet 3628 feet - 3636 feet 3641 feet - 3652 feet

Surface Casing

8.625" 24# @ 458 ft

Formation

Rustler - 1072 ft Yates - 1545 ft San Andres - 3478 ft



Retainer @ 3478 ft

Production Casing 4.5" 9.5# @ 3680 ft

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

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**

COMMENTS

Action 108346

COMMENTS

Operator:	OGRID:
J.A. Drake Well Service Inc.	330485
607 W Pinon	Action Number:
Farmington, NM 87401	108346
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

COMMENTS

(Created By		Comment Date
	plmartinez	DATA ENTRY PM	5/26/2022

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Created By		Condition Date
kfortner	See attached COA	5/25/2022